

**PERFORMANCE TESTING OF A DIESEL ENGINE RUNNING ON VARYING
BLENDS OF JATROPHA OIL, WASTE COOKING OIL AND DIESEL FUEL**

by

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Dissertation submitted in partial fulfilment of the requirements for the degree

Master of Technology: Mechanical Engineering, Renewable Energy

in the Faculty of Engineering

at the Cape Peninsula University of Technology

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Date submitted: 18 April 2016

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ABSTRACT

The high cost of fossil fuels and the fact that the world has arguably reached its peak oil production, has driven the need to seek alternative fuel sources.

The main objective of the current study is to determine the performance of a laboratory-mounted diesel engine when fuelled with varying laboratory prepared biofuel and biodiesel and whether the advancement of the injection timing parameters will improve the engine power output and improve the smoke effect of these different fuel blends. The laboratory prepared biofuels used in this project range from 100% bio-fuel (BF100) to 50%, 30% and 10% biodiesel blends (BF50, BF30 and BF10, respectively). It should be noted that these blends are not commercially available, since they were blended in the laboratory specifically for these tests.

The overall results of the study show that there is a distinct opportunity for using certain bio-fuel blends in specific applications as the power outputs are no more than one quarter less than that of base diesel. Concomitantly, the smoke opacity in all of the blends is lower than that of base diesel, which is a significant benefit in terms of their overall air emissions.

The sample results obtained show that the BF100 blend produces 25.3% less power than that of base diesel, but has an advantage of producing lower emissions (referred to as smoke opacity) compared to the other fuels. Thus, BF100 can potentially be employed in applications where there is no absolute imperative to maximise power (and efficiency), if it can be shown that there are operating cost benefits. Using a similar argument, the BF50 could potentially be used in certain applications since a 10% power drop was obtained with this blend with a commensurate low smoke opacity.

The power output and smoke opacity results for the bio-fuels tested point to their potential for practical applications on a broader scale. Further work in terms of long-term on-road engine testing could explore issues such as impacts on engine reliability, maintenance implications and component wear.

ACKNOWLEDGEMENTS

I wish to thank Prof Francois Ondendaal, Mr Ilyas Omar and Mr Selbourne Makhomo for granting me an opportunity to conduct such rewarding research in the field of renewable energy. Furthermore, I wish to thank them for their regular support and for seeing the project through to completion. I would like to include Ms Rosetta Ziegler who spent several hours reading the draft and making constructive suggestions.

Also, I would like to make mention of the Cape Advanced Engineering (CAE) team for availing the testing facilities, and the engineers and technicians who assisted during the laboratory work.

A special thanks to my wife, Lwandisiwe Sinuka for believing in me and providing such tremendous support and the sacrifice she went through for me till the completion of the research and not to forget my three kids, Lilitha, Simemo and Sisemi Sinuka for sparing their playing time.

To my family at large (Father: Mpumzi Sinuka, Mother: Phunyezwa Sinuka, Aunt: Mandisa and Nomhlobo Sinuka, Uncle: Lunga and Ayanda Sinuka, sister: Thoboza Sinuka, brother: Esethu Sinuka and cousins: Nomkhita and Nelisa Sinuka) for being such an inspiration to me, and for their unceasing motivation towards my studies.

Lastly, to my friends (Owen Fandasi, Enoch Beja and Mziwamadoda Mdolomba) who always encourage me to explore and expand my capabilities.

TABLE OF CONTENTS

Declaration	ii
Abstract	iii
Acknowledgements	iv
List of Figures	ix
List of Tables	xii
Glossary	xiii

CHAPTER ONE: INTRODUCTION

1.1	Background to the research	1
1.1.1	Jatropha Curcas	1
1.1.2	Jatropha Oil	2
1.1.3	Waste cooking oil	3
1.1.4	Transesterification	4
1.1.4.1	Alkali-catalyzed process using waste cooking oil	4
1.1.4.2	Acid-catalyzed system	5
1.1.4.3	Acid-catalyzed process using waste cooking oil	6
1.2	Problem Statement	7
1.3	Objectives	7
1.4	Report Structure	7
1.4.1	Chapter 2	8
1.4.2	Chapter 3	8
1.4.3	Chapter 4	9
1.4.4	Chapter 5	9
1.5	Next Chapter	9

CHAPTER TWO: LITERATURE SURVEY

2.1	Engine performance test on Jatropha blends	11
2.2	Engine performance test on waste cooking oil blends	18
2.3	Chapter Summary	23

CHAPTER THREE: METHODOLOGY

3.1	Test Facilities	25
3.2	Fuel preparation	28
3.2.1	Density	28
3.3	Bio-fuel produced from waste cooking oil	30
3.3.1	Bio-fuel production steps	31
3.4	Experimental set-ups	33
3.4.1	Power Curve at 15°BTDC injection timing	34
3.4.2	Power Curve at 20°BTDC injection timing	35
3.5	Methodology Summary	35

CHAPTER FOUR: RESULTS AND DISCUSSIONS

4.1	Power output	36
-----	--------------	----

4.1.1	Comparison of 100% Bio-fuel with base diesel at 2600rpm	38
4.1.2	Comparison of 50% blends of Biofuel with base diesel at 2600rpm	39
4.1.3	Comparison of 30% blends of Biofuel with base diesel at 2600rpm	39
4.1.4	Comparison of 10% blends of Biofuel with base diesel at 2600rpm	40
4.2	Torque	42
4.2.1	Comparison of 100% Biofuel with base diesel at 1600rpm	44
4.2.2	Comparison of 50% blends of Biofuel with base diesel at 1600rpm	44
4.2.3	Comparison of 30% blends of Biofuel with base diesel at 1600rpm	45
4.2.4	Comparison 10% blends of Biofuel with base diesel at 1600rpm	46
4.3	Exhaust Temperature	47
4.3.1	Comparison of 100% Biofuel with base diesel at 2000rpm	48
4.3.2	Comparison of 50%, 30% and 10% blends of Biofuel with base diesel at 2000rpm	49
4.4	Fuel Consumption	50
4.4.1	Comparison of 100% Biofuel with base diesel at 2600rpm	52
4.4.2	Comparison of 50% blends of Biofuel with base diesel at 2600rpm	52
4.4.3	Comparison of 30% blends of Biofuel with base diesel at 2600rpm	53
4.4.4	Comparison of 10% blends of Biofuel with base diesel at 2600rpm	53
4.5	4.5 Smoke Opacity Number (Filter Smoke Number - FSN)	55
4.6	Chapter Summary	59

CHAPTER FIVE: CONCLUSIONS AND RECOMMENDATIONS

5.1	Conclusions	61
5.1.1	Power	61
5.1.2	Torque	61
5.1.3	Exhaust Temperature	62
5.1.4	Fuel Consumption	62
5.1.8	Smoke Opacity Number	62
5.1.9	Summary	63
5.2	Recommendations	63

REFERENCES	64
------------	----

BIBLIOGRAPHY	66
--------------	----

APPENDICES	68
------------	----

Appendix A: Biofuel Blends Testing – Base Diesel Results	69
--	----

Appendix B: Biofuel Blends Testing – BF10 Blend	70
---	----

Appendix C: Biofuel Blends Testing – BF30 Blend	71
---	----

Appendix D: Biofuel Blends Testing – BF50 Blend	72
---	----

Appendix E: Biofuel Blends Testing – BF100 Blend	73
--	----

Appendix F: Biofuel Blends Testing – Power Output	74
---	----

Appendix G: Biofuel Blends Testing – Torque	75
---	----

Appendix H: Biofuel Blends Testing – Exhaust Temperature	76
--	----

Appendix I: Biofuel Blends Testing – Inlet Manifold Temperature	77
Appendix J: Biofuel Blends Testing – Post Compressor Pressure	78
Appendix K: Biofuel Blends Testing – Specific Fuel Consumption	79
Appendix L: Biofuel Blends Testing – Fuel Flow	80
Appendix M: Biofuel Blends Testing – Smoke Number	81
Appendix N: Raw Data - Base Diesel at 15°BTDC	82
Appendix O: Raw Data – BF50 Blend at 15°BTDC	93
Appendix P: Raw Data – BF100 Blend at 15°BTDC	104
Appendix Q: Raw Data – BF50 Blend at 20°BTDC	115
Appendix R: Raw Data – BF100 Blend at 20°BTDC	130
Appendix S: Biodiesel Blends Testing – Base Diesel Results	142
Appendix T: Biodiesel Blends Testing – BDW10 Blend	143
Appendix U: Biodiesel Blends Testing – BDW30 Blend	144
Appendix V: Biodiesel Blends Testing – BDW50 Blend	145
Appendix W: Biodiesel Blends Testing – Power Output	146
Appendix X: Biodiesel Blends Testing – Torque	147
Appendix Y: Biodiesel Blends Testing – Exhaust Temperature	148
Appendix Z: Biodiesel Blends Testing – Inlet Manifold Temperature	149
Appendix AA: Biodiesel Blends Testing – Post Compressor Pressure	150
Appendix AB: Biodiesel Blends Testing – Specific Fuel Consumption	151
Appendix AC: Biodiesel Blends Testing – Fuel Flow	152
Appendix AD: Biodiesel Blends Testing – Smoke Number	153
Appendix AE: Raw Data – BDW30 Blend at 15°BTDC	154
Appendix AF: Raw Data – BDW50 Blend at 15°BTDC	169
Appendix AG: Raw Data – BDW30 Blend at 20°BTDC	199
Appendix AH: Raw Data – BDW50 Blend at 20°BTDC	214
Appendix AI: Biodiesel Blends Testing – Base Diesel Results	228

Appendix AJ: Biodiesel Blends Testing – BDJ10 Blend	229
Appendix AK: Biodiesel Blends Testing – BDJ30 Blend	230
Appendix AL: Biodiesel Blends Testing – BDJ50 Blend	231
Appendix AM: Biodiesel Blends Testing – Power Output	232
Appendix AN: Biodiesel Blends Testing – Torque	233
Appendix AO: Biodiesel Blends Testing – Exhaust Temperature	234
Appendix AP: Biodiesel Blends Testing – Inlet Manifold Temperature	235
Appendix AQ: Biodiesel Blends Testing – Post Compressor Pressure	236
Appendix AR: Biodiesel Blends Testing – Specific Fuel Consumption	237
Appendix AS: Biodiesel Blends Testing – Fuel Flow	238
Appendix AT: Biodiesel Blends Testing – Smoke Number	239
Appendix AU: Raw Data – BDJ10 Blend at 15°BTDC	240
Appendix AV: Raw Data – BDJ50 Blend at 15°BTDC	255
Appendix AW: Raw Data – BDJ10 Blend at 20°BTDC	276
Appendix AX: Raw Data – BDJ50 Blend at 20°BTDC	292

LIST OF FIGURES

Figure 1.1: <i>Jatropha curcas</i> plant on rocky substrate.	2
Figure 1.2: A schematic representation of the transesterification of triglycerides (vegetable oil) with methanol to produce fatty acid methyl esters (biodiesel).	4
Figure 1.3: Alkali-catalyzed process for pretreatment of waste oils to alkali-catalyzed production of biodiesel.	5
Figure 1.4: Acid-catalyzed process to produce biodiesel from waste oils.	6
Figure 2.1: Variation of brake thermal efficiency.	12
Figure 2.2: Variation of exhaust gas temperature.	12
Figure 2.3: Variation of smoke number.	13
Figure 2.4: Effect of (i) temperature and (ii) blending with mineral diesel on viscosity of <i>Jatropha</i> oil.	14
Figure 2.5: Effect of fuel injection pressure on engine performance parameters of diesel fuelled CI engine.	15
Figure 2.6: Effect of fuel injection pressure on engine performance parameters of preheated <i>Jatropha</i> oil fuelled CI engine.	16
Figure 2.7: Engine performance and emission parameters for <i>Jatropha</i> oil blends vis-à-vis mineral diesel.	17
Figure 2.8: Relationship between engine speed and engine power for different fuel blends.	19
Figure 2.9: Relationship between engine speed and torque for different fuel blends.	19
Figure 2.10: Effect of fuel blends on SPC at full load and different speeds.	20
Figure 2.11: Diagram torque-engine speed.	21
Figure 2.12: Brake specific fuel consumption.	21
Figure 2.13: Smoke opacity (AVL 415 measurements), in FSN (left) and g/kWh (right).	22
Figure 2.14: Soot reduction with respect to reference fuel.	22
Figure 3.1: ADE 264C Mercedes Benz Turbocharged Engine.	24
Figure 3.2: Operational facility layout.	25
Figure 3.3: 1st room with fuel and fuel pump.	25
Figure 3.4: 2nd room AVL container filled with fuel feed by the fuel pump.	26
Figure 3.5: 2nd room with the engine and dynamometer	27

Figure 3.6: 3rd room with PLC and monitors	27
Figure 3.7: ETA version 4.9 software.	27
Figure 3.8: JO measured	29
Figure 3.9: WCO measured	29
Figure 3.10: 160kg of Methanol	29
Figure 3.11: 35kg of KOH	29
Figure 3.12: Waste cooking oil large particles filtration.	31
Figure 3.13: Brown and clear bottle	31
Figure 3.14: WCO to be warmed up to 55°C	31
Figure 3.15: Mixture of WCO methoxide	31
Figure 3.16: AVL 873 Diesel Injection tester used to change injection timing.	35
Figure 4.1: Engine fuelled with Biofuel at 15°TDBC	36
Figure 4.2: Engine fuelled with Biofuel at 20°TDBC	36
Figure 4.3: Engine fuelled with biodiesel at 15°TDBC	37
Figure 4.4: Engine fuelled with biodiesel at 20°TDBC	37
Figure 4.5: Engine fuelled with JO biodiesel at 15°TDBC	37
Figure 4.6: Engine fuelled with JO biodiesel at 20°TDBC	37
Figure 4.7: Power output of all fuel types at different injection timing parameters	41
Figure 4.8: Engine fuelled with Biofuel at 15°TDBC	42
Figure 4.9: Engine fuelled with Biofuel at 20°TDBC	42
Figure 4.10: Engine fuelled with biodiesel at 15°TDBC	43
Figure 4.11: Engine fuelled with biodiesel at 20°TDBC	43
Figure 4.12: Engine fuelled with JO biodiesel at 15°TDBC	43
Figure 4.13: Engine fuelled with JO biodiesel at 20°TDBC	43
Figure 4.14: Engine torque for all fuel types at different injection timing parameters	46
Figure 4.15: Engine fuelled with Biofuel at 15°TDBC	47
Figure 4.16: Engine fuelled with Biofuel at 20°TDBC	47
Figure 4.17: Engine fuelled with biodiesel at 15°TDBC	47
Figure 4.18: Engine fuelled with biodiesel at 20°TDBC	47

Figure 4.19: Engine fuelled with JO biodiesel at 15°TDBC	48
Figure 4.20: Engine fuelled with JO biodiesel at 20°TDBC	48
Figure 4.21: Engine fuelled with Biofuel at 15°TDBC	50
Figure 4.22: Engine fuelled with Biofuel at 20°TDBC	50
Figure 4.23: Engine fuelled with biodiesel at 15°TDBC	51
Figure 4.24: Engine fuelled with biodiesel at 20°TDBC	51
Figure 4.25: Engine fuelled with JO biodiesel at 15°TDBC	51
Figure 4.26: Engine fuelled with JO biodiesel at 20°TDBC	51
Figure 4.27: Specific fuel consumption for all fuel types at different injection timing parameters	54
Figure 4.28: BDJ10 Power vs SFC at both injection timing	54
Figure 4.29: Engine fuelled with Biofuel at 15°TDBC	55
Figure 4.30: Engine fuelled with Biofuel at 20°TDBC	55
Figure 4.31: Engine fuelled with biodiesel at 15°TDBC	56
Figure 4.32: Engine fuelled with biodiesel at 20°TDBC	56
Figure 4.33: Engine fuelled with JO biodiesel at 15°TDBC	56
Figure 4.34: Engine fuelled with JO biodiesel at 20°TDBC	56
Figure 4.35: Fuel Flow for all fuel types at different injection timing parameters	59

LIST OF TABLES

Table 1.1: Physico-chemical properties of diesel and Jatropha oil.	2
Table 3.1: ADE 264C Engine specification	24
Table 3.2: Jatropha oil density derived.	29
Table 3.3: Waste cooking oil density derived.	29
Table 3.4: Methanol density derived.	29
Table 3.5: KOH density derived.	29
Table 3.6: Base diesel density derived.	30
Table 3.7: The 19 litre fuel requirement per Power curve.	30
Table 3.8: Bio-fuel blends ratio in grams.	32
Table 3.9: Biodiesel blends produced from waste cooking oil ratio in grams.	32
Table 3.10: Biodiesel blends produced from Jatropha oil ratio in grams.	33
Table 4.1: Overall Power Output from all different fuels at both different injection timing	37
Table 4.2: Summary of the Power Output from all different fuels at both different injection timing	41
Table 4.3: Overall Torque Output from all different fuels at both different injection timing	43
Table 4.4: Summary of the Engine torque results from all different fuels at both different injection timing	46
Table 4.5: Overall Exhaust temperature obtained from all different fuels at both different injection timing	48
Table 4.6: Summary of the exhaust temperature results from all different fuels at both different injection timing	49
Table 4.7: Overall Specific fuel consumption obtained from all different fuels at both different injection timing	51
Table 4.8: Overall Smoke Opacity Number obtained from all different fuels at both different injection timing	56

GLOSSARY

Abbreviations	Explanation
AIT	Advanced Injection Timing (20°bTDC)
ANN	Artificial Neural Network
AVL	Anstalt für Verbrennungskraftmaschinen
ASTM	American Society for Testing and Materials
BDJ10	10% JO and 90% base diesel fuel blend
BDJ30	30% JO and 70% base diesel fuel blend
BDJ50	50% JO and 50% base diesel fuel blend
BDW10	10% WCO and 90% base diesel fuel blend
BDW30	30% WCO and 70% base diesel fuel blend
BDW50	50% WCO and 50% base diesel fuel blend
BF10	10% Bio-fuel and 90% base diesel fuel blend
BF30	30% Biofuel and 70% base diesel fuel blend
BF50	50% Biofuel and 50% base diesel fuel blend
BF100	100% Biofuel
BSFC	Brake Specific Fuel Consumption
bTDC	Before top dead centre
B10	10% Waste vegetable oil methyl ester and 90% base diesel blend
B50	50% Waste vegetable oil methyl ester and 50% base diesel blend
CI Engine	Compression Ignition Engine
DI Engine	Direct Injection
FAME	Fatty Acid Methyl Esters
FSN	Filter Smoke Number
HC	Unburned Hydrocarbon
IOP	Injection opening pressure
JO	Jatropha Oil

J20	20% JO and 80% base diesel fuel blend
KOH	Potassium Hydroxide
NOx	Oxides of Nitrogen
PM	Particulate matter
SIT	Standard Injection Timing (15°bTDC)
WCO	Waste Cooking Oil

Symbols and Units

Definition

kg/m ³	kilogram per meter cubed
cSt	centipoise
°	degrees
°C	degrees Celsius
kJ/kg	kilojoules per kilogram
%, w/w	mass fraction
ppm	parts per million
%	percent
rpm	revolutions per minute
Nm	Newton meter
kW	kilowatt
mm	millimetre
ml	millilitre
MPa	Mega Pascal
g	gram
l	litre
g/l	gram per litre
kg/l	kilogram per litre
P	power
π	pi
N	engine speed
T	torque
ρ	density
m	mass
V	volume

CHAPTER ONE INTRODUCTION

1.1 Background to the research

Due to the rapid depletion of world petroleum reserves, as well as the impact of environmental pollution caused by increasing exhaust emissions, there is an urgent need for suitable alternative fuels for use in diesel engines. In view of this, there is a need to explore different options. One of the options is to use vegetable oil as a bio-fuel, a promising alternative because it has several advantages. It is renewable, environmentally friendly, and produced easily in rural areas, where there is no acute need for modern forms of energy (Pramanik, 2003:240).

Hence biofuel and biodiesel are seen as alternatives to diesel in powering diesel engines.

This study looks at the performance testing of a diesel engine running on varying blends of *Jatropha* oil, waste cooking oil and fossil diesel fuel. It investigate the effects of the advanced injection timing has in improving engine performance eg. Power output, Torque, Exhaust temperature, Fuel consumption and smoke number.

1.1.1 *Jatropha curcas*

Jatropha curcas is a large shrub or tree native to the American tropics, but commonly found and utilized as a source of energy throughout most of the tropical and sub-tropical regions of the world. Several properties of the plant, including its hardness, rapid growth, easy propagation and wide ranging usefulness have resulted in its spread far beyond its original distribution (Pramanik, 2003:240). The *Jatropha curcas* plant can thrive under adverse conditions. It is a drought-resistant, perennial plant, living up to fifty years and is able to grow in poor soil conditions. It requires very little irrigation and grows in all types of soils (from coastline to hill slopes). Figure 1 shows a typical *Jatropha* plant growing on rocks in mountainous regions. The production of *Jatropha* seed is about 0.8 kg per square meter per year (Agarwal and Agarwal, 2007:2315). Therefore planting the *Jatropha curcas* in large scale in South Africa is a potential avenue that can be explored, as it is known that South Africa is a water scares country.



Figure 1.1: *Jatropha curcas* plant on rocky substrate (Agarwal and Agarwal, 2007:2316)

The plant itself is believed to prevent and to control soil erosion or can be used as a living fence or to reclaim wasteland. Furthermore, it is reported that *Jatropha* plants have few pests and diseases, but this may change when it is grown in commercial plantations with regular irrigation and fertilization (Achten, Verchot, Franken, Mathijis, Singh, Aerts and Muys, 2008:1064). In short, the plant grows fast, and it can be grown in areas that may not be suitable for other types of agriculture. Growing it has advantages such as combatting soil erosion. Seen from a holistic point of view, these qualities may increase its suitability as a source of bio-fuel.

1.1.2 *Jatropha* Oil

The *Jatropha curcas* plant oil contains more than 75% unsaturated fatty acid, which is reflected in the pour and cloud point of the oil (Achten *et al.*, 2008:1071). Key properties of *Jatropha* oil and diesel are summarized in Table 1.

Table 1: Physico-chemical properties of diesel and *Jatropha* oil (Chauhan *et al.*, 2010:2485)

Property	Diesel oil	<i>Jatropha</i> oil
Density (kg/m ³)	830	918
API gravity	37.15	22.81
Kinematic viscosity at 40°C (cSt)	2.5	37
Cloud point (°C)	-12	9
Pour point (°C)	-17	4
Flash point (°C)	70	238
Calorific value (kJ/kg)	42,200	37,500
Carbon residue (% w/w)	0.05	0.8
Ash content (% w/w)	0.01	0.04
Carbon (% w/w)	86.71	77.21
Hydrogen (% w/w)	12.98	10.25
Nitrogen (ppm)	5	3

Oxygen (% w/w)	0.31	12.52
Sulfur (ppm)	340	8

1.1.3 Waste cooking oil

Lin and Lin (2010:1900) suggested that waste cooking oil can be directly used in neat form in unmodified diesel engines or be mixed with petroleum diesel fuel. In this study, however, only blends of waste cooking oil and Jatropha oil mixed with fossil fuel will be used to prevent engine failures. Biodiesel differs from fossil diesel mostly in its chemical composition, which contains about 10% oxygen, and no sulphur, aromatic hydrocarbons, metals, or crude oil residue. Its fuel characteristics could improve burning efficiency and decrease exhaust emissions. Furthermore, the use of waste cooking oil to produce biodiesel could prevent pollution to rivers, lakes, seas, reduce the air pollution caused by fossil fuels such as CO₂ emissions, and lessen the high dependence on fossil fuels (Lin and Lin, 2010:1900).

Lapuerta, Rodriguez-Fernandez, and Agudelo (2008:731-732) found that the price of the feedstock oil is one of the most significant factors affecting the economic viability of biodiesel manufacturing. They suggest that using waste cooking oil as the raw material in the transesterification process might be desirable because it is cheaper than unused vegetable oil. Comparisons between several processes that use both virgin vegetable oils and waste cooking oils, show that the acid-catalyzed process using waste cooking oil is more economically feasible because its lower raw material cost is enough to compensate for the higher initial investment. Such investments would include larger sizes and stainless steel construction of the reactors and methanol distillation column. They furthermore stated that used oil is currently poured into the sewer system of the cities and this may cause the clogging of pipes because they stick to the inner walls and reduce the effective diameter of the sewer pipes. If the layer becomes thicker, this may cause sewage spills (Lapuerta, Rodriguez-Fernandez, and Agudelo, 2008: 731-732).

Zhang, Dube, McLean, Kates (2003:1) mention that the most common way to produce biodiesel is by transesterification, which refers to catalyzed chemical reaction involving vegetable oil and an alcohol to yield fatty acid alkyl esters (i.e. biodiesel, glycerol).

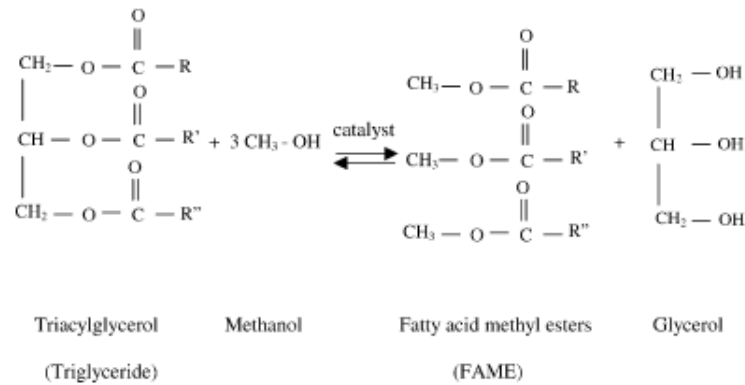


Figure 1.2: A schematic representation of the transesterification of triglycerides (vegetable oil) with methanol to produce fatty acid methyl esters (biodiesel). (Zhang *et al.*, 2003:2)

Triacylglycerols (triglycerides), as the main component of vegetable oil, consist of three long chain fatty acids esterified to a glycerol backbone. When triacylglycerols react with alcohol (e.g., methanol), the three fatty acid chains are released from the glycerol skeleton and combine with the alcohol to yield fatty acid alkyl esters (e.g. fatty acid methyl acid methyl esters or FAME). Glycerol is produced as a by-product. Methanol is the most commonly used alcohol in this process because of its low cost (Zhang *et al.*, 2003:1).

1.1.4 Transesterification

Transesterification reactions can be alkali-catalyzed, acid-catalyzed or enzyme-catalyzed. The first two types have received the greatest attention since the enzyme-catalyzed system requires a much longer reaction time than the other two systems (Zhang *et al.*, 2003:2).

1.1.4.1 Alkali-catalyzed process using waste cooking oil

To lower the cost of biodiesel, a continuous alkali-catalyzed process from the waste cooking oil was developed. In comparison to the virgin oil process, a pre-treatment unit, including esterification of the free fatty acids, glycerine, washing and methanol

recovery, was added. The pre-treatment is shown in Figure 3 while the remainder of the process is identical to that shown in Figure 4 (Zhang *et al.*, 2003:11).

The cost associated with the pre-treatment unit, including the cost for extra solvent, more than balanced the credit of using waste oil.

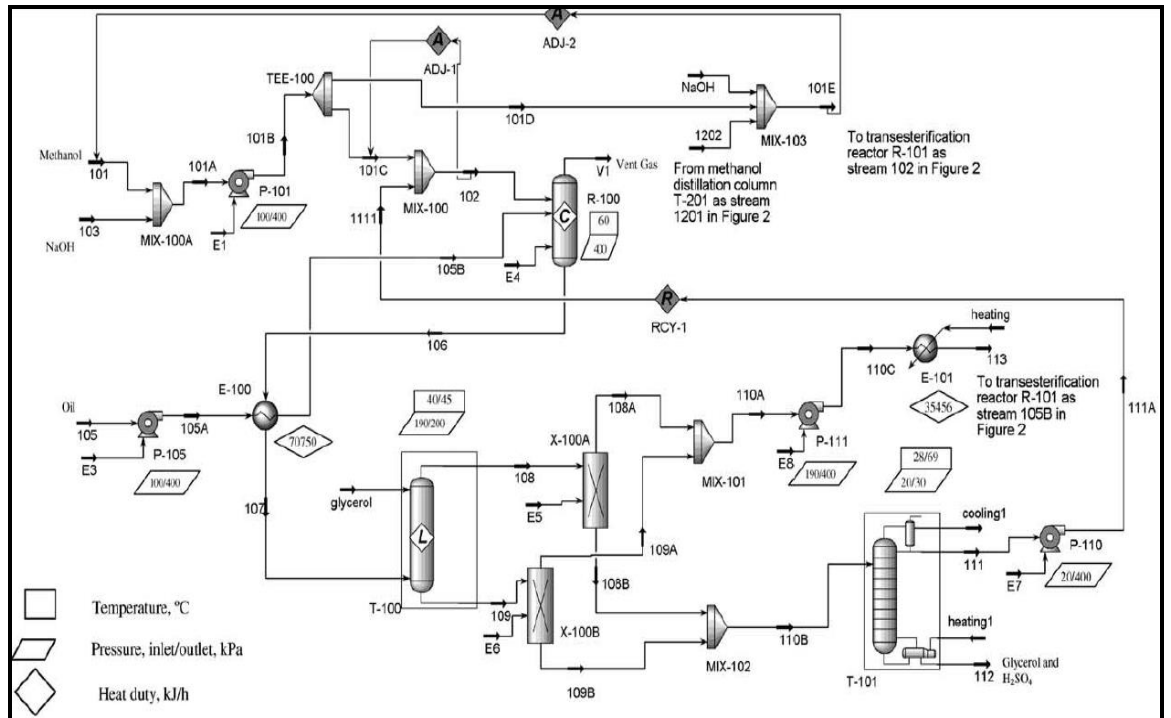


Figure 1.3: Acid-catalyzed process for pre-treatment of waste oils to alkali-catalyzed production of biodiesel. (Zhang *et al.*, 2003:7).

1.1.4.2 Acid-catalyzed system

Despite its insensitivity to free fatty acids in the feedstock, acid-catalyzed transesterification has been largely ignored mainly because of its relatively slower reaction rate. The transesterification of soybean oil with methanol using 1 wt.% concentrated sulphuric acid (based on oil). They discovered that at 65°C and a molar ratio of 30:1 methanol to oil, it took 65 hours to obtain more than 90% oil conversion to methyl esters. The effects of the molar ratio of alcohol to soybean oil, the reaction temperature, the amount of catalyst, and the reaction time on the ester conversion by acid-catalyzed transesterification. They discovered an increase in molar ratios of alcohol to oil, increased reaction temperatures, increased concentrations of sulphuric acid, and longer reaction times (Zhang *et al.*, 2003:3).

1.1.4.3 Acid-catalyzed process using waste cooking oil

Figure 4 concentrates on the differences from the previous (Alkali-catalyzed using virgin oil and waste cooking oil).

The acid-catalyzed process to produce biodiesel from waste cooking oil had lower manufacturing costs than the alkali-catalyzed processes, so that overall the acid-catalyzed process would cost less to perform. Glycerine was a valuable by-product, which could add an appreciable credit to reduce the total manufacturing cost by approximately 10% for a plant with 800 ton/year biodiesel capacity (Zhang *et al.*, 2003:15).

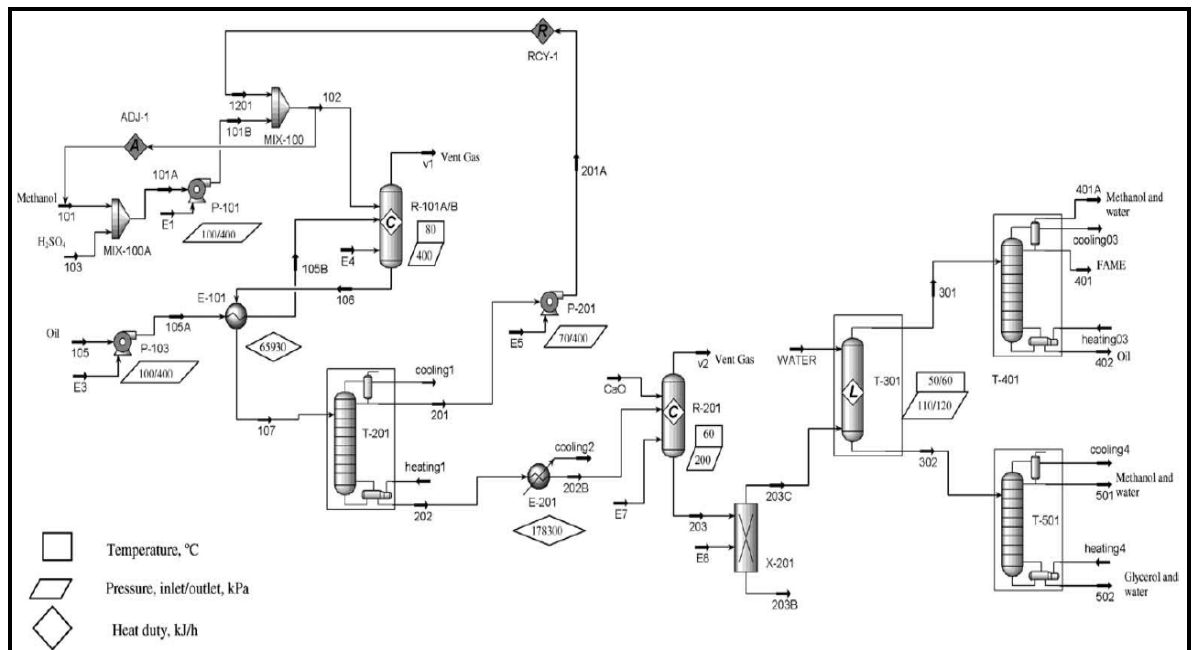


Figure 1.4: Acid-catalyzed process to produce biodiesel from waste oils- (Zhang *et al.*, 2003:8)

The literature mentioned above provides an overview of the vegetables oils that will be used for current investigation. It is seen that the vegetable oil has some drawbacks compared to diesel fuel including; high viscosity, and low calorific value. Thus, the Alkali-catalyzed transesterification process will be employed to address the viscosity levels and certain engine parameters will need consideration in order to compensate for the lower calorific value.

1.2 Problem Statement

There is an urgent need for the development of suitable alternative fuels for use in diesel engines. This is due to the rapid depletion of world petroleum reserves, as well as the increase in exhaust emissions which leads to environmental pollution. Using vegetable oil as an alternative fuel could be promising because it is renewable and environmentally friendly. Vegetable oil is also produced easily in rural areas where there is no acute for modern forms of energy (Pramanik, 2003:240).

Although bio-diesel has many advantages over diesel fuel, there are several problems that need to be addressed such as its lower caloric value, higher flash point, higher viscosity, poor cold flow properties, poor oxidative stability and sometimes its comparatively higher emission of nitrogen oxides (Jindal, Nandwana, Rathore and Vashistha, 2010:442).

It is also important to note that diesel engines are amongst the most efficient economic drivers. From the point of view of protecting the global environment and concerns for long-term energy security, it becomes necessary to develop alternative fuels with properties comparable to petroleum based fuels (Agarwal and Agarwal, 2007:2314).

The purpose of this study is to test the performance and to determine the parameters that influence power output in a diesel engine when fuelled with different blends of biofuel in comparison to that of a fossil fuel. This is done since it has been mentioned that vegetable oils have inferior caloric value to that of fossil diesel, resulting in vegetable oils producing inferior power output compared to that of an engine fuelled with base diesel. The smoke opacity number will also be determined so as to give an indication of relative emissions. In all the tests, the influence of injection timing is assessed in relation to the performance parameters being examined.

1.3 Objectives

Firstly, ten different biodiesel and biofuel blends will be prepared in a laboratory environment purely for the purpose of this research (discussed in detail in Chapter 3).

It should be noted that these fuel blends will not be available for commercial purposes.

The main objective of the current study is to determine the performance of a laboratory-mounted diesel engine when fuelled with varying laboratory prepared bio-fuel blends and to establish whether the advancement of the injection timing parameters will improve the engine power and smoke number.

The following will be determined for all the fuels mentioned above at different injection parameters:

- (a) Power output
- (b) Torque
- (c) Exhaust temperature
- (d) Fuel Consumption
- (e) Smoke number

The above data are then captured from operating diesel engine fuelled with different biofuel blends and compared with the results to those of diesel fuel, indicating the differences (if applicable) in all the elements as mentioned above.

Lastly, the current study will conduct an intensive analysis based on the data acquired from the laboratory in comparison to the literature mentioned in Chapter two.

1.4 Report Structure

1.4.1 Chapter two

This chapter presents a literature survey on the actual application of diesel engine fuelled with Jatropha oil and waste cooking oil. This literature will then be compared to the outcomes that will be obtained from the current study.

1.4.2 Chapter three

Chapter three presents the activities that took place before and during the laboratory tests. It provides details of the testing facilities and equipment and illustrates

sequentially how the fuels were prepared. It furthermore describes how the power curve tests were carried out.

1.4.3 Chapter four

The results from the engine fuelled with different fuel blends will be illustrated in this chapter. Comparison between different blends at different injection timing will be presented. This comparison will give evidence on which fuel blend produces desirable outcomes.

1.4.4 Chapter five

This chapter concludes on the engine performance and the overall outcomes, successes and drawbacks of the project. Recommendations emanating from the study are made.

1.5 Next chapter

The following chapter will demonstrate that the use of the Jatropha oil and waste cooking oil as fuel on the diesel engine has been studied extensively by different scholars and researchers throughout the world. The literature does show that bio-fuel can be used as an alternative source of fuel. For example, Reddy and Ramesh (2006: 1998-2001) conducted a study using Jatropha blends as a source of fuel and discovered that the advancement of the injection timing does improve the brake thermal efficiency and smoke level decreases as the injection timing increases, but there are no significant changes in the exhaust temperature. Also, a study using waste cooking oil as fuel was conducted by Ghobadian, Rahimi, Nikbakht, Najafi, and Yusaf (2009:4-8), where they discovered that the fuel consumption at full load condition and low speed is high, since the power produced at low speeds is low and the main part of the fuel is consumed to overcome the engine friction. Lapuerta and Agudelo (2008:733-736) mention that a significant reduction in smoke opacity was achieved with biodiesel and biodiesel blends as well as soot reduction when using

biodiesel, and is explained by an increase in oxygen content in the fuel which contributes to complete fuel oxidation even in locally rich zones.

CHAPTER TWO LITERATURE SURVEY

The literature shows that there have been some experimental investigations conducted in determining the employment of Jatropha oil and waste cooking oil as a source of fuel in a diesel engine.

2.1 Engine performance test on Jatropha blends

Experimental studies conducted by Reddy and Ramesh (2006:1998-2001) on the influence of injection system parameters and in-cylinder swirl level on performance, emissions and combustion characteristics of a neat Jatropha oil-fuelled CI engine are described below.

According to Reddy and Ramesh (2006:1998-2001), a 30.5°bTDC rated static injection timing was found to be best when using the diesel fossil fuel as it yielded desirable results on brake thermal efficiency. During the diesel fuel performance testing Reddy and Ramesh used the manufacturer specification of 205 bar on injector opening pressure (IOP) and the fuel injection pump that had a plunger of 8mm. But during the Jatropha oil performance testing, there were no changes made on the IOP, same 205 bar was used, however different static injection timing of 30.5°bTDC, 32°bTDC, 33.5°bTDC and 34.5°bTDC was employed to optimise the Jatropha oil performance.

Figure 2.1 shows that the brake thermal efficiency increases when the injection timing is advanced. This advancement of the injection timing enhances the Jatropha oil slow burning effect. And the reason for the slow burning effect is due to high viscosity level which leads to poor spray and the air mixture. They furthermore establish that, 33.5°bTDC is the optimal injection timing because when the engine achieved its maximum brake thermal efficiency, which increased from 25.7% to 27.3%.

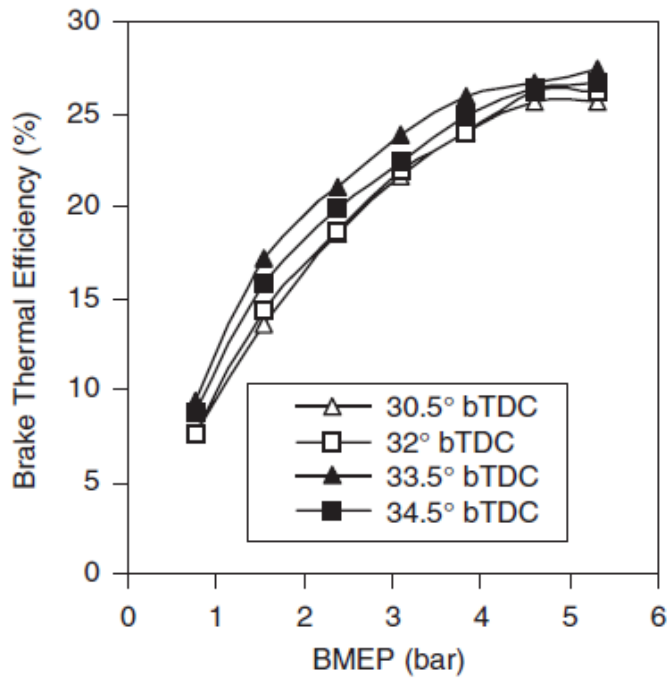


Figure 2.1. Variation of brake thermal efficiency (Narayana and Ramesh, 2006:1999)

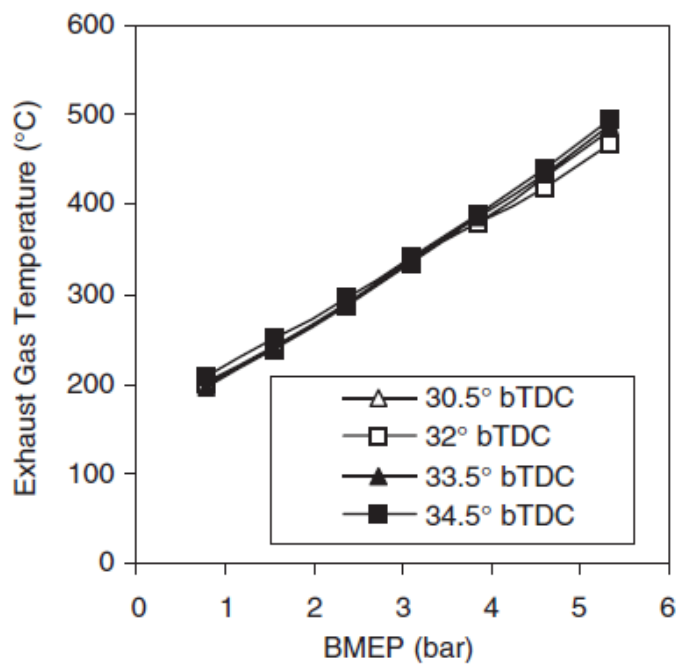


Figure 2.2. Variation of exhaust gas temperature (Narayana and Ramesh, 2006:2000)

Figure 2.2 shows that the advancement of the injection timing does not effect remarkable changes on the exhaust temperature. Instead a decrease in smoke levels as the injection timing advanced is seen in Figure 2.3.

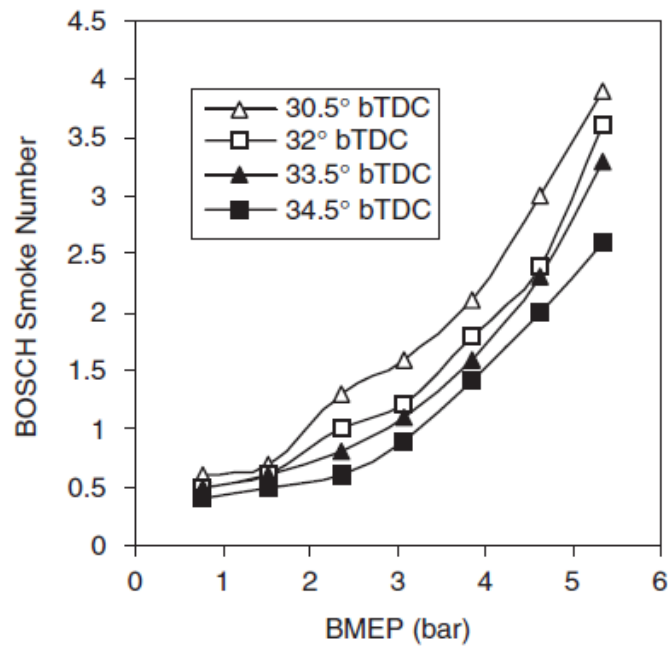


Figure 2.3. Variation of smoke number (Narayana and Ramesh, 2006:2001)

According to Reddy and Ramesh (2006:1998-2001) the advancement of the injection timing does improve the brake thermal efficiency and the smoke level decreases as the injection timing increases. This gives a clear guide on what the expected results of the current study should be, although the current study will be conducted on different bio-fuel blends. It will be interesting to know whether the improvement in power outputs and smoke reduction will be observed in all the fuel blends.

Agarwal and Agarwal (2007:2316-2321) also conducted a study on performance and emissions characteristics of Jatropha oil (preheated and blends) in a direct injection compression ignition engine. They first reduced the viscosity by preheating and blending the vegetable oil with the fossil diesel.

The viscosity of Jatropha oil decreases remarkably with increasing temperature and it comes close to that of diesel at a temperature above 90°C (within ASTM limits), as shown in Figure 2.4. The fossil diesel viscosity was 2.44 cSt at 40°C, and that of the preheated Jatropha oil was below 6 cSt at temperatures above 100°C. The viscosity on various blends of Jatropha oil and diesel was determined at 40°C and the results of the 30:70 and 20:80 blends were found to be 5.35 and 4.19 cSt @ 40°C respectively. The results obtained for the blends were slightly higher than that of the diesel fuel although they were still within ASTM limits.

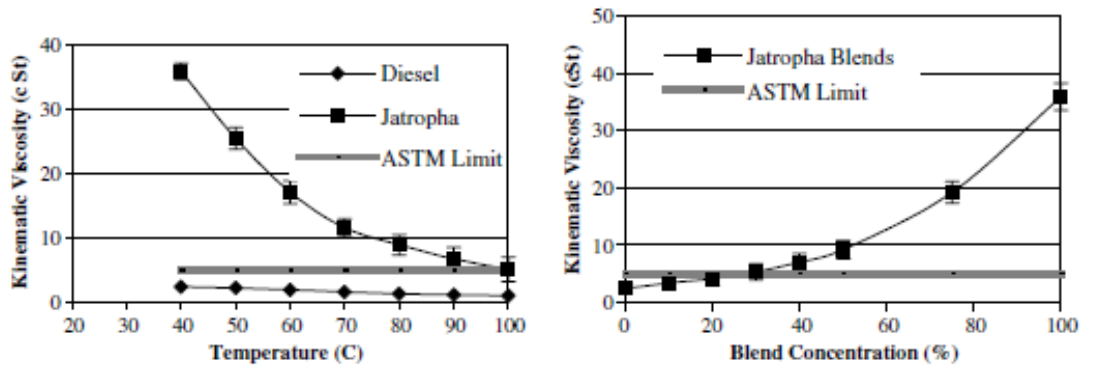


Figure 2.4: Effect of (i) temperature and (ii) blending with mineral diesel, on viscosity of Jatropha oil (Agarwal and Agarwal, 2007:2318)

Optimum fuel injection pressure is that nozzle opening pressure at which the engine delivers maximum thermal efficiency, and minimum BSFC. The engine runs at different injection pressure (180, 200, 220, and 240 bars).

Figure 2.5 shows that the engine operate at optimum between 180 bars to 200 bars injection pressure. The BSFC is found to decrease at this range of the injection pressure. Also the thermal efficiency and smoke opacity yield desirable results between 180 to 200 bars injection pressure. However, a further increase in injection pressure from 200 bars to 240 bars shows a reduction in thermal efficiency and an increment in smoke opacity.

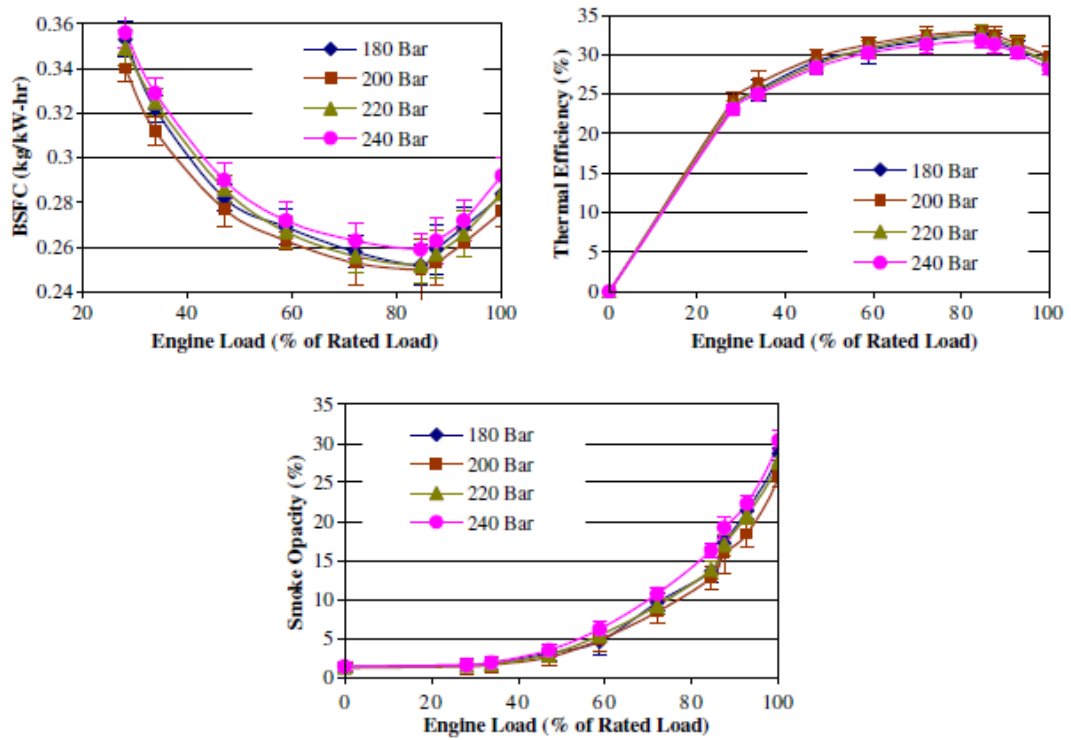


Figure 2.5: Effect of fuel injection pressure on engine performance parameters of diesel fuelled CI engine (Agarwal and Agarwal, 2007:2318)

The Jatropha oil was pre-heated at 100°C, and measurements of the thermal efficiency, BSFC and smoke opacity number were recorded as well. Figure 2.6 shows that at higher load the BSFC increases. Also, a unique trend was seen when the injection pressure increase the thermal efficiency decrease and only increased when the injection pressure was increases from 200 bar. The injection pressure of 200 bar was found to be optimum for the pre-heated Jatropha oil because all the elements tested to mention; smoke opacity, BSFC and thermal efficiency obtained the desirable results at this injection pressure.

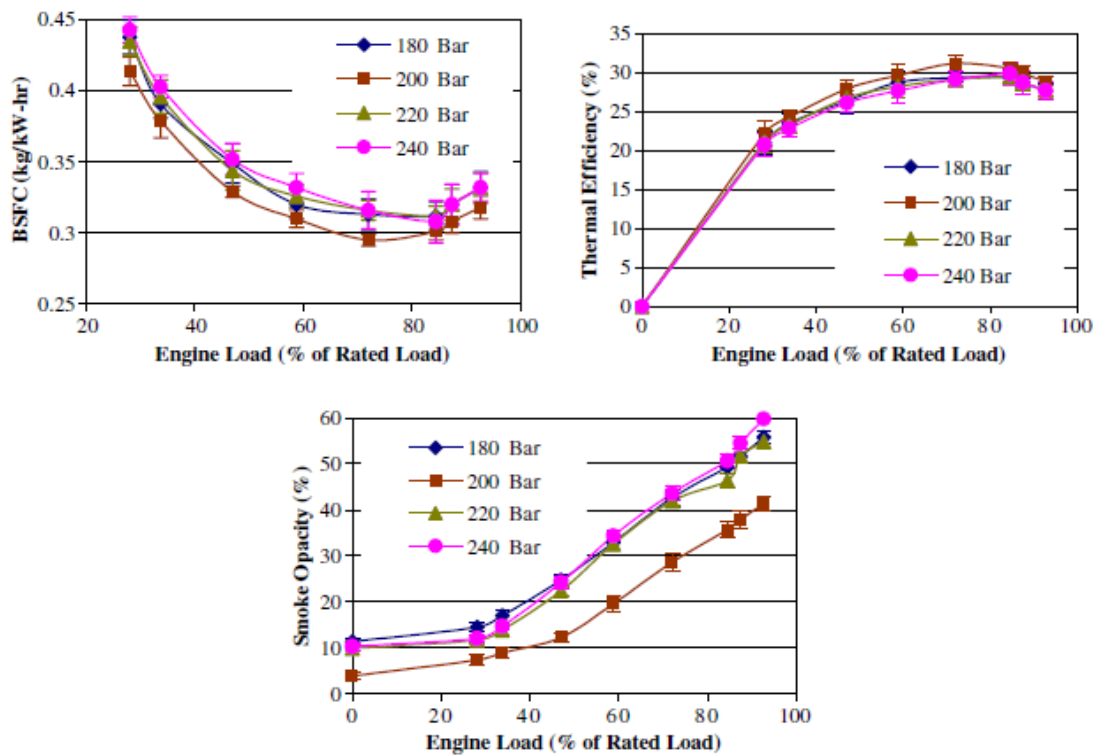


Figure 2.6: Effect of fuel injection pressure on engine performance parameters of preheated Jatropha oil fuelled CI engine (Agarwal and Agarwal, 2007:2319)

Lastly, in their investigation, the experiments were also conducted using various blends of Jatropha oil with diesel and the results showed an increase in the BSFC and this is due to the higher proportions of Jatropha oil in the blend (Figure 11). Noticeable lower results on thermal efficiency of Jatropha blends was obtained compared to the diesel, except for the blends up to J20 which were very close to diesel. This improvement is due to the oxygen presence in the fuel molecules which then enhance combustion characteristics.

At higher engine loads, the exhaust gas temperatures and smoke opacity of the blends with the higher Jatropha oil concentration were found to be of higher value with the compared to that of diesel. Figure 2.7 shows CO₂ and hydro-carbons (HC) results that were at the lowest value, close to those of the diesel fuel at lower blend concentration and at higher blend concentration an opposite was observed. Furthermore, at higher load an increase of the CO due to lack of oxygen.

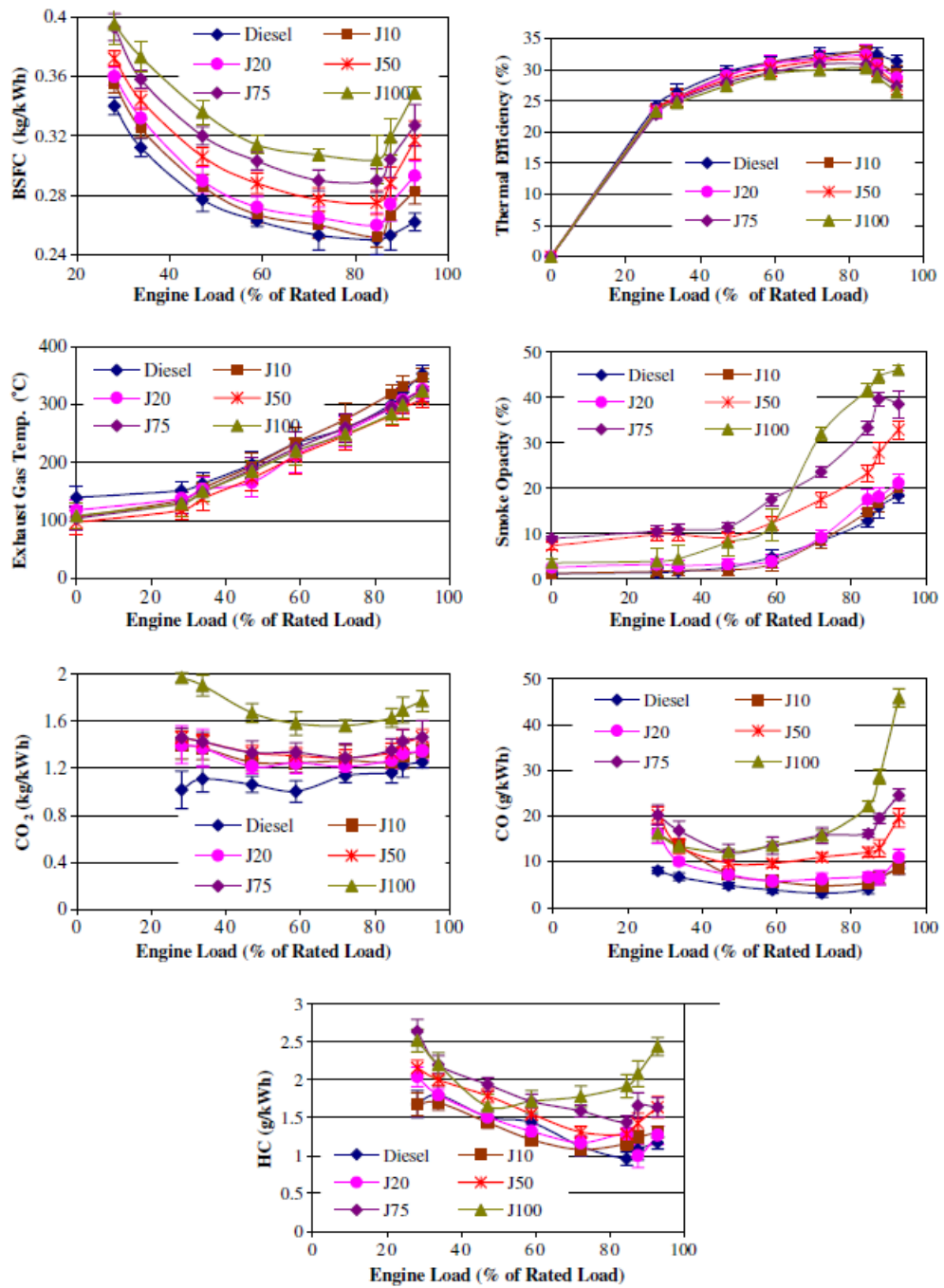


Figure 2.7: Engine performance and emission parameters for Jatropha oil blends versus mineral diesel (Agarwal and Agarwal, 2007:2321)

The outcomes in Agarwal and Agarwal's (2007:2316-2321) investigation show that even the advancement of the injection pressure between 180 and 200 bar does improve the thermal efficiency. The smoke opacity decreases when the engine is fuelled with preheated Jatropha oil. However, different results were obtained when the engine was fuelled with Jatropha blends. A lower thermal efficiency compared to that of diesel fuel is observed with an increase in brake specific fuel consumption and HC emissions as the Jatropha oil proportions increase in the blends. Although the

current study will not focus on injection pressure, it would be interesting to determine the smoke effect outcomes as it is seen that the more Jatropha oil content increases on the fuel blend, the higher the smoke opacity values.

2.2 Engine performance test on waste cooking oil blends

Ghobadian et al. (2009:4-8) conducted a study that dealt with artificial neural network (ANN) modelling of a diesel engine using waste cooking biodiesel fuel to predict the following elements; (i) brake power, (ii) torque, (iii) specific fuel consumption and lastly the exhaust emissions.

Ghobadian first explained on how the ANN functions, he stated that the ANN is tool used to resolve multiple of problems in science and engineering. It's focus is more on the areas where the conventional modelling methods fail. The ANN it's a biological neural system which operate at optimum as a predictive model when it is well-trained and this system effectively in a specific application. This predictive effectiveness of the ANN system is as a result of training on experimental data and subsequent validation by independent data, it also has abilities to re-learn and enhance its performance upon the receipt of the new data. The advantage of this system is that it can lean about any system that requires modelling without fore information of the process relationships. Also, it is found that the well-trained ANN is normally much faster than the conventional simulation programs or mathematical models when an appropriate neural network topology is selected.

The tests were conducted using waste vegetable oil methyl ester, blended in 10% to 50% ratios with the diesel fuel and employed as fuel in a operational two cylinder diesel engine.

The engine was operated between 1200 – 3600 rpm and results obtained from the neat diesel fuel and the maximum torque obtained was 64.2 N.m at 2400rpm while the maximum power output was 18.12 kW at 3200rpm. Figure 2.8 and 2.9 shows the performance of the fuel blends and the trends seen of these parameters were similar to those of the fossil diesel fuel.

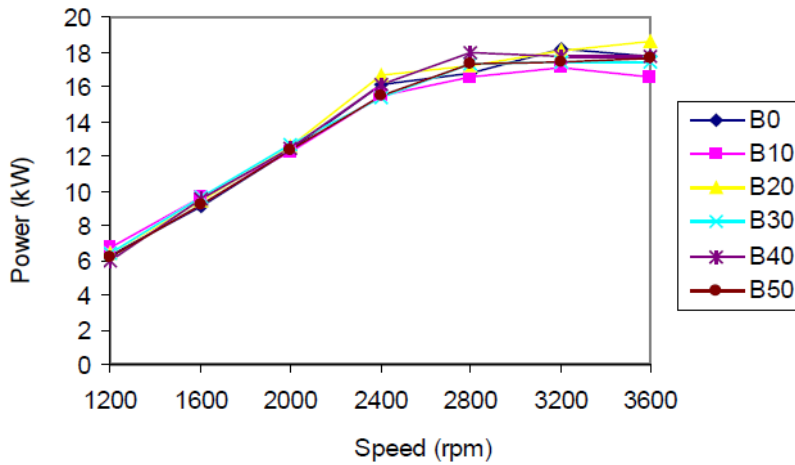


Figure 2.8: Relationship between engine speed and engine power for different fuel blends (Ghobadian et al., 2009:982)

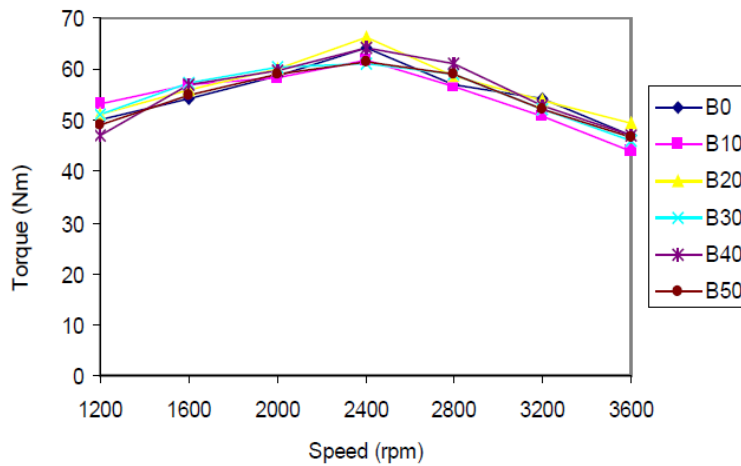


Figure 2.9: Relationship between engine speed and torque for different fuel blends (Ghobadian et al., 2009:982)

Figure 2.10 shows the fuel consumption curves at full load of the neat diesel fuel and the fuel blends. The graph shows lower fuel consumption at low engine speed and but at high engine speed the consumption increases as well, is due to the fact the maximum power out is obtained at high engine speed. Also it is to be noted the fuel consumption at low engine speed (1200rpm) covers the mechanical friction losses.

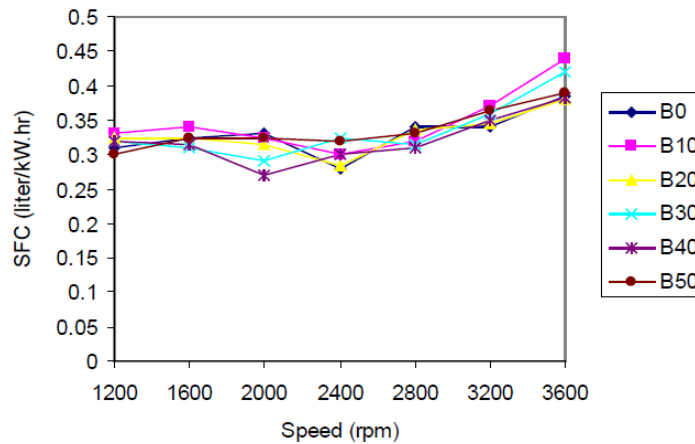


Figure 2.10: Effect of fuel blends on SPC at full load and different speeds (Ghobadian et al., 2009:983)

From the study above, it is indicated that the 50% waste vegetable oil methyl ester and 50% base diesel blend (B50) fuel did not produce less power as anticipated, although the 10% waste vegetable oil methyl ester and 90% base diesel blend (B10) produced less power compared to all other fuels. Therefore, according to Ghobadian et al. (2009:4-8), as waste cooking oil content is increased, more power will be produced. Also, it is noticed that SPC is at a minimum where the torque output is at a maximum of 2400rpm. Though, the B50 shows the highest SPC as compared to that of the other fuels and the B10 shows the highest SPC at maximum power output.

Lapuerta, Rodriguez-Fernandez and Agudelo (2008:733-736) also conducted a study on diesel particulate emissions from used cooking oil biodiesel where two different biodiesel fuels (B1, B2) were delivered by waste oil collector who collected it from different hotels, restaurants and various domestic sector. The thermal stress of the waste cooking oil (B1) collected from the hospital was found to be at lower. Varying blends of 30% and 70% with reference to diesel fuel were employed in a DI diesel commercial engine.

Figure 2.11 shows the in relation torque to the engine speed. Although it is shown in Figure 2.12 that to achieve the same performance concerning the power and torque for all the different fuel blends. The effect is that the brake specific fuel consumption (BSFC) was found to be of a higher value on both the biodiesel and biodiesel blends and this is due to the lower heating value and higher density of the biodiesel.

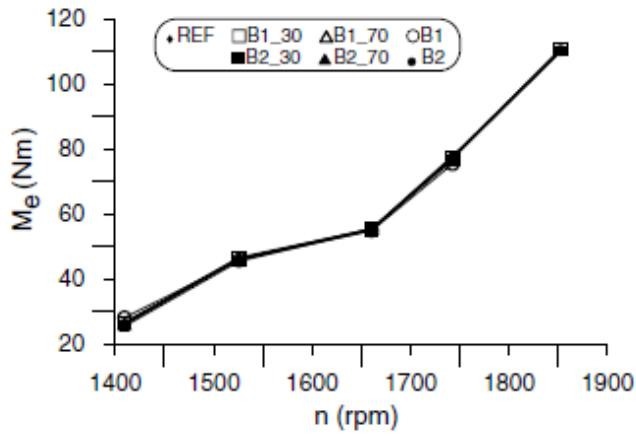


Figure 2.11: Diagram torque-engine speed (Lapuerta, Rodriguez-Fernandez and Agudelo, 2008:735)

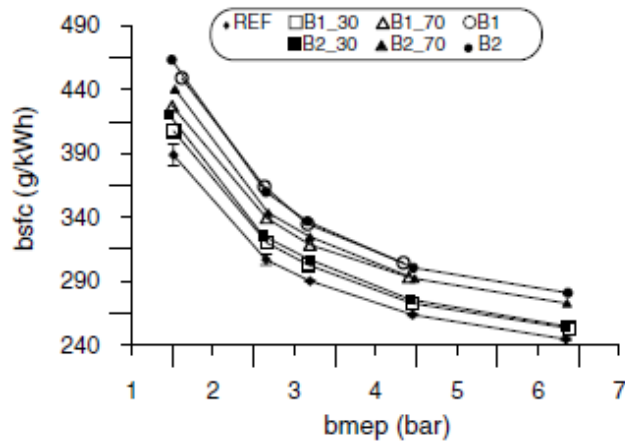


Figure 2.12: Brake specific fuel consumption (Lapuerta, Rodriguez-Fernandez and Agudelo, 2008:735)

Smoke opacity results are shown in Figure 2.13. The biodiesel and biodiesel blends shown a significant improvement in smoke opacity reductions. B1 fuel and its blends results were more important than B2. This remarkable reduction in soot is as a result of three contributing factors, firstly is the complete fuel oxidation due to the intensification in oxygen and secondly is the complete evaporation due to the lower final boiling point, and lastly is the lack of aromatics compounds.

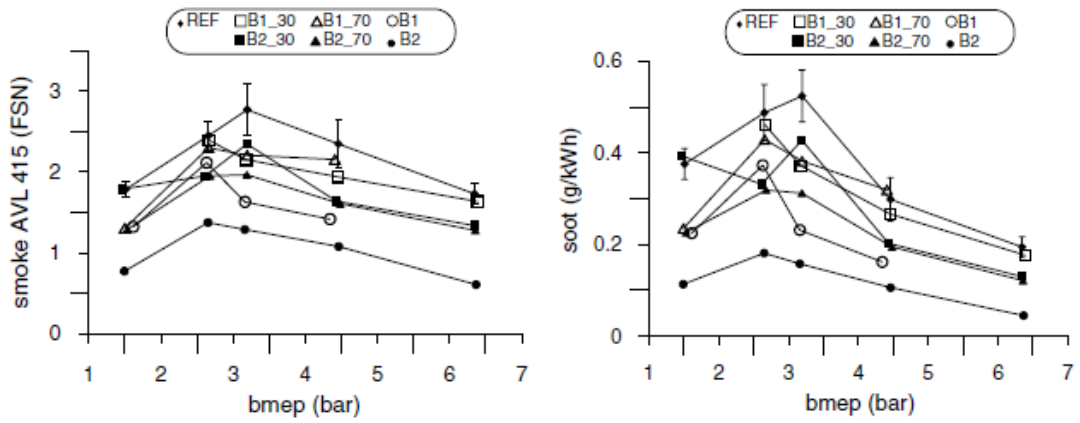


Figure 2.13: Smoke opacity (AVL 415 measurements), in FSN (left) and g/kWh (right) (Lapuerta, Rodriguez-Fernandez and Agudelo, 2008:736)

Lapuerta, Rodriguez-Fernandez and Agudelo (2008:736) stated that the function of the oxygen content in the fuel will determine the smoke opacity reduction as a result these research has obtained a reduction of 60% in soot emission from the fuel used that had 10 – 11% (wt.) of oxygen content. It has been concluded that the biodiesel produced from waste cooking oil is not inferior to the one produced from the virgin oil as far has the soot reduction is concern.

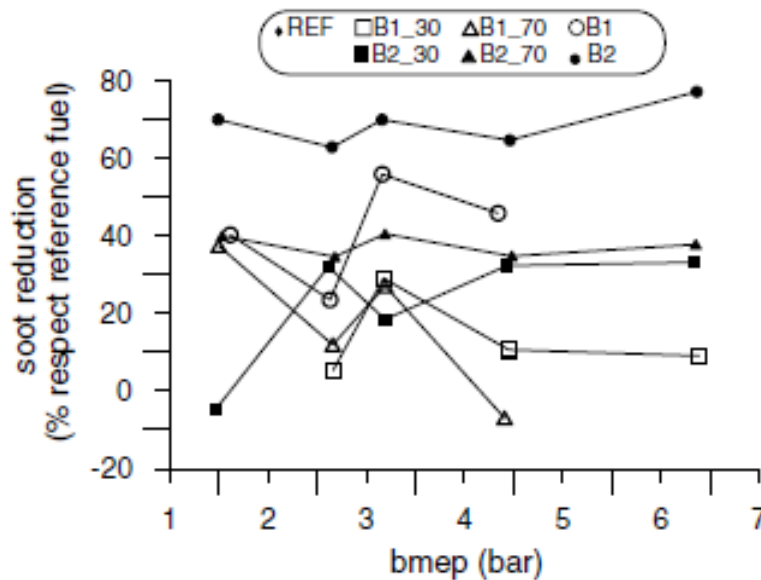


Figure 2.14: Soot reduction with respect to reference fuel (Lapuerta, Rodriguez-Fernandez and Agudelo, 2008:736)

2.3 Summary

The studies referred to in this chapter show that there is strong evidence that Jatropha oil and the waste cooking oil can be used as an alternative fuel in diesel engines, with little or no engine modifications.

The following chapter presents the methodology used in the current investigation and includes sourcing of the chemicals, waste cooking oil and Jatropha oil. Furthermore, it gives insight into the preparatory work in producing the laboratory bio-fuel and different bio-diesel blends, as well as the machinery and equipment used to conduct the experiment.

CHAPTER THREE METHODOLOGY

This chapter presents the experimental investigation which was conducted at Cape Advanced Engineering PTY LTD, at Atlantis. The tests were performed using a Mercedes Benz turbo charged four cylinder engine. See the engine specification listed below (Table 3.1).



Figure 3.1: ADE 264C Mercedes Benz Turbocharged Engine

Table 3.1: ADE 264C Engine specification.

Type	364C
Year	1997
No of cylinders	4
Bore	97.50mm
Stroke	359.05mm
Power output	74 kW
Torque	313.0 Nm
Injection timing	15 BTDC
Injection pressure	18.0 MPa

3.1 Test Facilities

The test facilities had three operational noise insulated rooms as shown in Figure 3.2. The first one house a fuel pump and was also used for storage.

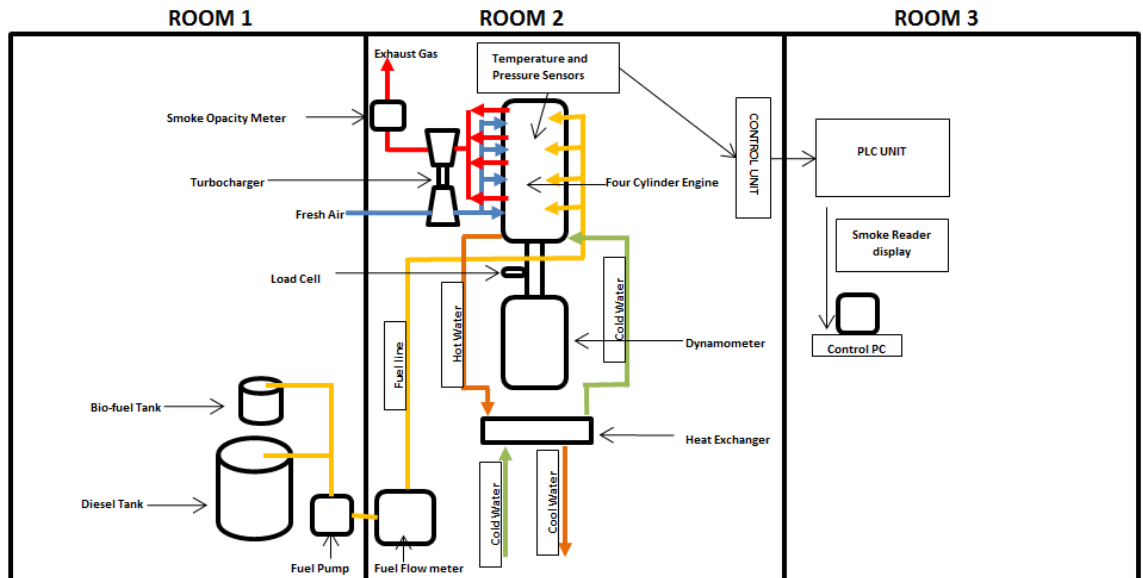


Figure 3.2: Operational facility layout

The actual process includes pumping the fuels from the drum to the fuel Anstalt für Verbrennungskraftmaschinen (AVL) regulator designated inside the second room until the AVL regulator container is full, then, the pump stops pumping. Thereafter, when the engine is in operation the engine fuel pump will pump the fuel from the AVL regulator container to fuel the engine. Once the AVL regulator container reaches 35% to empty, the pump is automatically actuated and starts filling up the AVL regulator container and the process is continuous.



Figure 3.3: 1st room with fuel and fuel pump



Figure 3.4: 2nd room AVL container filled with fuel feed by the fuel pump

The second room has the water system. This water comes from the water reservoir from outside. This water system must be operational before attempting to start the dynamometer or the engine. Once a proper water flow rate has been attained and it can be confirmed that there are no blockages in the water system, the engine and the dynamometer can be operated. This water is used to cool down and maintain acceptable operating conditions of the dynamometer, and is also used to cool down the engine coolant by making use of the heat exchanger process. The heat exchanger uses the cold water from the outside reservoir to cool down the warm coolant that comes from the engine once the coolant temperature decreases, the coolant is circulated back to reduce engine temperatures. This process is continuous. Thermocouples are used in all the water channels which include: engine inlet and outlet, dynamometer inlet and outlet. The information detected by the thermocouples is sent to the DB Board, to the PLC, then to data acquisition computer (see Figure 3.5). Inlet manifold and exhaust pressure sensors are used to determine the post compression pressure and the back pressure respectively. Also, the smoke opacity number is determined by the smoke detector installed on the exhaust system.

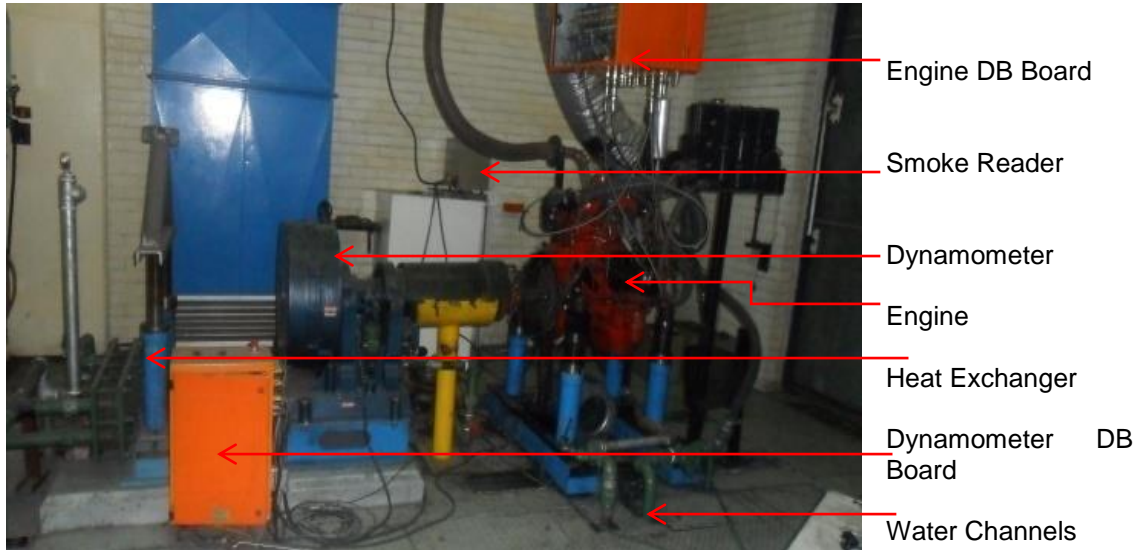


Figure 3.5. 2nd room with the engine and dynamometer

The third room house the PLC system which controlled the operations of the machines. The PLC system provides signals when there are abnormalities on the system that may results in machine failures, these signals will remain until the abnormalities are attended to. Also there is a smoke reader and the monitor with ETA version 4.9 software used for data retrieval (see Figure 3.6 and Figure 3.7 below).

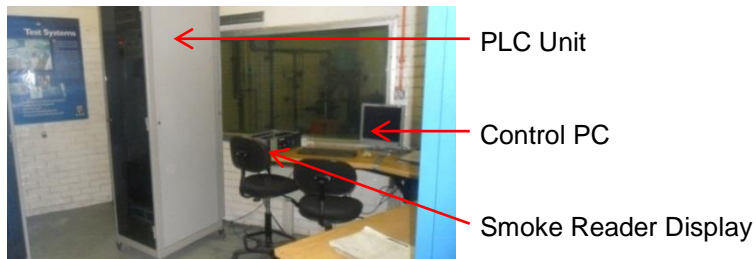


Figure 3.6: 3rd room with PLC and monitors

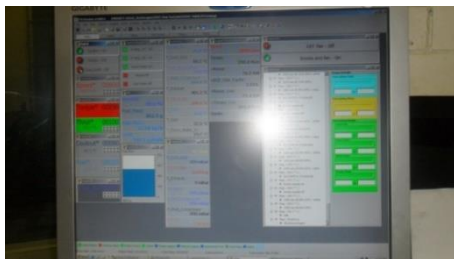


Figure 3.7: ETA version 4.9 software.

3.2 Fuel preparation

The Jatropha oil was supplied from Namibia and waste cooking oil was bought from Wild Bean restaurant at Cape Town International Airport BP garage. The waste cooking oil that was bought was Palm oil and it was only used to make potato chips. This research was conducted on four different fuel types, as listed below:

1. Biofuel produced from the waste cooking oil,
2. Biodiesel produced from waste cooking oil,
3. Biodiesel produced from Jatropha oil,
4. Fossil diesel

Methanol and potassium hydroxide (KOH) were used to produce bio-fuel. Both these chemicals were purchased from Protea Chemicals Cape at Killarney Gardens and the fossil diesel was bought from the BP garage at Atlantis. For the purpose of this study, the biofuel was produced at 1:6 volumetric oil-to-methanol ratio, 1% KOH catalyst at 55°C reaction temperature. The density of each fuel had to be established in order to make more accurate measurements when producing bio-fuel and biodiesel.

3.2.1 Density

A standard procedure to determine the density of all the fluids (JO, WCO, Methanol, KOH, and Diesel) was followed, as stated below:

- A 200ml of a particular fluid will be poured into a glass bottle with the weight of 276.25g and measurements taken from a METTLER TELEDON weight scale with an accuracy of 0.1g.
- Calculations to determine the density will be done as tabulated below. The formula below will be used, where ρ is the density, m is the mass, and V is the volume.

$$\rho = \frac{m}{V}, \quad \text{Equation 1}$$

Table 3.2: Jatropha oil density derived

Jatropha			
	200ml	0.2	l
	weight including bottle	546.22	g
	small bottle weight	376.25	g
	Jatropha weight	169.97	g
	density	849.85	g/l
	density	0.850	kg/l



Figure 3.8: JO measured

Table 3.3:Waste cooking oil density derived

Waste cooking oil			
	200ml	0.2	l
	weight including bottle	551.92	g
	small bottle weight	376.25	g
	methanol weight	175.67	g
	density	878.35	g/l
	density	0.878	kg/l



Figure 3.9: WCO measured

Table 3.4: Methanol density derived

Methanol			
	200ml	0.2	l
	weight including bottle	525.83	g
	small bottle weight	376.25	g
	methanol weight	149.58	g
	density	747.9	g/l
	density	0.748	kg/l



Figure 3.10: 160kg of Methanol

Table 3.5: KOH density derived

KOH			
	200ml	0.2	l
	weight including bottle	642.13	g
	small bottle weight	376.25	g
	KOH weight	265.88	g
	density	1329.4	g/l
	density	1.329	kg/l



Figure 3.11: 35kg of KOH

Table 3.6: Base diesel density derived.

Diesel			
	200ml	0.2	l
	weight including bottle	521.68	g
	small bottle weight	376.25	g
	Diesel weight	145.43	g
	density	727.15	g/l
	density	0.727	kg/l

3.3 Bio-fuel produced from waste cooking oil

The power curve approach required 19 litres of fuel per test. Therefore, various blends had to be made in quantities of 19 litres. Table 8 shows how the bio-fuel was derived. Basically, when looking at the 10% Blend Power Curve, it is noted that 17.1 litres of diesel and 1.9 litres of bio-fuel will be required to make the 19 litre requirement. Hence 0.271 litres of methanol, and 1.629 litres of WCO, plus 1% of KOH as a catalyst will be required to produce 1.9 litres of bio-fuel. The same process was followed to produce 30%, 50% biofuel blends and 100% biofuel as shown in the table below.

Table 3.7: The 19 litre fuel requirement per Power curve

Per power curve			19 l			
Biofuel - diesel blends	base diesel	Biofuel	Methanol	WCO	KOH	Ratio of oil to methanol
	l	l	l	l	g	
10% blend Power Curve	17.10	1.90	0.271	1.629	17.764	6
30% blend Power Curve	13.30	5.70	0.814	4.886	53.293	6
50% blend Power Curve	9.50	9.50	1.357	8.143	88.822	6
	39.90	17.10	2.443	14.657	159.880	6
100% biofuel Power Curve	0.00	19.00	2.714	16.286	177.645	6

The waste cooking collected from the restaurant had fried potato residue, as a result this required a filtration process to prevent engine potential failure.

3.3.1 Bio-fuel production steps

The bio-fuel was produced in baths of 19 litres due to the fact that only 20 litre containers were available.

- A normal funnel and leg stockings is used for the filtration process (see Figure 30).
- After filtration, 16.286kg of waste cooking is poured into a 19l pot and warmed up to 55°C (see Figure 32).
- While the waste cooking oil is warmed up, 2.714kg of methanol is poured into the brown glass bottle and the 177.64g of KOH is poured into the clear colour glass bottle as shown in Figure 31.
- Subsequently, KOH is mixed with methanol in the big brown bottle to produce methoxide, gently shaken and left for about 10 minutes.
- Once the WCO reaches the 55°C it is then poured into the 25 litre container and thereafter the methoxide is poured into the 25 litre container.
- The mixture of WCO and methoxide is then blended together by rolling the 25 litre tin container on the floor for about 15 minutes after which it is allowed to cool down for a period of between 12 to 24 hours.
- After 24 hours, a fatty acid methyl ester or FAME (Bio fuel) is produced and Glycerol is produced as a by-product. It should be noted that the glycerol was not separated from FAME due to inadequate facilities.



Figure 3.12: Waste cooking oil large particles filtration



Figure 3.13: Brown and clear bottle



Figure 3.14: WCO to be warmed up to 55°C



Figure 3.15: Mixture of WCO methoxide

Once the bio fuel has been produced then various blends with diesel fuel in percentages of 10%, 30% and 50% are produced. These various blends were also produced for the WCO and the JO in order to produce biodiesel. After filtration, WCO or JO will be weighed and blended with fossil diesel per that specific blend (see Table 9 to Table 11 below).

Table 3.8: Biofuel blends ratio in grams

1st biofuel blend	13l medium aluminium pot	994	g
	10% Biofuel	1605.22	g
	total	2599.22	g
	19l large aluminium pot	1435	g
	90% Diesel	12434.27	g
	total	13869.27	g
2nd biofuel blend	13l medium aluminium pot	994	g
	30% Biofuel	4815.65	g
	total	5809.65	g
	19l large aluminium pot	1435	g
	70% Diesel	9671.10	g
	total	11106.10	g
3rd biofuel blend	13 L medium aluminium pot	994	g
	50% Biofuel	8026.08	g
	total	9020.08	g
	19L large aluminium pot	1435	g
	50% Diesel	6907.93	g
	total	8342.93	g

Table 3.9: Biodiesel blends produced from waste cooking oil ratio in grams

1st WCO blend	13l medium aluminium pot	994	g
	10%WCO	1668.87	g
	total	2662.87	g
	19l large aluminium pot	1435.00	g
	90% Diesel	12434.27	g
	total	13869.27	g
2nd WCO blend	13l medium aluminium pot	994	g
	30% WCO	5006.60	g
	total	6000.60	g
	19l large aluminium pot	1435.00	g
	70% Diesel	9671.10	g

	total	11106.10	g
3rd WCO blend	13l medium aluminium pot	994	g
	50% WCO	8344.33	g
	total	9338.33	g
	19l large aluminium pot	1435.00	g
	50% Diesel	6907.93	g
	total	8342.93	g

Table 3.10: Biodiesel blends produced from Jatropha oil ratio in grams

1st JO blend	13l medium aluminium pot	994	g
	10%JO	1614.72	g
	total	2608.72	g
	19l large aluminium pot	1435.00	g
	90% Diesel	12434.27	g
	total	13869.27	g
2nd JO blend	13l medium aluminium pot	994	g
	30% JO	4844.15	g
	total	5838.15	g
	19l large aluminium pot	1435.00	g
	70% Diesel	9671.10	g
	total	11106.10	g
3rd JO blend	13l medium aluminium pot	994	g
	50% JO	8073.58	g
	total	9067.58	g
	19l large aluminium pot	1435.00	g
	50% Diesel	6907.93	g
	total	8342.93	g

3.4 Experiment set-up

The Power Curve approach was employed in this study. The tests were done at 15° BTDC and 20° BTDC injection timing parameters. The power curve test was performed at 100% throttle position through 9 different engine speeds starting from the highest to the lowest engine speed, namely 2600rpm, 2400rpm, 2200rpm, 2000rpm, 1800rpm, 1600rpm, 1400rpm, 1200rpm, and to 1000rpm.

3.4.1 Power Curve at 15°BTDC injection timing

Eleven different fuels were used for this Power curve at 15°BTDC as per the list stipulated below. Note that the base diesel fuel test was done before any of these blends could be used to verify whether the engine can still operate at optimal performance.

- (i) Base diesel fuels (pre and post for each blend type),
- (ii) 10% WCO and 90% base diesel fuel blend (BDW10 Blend),
- (iii) 30% WCO and 70% base diesel fuel blend (BDW30 Blend),
- (iv) 50% WCO and 50% base diesel fuel blend (BDW50 Blend),
- (v) 10% Biofuel and 90% base diesel fuel blend (BF10 Blend),
- (vi) 30% Biofuel and 70% base diesel fuel blend (BF30 Blend),
- (vii) 50% Biofuel and 50% base diesel fuel blend (BF50 Blend),
- (viii) 100% Biofuel (BF100),
- (ix) 10% JO and 90% base diesel fuel blend (BDJ10 Blend),
- (x) 30% JO and 70% base diesel fuel blend (BDJ30 Blend),
- (xi) 50% JO and 50% base diesel fuel blend (BDJ50 Blend),

The following will be determined for all the fuels mentioned above:

- (a) Power output
- (b) Torque
- (c) Exhaust temperature
- (d) Fuel Consumption
- (e) Smoke number

3.4.2 Power Curve at 20°BTDC injection timing

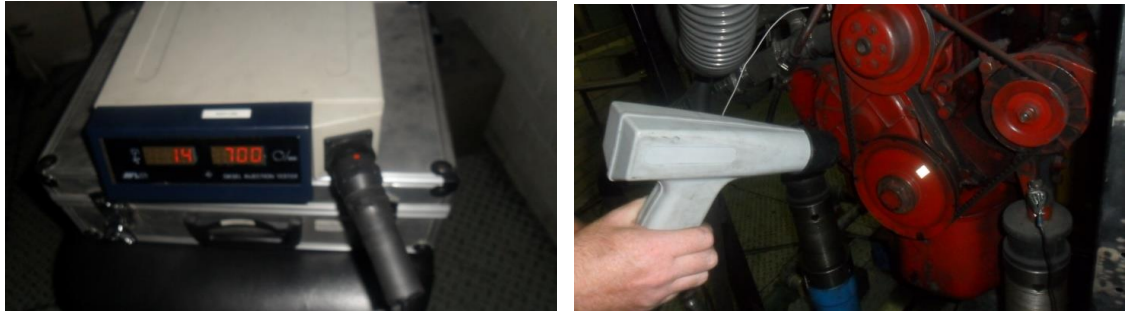


Figure 3.16: AVL 873 Diesel Injection tester used to change injection timing

The AVL 873 Diesel injection tester will be used to change the injection parameters from 15°BTDC to 20° BTDC. Once that is done the same process and fuels as used in the 15°BTDC Power curve, will be used in 20° BTDC Power Curve tests as well.

3.5 Methodology Summary

This chapter shows how the experimental work is conducted. It provides a clear layout of the laboratory facilities to be used when conducting the experimental work. It also provides specifications of the engine and measuring instruments that will be used during the experiment as well as the actual process of making different blends of bio-fuel and bio-diesel.

The chapter provides an overview on how the actual experimental work will be conducted and at what engine speeds the measurements will be acquired and the different engine parameters that will be adjusted. Lastly, it provides performance parameters that will be determined for the current study. The following chapter discusses these parameters in detail.

CHAPTER FOUR RESULTS AND DISCUSSION

During the study it was discovered that the engine maximum Torque of 350 Nm is produced at 1600rpm engine speed and the maximum Power of the engine is produced at 2600rpm. Therefore, for the purpose of the current study, the discussions will focus mainly on 1600rpm and at 2600rpm engine speeds. Results for power, torque, exhaust temperature, fuel consumption, and smoke opacity are discussed, while the results for the other speeds and non-critical parameters (e.g inlet manifold temperature, post compression pressure) are detailed in Appendices T, J, Z, A1, A16, and A17.

4.1 Power output

The formula used to calculate the engine power output is as follows: where P is power output, N is the engine speed in revolution per minute (rpm). The engine speed is measured using a Hall Effect sensor - M12 Frontal MAG Prox PNP 12-30VDC. This sensor is a magnetic proximity sensor that is triggered by a toothed disc on the drive shaft between the engine and the dynamometer. T is the torque. Chapter 3 provides details on how the torque is measured.

$$P = \frac{2\pi NT}{60000} \quad \text{Equation 2}$$

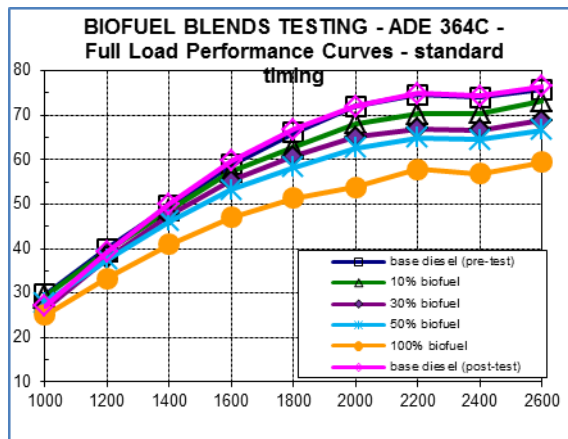


Figure 4.1: Engine fuelled with Bio-fuel at 15°TDBC

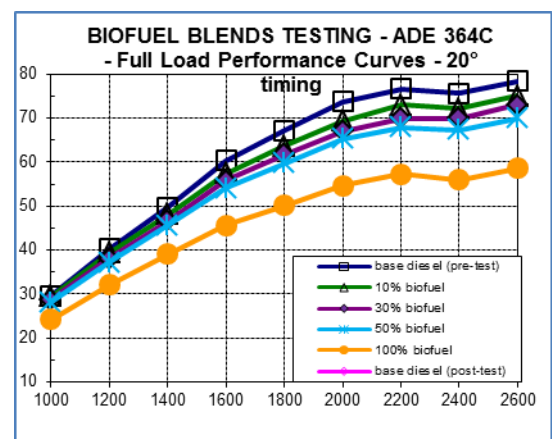


Figure 4.2: Engine fuelled with Bio-fuel at 20°TDBC

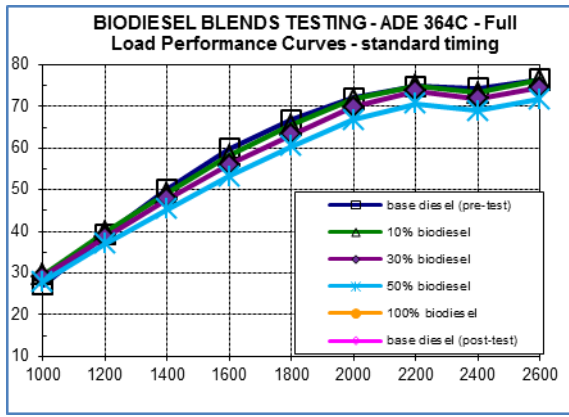


Figure 4.3: Engine fuelled with biodiesel at 15° BTDC

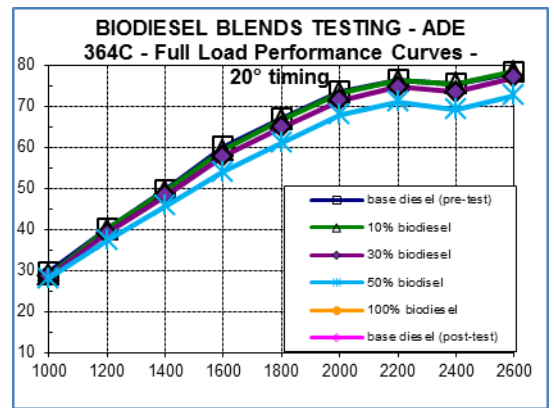


Figure 4.4: Engine fuelled with biodiesel at 20° BTDC

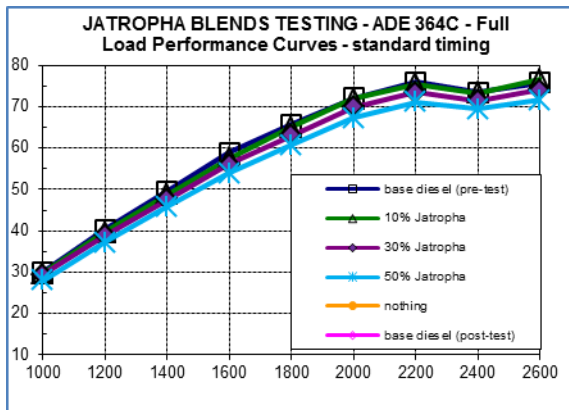


Figure 4.5: Engine fuelled with JO biodiesel at 15° BTDC

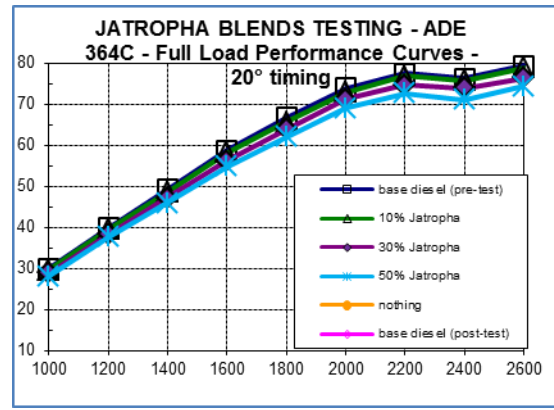


Figure 4.6: Engine fuelled with JO biodiesel at 20° BTDC

Table 4.1: Overall Power Output from all different fuels at both different injection timing

	15° BTDC TIMING RESULTS					20° BTDC TIMING RESULTS					IMPROVEMENT BETWEEN BLENDS				
	ENGINE POWER OUTPUT Bio-fuel @ 2600rpm					ENGINE POWER OUTPUT Bio-fuel @ 2600rpm					ENGINE POWER OUTPUT Bio-fuel @ 2600rpm				
Fuel Type	Base diesel	100%	50%	30%	10%	Base diesel	100%	50%	30%	10%	Base diesel	100%	50%	30%	10%
Actual results	76.4	59.5	66.7	68.9	73.2	78.4	58.6	70	73	75	2	-0.9	3.3	4.1	1.8
Difference to base diesel		22.1	12.7	9.8	4.2		25.3	10.7	6.9	4.3	-2.55	1.54	4.71	5.62	-2.4
Improvement from BF100			9.4	12.3	17.9			14.5	18.4	20.9					
	Table 4.1 (A)					Table 4.1 (B)					Table 4.1 (C)				
	ENGINE POWER OUTPUT Bio-diesel Waste oil @ 2600rpm					ENGINE POWER OUTPUT Bio-diesel Waste oil @ 2600rpm					ENGINE POWER OUTPUT Bio-diesel Waste oil @ 2600rpm				
Fuel Type	Base diesel	100%	50%	30%	10%	Base diesel	100%	50%	30%	10%	Base diesel	100%	50%	30%	10%
Actual results	76.3		71.8	74.5	76.3	78.6		72.8	73.6	78.6	2.3		1	-0.9	2.3
Difference to base diesel			5.9	2.4	0			7.4	6.4	0	-2.93		1.37	1.22	2.93
Improvement from BDW50				3.5	5.9				1	7.4					
	Table 4.1 (D)					Table 4.1 (E)					Table 4.1 (F)				
	ENGINE POWER OUTPUT Bio-diesel Jatropha oil @ 2600rpm					ENGINE POWER OUTPUT Bio-diesel Jatropha oil @ 2600rpm					ENGINE POWER OUTPUT Bio-diesel Jatropha oil @ 2600rpm				
Fuel Type	Base diesel	100%	50%	30%	10%	Base diesel	100%	50%	30%	10%	Base diesel	100%	50%	30%	10%
Actual results	75.8		71.6	74.1	76.5	79.6		74.4	76.6	79	3.8		2.8	2.5	2.5
Difference to base diesel			5.5	2.2	-0.9			6.5	3.8	0.8	-4.77		3.76	3.26	3.16
Improvement from BDJ50				3.3	6.5				2.8	5.8					
	Table 4.1 (G)					Table 4.1 (H)					Table 4.1 (I)				

4.1.1 Comparison of 100% Biofuel with base diesel at 2600rpm

The fuel discussed at 100% blend is the biofuel only. The reason for this is that it was the only fuel that was used as the neat waste cooking oil and the Jatropha oil could not be used to avoid possible engine damage or catastrophic failure. It is also not the main focus of the current study to test the engine with neat vegetable oils, but rather biodiesel blends.

The 100% bio-fuel (BF100) obtained inferior power results compared to that of the engine fuelled with base diesel as shown in Figure 4.1 and Table 4.1 (A) above, the results obtained are unfavourable at both injection timing parameters as a 22.1% power drop and a further increase in the power drop of 25.3% has been obtained at both parameters (see Table 4.1A and 12B).

Several factors resulted in the achieved outcomes, Firstly glycerol was not separated from the FAME (Biofuel). Secondly, according to the literature (Chauhan et al., 2010: 2485) vegetable oils have an inferior calorific value that ranges between 39–40 MJ/kg, comparatively lower than that of diesel fuels (about 45 MJ/kg).

Another factor that influenced the depression in the results obtained by the BF100 is the effect of the post compression pressure boost that decreased by 15% in comparison to the fossil diesel (see Appendix J). This resulted in the large reduction of the fuel flow, thus the reduction in power output is noticeable.

The results obtained were expected as stated by Agarwal and Agarwal (2007:2316-2321), although the extent of severity at which the reduction is seen was not anticipated, especially on the advancement of the injection timing parameters. Better results were expected at AIT, but the situation in fact deteriorated.

The results obtained from the BF100, could still be used in applications where the maximum power output will not be an absolute requirement, for an example: agricultural tractors, and gravel road works graders. It is recommended that after using two full tanks of BF100, one full tank of the fossil diesel should be used to flush the entire fuel system, before reverting to the BF100.

4.1.2 Comparison of 50% Biofuel with base diesel at 2600rpm

The 50% blends seem to yield better results than what has been mentioned about the 100% biofuel above. There is variation in the power output produced by these blends. It is found that the 50% Biodiesel Jatropha blends (BDJ50) obtained more favourable results at AIT compared to other 50% blends. Although, it should be mentioned that the BF50 and the BDW50 showed some improvement at AIT (see Figures 4.2, 4.4 and 4.6).

Analysis of the results, show that the negative effect caused by not separating the glycerol from bio-fuel will be prevalent in all the bio-fuel blends as it is the same case with the BF50 where it obtained the lower results of 70kW at AIT (see Table 4.1B). The effect caused the BF50 to be about 2% less than other fuels at AIT.

It was expected that the BDW50 would produce the least power output due to the fact that it has obtained the least fuel flow of 15.6kg/h compared to other fuels including the fossil diesel that produced an average of 17kg/h (see Appendix I, Z and AP), but that was not the case. Although the BF50 fuel flow average 17kg/h, a percentage of it was not fuel, but glycerol. This then justified the desirable results obtained by the BDJ50 which produced 74.4kW at AIT.

BDJ50 shows to be the best blend in comparison to the BDW50 and BF50 and more desirable outcomes should be anticipated on the 30% blends, which will be discussed in more detail in section 4.1.3 below.

4.1.3 Comparison of 30% Biofuel with base diesel at 2600rpm

Good outcomes are seen in the 30% blends. Firstly, the BF30 was expected to produce inferior power output compared to BDW30 and BDJ30 blends, instead it produced 73kW (see Table 4.1 B), similar to what is produced by the BDW30 blend at AIT as shown in Table 4.1E.

Further investigation into what influenced the improvement observed with the BF30, revealed that the fuel flow rate between the BF30 and BDW30 was similar as well. But BDW30 was found to obtain higher compression pressure than BF30, as a result BDW30 is expected to produce more power output but that is not the case. The

higher compression pressure obtained by BDW30 increases the air intake temperature which then result in lower density of air into the combustion chamber resulting in the outcomes obtained.

With the BF30 an opposite trend is seen, where there is just a lower compression pressure boost which resulted in cooler air intake with higher density into the combustion chamber. This compensated for the condition of the bio-fuel.

The current study proves that the Jatropha blend obtains the most promising results compared to the waste cooking oil blends at both 50% and 30% blends. Furthermore, it is a fact that the increase of the fossil diesel content on the blends does contribute positively in relation to the power output. Also, that the advancement of the injection timing does enhance the power output, as 76.6kW is (see Figure 4.6) obtained from the engine fuelled by the BDJ30 at AIT, higher than that of the engine fuelled with the base diesel at SIT.

4.1.4 Comparison of 10% Bio-fuel with base diesel at 2600rpm

The BF10 produced lower power output compared to other blends as it was initially anticipated, although the BF30 performance was quite notable. It should be noted that the BF10 at AIT produced almost the same power output as that of an engine fuelled with fossil diesel at SIT, which is a positive outcome.

Furthermore, all the 10% blends performed well across all the other parameters to mention: inlet manifold temperature, and post compression pressure (see Appendix B, T and A10), but what made the BDJ10 blend to be the best, in this instance, is the good chemical reaction that takes in the combustion chamber. The Jatropha oil had an advantage over the waste cooking oil because the Jatropha was employed in its pure state which enabled it to contain it's heat value. It is a different case when it comes to the waste cooking oil. This oil is not in a pure state as it has been used for cooking before being reused to produce the bio-fuel and the bio-diesel. The process of cooking causes the heat value of the cooking oil to deteriorate. Thus, excellent results obtained at AIT which exceed those obtained at STI by the engine fuelled with base diesel were obtained (see Figures 4.4 and 4.6).

Table 4.2: Summary of the Power Output from all different fuels at both different injection timing

BLEND	BF @ 15°BTDC	BF @ 20°BTDC	BDW@ 15°BTDC	BDW @ 20°BTDC	BDJ @ 15°BTDC	BDJ @ 20°BTDC
100%	59.5	58.6				
50%	66.7	70	71.8	72.8	71.6	74.4
30%	68.9	73	74.5	73.6	74.1	76.6
10%	73.2	75	76.3	78.6	76.5	79

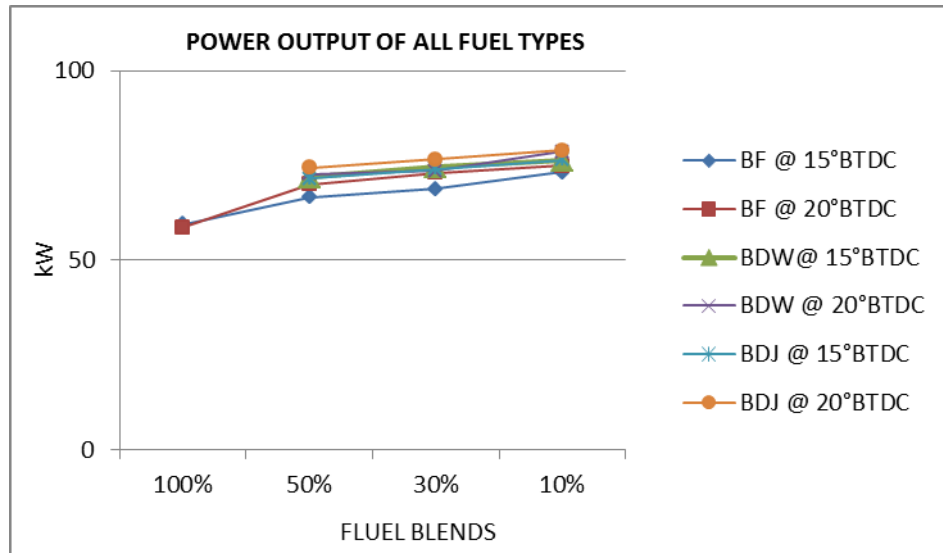


Figure 4.7: Power output of all fuel types at different injection timing parameters

The outcomes obtained from the study also show that the power output increases as the fossil diesel content increases in the various blends. Agarwal and Agarwal (2007: 2321) also stated that the thermal efficiency of Jatropha blends was lower than that of diesel. However, in their study thermal efficiency of blends up to 20% Jatropha blend (J20) was very close to diesel. Oxygen present in the fuel molecules improves the combustion characteristics, but higher viscosity and poor volatility of vegetable oils lead to their poor atomization and combustion characteristics.

The significant increase in the power output, which is even more than that of the engine fuelled with base diesel, has been achieved with the change to advanced setting parameters injection timing. The results obtained from the current study show some similarities with the experimental study that was conducted by Reddy and Ramesh (2006: 1999). They determined that the brake thermal efficiency increases when the injection timing is advanced. This is because starting the combustion earlier compensates for the effect of slow burning. The combustion is slow with Jatropha oil on account of its high viscosity which leads to a poor spray and mixture with air.

It is seen from Table 4.2 and Figure 4.7 above that the Jatropha fuel blends produce more power than other fuel types. At the AIT of the BDJ50 blend obtained 74.4kW and both BDW50 and BF50 produced 72.8kW and 70kW, respectively. Duplication is observed where the BDJ30 blend obtained 76.6kW and both BDW30 and BF30 produced 73.6kW and 73kW, respectively. Also, the power output obtained by BDJ10 was 79kW while the BDW10 blend obtained 78.6kW and the BF10 blend produced the least power output of 75kW compared to other fuel blends. Hence the BDW50 demonstrated positive results as far as power output is concerned.

4.2 Torque

The details about the three fuels (Biofuel, Biodiesel from waste cooking oil and Biodiesel from Jatropha oil) and fuel type used is discussed extensively in the Power output section 4.1 above. For that reason there should be a correlation between the results obtained for the power output and torque, which will be discussed in more depth below.

The torque is measured using the load-cell on the dynamometer. The load-cell gives force output (N) and the distance (arm length in meters), thus torque (Nm).

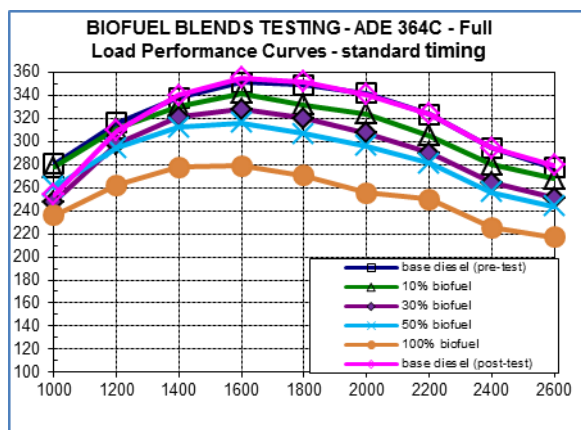


Figure 4.8: Engine fuelled with Bio-fuel at 15°TDBC

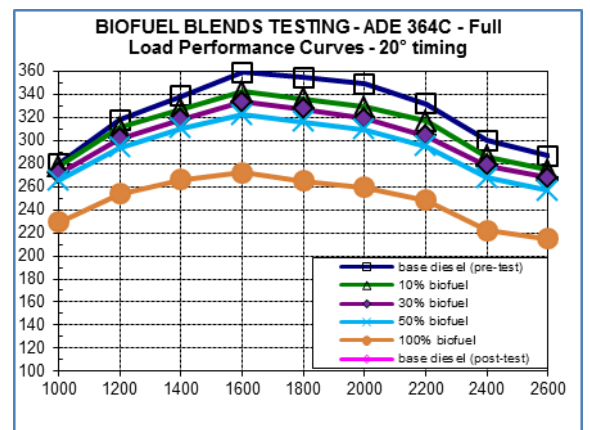


Figure 4.9: Engine fuelled with Bio-fuel at 20°TDBC

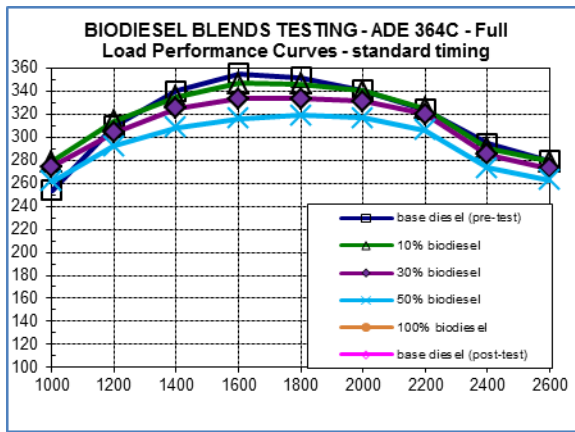


Figure 4.10: Engine fuelled with biodiesel at 15°TDBC

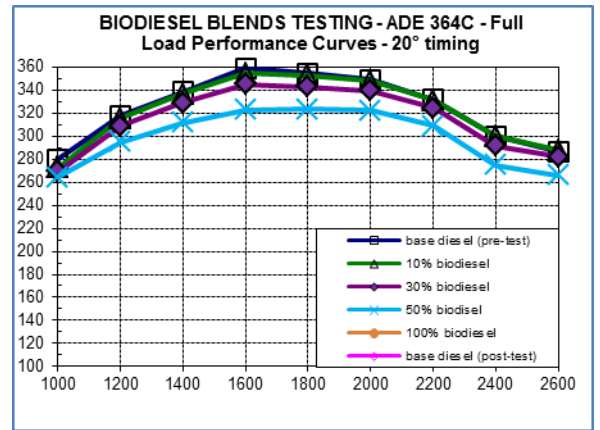


Figure 4.11: Engine fuelled with biodiesel at 20°TDBC

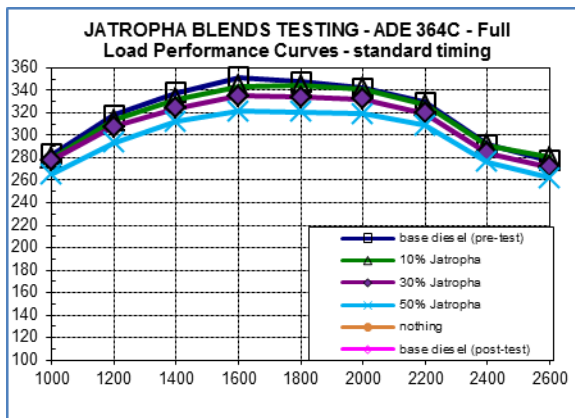


Figure 4.12: Engine fuelled with JO biodiesel at 15°TDBC

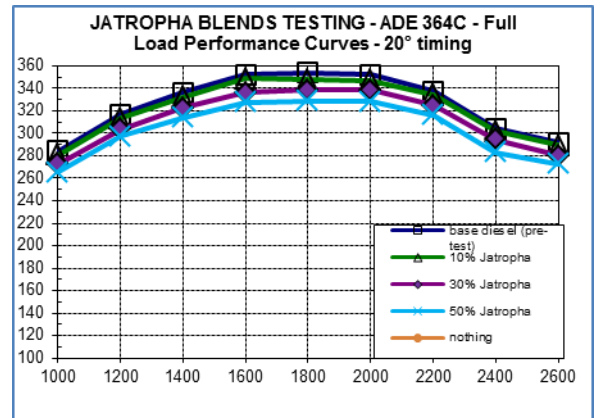


Figure 4.13: Engine fuelled with JO biodiesel at 20°TDBC

Table 4.3: Overall Torque Output from all different fuels at both different injection timing

	15°BTDC TIMING RESULTS					20°BTDC TIMING RESULTS					IMPROVEMENT BETWEEN BLENDS				
	ENGINE TORQUE Bio-fuel @ 1600rpm					ENGINE TORQUE Bio-fuel @ 1600rpm					ENGINE TORQUE Bio-fuel @ 1600rpm				
Fuel Type	Base diesel	100%	50%	30%	10%	Base diesel	100%	50%	30%	10%	Base diesel	100%	50%	30%	10%
Actual results	355.4	279.1	316	328.1	341.8	359.1	272	322.6	333.4	342.5	3.7	-7.1	6.6	5.3	0.7
Difference to base diesel		21.5	11.1	7.7	3.8		24.3	10.2	7.2	4.6	-1.03	2.61	2.05	1.59	-0.2
Improvement from BF100			10.4	13.8	17.6			14.1	17.1	19.6					
	Table 4.3 (A)					Table 4.3 (B)					Table 4.3 (C)				
Fuel Type	Base diesel	100%	50%	30%	10%	Base diesel	100%	50%	30%	10%	Base diesel	100%	50%	30%	10%
Actual results	355.4		316.5	333.8	346.9	359.1		322.9	345.3	354.4	3.7		6.4	11.5	7.5
Difference to base diesel			10.9	6.1	2.4			10.1	3.8	1.3	-1.03		1.98	3.33	2.12
Improvement from BDW50				4.9	8.6				6.2	8.8					
	Table 4.3 (D)					Table 4.3 (E)					Table 4.3 (F)				

Fuel Type	ENGINE TORQUE Bio-diesel Jatropa oil @ 1600rpm					ENGINE TORQUE Bio-diesel Jatropa oil @ 1600rpm					ENGINE TORQUE Bio-diesel Jatropa oil @ 1600rpm					N m
	Base diesel	100 %	50%	30%	10%	Base diesel	100 %	50%	30%	10%	Base diesel	100 %	50 %	30 %	10 %	
Actual results	351.6		321.4	335	343.3	352.3		327.7	336.3	348.5	0.7		6.3	1.3	5.2	
Difference to base diesel			8.6	4.7	2.4			7	4.5	1.1	-0.2		-1.9	-0.3	-1.4	
Improvement from BDJ50				3.9	6.2				2.4	5.9						
	Table 4.3 (G)					Table 4.3 (H)					Table 4.3 (I)					%

4.2.1 Comparison of 100% Biofuel with base diesel at 1600rpm

The results seen in Figures 4.8 and 4.9 confirm what has been anticipated based on the power output results obtained. What is seen with the torque results at 100% biofuel is a close relationship of what is displayed with the power. The advancement of the injection timing did not have a positive impact, instead the torque reduced.

The 24.3% reduction seen with the torque results at AIT is similar to the 25.3% reduction seen with the power output results. As already mentioned the use of the BF100 will depend on the practical application intended, where torque and power are not critical requirements.

4.2.2 Comparison of 50% blends of Biofuel with base diesel at 1600rpm

A different scenario is seen with the 50% blends, the BF50 and BDW50 produced similar torque at both injection timings, completely opposite to what was anticipated. The BF50 power results were lower than that of the BDW50, a similar trend was expected, but surprisingly the BF50 became more competitive.

The reason for the outcomes is that the power output results obtained were recorded at 2600rpm, but for the torque are recorded at 1600rpm. It is found that both fuels produced similar power output at 1600rpm (see Appendix D and V) at both injection timing parameters, hence there is no difference in torque outcomes and the main contributing factor to similar power output produced is the 70.9°C inlet manifold temperature obtained for both fuels at AIT (see Appendix D and V).

The BDJ50 produced more desirable results than others (see Table 4.3H), although the power output results obtained by BDJ50 were just about a percentage point above BF50 and BDW50.

Thus it can be stated that at 1600rpm the three fuels were competitive when it comes to power output and torque.

4.2.3 Comparison of 30% blends of Bio-fuel with base diesel at 1600rpm

Torque seems to produce arbitrary outcomes in all the different blends. There is no particular pattern as seen with the power output results, where the results can be pre-empted and be proven as predicted.

Unlike previously observed with the BF50, the BF30 obtained the lowest torque results, but BDW30 took the lead by producing 345.3Nm which (see Table 4.3E) is higher than those obtained by BDJ30. This is an abnormal situation as the Jatropha bio-diesel always produced the best results.

All three blends (BF30, BDW30 and BDJ30) maintained the same fuel flow of 11.7kg/h at 1600rpm (see Appendix L), but 444mBar, 473mBar, and 456mBar for the post compression pressure were obtained respectively (see Appendix C, U and A11). This clearly indicates that the BDW30 obtained the highest turbo boost compared to the other fuels. Besides the post compression pressure, the BDJ30 produced more power output than BDW30, although its post compression boost was lower than that of the BDW30 as discussed in section 4.1 above. The BDW30 had an advantage of the cooler inlet manifold temperatures at 2600rpm, but in this instance, the BDW30 obtained 76.3°C inlet manifold temperatures at 1600rpm which is higher than the 73.3°C obtained by BDJ30 at 1600rpm.

Further investigation is recommended in trying to get more details on the possible causes that resulted in the irregular outcomes seen above.

4.2.4 Comparison of 10% blends of Biofuel with base diesel at 1600rpm

As for section 4.2.3, similar trends are seen with the BDW10 blend, where it obtained 354.4Nm which is the highest torque in comparison to what is obtained by BF10 and BDW10 (see Figure 4.8 and Table 4.3F). A positive outcomes is that the torque obtained by BDW10 at AIT is only a percentage point within that obtained by the base diesel.

Table 4.4: Summary of the Engine torque results from all different fuels at both different injection timing

BLEND	BF @ 15°BTDC	BF @ 20°BTDC	BDW@ 15°BTDC	BDW @ 20°BTDC	BDJ @ 15°BTDC	BDJ @ 20°BTDC
100%	279.1	272				
50%	316	322.6	316.5	322.9	321.4	327.7
30%	328.1	333.4	333.8	345.3	335	336.3
10%	341.8	342.5	346.9	354.4	343.3	348.5

Pertaining to the torque results, the injection timing advancement did not result in much improvement as seen in the power output results. The biodiesel from waste cooking oil showed the best results at 30% and 10% blends (see Table 4.4 above and Figure 48 below). It was also the best fuel blend compared to other blends as shown in Figure 4.14 overleaf. Furthermore, the results obtained a similar trend to those obtained by Ghobadian et al. (2009: 7), who found that the power and torque performance with fuel blends showed a trend which is similar to the neat diesel results.

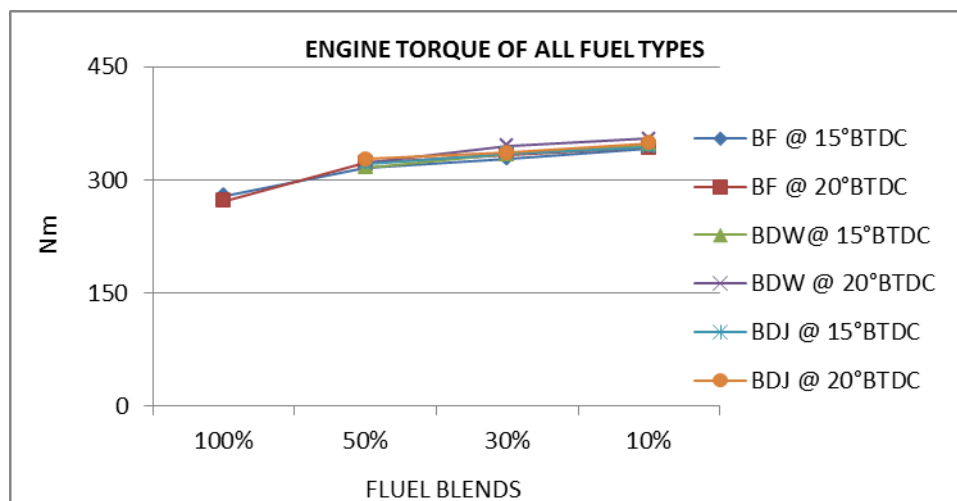


Figure 4.14: Engine torque for all fuel types at different injection timing parameters

4.3 Exhaust Temperature

The exhaust temperature is measured with Thermocouple Type K, details which are given in Chapter 3.

The illustrations below show the exhaust temperature results. It is observed that the engine produces its maximum exhaust temperatures between 1600rpm and 2200rpm engine speed. Thus, 2000rpm engine speed results will be used in the discussion.

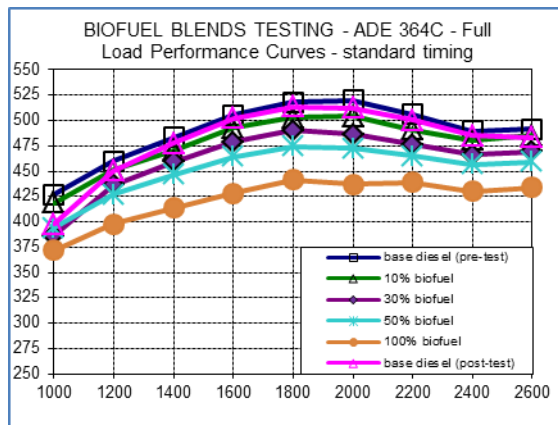


Figure 4.15: Engine fuelled with Bio-fuel at 15°TDBC

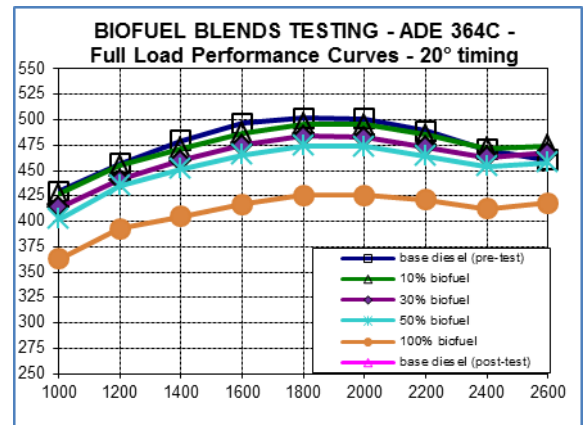


Figure 4.16: Engine fuelled with Bio-fuel at 20°TDBC

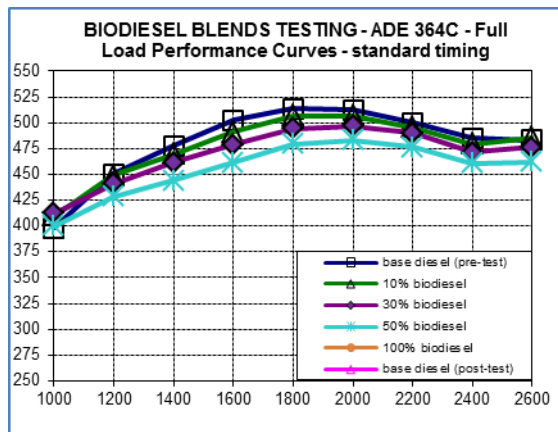


Figure 4.17: Engine fuelled with biodiesel at 15°TDBC

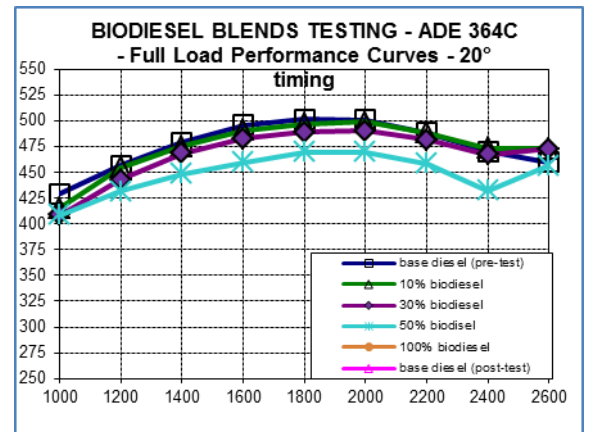


Figure 4.18: Engine fuelled with biodiesel at 20°TDBC

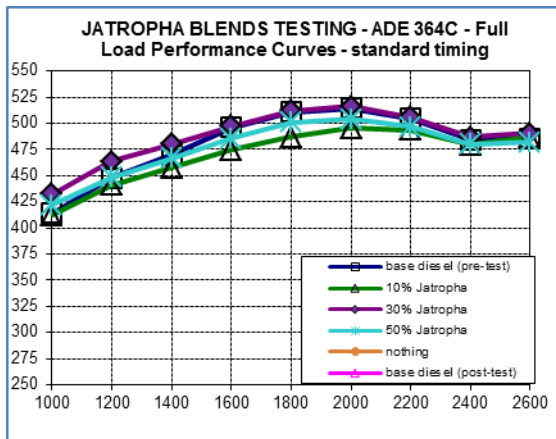


Figure 4.19: Engine fuelled with JO biodiesel at 15°TDBC

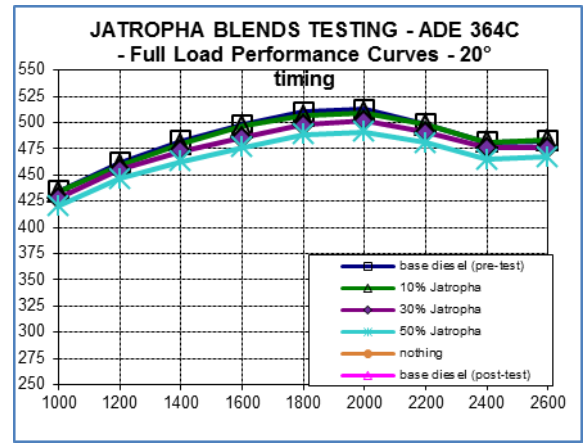


Figure 4.20: Engine fuelled with JO biodiesel at 20°TDBC

Table 4.5: Overall Exhaust temperature obtained from all different fuels at both different injection timing

	15°BTDC TIMING RESULTS					20°BTDC TIMING RESULTS					IMPROVEMENT BETWEEN BLENDS					
	ENGINE EXHAUST TEMPERATURE Bio-fuel @ 2000rpm					ENGINE EXHAUST TEMPERATURE Bio-fuel @ 2000rpm					ENGINE EXHAUST TEMPERATURE Bio-fuel @ 2000rpm					
Fuel Type	Base diesel	100%	50%	30%	10%	Base diesel	100%	50%	30%	10%	Base diesel	100%	50%	30%	10%	
Actual results	520	437	472	486	504	501	426	474	482	495	-19	-11	2	-4	-9	°C
Difference to base diesel		16	9.2	6.5	3.1		15	5.4	3.8	1.2	3.79	2.58	0.42	0.83	1.82	%
Improvement from BF100			6.7	9.4	12.9			9.6	11.2	13.8						%
	Table 4.5 (A)					Table 4.5 (B)					Table 4.5 (C)					
Fuel Type	ENGINE EXHAUST TEMPERATURE Bio-Diesel Waste oil @ 2000rpm					ENGINE EXHAUST TEMPERATURE Bio-Diesel Waste oil @ 2000rpm					ENGINE EXHAUST TEMPERATURE Bio-Diesel Waste oil @ 2000rpm					
Actual results	512		483	497	506	501		470	491	497	-11		-13	-6	-9	°C
Difference to base diesel			5.7	2.9	1.2			6.2	2	0.8	2.2		2.77	1.22	1.81	%
Improvement from BDW50				2.7	4.5				4.2	5.4						%
	Table 4.5 (D)					Table 4.5 (E)					Table 4.5 (F)					
Fuel Type	ENGINE EXHAUST TEMPERATURE Bio-Diesel Jatropha oil @ 2000rpm					ENGINE EXHAUST TEMPERATURE Bio-Diesel Jatropha oil @ 2000rpm					ENGINE EXHAUST TEMPERATURE Bio-Diesel Jatropha oil @ 2000rpm					
Actual results	516		504	516	495	512		491	501	506	-4		-13	-15	11	°C
Difference to base diesel			2.3	0	4.1			4.1	2.1	1.2	0.78		2.65	2.99	2.17	%
Improvement from BDJ50				2.3	-1.7				2	2.9						%
	Table 4.5 (G)					Table 4.5 (H)					Table 4.5 (I)					

4.3.1 Comparison of 100% blends of Bio-fuel with base diesel at 2000rpm

The test results shown in Figure 4.15 and Table 4.5A indicate an exhaust temperature drop of 16% and the same is seen at the advancement of the injection timing, as shown in Figure 4.16. It is evident that the effect of the power loss resulted in the reduction of the exhaust temperature. A further contributing factor is that the

fuel flow of the BF100 was found to be inferior to that of the diesel fuel, resulting in a lower amount of fuel available for combustion. In addition, the lower heat value of the vegetable oil contributed to the reduction of the exhaust temperature. Fuel consumption will be discussed in more detail section 4.4.

4.3.2 Comparison of 50%, 30% and 10% blends of Biofuel with base diesel at 2000rpm

Across all the fuels used in this experimental work (see Tables 4.5 B, E and H) it was found that the vegetable oil blends obtained the lowest exhaust temperatures. Once more, the Jatropha bio-diesel is found to obtain a higher value than the other blends, although it is still lower than those of the base diesel.

This reduction in exhaust temperature is beneficial to the engine cooling system since, if the exhaust temperature is low, it is an indication that the cooling water circulation system is operating optimally. At AIT, the compression pressure experienced a reduction across the fuels blends. This is due to the exhaust gas flow rate decrease, which resulted in lower exhaust temperature. At AIT the bio-fuel and bio-diesel are signalling to be a possible option, as reasonable power output is seen at lower exhaust temperatures than that of the base diesel.

Table 4.6: Summary of the exhaust temperature results from all different fuels at both different injection timing

BLEND	BF @ 15°BTDC	BF @ 20°BTDC	BDW @ 15°BTDC	BDW @ 20°BTDC	BDJ @ 15°BTDC	BDJ @ 20°BTDC
100%	437	426				
50%	472	474	483	470	504	491
30%	486	482	497	491	516	501
10%	504	495	506	497	495	506

Reddy and Ramesh (2006: 1999) discovered that the variation in exhaust temperature was not significant with changes in the injection timing. The current study findings concur with their findings, as the injection timing did not have significant changes on exhaust temperature. The exhaust temperatures produced by the base diesel were the highest compared to all the different blends that were used in this study, be it at SIT or at AIT (see Table 4.6 above). Although Chauhan et al. (2010: 2490) illustrated that the exhaust temperature increases with the increase in

brake power for each fuel. When comparing the base diesel with the different blends it is discovered that the exhaust temperature decreases as the oil content increases in the blend. Nazil and Al-Kayiem (2012:2608) obtained similar outcomes in their study where they mentioned that the reason for such behaviour is that the exhaust gas temperature is an indication of combustion temperature which is a function of ignition time. Diesel fuel has the smallest ignition time related to the fuel heat of vaporization and the heating value. Therefore with the sunflower oil-diesel blends, combustion temperature and exhaust gas decrease according to the percentage of the sunflower oil's increased value. This is due to the increase in the heat of vaporization of the mixture fuel blends.

4.4 Fuel Consumption

The figures below show the specific fuel consumption results. It is noted that the SFC increases as the output power increases, thus SFC will be discussed at the maximum output power engine speed of 2600rpm.

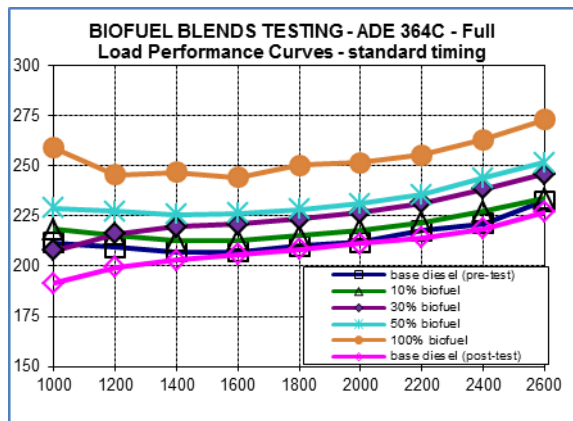


Figure 4.21: Engine fuelled with Bio-fuel at 15°TDBC

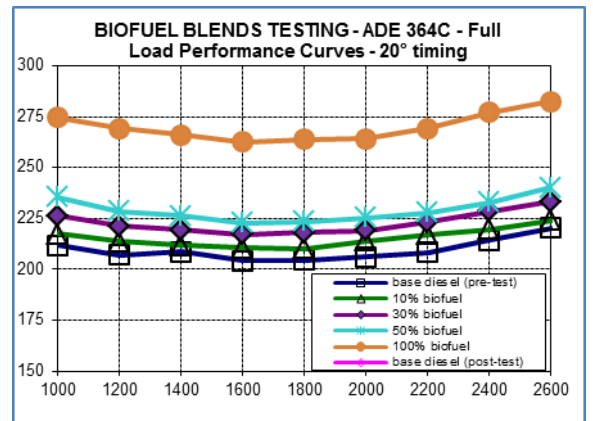


Figure 4.22: Engine fuelled with Bio-fuel at 20°TDBC

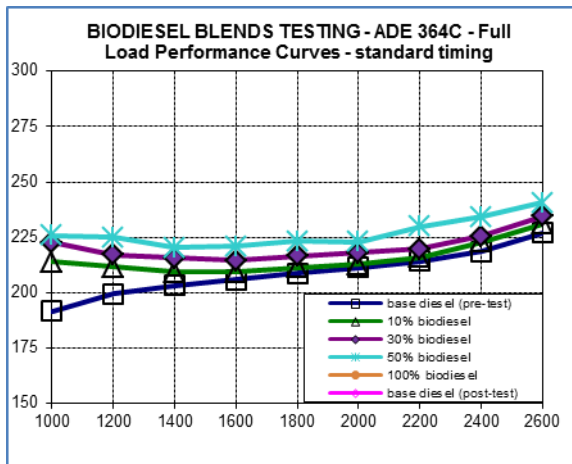


Figure 4.23: Engine fuelled with biodiesel at 15°TDBC

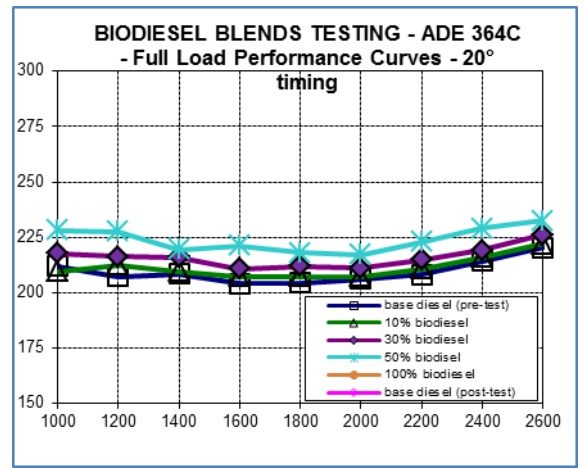


Figure 4.24: Engine fuelled with biodiesel at 20°TDBC

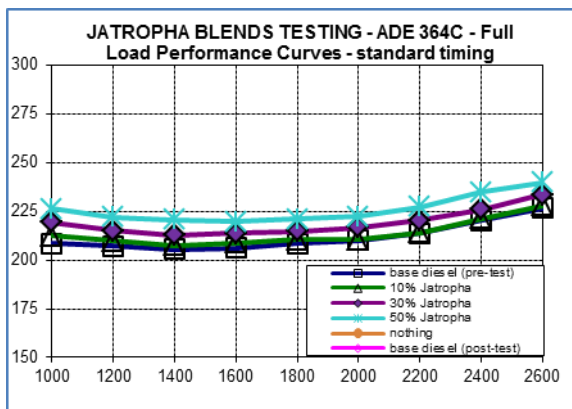


Figure 4.25: Engine fuelled with JO biodiesel at 15°TDBC

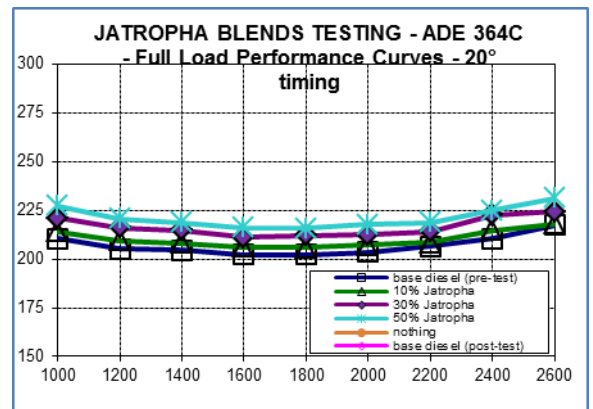


Figure 4.26: Engine fuelled with JO biodiesel at 20°TDBC

Table 4.7: Overall Specific fuel consumption obtained from all different fuels at both different injection timing

	15°BTDC TIMING RESULTS					20°BTDC TIMING RESULTS					IMPROVEMENT BETWEEN BLENDS					
	SFC					SFC					SFC					
	Bio-fuel @ 2600rpm					Bio-fuel @ 2600rpm					Bio-fuel @ 2600rpm					
Fuel Type	Base diesel	100%	50%	30%	10%	Base diesel	100%	50%	30%	10%	Base diesel	100%	50%	30%	10%	g/kWh
Actual results	227	273	252	246	234	220	283	240	233	224	-7	10	-12	-13	-10	
Difference to base diesel		16.8	9.9	7.7	3		22.3	8.3	5.6	1.8	3.18	-3.53	5	5.58	4.46	%
Improvement from BF100			6.9	9.1	13.9			13.9	16.7	20.5						%
	Table 4.7 (A)					Table 4.7 (B)					Table 4.7 (C)					
	SFC					SFC					SFC					
	Bio-diesel Waste oil @ 2600rpm					Bio-diesel Waste oil @ 2600rpm					Bio-diesel Waste oil @ 2600rpm					
Fuel Type	Base diesel	100%	50%	30%	10%	Base diesel	100%	50%	30%	10%	Base diesel	100%	50%	30%	10%	g/kWh
Actual results	227		241	235	231	214		233	226	222	-13		-8	-9	-9	
Difference to base diesel			5.8	3.4	1.7			8.2	5.3	3.6	6.07		3.43	3.98	4.05	%
Improvement from BDW50				2.4	4.1				2.8	4.6						%
	Table 4.7 (D)					Table 4.7 (E)					Table 4.7 (F)					
	SFC					SFC					SFC					

Fuel Type	Bio-diesel Jatropha oil @ 2600rpm					Bio-diesel Jatropha oil @ 2600rpm					Bio-diesel Jatropha oil @ 2600rpm					
	Base diesel	100%	50%	30%	10%	Base diesel	100%	50%	30%	10%	Base diesel	100%	50%	30%	10%	
Actual results	220		240	234	228	218		231	224	218	-2		-9	-10	-10	g/kWh
Difference to base diesel			8.3	6	3.5			5.6	2.7	0	0.917		3.896	4.464	4.587	%
Improvement from BDJ50				2.4	4.8				2.9	5.6						%
	Table 4.7 (G)					Table 4.7 (H)					Table 4.7 (I)					

4.4.1 Comparison of 100% blends of Biofuel with base diesel at 2600rpm

The results obtained show a 16.8% increase in specific fuel consumption at SIT as shown in Figure 4.21. Subsequently, the SFC at AIT further increases to 22.3% as indicated in Table 4.7B. What became apparent from the current study pertaining to the BF100 is that an inferior power output of approximately 25% less than that of the base diesel was obtained. Also, about 24% reduction in torque output was obtained. This high level of SFC is observed in comparison to the base diesel.

Under normal conditions it would be expected that when the SFC increases the power output should also increase, but in this instance, it is different. Observing the SFC in relation to the fuel flow, it is noted that the fuel flow of the BF100 reduced significantly. It is observed that as the flow rate decreases the SFC increases due to several factors already been mentioned in section 4.1, one being the fact that although it would be found that there is 16.6kg/h of fuel delivered, probably 10% of that is glycerol. As a result only 14.94kg/h is available for the combustion process.

Therefore, the high fuel consumption is the result of the glycerol residue in the fuel and the other contributing factor is the lower heat value of the vegetable oils.

4.4.2 Comparison of 50% blends of Biofuel with base diesel at 2600rpm

The results seen in Tables 4.7B, 4.8E and 4.8H show that the 50% fuel blends can be highly considered for practical applications due to the results obtained at AIT. The results obtained show an 8.2% increase in SFC which is still higher than that obtained by the base diesel. However, the BDJ50 obtained better results than BF50 and BDW50. Taking into consideration the results obtained for the SFC, the 50% blend fuel obtained fairly good results on other parameters such as power output, torque,

and exhaust temperature as already been discussed above. The following section will also show that even with the smoke opacity number, the 50% blend has shown good results. To be cost-effective, it may make more economic sense to employ 50% blends.

4.4.3 Comparison of 30% blends of Biofuel with base diesel at 2600rpm

At AIT the BDW30 and BDJ30 obtained similar results to those of the base diesel except the BF30 which still showed the higher SFC. It is clear that with more diesel content available in the fuel mixture, better results are obtained on the SFC.

The pattern seen with the SFC is what was anticipated to happen across all the parameters discussed in this chapter, but the results obtained with torque are marginally opposite. This then indicates that the power output is directly related to the SFC.

4.4.4 Comparison of 10% blends of Biofuel with base diesel at 2600rpm

The most remarkable results are seen at advanced injection timing where it is found that the SFC is much better than that of the base diesel at standard injection timing, as shown in Figure 4.26 and Tables 4.7H and 4.7I.

Although the 10% blends produced more acceptable results when it comes to power output, torque, and even SFC, its disadvantage is that the smoke number will be higher than that of other blends due to the diesel content available. Therefore, the 10% would not be the best option blend to select from, as it produced a higher smoke opacity number than other blends.

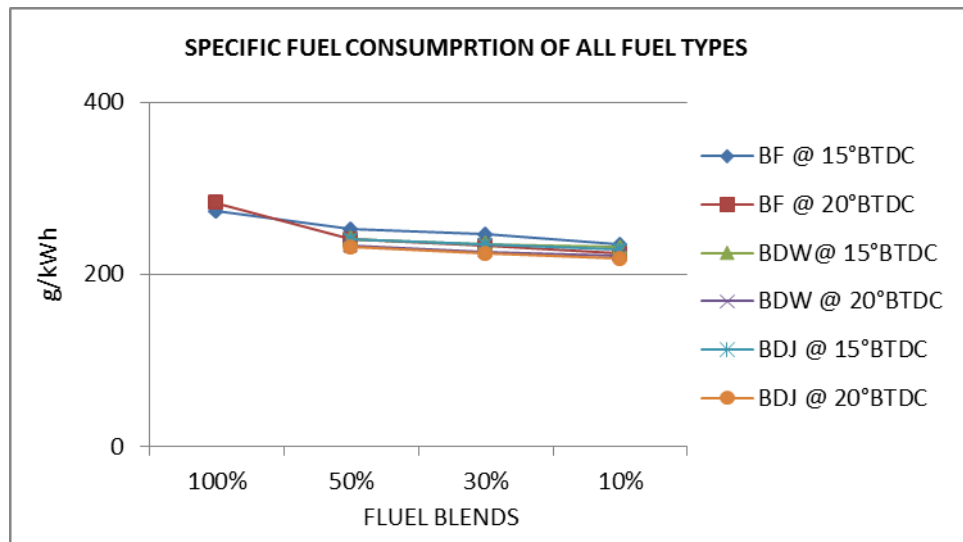


Figure 4.27: Specific fuel consumption for all fuel types at different injection timing parameters

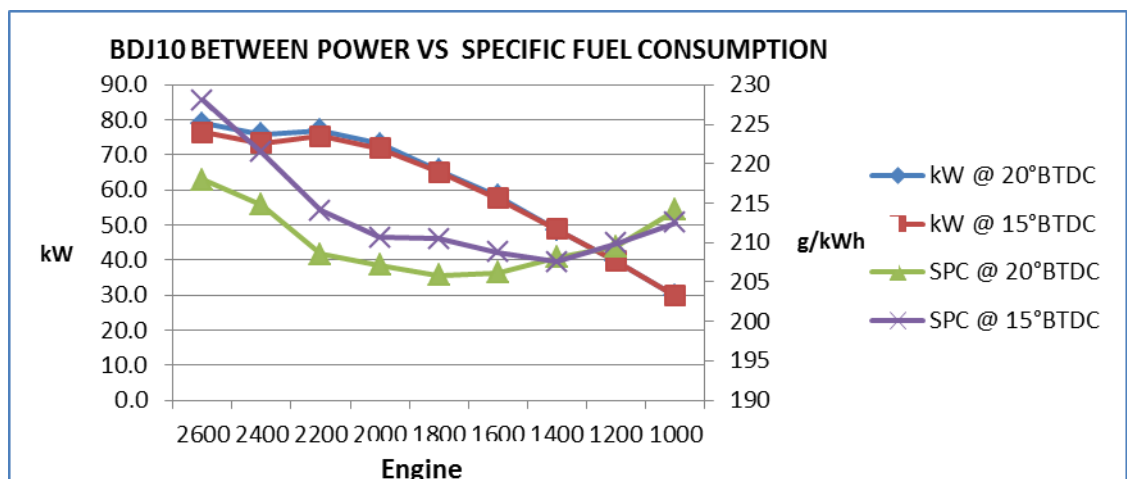


Figure 4.28: BDJ10 Power vs SFC at both injection timing

A trend evident in Figures 4.27 and 4.28 above shows that the specific fuel consumption at 20 °BTDC improved significantly when comparing it to the results obtained at 15°BTDC. Therefore, the advancement of the injection timing allows sufficient time for the combustion process, which then results in the greater improvement on the fuel consumption. Nazil and Al-Kayiem (2012: 2608) found similar results where they mentioned that the brake specific fuel consumption BSFC is a function of the speed, such that the BSFC decreases as the engine speed increases and reaches a minimum speed at 2500rpm and then increases with increasing speed for all fuel blends. At the same time, it can be found that BSFC also increases as the added percentage of sunflower oil increases, compared to the case of pure diesel. This is due to the lower heating value of the fuel blend. The engine

would consume more fuel in cases where the addition of sunflower oil is more than that of the pure diesel fuel to generate the same power output.

4.5 Smoke Opacity Number (Filter Smoke Number – FSN)

From Figure 4.29 to Figure 4.34 below show the specific fuel consumption results. It is noted that the SFC increases as the output power increases, thus SFC will be discussed at the maximum output power engine speed of 2600rpm.

The AVL Smoke Meter SZ-BOSCH DVM 6007 was used to obtain the smoke number. The method is described in Chapter 3.

It is noted from Figure 4.29 and Table 4.8 (A) that the BF30 blend has the highest smoke opacity number at most of the engine speeds compared to other fuels. The base diesel being the second highest, which obtained the average smoke opacity number of 1.62, although at 1200rpm and 2600rpm obtained smoke opacity numbers higher than that of an engine fuelled with 30% blend. The BF100 fuel obtained the lowest smoke opacity number at all engine speeds except at 1000rpm.

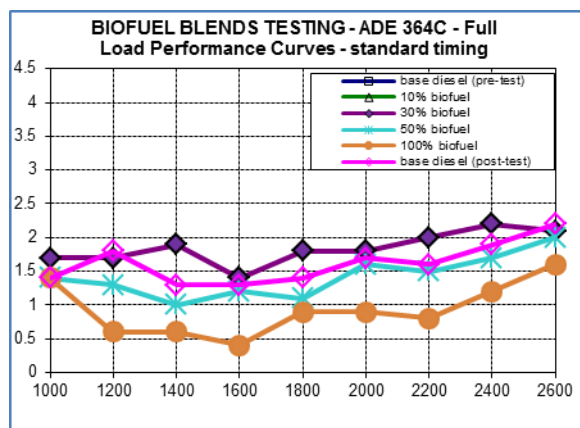


Figure 4.29: Engine fuelled with Bio-fuel at 15°TDBC

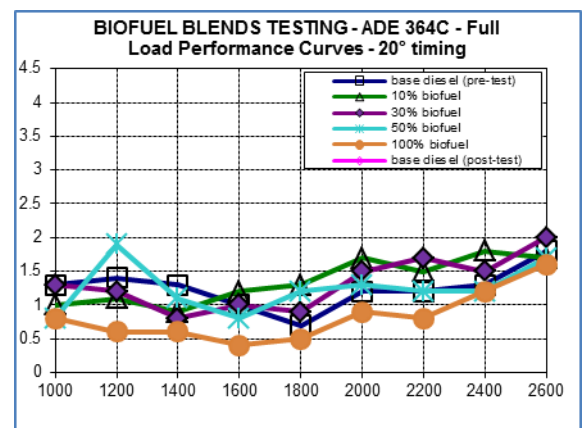


Figure 4.30: Engine fuelled with Bio-fuel at 20°TDBC

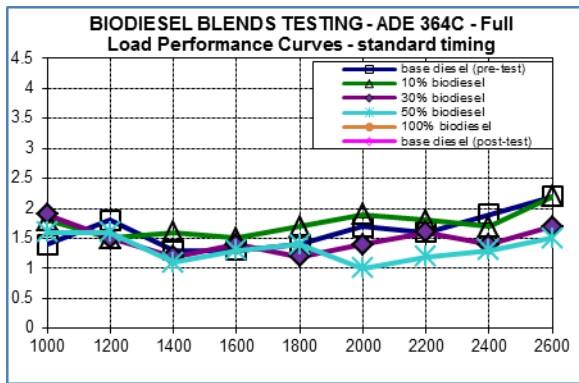


Figure 4.31: Engine fuelled with biodiesel at 15°TDBC

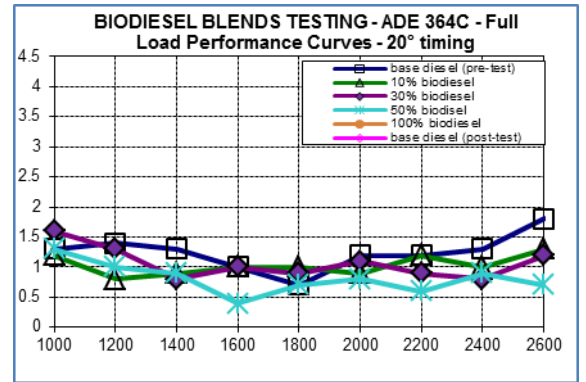


Figure 4.32: Engine fuelled with biodiesel at 20°TDBC

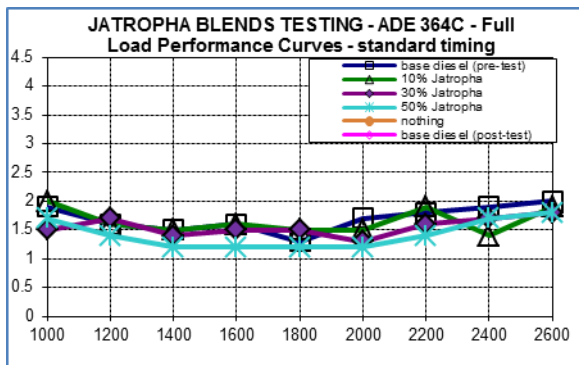


Figure 4.33: Engine fuelled with JO biodiesel at 15°TDBC

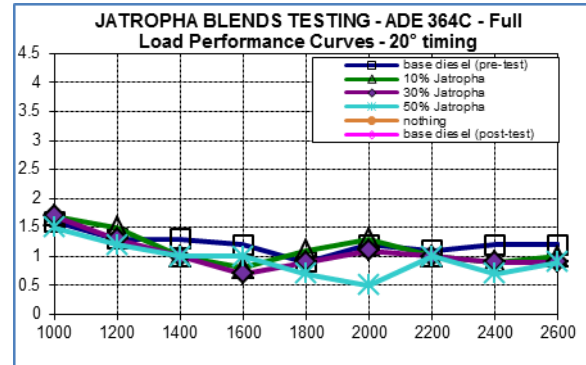


Figure 4.34: Engine fuelled with JO biodiesel at 20°TDBC

Table 4.8: Overall Smoke Opacity Number obtained from all different fuels at both different injection timing

15°BTDC TIMING RESULTS						20°BTDC TIMING RESULTS					
Smoke Opacity Number (A)						Smoke Opacity Number (B)					
Bio-fuel @ all RPM's						Bio-fuel @ all RPM's					
Base diesel	100%	50%	30%	10%	RPM	Base diesel	100%	50%	30%	10%	RPM
2.2	1.6	2	2.1		2600	1.8	1.6	1.7	2	1.7	2600
1.9	1.2	1.7	2.2		2400	1.3	1.2	1.2	1.5	1.8	2400
1.6	0.8	1.5	2		2200	1.2	0.8	1.2	1.7	1.5	2200
1.7	0.9	1.6	1.8		2000	1.2	0.9	1.3	1.5	1.7	2000
1.4	0.9	1.1	1.8		1800	0.7	0.5	1.2	0.9	1.3	1800
1.3	0.4	1.2	1.4		1600	1	0.4	0.8	1	1.2	1600
1.3	0.6	1	1.9		1400	1.3	0.6	1.1	0.8	0.9	1400
1.8	0.6	1.3	1.7		1200	1.4	0.6	1.9	1.2	1.1	1200
1.4	1.4	1.4	1.7		1000	1.3	0.8	0.8	1.3	1	1000
1.62	0.93	1.42	1.84			1.24	0.82	1.24	1.32	1.36	
Smoke Opacity Number (C)						Smoke Opacity Number (D)					
Bio-diesel Waste cooking oil @ all RPM's						Bio-diesel Waste cooking oil @ all RPM's					
Base diesel	100%	50%	30%	10%	RPM	Base diesel	100%	50%	30%	10%	RPM
2.2		1.5	1.7	2.2	2600	1.8		0.7	1.2	1.3	2600
1.9		1.3	1.4	1.7	2400	1.3		0.9	0.8	1	2400
1.6		1.2	1.6	1.8	2200	1.2		0.6	0.9	1.2	2200
1.7		1	1.4	1.9	2000	1.2		0.8	1.1	0.9	2000
1.4		1.4	1.2	1.7	1800	0.7		0.7	0.9	1	1800
1.3		1.3	1.4	1.5	1600	1		0.4	1	1	1600

1.3		1.1	1.2	1.6	1400	1.3		0.9	0.8	0.9	1400
1.8		1.6	1.5	1.5	1200	1.4		1	1.3	0.8	1200
1.4		1.6	1.9	1.8	1000	1.3		1.3	1.6	1.2	1000
1.62		1.33	1.48	1.74		1.24		0.81	1.07	1.03	
Smoke Opacity Number (E)						Smoke Opacity Number (F)					
Bio-diesel Jatropa oil @ All RPM's						Bio-diesel Jatropa oil @ All RPM's					
Base diesel	100%	50%	30%	10%	RPM	Base diesel	100%	50%	30%	10%	RPM
2		1.8	1.8	1.9	2600	1.2		0.9	0.9	1	2600
1.9		1.7	1.7	1.4	2400	1.2		0.7	0.9	0.9	2400
1.8		1.4	1.6	1.9	2200	1.1		1	1	1	2200
1.7		1.2	1.3	1.5	2000	1.2		0.5	1.1	1.3	2000
1.3		1.2	1.5	1.5	1800	0.9		0.7	0.9	1.1	1800
1.6		1.2	1.5	1.6	1600	1.2		1	0.7	0.8	1600
1.5		1.2	1.4	1.5	1400	1.3		1	1	1	1400
1.6		1.4	1.7	1.6	1200	1.3		1.2	1.3	1.5	1200
1.9		1.7	1.5	2	1000	1.6		1.5	1.7	1.7	1000
1.7		1.42	1.56	1.66		1.22		0.94	1.06	1.14	

Figure 4.30 and Table 4.8B above show that the smoke opacity number has improved compared to the results obtained at standard timing parameters. However, the base diesel seems to have the highest smoke values between 1000rpm and 1600rpm, but moderate smoke values between 1600rpm and 2600rpm that resulted in an average of 1.24. The same pattern is seen with the BF10 blend followed by BF30 blend. The BF50 has the most moderate trend besides one point that is completely out of range at 1200rpm, and a remarkable improvement is seen from the BF100 fuel which has the lowest smoke opacity number at all engine speeds besides at 1000rpm.

Figure 4.31 and Table 19C above show the smoke opacity number obtained with the engine fuelled with biodiesel produced from the waste cooking oil. It is noted that the BDW10 blend has the highest smoke opacity number at most of the engine speeds compared to other fuels resulting in the average of 1.74, which is higher than that of the base diesel, the latter being the second highest smoke opacity number average of 1.62. The BDW50 fuel obtained the lowest smoke opacity number average of 1.33, even lower than that of the BDW30 which obtained an average smoke opacity number of 1.48.

The smoke opacity number from the engine fuelled with biodiesel produced from waste cooking oil is presented in Figure 4.32 and Table 4.8D above. It is noted that the smoke opacity number has improved in all fuels compared to the results obtained at standard timing parameters. However, the base diesel seems to have the highest

smoke values at most of the engine speeds besides 1800rpm. The BDW10 blend followed with the average of 1.03 and then the BDW30 blend which obtained the average of 1.07. The BDW50 fuel has the lowest smoke opacity number of 0.81 on average and had the lowest smoke number at most of the engines speeds.

Figure 4.33 and Table 4.8E above show the smoke opacity number from the engine fuelled with biodiesel produced from Jatropha oil and it is noted that the different fuels run parallel to each other, but the BDW50 blend has the lowest smoke opacity number at most of the engine speeds.

A significant improvement is observed in Figure 4.34 and Table 4.8F above and it is noted that the smoke opacity number has improved compared to that at standard timing. All the fuels seem to follow the same trend with BDJ50 having a lower smoke opacity number of 0.94.

The improvement seen in the current study is similar to other studies conducted. Lapuerta et al. (2008: 736), obtained a large reduction in smoke opacity with the use of biodiesel and biodiesel blends. The soot reduction when using biodiesel is explained by the increase in oxygen content in the fuel which contributes to complete fuel oxidation even in locally rich zones. The lower final boiling point guarantees a complete evaporation of the liquid fuel. Ghobadian et al. (2009:9) also suggested that biodiesel contains oxygen in its structure. When the biodiesel is added to diesel fuel, the oxygen content of the blend increases and less oxygen is needed for combustion. However oxygen content of the fuel is the main reason for better combustion, CO and HC emission reduction.

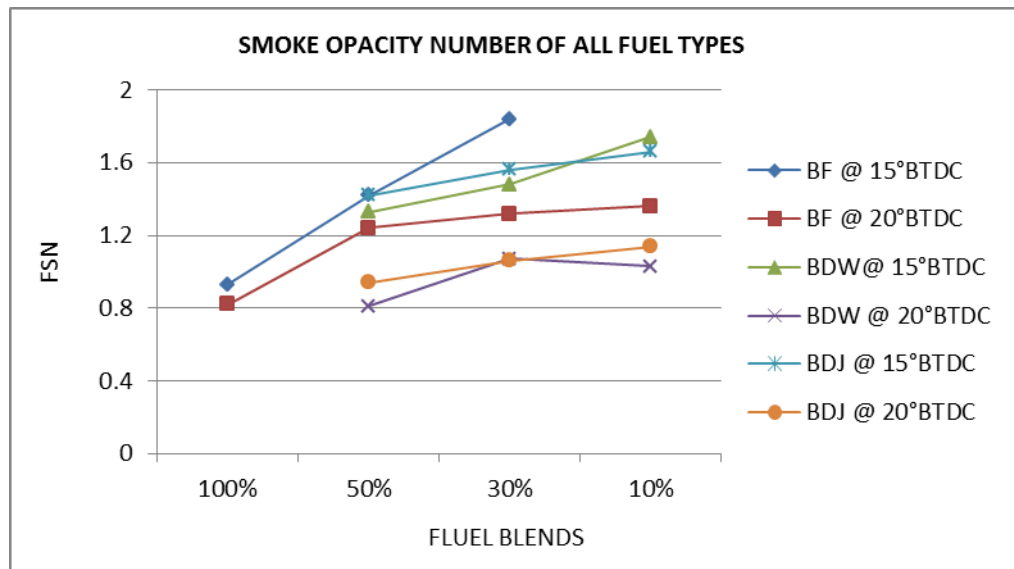


Figure 4.35: Fuel Flow for all fuel types at different injection timing parameters

Figure 4.35 above shows that the highest smoke numbers were obtained at 15°BTDC, the Biofuel blends showed the highest smoke numbers. The advancement of the injection timing did improve the smoke opacity number in all the fuels used for the current study. The biodiesel from the waste cooking oil produced the least smoke opacity number at AIT compared to other fuel types.

4.6 Chapter Summary

The results obtained from the current study are not very different from that obtained in other studies. Results for the current study corroborate findings made by Reddy and Ramesh (2006: 1999) that the power increases when the injection timing is changed to advanced parameters.

As far as torque is concerned the biodiesel from waste cooking oil showed the best results at 30% and 10%, and also demonstrated to be the best fuel blend in comparison to other blends.

Further similarities with other studies were observed with the exhaust temperature, Reddy and Ramesh (2006:1999) discovered that the variation in exhaust temperature was not significant with changes in the injection timing as found in this study.

The post compression pressure also decreased in all three types of biofuels. This decrease in post compression pressure was anticipated especially with regard to

biofuel blends based on the inferior power output obtained as less turbo boost produced less power.

Undesirable results were obtained with the specific fuel consumption at 20 °BTDC, but the results improved significantly when compared to the results obtained at 15°BTDC. Therefore, the advancement of the injection timing allows sufficient time for the combustion process, which then results in the greater improvement on the fuel consumption.

The current study shows that the highest smoke numbers were obtained at 15°BTDC. The advancement of the injection timing did improve the smoke opacity number in all the fuels used. The biodiesel from the waste cooking oil produced the least smoke opacity number at AIT compared to other fuel types.

CHAPTER FIVE CONCLUSIONS AND RECOMMENDATIONS

This chapter summarizes and concludes all the main findings from previous chapters.

5.1 Conclusions

This study involved the performance testing of a turbo charged, four cylinder engine fuelled with varying blends of Jatropha oil, waste cooking oil and fossil diesel. It is said that biodiesel is one of the alternative fuels which is renewable and environmentally friendly and can be used in diesel engines with little or no modification. This study proves that there are some differences between the diesel and biodiesel performance output, even though the biodiesel results showed very promising results. The power output, torque, exhaust temperature, fuel consumption and smoke opacity number summary is presented below:

5.1.1 Power output

The results obtained from the power output showed that the Jatropha fuel blends produced more power than other fuel types. At AIT the BDJ50 blend obtained 74.4kW and both BDW50 and BF50 produced 72.8kW and 70kW respectively. The same is observed where the BDJ30 blend obtained 76.6kW and both BDW30 and BF30 produced 73.6kW and 73W respectively. Furthermore, the power output obtained by BDJ10 was 79kW while the BDW10 blend obtained 78.6kW and the BF10 blend produced the least power output of 75kW compared to other fuel blends.

5.1.2 Torque

The injection timing did not make much improvement as seen in the power output results. The biodiesel from waste cooking oil showed the best results at 30% and 10% blends, and demonstrated the best fuel blend compared to other blends. Furthermore, the results obtained are similar to those obtained by Ghobadian et al.

(2009: 7) who found that the power and torque performance with fuel blends showed at trend similar to the neat diesel results.

5.1.3 Exhaust Temperature

Reddy and Ramesh (2006: 1999) discovered that the variation in exhaust temperature was not significant with changes in the injection timing. The current study findings concur with these findings, as the injection timing did not have significant changes on exhaust temperature. The exhaust temperatures produced by the base diesel obtained the highest temperature readings compared to all the different blends that were used in this study at both injection timing parameters. Chauhan et al. (2010:2490) concluded that exhaust temperature increases with the increase in brake power for each fuel.

5.1.4 Fuel Consumption

The specific fuel consumption at 20 °BTDC improved significantly when compared to the results obtained at 15°BTDC. Tesfa, Mishra, Zhang, Gu, and Ball (2013: 114) also noticed that when the density and viscosity of biodiesel are increased an increase in brake specific fuel consumption (BSFC) of a CI engine was observed. The use of the biodiesel has been seen to increase the BSFC up to 15% of the CI engine due to its low heating value, higher density and viscosity. However, Tesfa *et al.* (2013: 114) stated that this trend was seen to weaken as the proportion of the biodiesel reduces in the blend. The same transpired in the current study. Furthermore, the advancement of the injection timing allows sufficient time for the combustion process, which then results in the greater improvement on the fuel consumption.

5.1.8 Smoke Opacity Number

The highest smoke numbers were obtained at 15°BTDC, the biofuel blends showed the highest smoke numbers. The advancement of the injection timing improved the smoke opacity number in all the fuels used for this current study. It was observed

that the biodiesel from the waste cooking oil produced the least smoke opacity number at AIT compared to other fuel types.

5.1.9 Summary

The findings obtained from this research are positive, as it is seen that biodiesel has a competitive advantage to fossil diesel since the advancement of the injection timing did improve the power output and the smoke opacity (which is then a benefit to the environmental demands). Although the specific fuel consumption of the biodiesel is higher than that of the fossil diesel at both injection timing parameters, the injection advancement does improve it.

5.2 Recommendations

5.2.1 It is recommended that further investigation should be conducted on employing the 50% and 30% blends in a running diesel vehicle for longer periods of time to monitor effects of these blends on the operational efficiency of the fuel injectors and fuel pump.

5.2.2 It also recommended that a further investigation be conducted to verify the impact that the biofuel has on the mechanical components (fuel systems) of the engine, which components could experience a catastrophic failure, what design changes can be used to overcome those failures, and their cost implications.

5.2.3 The cost feasibility of a biodiesel production plant in South Africa needs to be undertaken in accordance with the South African Biofuel Regulatory Framework (Government Gazette No. 37232 Vol 583, of 15 January 2014).

5.2.4 It is highly recommended that the Engineering Faculty at the Cape Peninsula University of Technology provide capital investments for laboratory upgrades that will enable researchers to obtain more accurate biofuel production results and dynamometer tests.

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APPENDICES

APPENDIX A: BIOFUEL BLENDS TESTING – BASE DIESEL RESULTS

Speed	Torque	Corr Fact	Torque Corr	Power Corr	Humid	P Baro	P_Pre_Compressor	P_Post_Compressor	P Exh	P Oil Filter	P Cool In	P Cool Out	P_Fuel	T Air In	T Post Comp	T Exh	T Oil Sump	T Cool In	T Cool Out	T_Fuel	T_Cell	Fuel Mass	Fuel Flow	SFC	Smoke	
[rpm]	[Nm]	[ECE]	[Nm]	[kW]	[%]	[mBar]	[mBar]	[mBar]	[mBar]	[Bar]	[mBar]	[mBar]	[Bar]	[°C]	[°C]	[°C]	[°C]	[°C]	[°C]	[°C]	[°C]	[g]	[kg/h]	[g/kWh]	[FSN]	
15°BTDC - RESULTS																										
2600	275.5	1.007	277.3	75.7	45.2	997.0	995.1	973.9	10.2	5.1	90.8	502.5	1.2	24.4	110.2	491.6	105.5	76.5	80.9	25.6	33.4	475.9	17.4	232	2.20	
2400	292.1	1.008	294.3	74.1	45.2	997.0	995.2	884.3	9.2	4.9	88.0	446.2	1.3	24.7	104.0	489.7	106.7	75.6	80.1	25.2	33.5	406.4	16.2	221	1.90	
2200	321.3	1.008	323.5	74.5	45.4	997.1	995.2	822.2	12.8	4.7	90.5	398.2	1.2	24.6	99.1	505.8	106.7	75.3	80.1	24.8	34.0	471.3	16.0	218	1.60	
2000	339.4	1.008	341.8	72.0	45.5	997.1	995.2	706.1	14.5	4.5	92.2	356.2	1.1	24.7	91.5	520.1	105.2	74.7	79.8	24.1	34.0	385.4	15.1	212	1.70	
1800	346.8	1.008	349.4	66.1	45.5	997.1	995.2	618.5	7.7	4.2	94.4	318.6	1.1	24.7	85.8	518.2	104.6	74.7	80.0	24.2	34.0	459.2	13.7	210	1.40	
1600	348.3	1.008	351.2	58.8	45.5	997.1	995.2	521.8	1.1	3.9	98.6	286.3	1.2	24.7	79.1	505.2	102.4	74.4	79.9	24.4	34.2	432.9	12.1	207	1.30	
1400	335.1	1.008	337.9	49.6	45.5	997.1	995.1	411.6	-0.3	3.5	99.8	255.7	1.2	24.8	71.9	483.1	100.7	74.1	79.7	24.7	33.9	517.2	10.2	207	1.30	
1200	313.8	1.008	316.3	40.0	45.5	997.1	995.1	318.4	-0.5	3.1	102.0	230.1	1.4	24.7	64.5	459.5	98.2	74.3	79.9	25.0	33.8	534.6	8.3	209	1.80	
1000	278.3	1.008	280.5	29.7	45.5	997.1	994.9	195.8	0.1	2.6	102.5	205.6	1.3	24.7	57.4	426.7	96.3	74.3	79.9	25.5	33.6	545.4	6.2	212	1.40	
20°BTDC - RESULTS																										
2600	282.9	1.014	286.9	78.4	44.8	993.4	995.4	903.0	10.1	5.1	102.7	520.8	1.3	25.3	97.1	460.3	102.1	76.2	80.6	25.7	34.7	401.7	17.0	220	1.80	
2400	296.3	1.013	300.0	75.6	44.7	993.4	995.6	824.5	8.8	4.9	129.4	488.7	1.3	24.8	97.4	470.4	104.6	75.4	80.1	26.4	34.9	393.4	16.0	214	1.30	
2200	327.7	1.014	332.0	76.6	44.7	993.4	995.7	781.2	10.7	4.7	143.8	450.1	1.3	25.1	95.4	488.8	105.1	74.8	80.0	25.7	35.0	404.3	15.7	208	1.20	
2000	345.3	1.013	349.3	73.7	44.8	993.4	995.8	674.1	14.2	4.5	147.3	408.5	1.4	24.8	89.4	501.1	105.5	74.6	80.0	25.6	35.3	448.2	15.0	206	1.20	
1800	350.1	1.014	354.9	67.2	45.0	993.4	995.9	578.8	9.4	4.2	146.4	365.9	1.4	25.1	83.8	501.8	105.8	74.3	80.0	25.5	35.3	171.5	13.5	205	0.70	
1600	354.4	1.014	359.1	60.3	45.1	993.4	995.9	499.3	2.4	3.9	146.1	328.9	1.5	25.1	78.1	496.2	104.4	73.9	79.8	25.6	35.1	488.7	12.1	204	1.00	
1400	334.0	1.013	338.4	49.8	45.2	993.4	995.8	395.6	-0.1	3.4	154.9	305.3	1.5	24.9	71.4	479.1	103.3	73.7	79.9	25.6	35.1	245.1	10.2	208	1.30	
1200	313.7	1.013	317.8	40.2	45.2	993.3	995.8	301.0	0.8	3.0	159.3	280.7	1.4	24.9	64.7	456.8	101.5	73.6	79.7	25.3	35.4	505.8	8.2	207	1.40	
1000	276.0	1.014	279.7	29.7	45.1	993.4	995.8	182.9	0.7	2.4	157.6	255.5	1.3	25.1	59.1	429.6	99.9	73.4	79.8	25.4	35.4	385.8	6.2	212	1.30	

APPENDIX B: BIOFUEL BLENDS TESTING – BF10 BLEND

Speed	Torque	Corr Fact	Torque Corr	Power Corr	Humid	P Baro	P_Pre_Compressor	P_Post_Compressor	P Exh	P Oil Filter	P Cool In	P Cool Out	P_Fuel	T Air In	T Post Comp	T Exh	T Oil Sump	T Cool In	T Cool Out	T_Fuel	T_Cell	Fuel Mass	Fuel Flow	SFC	Smoke	
[rpm]	[Nm]	[ECE]	[Nm]	[kW]	[%]	[mBar]	[mBar]	[mBar]	[mBar]	[Bar]	[mBar]	[mBar]	[Bar]	[°C]	[°C]	[°C]	[°C]	[°C]	[°C]	[°C]	[°C]	[g]	[kg/h]	[g/kWh]	[FSN]	
15°BTDC - RESULTS																										
2600	265.9	1.009	267.7	73.2	45.2	997.2	994.9	951.9	9.9	5.1	88.8	501.0	1.4	25.0	108.7	484.8	104.6	76.6	81.0	26.0	32.7	184.6	16.9	234		
2400	277.6	1.008	280.0	70.4	45.2	997.2	995.0	844.9	8.5	4.9	88.1	445.8	1.3	24.9	102.1	480.9	106.5	75.7	80.1	25.6	32.8	420.4	15.9	227		
2200	302.7	1.008	305.3	70.3	45.4	997.2	994.9	774.1	11.5	4.7	91.2	397.8	1.3	24.9	95.6	491.1	105.8	75.3	80.0	25.1	32.8	473.3	15.5	222		
2000	320.6	1.009	323.8	68.2	45.5	997.3	994.9	663.0	13.9	4.5	96.2	359.6	1.3	25.1	87.9	503.9	104.6	75.0	80.0	24.6	32.9	391.1	14.7	218		
1800	328.8	1.009	331.8	62.7	45.5	997.4	994.9	582.0	7.9	4.3	102.2	325.7	1.3	25.1	83.0	503.1	103.7	74.8	80.1	24.3	33.0	427.2	13.4	215		
1600	339.0	1.009	341.8	57.3	45.6	997.4	994.8	503.0	1.4	3.9	108.5	295.4	1.4	25.0	77.5	492.5	102.3	74.4	79.8	24.2	32.8	424.7	12.1	213		
1400	327.6	1.009	330.6	48.6	45.7	997.4	994.7	399.0	-0.8	3.5	113.9	268.6	1.4	25.1	69.8	470.3	100.2	74.5	80.1	24.2	32.6	490.3	10.2	213		
1200	308.5	1.008	311.1	39.3	45.6	997.4	994.6	311.7	-0.5	3.0	113.9	241.4	1.5	24.9	63.5	450.9	98.2	74.1	79.8	24.3	32.5	508.0	8.4	215		
1000	275.6	1.008	277.9	29.5	45.7	997.4	994.4	187.6	0.2	2.6	113.1	215.7	1.4	24.9	56.1	418.7	96.3	74.1	79.8	24.6	31.9	529.0	6.4	218		
20°BTDC - RESULTS																										
2600	271.8	1.010	274.5	75.0	44.3	995.1	995.2	874.5	8.7	5.1	77.0	494.3	1.3	24.8	101.7	474.5	103.3	77.2	82.0	25.9	33.4	390.5	16.6	224	1.70	
2400	283.4	1.010	286.2	72.1	44.3	995.1	995.2	776.8	7.3	4.9	88.5	448.6	1.3	24.7	96.0	471.6	105.9	75.4	80.2	26.5	33.1	334.7	15.7	220	1.80	
2200	313.6	1.010	316.7	73.0	44.3	995.2	995.2	726.3	9.4	4.7	109.0	416.9	1.3	24.6	91.7	485.2	105.7	75.1	80.1	25.8	33.2	348.7	15.7	217	1.50	
2000	326.0	1.010	329.1	69.4	44.4	995.2	995.2	616.2	13.3	4.5	118.7	383.7	1.3	24.6	84.7	495.0	104.8	74.7	79.9	25.5	33.2	402.5	14.7	214	1.70	
1800	333.0	1.010	336.5	63.7	44.5	995.2	995.1	526.5	8.8	4.2	123.8	346.6	1.3	24.8	78.4	495.7	104.5	74.5	79.9	24.8	33.0	471.0	13.3	210	1.30	
1600	338.9	1.010	342.5	57.5	44.5	995.2	995.1	464.6	2.1	3.9	131.2	319.2	1.4	24.8	73.8	486.9	103.1	74.3	80.0	24.4	33.2	388.5	12.0	211	1.20	
1400	324.1	1.010	327.3	48.1	44.5	995.1	995.2	372.3	-1.5	3.5	132.4	284.9	1.4	24.7	67.8	471.6	101.9	74.0	79.9	24.0	33.2	467.4	10.1	212	0.90	
1200	307.9	1.010	311.0	39.4	44.4	995.1	995.0	290.1	-0.1	3.0	130.9	255.1	1.4	24.8	62.5	454.7	100.8	73.9	79.8	24.1	33.0	275.8	8.3	214	1.10	
1000	274.6	1.011	277.9	29.5	44.3	995.1	994.9	182.6	-0.2	2.5	128.0	224.9	1.4	25.1	56.4	426.7	98.7	73.7	79.7	24.5	32.8	129.1	6.3	217	1.00	

APPENDIX C: BIOFUEL BLENDS TESTING – BF30 BLEND

Speed	Torque	Corr Fact	Torque Corr	Power Corr	Humid	P Baro	P_Pre_Compressor	P_Post_Compressor	P Exh	P Oil Filter	P Cool In	P Cool Out	P_Fuel	T Air In	T Post Comp	T Exh	T Oil Sump	T Cool In	T Cool Out	T_Fuel	T_Cell	Fuel Mass	Fuel Flow	SFC	Smoke	
[rpm]	[Nm]	[ECE]	[Nm]	[kW]	[%]	[mBar]	[mBar]	[mBar]	[mBar]	[Bar]	[mBar]	[mBar]	[Bar]	[°C]	[°C]	[°C]	[°C]	[°C]	[°C]	[°C]	[°C]	[g]	[kg/h]	[g/kWh]	[FSN]	
15°BTDC - RESULTS																										
2600	246.0	1.024	251.3	68.9	45.4	991.4	996.9	876.3	8.7	5.0	47.9	480.4	1.4	27.5	105.4	469.2	106.2	76.3	80.5	29.5	39.5	265.9	16.5	246	2.1	
2400	258.2	1.024	264.6	66.7	45.5	991.3	997.1	775.3	7.9	4.9	54.0	429.8	1.4	27.3	99.5	465.9	107.8	75.7	79.9	29.4	39.5	423.4	15.5	239	2.2	
2200	283.6	1.022	290.1	67.0	45.8	991.3	997.1	717.9	10.5	4.7	61.2	383.6	1.3	26.8	94.6	476.3	107.2	75.2	79.8	29.2	39.8	422.5	15.2	232	2.0	
2000	301.4	1.020	307.6	65.0	46.2	991.3	997.0	618.7	14.2	4.5	67.6	345.8	1.4	26.2	87.3	486.4	106.4	75.1	80.0	28.8	39.8	363.1	14.4	227	1.8	
1800	314.2	1.019	320.2	60.8	46.5	991.3	997.1	546.6	9.0	4.3	73.8	310.3	1.4	25.7	82.1	490.1	105.1	74.8	80.0	28.4	40.0	407.8	13.3	224	1.8	
1600	322.2	1.018	328.1	55.2	46.6	991.3	997.1	475.5	2.8	4.0	79.3	278.1	1.4	25.5	77.0	478.6	103.8	75.1	80.4	28.0	40.0	386.9	12.0	221	1.4	
1400	315.6	1.018	321.1	47.4	46.7	991.2	997.2	378.7	-0.5	3.5	83.7	248.0	1.5	25.3	70.5	459.3	101.7	74.6	79.6	27.6	40.2	509.6	10.2	220	1.9	
1200	292.7	1.017	298.0	37.8	46.9	991.3	996.9	276.4	-0.2	2.9	87.3	216.5	1.5	25.0	63.4	436.3	99.7	73.6	80.0	27.3	39.8	446.0	8.0	216	1.7	
1000	242.9	1.016	247.6	26.5	47.0	991.2	996.8	126.5	2.2	2.3	88.2	187.0	1.4	24.9	55.1	386.2	96.7	73.0	79.4	26.9	39.4	398.2	5.4	208	1.7	
20°BTDC - RESULTS																										
2600	264.8	1.011	267.7	73.0	45.6	994.6	994.2	848.1	7.4	5.1	86.2	498.6	1.4	24.6	99.8	467.6	104.0	76.2	80.9	25.6	30.4	240.2	16.9	233	2.0	
2400	274.8	1.011	278.2	69.9	45.6	994.7	994.2	748.6	5.8	4.9	102.3	460.9	1.4	24.6	93.9	463.3	106.0	75.5	80.1	25.1	30.4	354.5	15.8	228	1.5	
2200	300.7	1.010	304.0	70.0	45.6	994.6	994.2	688.5	7.6	4.7	126.6	432.1	1.4	24.4	89.0	473.2	105.3	75.1	80.1	24.9	30.4	322.1	15.4	223	1.7	
2000	315.2	1.011	318.8	67.1	45.7	994.6	994.2	588.4	11.3	4.5	135.6	396.2	1.4	24.6	81.9	482.4	104.2	74.9	79.9	24.4	30.5	402.7	14.5	219	1.5	
1800	323.8	1.011	327.5	61.9	45.7	994.6	994.2	506.3	7.8	4.3	144.9	364.4	1.4	24.7	76.0	484.1	104.0	74.8	80.0	24.2	30.8	403.0	13.3	218	0.9	
1600	329.9	1.011	333.4	55.8	45.7	994.6	994.2	444.5	1.2	3.9	150.1	332.3	1.4	24.6	71.6	474.8	102.5	74.3	79.9	23.9	30.6	426.7	12.0	217	1.0	
1400	315.1	1.011	318.6	46.7	45.7	994.6	994.2	354.6	-2.8	3.5	149.3	299.0	1.5	24.7	65.8	460.1	100.9	74.1	79.9	24.0	30.8	183.7	10.1	219	0.8	
1200	298.7	1.011	302.0	38.1	45.6	994.7	994.2	275.6	-1.1	3.0	142.6	263.8	1.5	24.7	59.7	440.6	99.6	74.1	79.9	24.0	30.8	508.3	8.3	221	1.2	
1000	268.7	1.011	271.7	28.7	45.6	994.6	994.1	176.7	-1.3	2.5	139.7	235.4	1.4	24.8	54.0	413.7	96.9	73.9	79.7	24.2	30.6	346.6	6.4	226	1.3	

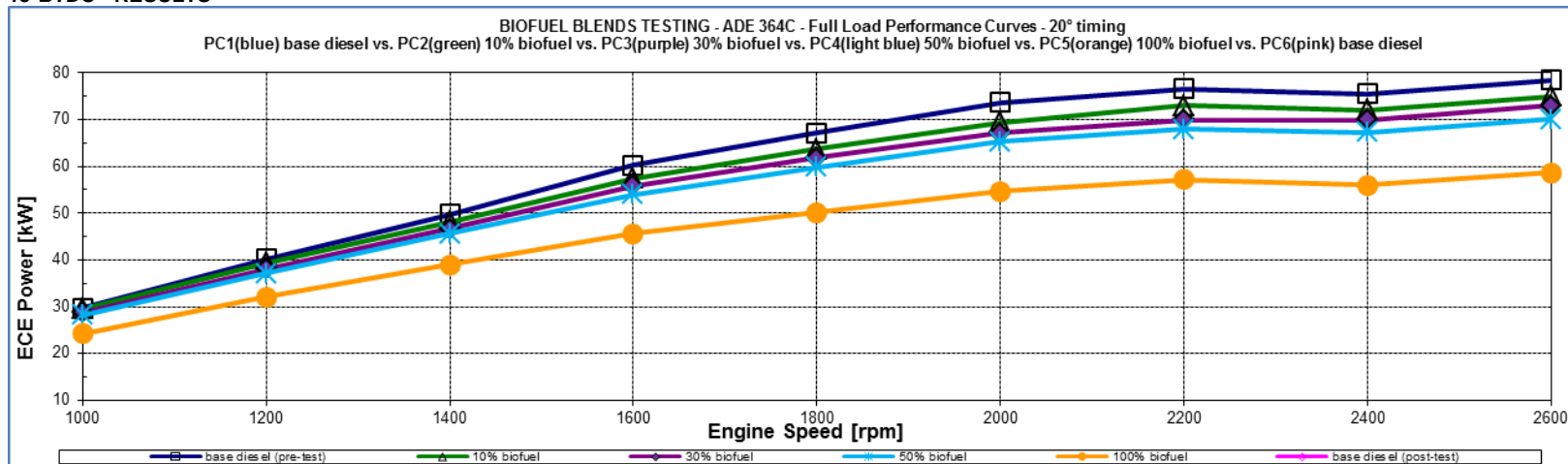
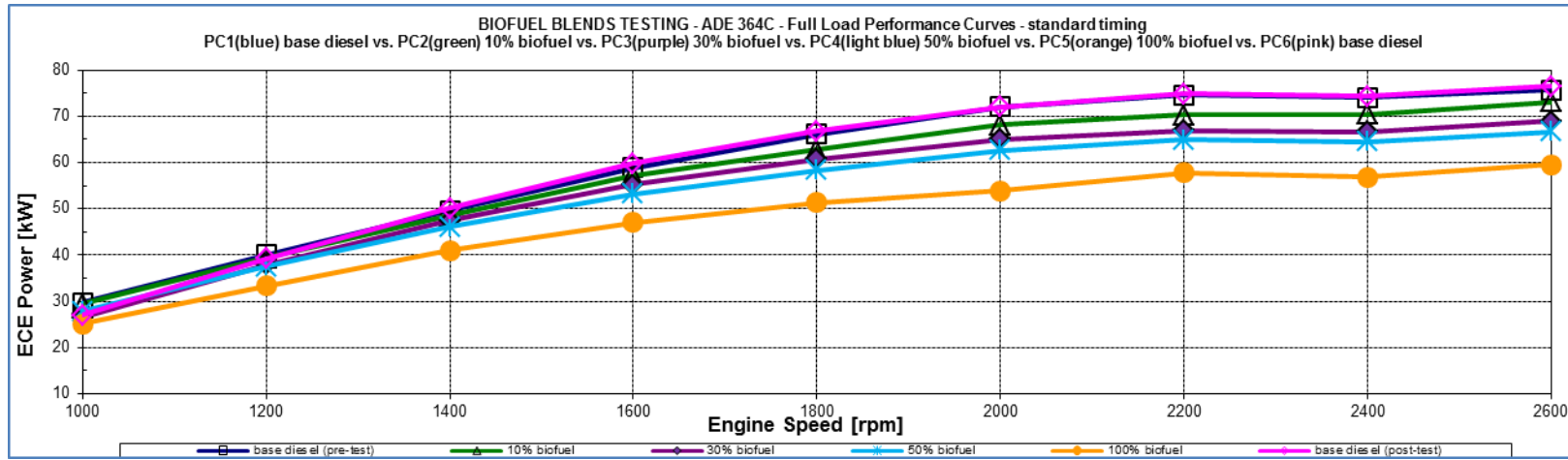
APPENDIX D: BIOFUEL BLENDS TESTING – BF50 BLEND

Speed	Torque	Corr Fact	Torque Corr	Power Corr	Humid	P Baro	P_Pre_Compressor	P_Post_Compressor	P Exh	P Oil Filter	P Cool In	P Cool Out	P_Fuel	T Air In	T Post Comp	T Exh	T Oil Sump	T Cool In	T Cool Out	T_Fuel	T_Cell	Fuel Mass	Fuel Flow	SFC	Smoke	
[rpm]	[Nm]	[ECE]	[Nm]	[kW]	[%]	[mBar]	[mBar]	[mBar]	[mBar]	[Bar]	[mBar]	[mBar]	[Bar]	[°C]	[°C]	[°C]	[°C]	[°C]	[°C]	[°C]	[°C]	[g]	[kg/h]	[g/kWh]	[FSN]	
15°BTDC - RESULTS																										
2600	238.6	1.020	243.6	66.7	46.9	990.9	997.5	847.6	9.3	5.0	24.3	454.8	1.5	25.8	101.6	458.9	106.4	76.3	80.4	27.8	40.5	413.1	16.4	252	2.0	
2400	250.9	1.018	255.8	64.5	47.0	990.9	997.4	758.9	8.1	4.9	35.5	410.3	1.4	25.3	96.1	456.4	108.2	75.8	79.9	28.3	40.6	399.1	15.4	244	1.7	
2200	276.0	1.017	280.9	64.9	47.4	990.9	997.4	703.0	10.5	4.7	43.3	364.5	1.4	24.9	90.7	465.0	107.0	75.5	80.0	28.3	40.6	405.7	15.0	236	1.5	
2000	291.4	1.018	296.0	62.7	47.6	990.9	997.4	594.5	14.0	4.5	59.0	335.3	1.4	25.1	84.3	472.3	106.1	75.4	80.0	28.0	40.3	402.1	14.2	231	1.6	
1800	301.3	1.018	307.0	58.3	47.7	990.9	997.2	513.1	9.5	4.3	65.5	299.9	1.5	25.1	78.5	474.6	104.4	75.1	80.0	27.7	40.3	331.4	13.1	228	1.1	
1600	310.7	1.017	316.0	53.2	47.8	990.9	997.2	451.1	3.4	4.0	72.5	269.3	1.5	25.0	74.2	464.2	103.5	75.0	80.0	27.6	40.2	432.8	11.9	226	1.2	
1400	307.2	1.018	312.5	46.2	47.8	990.9	997.1	363.7	-0.5	3.6	78.0	241.3	1.5	25.1	67.9	446.3	100.8	74.6	79.9	27.1	40.0	509.2	10.2	226	1.0	
1200	289.5	1.018	294.3	37.5	47.9	990.9	996.9	284.1	1.2	3.1	79.8	214.1	1.6	25.1	62.3	427.1	99.1	74.7	79.9	26.8	39.8	507.6	8.4	228	1.3	
1000	256.0	1.018	260.7	27.9	47.9	990.9	996.9	168.8	1.2	2.6	78.6	185.7	1.5	25.1	55.8	394.2	96.2	74.5	79.8	26.6	39.5	280.0	6.3	229	1.4	
20°BTDC - RESULTS																										
2600	253.1	1.012	256.5	70.0	44.7	994.5	994.8	808.2	7.3	5.1	105.2	522.4	1.4	25.2	97.6	458.2	103.9	76.7	81.5	26.2	31.9	466.5	16.6	240	1.7	
2400	264.2	1.012	267.5	67.3	44.7	994.5	994.9	715.4	5.8	4.9	116.2	479.7	1.5	25.1	92.0	454.2	106.0	75.8	80.4	26.2	32.3	383.0	15.5	233	1.2	
2200	291.4	1.012	294.9	67.9	44.8	994.5	994.8	663.4	7.1	4.7	140.4	453.2	1.4	24.9	87.1	464.3	105.4	75.1	79.9	25.6	32.2	404.6	15.3	228	1.2	
2000	305.9	1.012	309.5	65.2	44.9	994.5	994.9	566.8	11.2	4.5	153.2	416.9	1.5	25.1	80.5	473.9	104.8	75.0	80.1	25.1	32.4	405.6	14.5	225	1.3	
1800	312.3	1.012	316.2	59.8	44.9	994.5	994.8	478.6	8.1	4.3	154.4	374.9	1.5	25.1	74.7	474.4	104.0	74.9	79.9	24.8	32.3	499.6	13.2	223	1.2	
1600	318.7	1.012	322.6	54.1	45.0	994.5	994.7	422.6	1.8	3.9	159.4	341.8	1.6	25.0	70.8	465.6	102.8	74.4	79.9	24.6	32.3	240.3	11.9	223	0.8	
1400	306.5	1.013	310.5	45.6	45.0	994.4	994.7	342.0	-2.6	3.5	153.8	304.4	1.6	25.2	65.0	451.7	100.9	74.3	79.9	24.4	32.4	477.4	10.2	226	1.1	
1200	290.4	1.012	293.8	37.1	45.0	994.4	994.7	267.3	-0.5	3.0	147.5	269.4	1.6	25.0	60.0	434.9	100.0	74.4	80.0	24.0	32.3	269.0	8.4	229	1.9	
1000	262.7	1.013	265.8	28.2	45.0	994.3	994.5	171.1	-1.2	2.6	134.7	231.8	1.5	25.2	52.9	402.0	96.2	74.0	79.7	23.8	32.2	455.9	6.5	235	0.8	

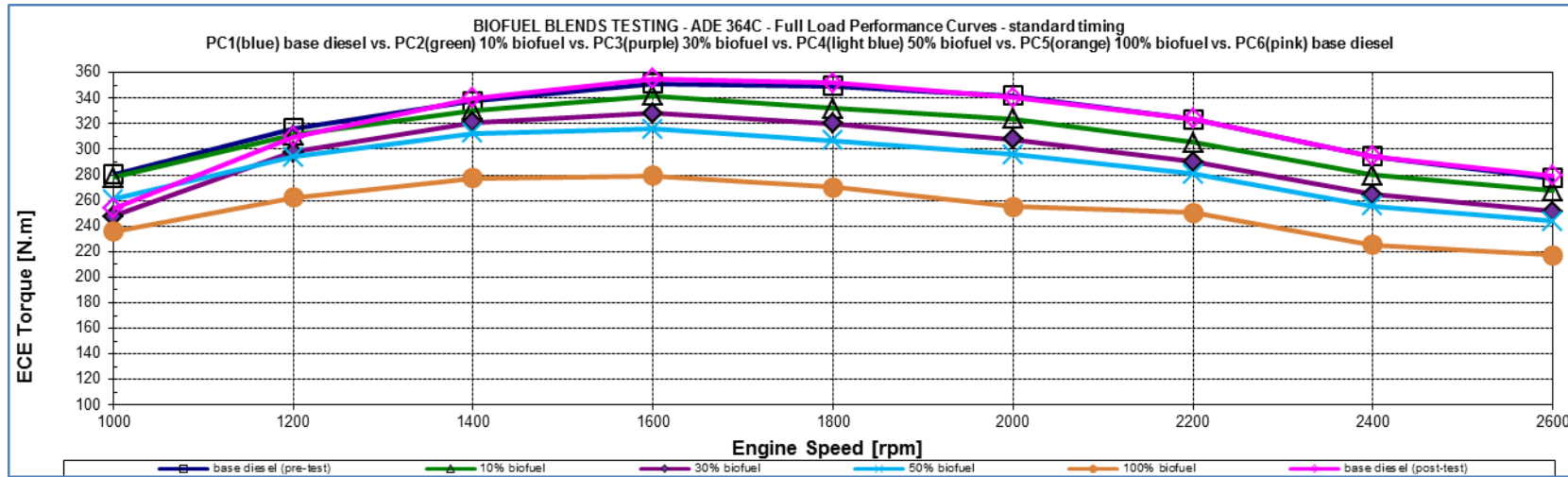
APPENDIX E: BIOFUEL BLENDS TESTING – BF100 BLEND

Speed	Torque	Corr Fact	Torque Corr	Power Corr	Humid	P Baro	P_Pre_Compressor	P_Post_Compressor	P Exh	P Oil Filter	P Cool In	P Cool Out	P_Fuel	T Air In	T Post Comp	T Exh	T Oil Sump	T Cool In	T Cool Out	T_Fuel	T_Cell	Fuel Mass	Fuel Flow	SFC	Smoke
[rpm]	[Nm]	[ECE]	[Nm]	[kW]	[%]	[mBar]	[mBar]	[mBar]	[mBar]	[Bar]	[mBar]	[mBar]	[Bar]	[°C]	[°C]	[°C]	[°C]	[°C]	[°C]	[°C]	[°C]	[g]	[kg/h]	[g/kWh]	[FSN]
15°BTDC - RESULTS																									
2600	213.2	1.019	217.2	59.5	48.6	990.8	997.1	750.6	8.0	5.1	35.5	465.9	1.4	25.4	93.4	433.9	105.3	76.3	80.2	29.8	39.8	450.3	15.9	273	1.60
2400	221.0	1.018	225.3	56.8	48.8	990.8	997.1	662.2	6.8	5.0	49.7	423.1	1.5	25.0	87.9	429.8	106.4	76.2	80.0	30.2	39.8	244.1	14.7	263	1.20
2200	245.3	1.018	250.2	57.8	49.1	990.8	997.2	609.4	8.2	4.7	60.0	380.7	1.5	25.0	83.9	439.2	105.7	75.9	80.0	28.9	40.0	384.0	14.5	256	0.80
2000	249.9	1.019	255.3	53.9	49.2	990.7	997.2	494.9	10.9	4.6	73.2	349.1	1.5	25.1	76.3	437.2	103.9	75.6	79.9	28.1	40.2	298.8	13.3	252	0.90
1800	264.9	1.019	270.4	51.3	49.2	990.7	997.2	424.1	8.6	4.4	81.4	315.6	1.5	25.1	71.2	441.7	102.8	75.7	80.0	28.0	40.2	402.6	12.6	250	0.90
1600	274.1	1.018	279.1	47.0	49.3	990.7	997.1	370.0	3.7	4.1	88.0	284.5	1.6	24.9	67.2	428.0	101.7	75.3	80.0	27.7	40.1	389.3	11.3	244	0.40
1400	272.5	1.019	277.6	41.0	49.3	990.6	996.9	305.9	-0.8	3.7	95.9	258.9	1.6	25.1	62.3	413.9	99.6	75.1	79.9	27.4	39.7	483.6	9.9	247	0.60
1200	257.6	1.018	262.4	33.4	49.3	990.6	996.9	237.4	1.1	3.1	100.6	232.8	1.6	24.9	58.1	397.6	97.9	74.9	79.9	27.0	39.6	220.9	8.0	246	0.60
1000	230.7	1.018	235.9	25.1	49.3	990.6	996.7	144.8	0.9	2.6	101.8	208.0	1.6	25.0	53.7	371.6	95.9	75.0	80.0	26.9	39.5	484.2	6.4	259	1.40
20°BTDC - RESULTS																									
2600	212.2	1.012	214.7	58.6	44.7	994.2	994.9	652.8	6.1	5.1	85.8	508.8	1.4	24.9	85.0	418.0	101.9	78.0	82.3	25.5	32.9	244.3	16.4	283	1.60
2400	219.5	1.012	222.2	55.9	44.8	994.2	995.1	566.6	5.0	5.0	90.9	455.0	1.5	24.9	79.9	412.1	105.6	75.7	80.0	25.8	33.2	250.4	15.3	277	1.20
2200	245.2	1.012	248.2	57.2	44.9	994.2	995.0	530.1	5.0	4.8	105.1	414.0	1.5	24.9	76.8	421.4	104.9	75.6	80.0	25.8	33.1	217.7	15.2	269	0.80
2000	256.0	1.012	259.6	54.7	44.9	994.2	995.0	450.8	7.6	4.6	115.5	380.0	1.5	25.0	71.0	425.8	104.3	75.4	80.0	25.5	33.1	271.8	14.2	264	0.90
1800	261.8	1.013	265.2	50.2	44.9	994.1	995.1	369.5	6.9	4.3	124.2	346.7	1.6	25.1	65.9	425.7	103.4	74.9	79.8	25.4	33.3	304.0	13.1	264	0.50
1600	268.8	1.012	272.0	45.6	45.0	994.1	994.9	328.6	3.1	4.0	128.3	313.8	1.7	24.8	62.7	417.1	102.1	75.1	80.1	25.1	33.3	344.5	11.8	263	0.40
1400	262.6	1.012	265.9	39.1	44.9	994.1	995.0	271.7	-2.0	3.6	132.4	283.9	1.6	25.0	58.8	404.7	100.3	74.6	79.9	24.8	33.4	510.9	10.3	266	0.60
1200	251.0	1.012	254.1	32.1	44.9	994.1	995.0	214.7	0.1	3.1	135.8	257.3	1.7	24.9	55.6	392.5	99.8	74.5	79.9	24.7	33.3	346.6	8.5	269	0.60
1000	226.0	1.013	229.1	24.3	44.9	994.1	994.9	136.9	-1.4	2.6	131.0	226.3	1.5	25.2	50.6	363.1	97.1	74.3	79.8	24.1	33.0	154.5	6.6	275	0.80

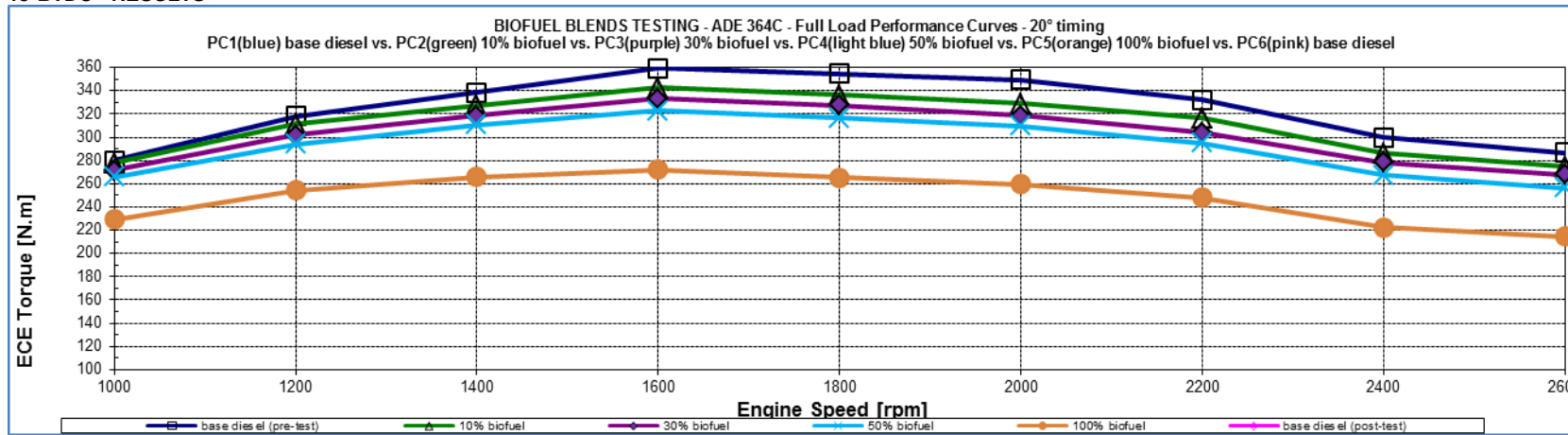
APPENDIX F: BIOFUEL BLENDS TESTING – POWER OUTPUT



APPENDIX G: BIOFUEL BLENDS TESTING – TORQUE

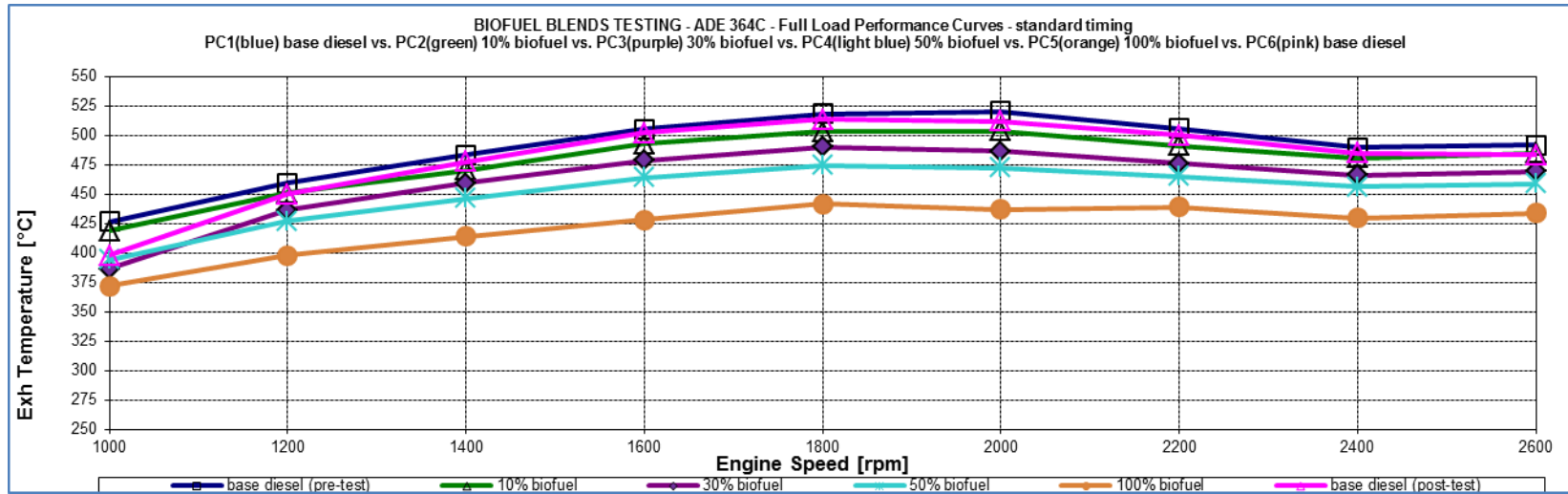


15°BTDC - RESULTS

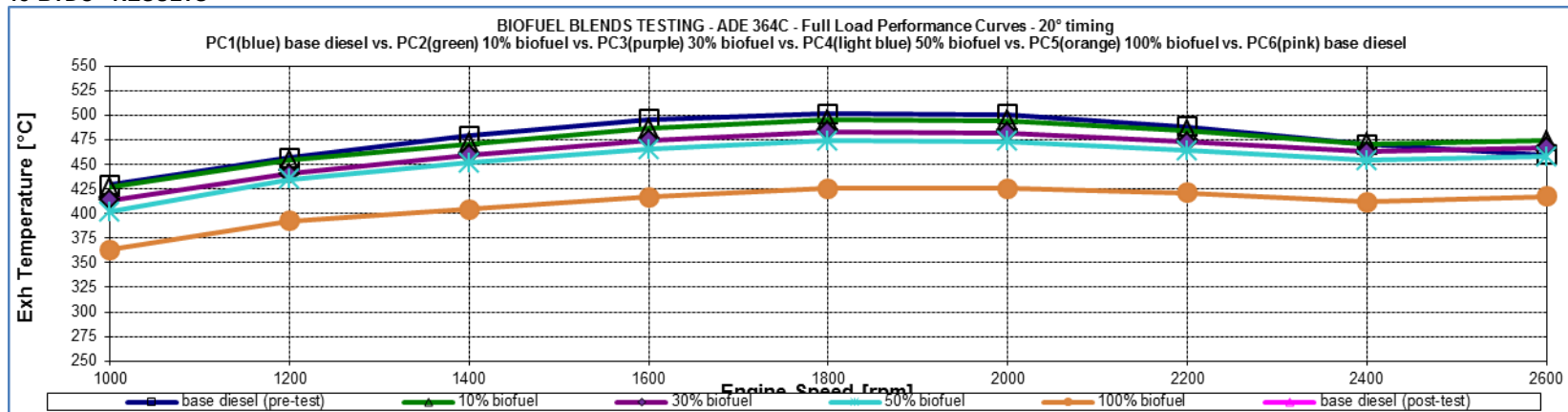


20°BTDC - RESULTS

APPENDIX H: BIOFUEL BLENDS TESTING – EXHAUST TEMPERATURE

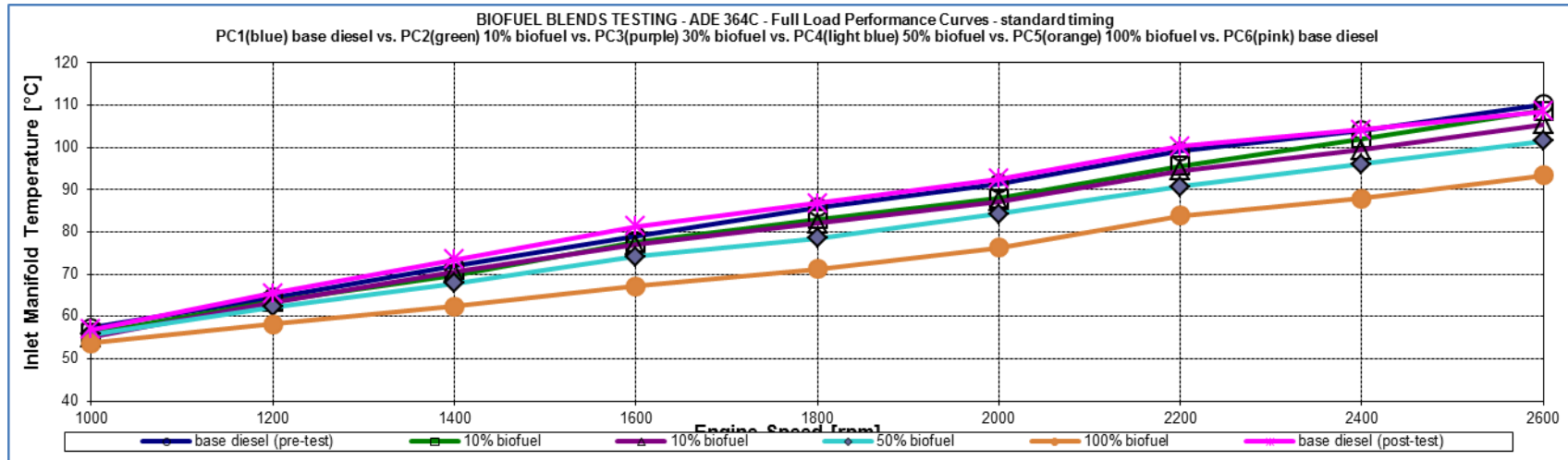


15°BTDC - RESULTS

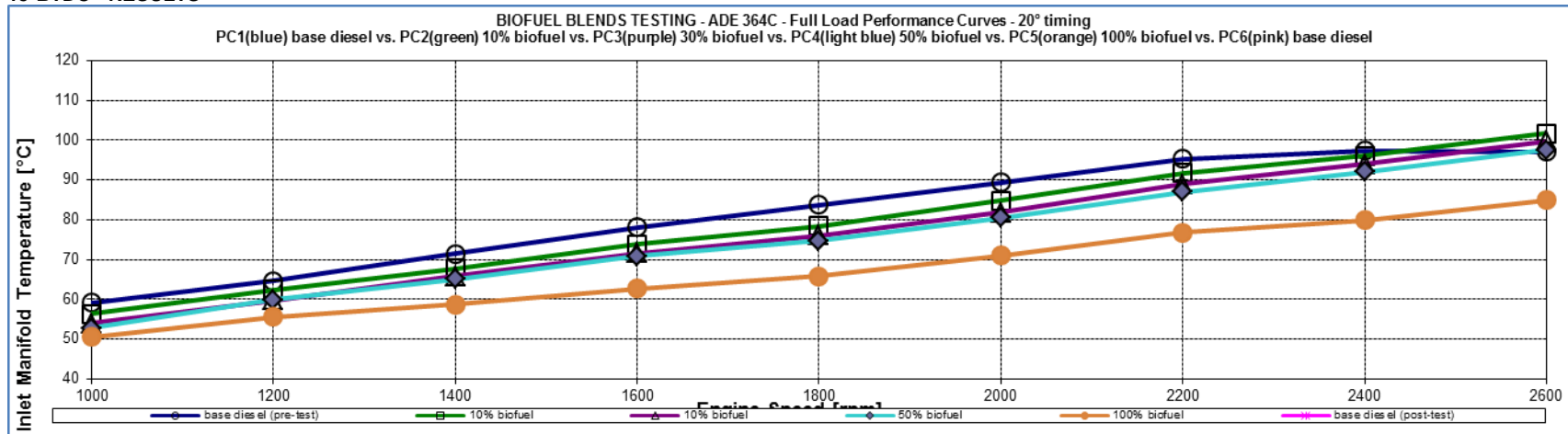


20°BTDC - RESULTS

APPENDIX I: BIOFUEL BLENDS TESTING – INLET MANIFOLD TEMPERATURE

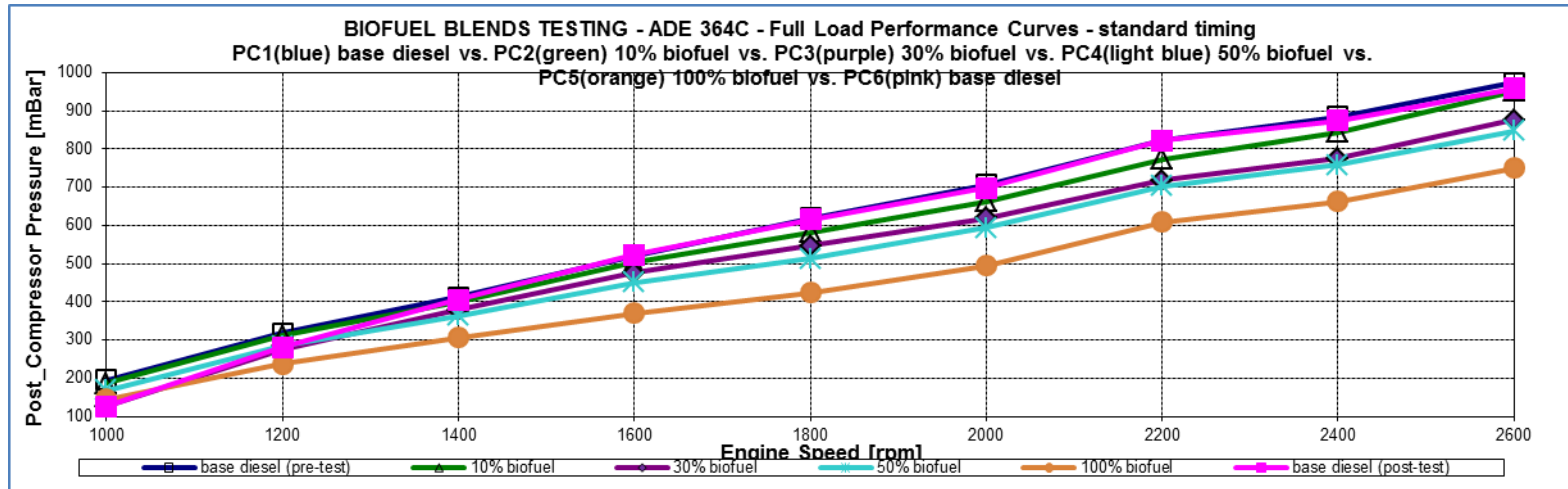


15°BTDC - RESULTS

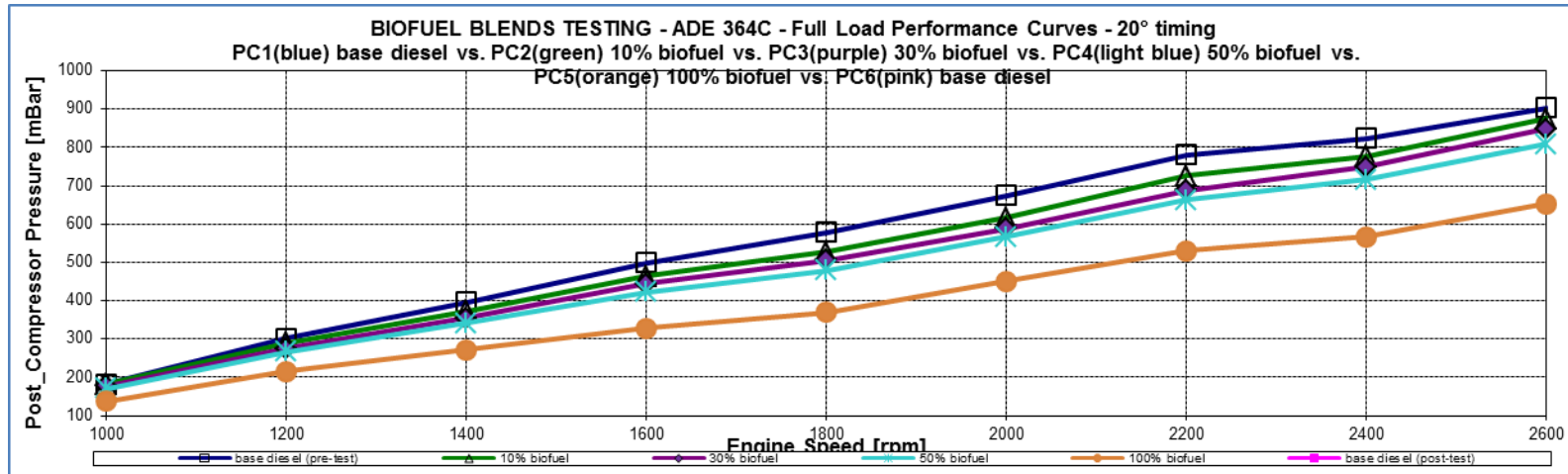


20°BTDC - RESULTS

APPENDIX J: BIOFUEL BLENDS TESTING – POST COMPRESSOR PRESSURE

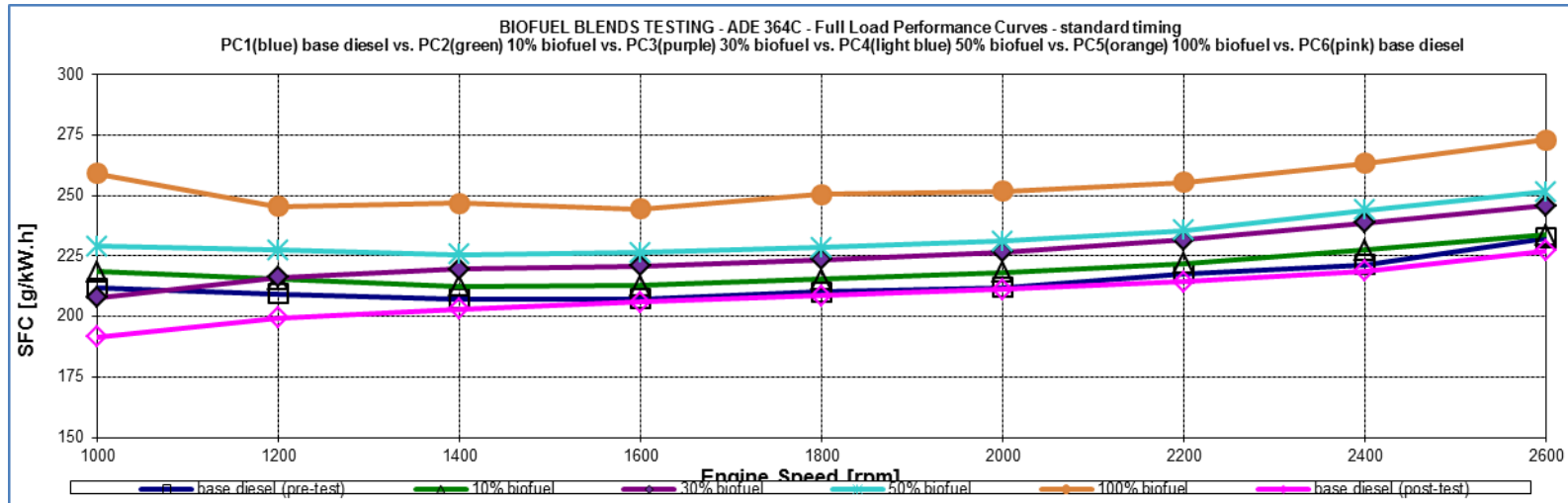


15°BTDC - RESULTS

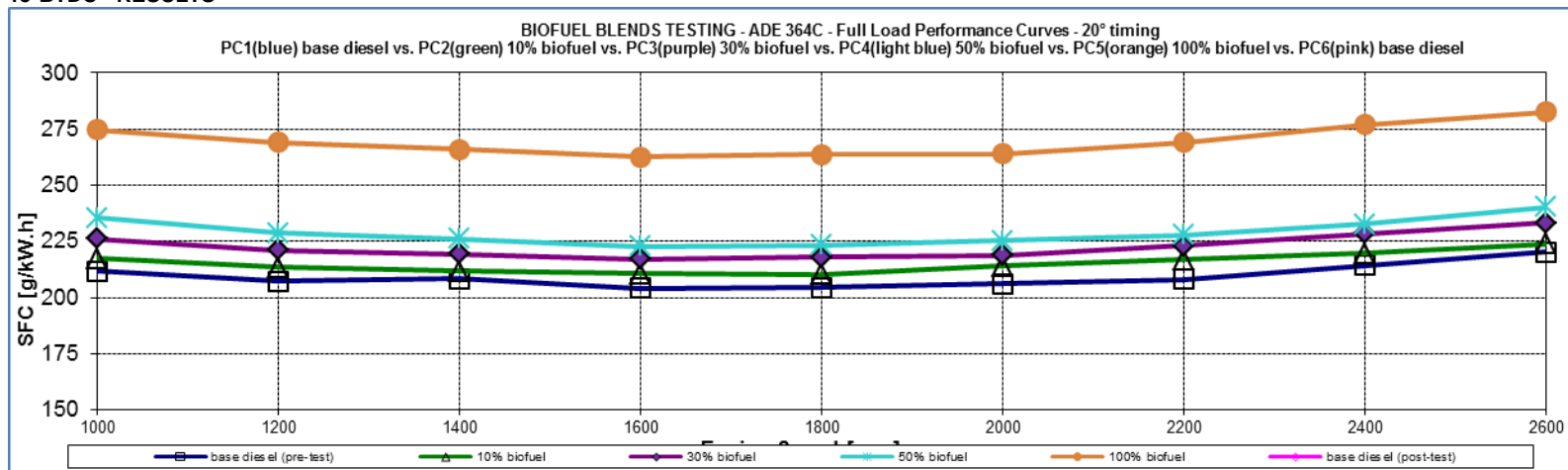


20°BTDC - RESULTS

APPENDIX K: BIOFUEL BLENDS TESTING – SPECIFIC FUEL CONSUMPTION

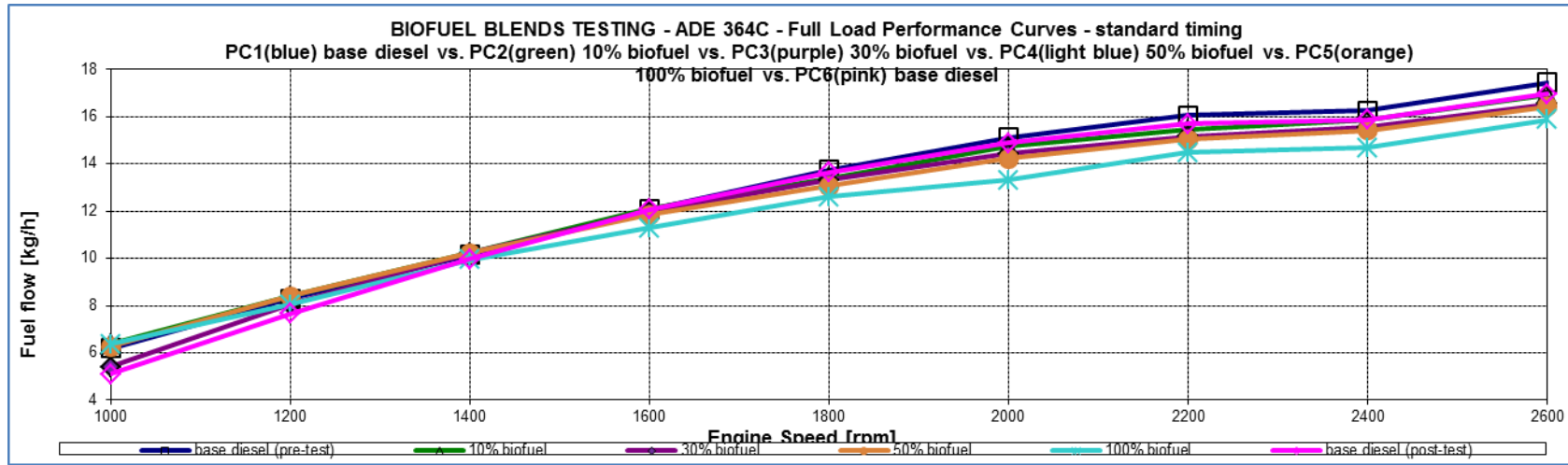


15°BTDC - RESULTS

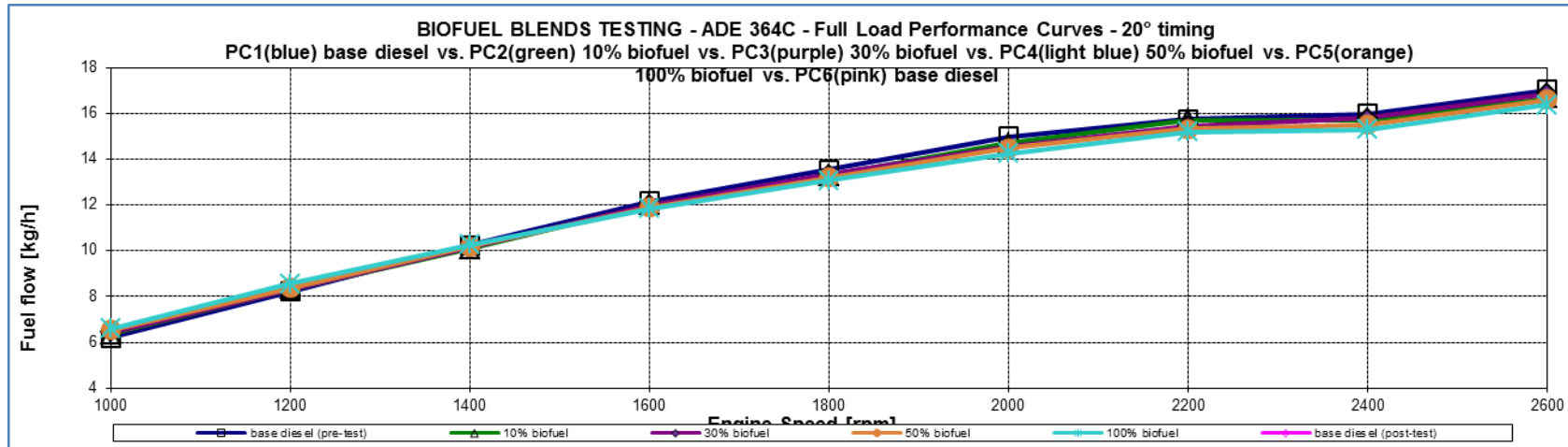


20°BTDC - RESULTS

APPENDIX L: BIOFUEL BLENDS TESTING – FUEL FLOW

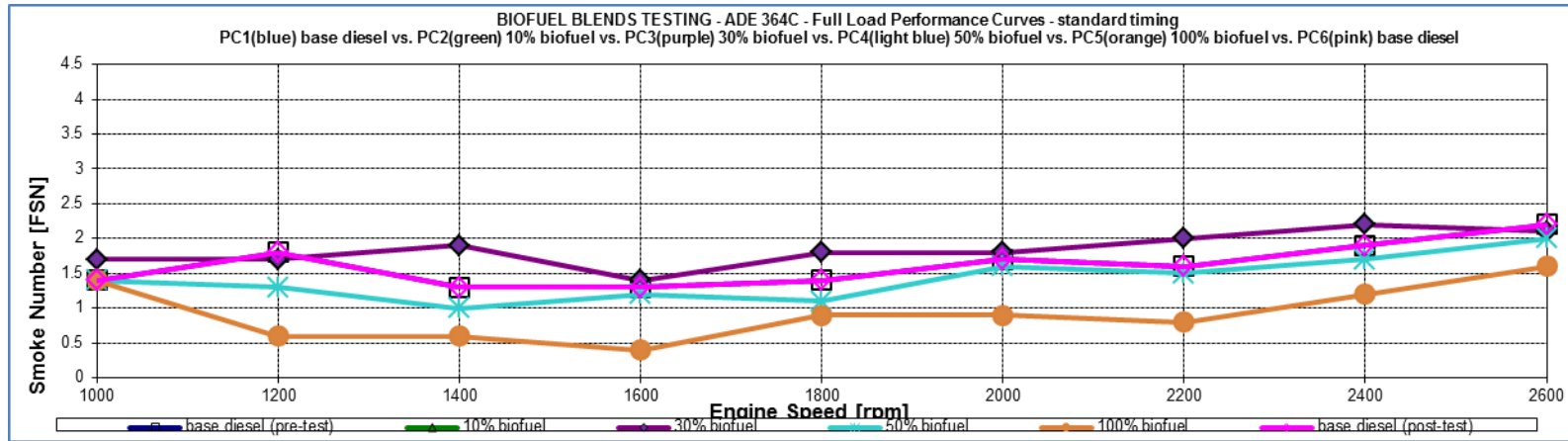


15°BTDC - RESULTS

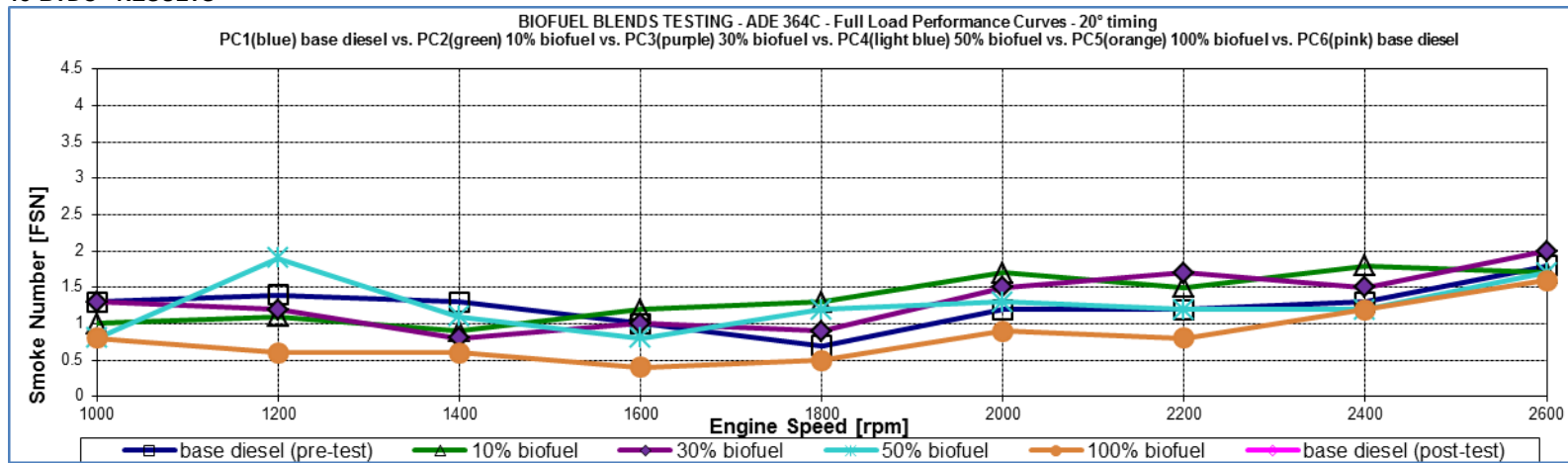


20°BTDC - RESULTS

APPENDIX M: BIOFUEL BLENDS TESTING – SMOKE NUMBER



15°BTDC - RESULTS



20°BTDC - RESULTS

APPENDIX N: RAW DATA - BASE DIESEL AT 15°BTDC

Manual Log Description : Power

Curve on base diesel

Manual Log Start Date :

2012/01/17

Manual Log Start Time :

03:01:38 AM

TIME	mSec	Eng_Ti me	Speed	Torque	~ECE_Corr _Factor	~Torqu e_Corr	~Power _Corr	Humi dity	~P_ Baro	P_Pre_Co mpressor	P_Post_Co mpressor	P_Ex haust	P_Oil_ Filter	P_Co ol_In	P_Cool _Out	P_F uel	T_Air_In_ Snorkel	T_Post_Co mpressor	T_Exh aust	T_Oil_ Sump	T_Co ol_In	T_Cool _Out	T_F uel	T_C ell	Fuel_ Mass	Fuel_ Flow	~SF C	Smo ke
03:01:40 AM	234	496691	2613.73	264.411	1.02294	270.445	74.0905	49.9573	990.163	997.663	936.874	10.5879	4.92207	62.5643	493.282	1.33921	26.0998	107.4	480	110.543	75.5962	79.8	28.8999	41.4	514.128	16.7451	231.054	0.02069
03:01:41 AM	218	496694	2613.84	264.426	1.02294	270.519	74.16	49.9745	990.167	997.663	935.448	10.6319	4.92589	62.5013	491.386	1.32705	26.1	107.523	480	110.671	75.5993	79.8	28.9	41.4	503.247	16.8119	230.77	0.1064
03:01:42 AM	218	496695	2613.78	263.907	1.02293	270.51	74.17	49.9709	990.172	997.663	942.626	10.6066	4.93658	62.695	491.605	1.3399	26.1	107.667	480	110.695	75.7138	79.8	28.9	41.4	497.46	16.7424	230.591	0.01182
03:01:43 AM	218	496696	2614.18	264.214	1.02291	270.434	74.1213	49.9441	990.177	997.889	931.528	10.6978	4.93582	63.3042	493.693	1.33711	26.1	107.694	480	110.672	75.784	79.8718	28.9	41.4	492.599	16.77	230.605	0.1064
03:01:44 AM	234	496697	2614.32	264.837	1.02291	270.385	74.05	49.9604	990.181	997.663	936.873	10.6464	4.9404	63.7244	494.576	1.35251	26.1	107.699	480	110.613	75.797	79.8948	28.9	41.4	487.907	16.77	230.903	0.008867
03:01:45 AM	218	496698	2614.7	265.475	1.02291	270.402	74.0201	49.9674	990.188	997.889	936.084	10.8439	4.93658	63.3412	494.986	1.33414	26.1	107.7	480	110.602	75.7995	79.899	28.9	41.4	483.194	16.7757	231.244	0.017734
03:01:46 AM	218	496699	2614.09	264.16	1.02288	270.473	74.0561	49.9161	990.19	997.663	938.476	10.9031	4.92436	62.7378	492.691	1.33064	26.1	107.7	480.069	110.6	75.7999	79.898	28.9	41.4	478.612	16.7711	231.508	0.251232
03:01:47 AM	218	496700	2614.25	264.722	1.02288	270.533	74.1044	49.932	990.199	997.889	936.87	10.7735	4.93429	63.1141	491.858	1.35127	26.1	107.7	480.094	110.6	75.8	79.9	28.9	41.4	473.818	16.8091	231.64	0.133005
03:01:48 AM	218	496701	2614.64	265.082	1.02289	270.603	74.1416	49.9505	990.198	997.663	934.249	10.7453	4.932	63.8958	494.593	1.33584	26.1	107.7	480.099	110.6	75.8	80.0043	28.9	41.4	468.934	16.9129	231.658	0.056158
03:01:49 AM	218	496702	2613.88	264.933	1.02289	270.69	74.1613	49.9321	990.193	997.663	939.362	10.7717	4.94881	63.4545	493.701	1.32588	26.1	107.7	480.1	110.672	75.8	80.0823	28.9	41.3	464.227	16.834	231.745	0.1064
03:01:50 AM	218	496703	2613.12	264.684	1.02288	270.764	74.1654	49.9279	990.195	997.663	932.796	10.6687	4.94575	63.6505	494.167	1.34521	26.1	107.7	480.1	110.695	75.8	80.0967	28.9	41.2	459.522	16.8519	231.906	0.1064
03:01:51 AM	234	496704	2614.26	263.689	1.02315	270.794	74.1743	49.9435	990.195	997.663	939.994	10.753	4.95721	63.0782	496.004	1.346	26.1794	107.7	480.134	110.699	75.8	80.0994	28.8	41.2	454.952	16.8669	232.151	0.1064
03:01:52 AM	218	496705	2614.31	263.618	1.0232	270.739	74.1469	49.9392	990.195	997.663	932.384	10.7711	4.96333	63.5884	491.722	1.38295	26.1962	107.814	480.188	110.7	75.8	80.0999	28.8	41.2	449.951	16.984	232.392	0.008867
03:01:53 AM	218	496706	2614.16	264.626	1.02323	270.642	74.0753	49.9615	990.193	997.663	938.616	10.8378	4.94499	62.7348	494.758	1.35935	26.1993	107.884	480.198	110.7	75.8	80.1	28.8	41.2	445.407	16.9231	232.684	0.336946
03:01:54 AM	218	496707	2614.06	264.877	1.02322	270.595	74.0174	49.9404	990.195	997.663	937.657	10.7422	4.92665	61.8214	494.025	1.34433	26.1999	107.897	480.2	110.7	75.8	80.1	28.8	41.2	440.493	16.9409	233.065	2.5627
03:01:55 AM	218	496708	2614.22	263.003	1.02321	270.605	73.9981	49.9057	990.192	997.663	939.279	10.7024	4.94804	62.3096	492.021	1.35313	26.2	107.899	480.2	110.7	75.8	80.1	28.8	41.3	435.541	17.0965	233.504	2.53207
03:01:56 AM	218	496709	2613.36	263.384	1.02322	270.598	73.987	49.9191	990.191	997.663	943.533	10.7297	4.94652	62.8718	490.908	1.36628	26.2	107.9	480.2	110.7	75.8	80.1	28.8	41.3	430.755	17.197	234.05	2.52288
03:01:57 AM	218	496710	2614.58	263.26	1.02321	270.539	73.9499	49.9084	990.191	997.663	930.649	10.7379	4.92359	63.0168	492.209	1.35459	26.2	107.954	480.2	110.7	75.8	80.1	28.8	41.3	426.107	17.2245	234.732	2.53207
03:01:58 AM	234	496711	2614.79	263.016	1.02322	270.428	73.8795	49.9248	990.188	997.663	935.464	10.9644	4.91443	63.1692	491.053	1.34764	26.2	108.073	480.2	110.7	75.7312	80.1	28.8	41.3	421.499	17.1567	235.618	2.53207
03:01:59 AM	218	496712	2614.55	263.816	1.02321	270.299	73.8007	49.9072	990.188	997.663	935.543	10.8893	4.93888	62.6668	492.718	1.3416	26.2	108.095	480.2	110.7	75.6243	79.9628	28.8	41.3	416.821	17.0706	236.6	2.53207
03:02:00 AM	218	496713	2614.46	264.125	1.02321	270.203	73.7798	49.8995	990.191	997.663	942.774	11.0618	4.93811	63.3989	494.801	1.35784	26.2	108.099	480.2	110.621	75.6045	79.9116	28.8	41.4	412.054	17.0898	237.322	2.52288

03:02:01 AM	218	496714	2615.08	263.435	1.0232	270.129	73.8059	49.8981	990.196	997.889	939.882	10.8603	4.94499	63.0604	496.12	1.34105	26.2	108.1	480.2	110.604	75.608	79.9022	28.8	41.4	407.382	17.1112	237.71	2.52288
03:02:02 AM	218	496715	2614.06	264.125	1.02293	270.037	73.8194	49.9018	990.195	997.436	943.237	10.7647	4.93735	63.114	494.314	1.36467	26.1185	108.1	480.357	110.601	75.602	79.9004	28.8	41.4	402.706	17.0473	237.623	2.52288
03:02:03 AM	218	496716	2617.09	263.836	1.02289	269.928	73.8477	49.9195	990.195	997.663	937.793	10.586	4.93658	63.1706	492.497	1.34509	26.1034	108.172	480.473	110.6	75.6	79.9001	28.8	41.4	398.148	16.9858	237.257	2.53207
03:02:04 AM	218	496717	2615.38	263.917	1.02287	269.856	73.8664	49.9065	990.195	997.889	935.703	10.6992	4.93735	62.8288	494.729	1.33428	26.1006	108.195	480.495	110.6	75.6	79.9	28.8	41.4	393.568	16.9689	236.805	2.53207
03:02:05 AM	234	496718	2614.92	265.327	1.02288	269.831	73.8833	49.8994	990.19	997.663	939.733	10.8341	4.94117	62.8737	493.115	1.3407	26.1001	108.199	480.499	110.661	75.6	79.9	28.8	41.4	388.921	16.9022	236.337	2.51369
03:02:06 AM	218	496719	2614.27	263.993	1.02287	269.859	73.9341	49.8981	990.19	997.663	934.914	10.7056	4.94193	63.3903	491.971	1.33861	26.1	108.2	480.5	110.693	75.6	79.9	28.8	41.4	384.219	16.7675	235.742	2.52288
03:02:07 AM	218	496720	2614.11	264.016	1.02311	269.872	74.0065	49.8978	990.193	997.663	935.122	10.7161	4.92054	63.2978	494.511	1.31622	26.1718	108.2	480.49	110.699	75.6	79.9	28.8	41.4	379.483	16.7602	235.019	2.51369
03:02:08 AM	218	496721	2614.08	262.862	1.02318	269.864	74.0302	49.8978	990.193	997.889	945.055	10.8795	4.90373	63.3041	492.338	1.35458	26.1948	108.247	480.417	110.7	75.6	79.9	28.8	41.4	374.773	16.7062	234.087	2.51369
03:02:09 AM	218	496722	2614.19	263.864	1.0232	269.85	73.9979	49.8978	990.195	997.663	932.369	10.8688	4.91595	63.3017	493.742	1.35278	26.199	108.29	480.403	110.7	75.7139	79.9	28.8	41.4	369.853	16.7993	233.109	2.51369
03:03:13 AM	218	496786	2410.32	278.58	1.02279	285.961	72.1493	49.7203	990.203	997.663	858.507	9.98836	4.82197	74.6863	448.021	1.34506	26.0915	103.8	480.733	110.7	75.5	80.0999	29.1	41.4	530.151	15.8158	225.267	0
03:03:14 AM	218	496787	2410.33	278.921	1.0228	285.876	72.0985	49.7794	990.203	997.889	856.654	9.99346	4.82121	75.6462	449.62	1.34736	26.0984	103.8	480.706	110.7	75.5	80.1	29.1	41.4	525.848	15.7705	224.963	0.008867
03:03:15 AM	218	496788	2411.2	280.146	1.02281	285.773	72.0493	49.7764	990.203	997.663	855.964	10.1059	4.81281	76.0289	448.283	1.33856	26.0997	103.8	480.701	110.794	75.5	79.9371	29.1	41.4	521.21	15.7508	224.72	0.076847
03:03:16 AM	218	496789	2410.91	279.445	1.0228	285.691	72.0337	49.7758	990.207	997.663	858.512	9.98771	4.83038	75.502	448.24	1.3349	26.0999	103.8	480.7	110.88	75.5	79.9069	29.1	41.4	516.816	15.8042	224.498	0.008867
03:03:17 AM	218	496790	2411.64	279.234	1.02247	285.638	72.0486	49.7757	990.207	997.663	860.052	10.1046	4.81433	76.6093	450.653	1.3324	25.9956	103.8	480.7	110.896	75.5	79.9013	29.1	41.4	512.418	15.7844	224.34	0.01182
03:03:18 AM	218	496791	2410.11	278.698	1.0222	285.607	72.0838	49.7757	990.209	997.436	853.69	9.98747	4.81586	76.0242	450.72	1.33812	25.9177	103.746	480.7	110.899	75.5	79.9002	29.1	41.4	508.027	15.7509	224.111	0.162562
03:03:19 AM	218	496792	2409.94	278.667	1.02215	285.566	72.0835	49.7757	990.208	997.663	857.674	10.0741	4.81892	75.9134	450.229	1.32997	25.9033	103.627	480.7	110.9	75.3968	79.9	29.1	41.4	503.619	15.8076	223.942	0.01182
03:03:20 AM	218	496793	2409.69	278.384	1.02215	285.522	72.0348	49.7757	990.204	997.663	849.008	9.99355	4.82809	76.7087	450.89	1.35016	25.9006	103.605	480.7	110.9	75.2365	79.8314	29.1	41.4	499.212	15.8046	223.878	1.9409
03:03:21 AM	218	496794	2410.06	278.626	1.02214	285.47	71.9594	49.7757	990.205	997.663	856.224	9.96689	4.81892	75.9175	450.57	1.34902	25.9001	103.601	480.7	110.656	75.2068	79.8058	29.1	41.4	494.806	15.8216	223.917	0.1064
03:03:22 AM	218	496795	2411.26	278.984	1.02219	285.413	71.9065	49.7757	990.204	997.663	859.672	10.0463	4.82809	75.2214	448.015	1.34149	25.92	103.6	480.7	110.61	75.2013	79.8011	29.1	41.4	490.364	15.8424	224.156	0.183251
03:03:23 AM	218	496796	2410.15	279.88	1.0227	285.363	71.9361	49.7757	990.198	997.663	852.806	10.1868	4.82427	76.1574	449.299	1.33975	26.0667	103.6	480.643	110.602	75.202	79.8002	29.1	41.4	486.018	15.8864	224.455	0.144828
03:03:24 AM	218	496797	2410.21	279.893	1.0228	285.341	71.9939	49.7757	990.19	997.663	848.993	10.1618	4.82503	75.7483	450.246	1.3405	26.0938	103.451	480.608	110.6	75.2	79.8	29.1	41.4	481.651	15.8555	224.768	0.076847
03:03:25 AM	218	496798	2410.17	279.446	1.02283	285.363	72.0726	49.7757	990.181	997.889	850.521	10.0579	4.82045	76.0853	449.09	1.33678	26.0989	103.409	480.601	110.6	75.3543	79.8542	29.1	41.4	477.285	15.8876	225.005	0.1064
03:03:26 AM	218	496799	2410.14	279.592	1.02284	285.42	72.1402	49.7757	990.177	997.889	857.262	9.97882	4.82885	76.0026	448.287	1.336	26.0998	103.402	480.6	110.665	75.3915	79.973	29.1	41.4	472.812	15.8097	225.095	0.05025
03:03:27 AM	218	496800	2409.32	278.864	1.02284	285.489	72.1763	49.7757	990.174	997.663	848.357	10.0061	4.81968	76.0943	449	1.33019	26.1	103.4	480.6	110.694	75.3984	79.995	29.0206	41.4	468.48	15.8035	225.013	0.05025
03:03:28 AM	218	496801	2409.72	278.526	1.02285	285.508	72.16	49.7757	990.172	997.663	859.961	10.021	4.82197	76.8199	449.583	1.33532	26.1	103.4	480.6	110.699	75.3997	79.9991	29.0038	41.4	463.983	15.8245	224.826	2.34216
03:03:29 AM	218	496802	2410.59	279.501	1.02285	285.465	72.1075	49.7757	990.169	997.889	853.975	9.97198	4.82503	75.3523	449.957	1.34546	26.1	103.514	480.356	110.7	75.3999	79.9998	29.0007	41.4	459.512	15.826	224.637	2.06036
03:03:30 AM	218	496803	2410.36	279.677	1.02285	285.422	72.0674	49.7757	990.165	997.663	852.224	9.96289	4.82732	75.9993	449.961	1.34583	26.1	103.584	480.31	110.7	75.5139	80	29.0001	41.4	455.066	15.8726	224.502	2.06036

03:03:31 AM	218	496804	2411.14	280.297	1.02286	285.449	72.0762	49.7757	990.16	997.663	849.123	10.0695	4.83038	76.3769	451.434	1.33102	26.1	103.597	480.302	110.741	75.584	80.0746	29	41.4	450.63	15.8633	224.522	2.05117
03:03:32 AM	218	496805	2410.42	280.573	1.02286	285.557	72.1448	49.7757	990.157	997.663	858.011	10.0784	4.8235	76.0648	449.956	1.3359	26.1	103.599	480.3	110.789	75.597	80.0953	29	41.4	446.09	15.8889	224.618	2.06036
03:03:33 AM	218	496806	2410.48	279.897	1.02286	285.71	72.2407	49.7757	990.156	997.663	852.323	9.98262	4.82274	76.6879	451.434	1.34311	26.1	103.6	480.3	110.798	75.5994	80.0991	29	41.4	441.68	15.9101	224.715	2.06036
03:03:34 AM	218	496807	2410.11	280.122	1.02287	285.867	72.3182	49.7757	990.154	997.663	858.337	10.1844	4.8235	76.5086	451.025	1.35717	26.1	103.6	480.437	110.8	75.5999	80.0998	29	41.4	437.261	15.9352	224.781	2.05117
03:03:35 AM	218	496808	2410.17	279.628	1.02286	285.994	72.341	49.7757	990.155	997.663	850.411	10.1366	4.82274	76.2684	448.88	1.34434	26.1	103.356	480.488	110.8	75.59	80.1	29	41.4	432.868	15.9307	224.806	2.06036
03:03:36 AM	218	496809	2410.66	279.333	1.02286	286.056	72.3138	49.7757	990.161	997.663	860.516	10.04	4.82732	76.371	451.297	1.34126	26.1	103.31	480.498	110.8	75.5167	79.9861	29	41.4	428.463	15.9255	224.891	2.06036
03:03:37 AM	218	496810	2410.53	279.795	1.02286	286.059	72.2624	49.7757	990.163	997.663	861.127	9.9755	4.81739	77.3459	451.125	1.34333	26.1	103.302	480.5	110.8	75.5031	79.916	29	41.362	424.086	15.9376	225.051	2.05117
03:03:38 AM	218	496811	2410.57	280.431	1.02286	286.055	72.2269	49.7757	990.162	997.889	866.649	10.0349	4.82579	77.1394	450.102	1.33889	26.1	103.3	480.5	110.8	75.5006	79.903	29	41.23	419.657	15.9428	225.256	2.06036
03:03:39 AM	218	496812	2409.99	279.939	1.02285	286.088	72.2281	49.7757	990.167	997.663	863.527	10.1023	4.82121	76.3523	450.354	1.34093	26.1	103.3	480.431	110.8	75.5001	79.9006	29	41.2056	415.301	15.9288	225.456	2.05117
03:03:40 AM	218	496813	2410.41	280.105	1.02285	286.145	72.2568	49.7654	990.164	997.663	860.218	10.0355	4.82197	76.1117	452.061	1.34516	26.1	103.3	480.324	110.8	75.5	79.9001	29.0613	41.2010	410.751	15.9181	225.569	2.05117
03:03:41 AM	218	496814	2411.65	279.903	1.02285	286.223	72.2899	49.7738	990.163	997.663	861.328	9.97467	4.81968	76.6682	451.214	1.33389	26.1	103.3	480.305	110.8	75.5	79.9	29.0928	41.2002	406.321	15.923	225.579	2.05117
03:03:42 AM	218	496815	2410.68	280.682	1.02286	286.32	72.317	49.7753	990.158	997.663	858.354	10.0676	4.82732	77.0911	451.276	1.3405	26.1	103.3	480.301	110.706	75.5	79.9	29.0987	41.201	401.701	15.9373	225.496	2.04198
03:05:21 AM	265	496914	2207.03	307.154	1.02138	314.312	72.5123	49.9208	990.08	997.663	789.952	13.0894	4.62485	82.9531	403.829	1.28344	25.6	98.6	493.5	109.741	75.1856	80.0543	28.2	40.8	546.97	15.5784	217.509	0.008867
03:05:22 AM	265	496915	2207.27	307.991	1.02139	314.208	72.5043	49.9442	990.077	997.663	790.625	13.0176	4.62026	83.453	403.724	1.28396	25.6	98.6	493.5	109.789	75.1973	80.0915	28.2	40.9303	542.71	15.5686	219.845	0
03:05:23 AM	265	496916	2206.64	307.722	1.02154	314.148	72.5271	49.9371	990.07	997.663	797.026	13.1958	4.62714	83.0658	403.4	1.28704	25.6469	98.6	493.5	109.798	75.1995	80.0984	28.2	40.9871	538.408	15.5181	219.976	0
03:05:24 AM	265	496917	2205.63	308.066	1.02168	314.148	72.5628	49.9111	990.073	997.663	804.979	13.3637	4.62408	82.3838	403.129	1.28831	25.6902	98.6	493.644	109.8	75.1999	80.0997	28.1729	40.9976	534.1	15.4987	219.666	0.124138
03:05:25 AM	265	496918	2206.85	308.343	1.02172	314.163	72.61	49.9506	990.076	997.663	810.739	13.0684	4.62485	82.878	404.875	1.29455	25.6982	98.6	493.69	109.8	75.2	80.0999	28.1135	40.9996	529.815	15.5103	219.287	0.008867
03:05:26 AM	265	496919	2207.04	307.964	1.02172	314.184	72.6639	49.9393	990.078	997.663	804.116	13.0696	4.6302	83.2091	403.824	1.29012	25.6997	98.6	493.698	109.8	75.2	80.0387	28.1025	40.9999	525.528	15.5199	218.869	0.124138
03:05:27 AM	281	496920	2207.45	307.725	1.02171	314.193	72.7027	49.9268	990.079	997.663	810.214	13.0698	4.62714	82.5816	402.367	1.29631	25.6999	98.6	493.7	109.725	75.2	80.0072	28.1005	40.9312	521.063	15.5024	218.482	0.008867
03:05:28 AM	265	496921	2207.14	308.303	1.02172	314.19	72.725	49.9717	990.081	997.663	794.203	13.1641	4.62255	82.516	403.031	1.30826	25.7	98.6	493.7	109.705	75.2	80.0013	28.1001	40.8243	516.466	15.6222	218.212	0
03:05:29 AM	281	496922	2206.43	308.237	1.02172	314.22	72.7411	49.964	990.082	997.663	785.924	13.2396	4.6279	83.6928	404.173	1.32042	25.7	98.6	493.747	109.701	75.2	80.0002	28.0656	40.8045	511.973	15.6763	218.14	0.05911
03:05:30 AM	281	496923	2207.14	308.084	1.02172	314.294	72.7554	49.9797	990.085	997.663	804.523	13.0784	4.62408	83.3884	404.0974	1.3174	25.7	98.3847	493.79	109.7	75.2	80	28.0122	40.8008	507.642	15.6675	218.318	0.09754
03:05:31 AM	265	496924	2207.05	308.247	1.02173	314.381	72.7598	49.9875	990.084	997.663	809.189	13.0737	4.62714	83.3475	406.407	1.32372	25.7	98.3157	493.798	109.7	75.1282	80	28.0023	40.8002	503.225	15.7145	218.709	0.115271
03:05:32 AM	265	496925	2206.74	308.663	1.02171	314.452	72.7632	49.9592	990.089	997.663	808.266	13.1591	4.62255	82.8311	404.748	1.31858	25.7	98.3029	493.8	109.653	75.1052	80	28.0004	40.8	498.893	15.733	219.238	0.05025
03:05:33 AM	265	496926	2206.67	308.354	1.02172	314.546	72.7794	49.9759	990.086	997.663	798.346	13.1604	4.62943	82.8888	404.76	1.32274	25.7	98.3005	493.8	109.61	75.101	80	28.0001	40.8	494.444	15.7696	219.767	0.094581
03:05:34 AM	281	496927	2206.79	307.446	1.02108	314.66	72.7432	49.9599	990.099	997.663	800.052	13.1578	4.63096	82.6295	403.467	1.30375	25.5046	98.3001	493.8	109.602	75.1002	80	27.9431	40.8	490.196	15.7442	220.229	0.1064
03:05:35 AM	265	496928	2206.85	307.531	1.02078	314.723	72.7169	49.9867	990.108	997.663	802.955	13.241	4.62332	82.3162	404.307	1.31092	25.4194	98.3344	493.959	109.6	75.1	80	27.908	40.8	486.019	15.7165	220.599	0.1064
03:05:36 AM	281	496929	2206.34	307.184	1.02072	314.71	72.677	49.9888	990.112	997.663	803.615	13.091	4.62561	82.6284	404.469	1.30834	25.4036	98.3878	493.992	109.6	75.1	80	27.9015	40.8	481.656	15.7113	220.805	1.71429

03:05:37 AM	281	496930	2206.78	307.197	1.02072	314.654	72.6077	49.9892	990.109	997.436	800.481	13.0179	4.62867	83.25	404.964	1.30966	25.4007	98.3978	493.999	109.61	75.1	79.8565	27.9003	40.8	477.423	15.734	220.973	1.67291
03:05:38 AM	265	496931	2206.45	307.767	1.02072	314.584	72.5447	49.9893	990.108	997.436	804.757	13.0043	4.62867	83.3204	403.3	1.29887	25.4001	98.3996	494	109.683	75.1	79.8105	27.9001	40.8	473.036	15.6813	221.077	1.68473
03:05:39 AM	265	496932	2206.94	307.689	1.02072	314.511	72.5099	49.9893	990.107	997.663	794.39	13.3516	4.63172	82.9928	404.145	1.30362	25.4	98.3999	494	109.697	75.1	79.8019	27.8388	40.8	468.74	15.5786	221.096	1.68473
03:05:40 AM	265	496933	2206.67	307.737	1.02072	314.453	72.516	49.9893	990.104	997.663	793.546	13.5801	4.63478	83.3266	403.735	1.3096	25.4	98.4	494	109.699	75.1	79.8004	27.8072	40.8	464.251	15.582	220.987	1.68473
03:05:41 AM	281	496934	2206.96	307.746	1.02073	314.401	72.5384	50.006	990.102	997.663	787.637	13.5606	4.62638	83.2416	404.291	1.30261	25.4	98.2458	494	109.7	75.1	79.8001	27.8013	40.8	459.895	15.6007	220.714	1.68473
03:05:42 AM	265	496935	2207.26	308.629	1.02074	314.345	72.572	50.0101	990.101	997.663	793.109	13.595	4.62943	82.6993	403.702	1.29956	25.4	98.2085	494	109.7	75.1	79.8	27.8002	40.8	455.601	15.5413	220.247	1.67291
03:05:43 AM	281	496936	2207.02	309.191	1.02075	314.323	72.6189	50.0285	990.097	997.663	793.398	13.4331	4.63402	83.2111	403.54003	1.29003	25.4	98.2016	494	109.631	75.1	79.8	27.8	40.8	451.345	15.5438	219.735	1.67291
03:05:44 AM	281	496937	2207.26	309.222	1.02074	314.353	72.6912	50.009	990.094	997.663	807.185	13.471	4.63249	82.6471	402.688	1.29182	25.4	98.2003	494	109.606	75.1	79.8	27.8	40.8	447.035	15.4949	219.22	1.68473
03:05:45 AM	265	496938	2207.43	309.483	1.02074	314.399	72.7798	50.0115	990.094	997.663	814.625	13.1561	4.6302	82.6617	405.003	1.28541	25.4	98.2001	494.02	109.601	75.1	79.8	27.8	40.8	442.025	15.5513	218.729	1.68473
03:05:46 AM	265	496939	2207.15	309.602	1.02077	314.445	72.8729	50.0617	990.086	997.663	807.438	13.2014	4.62638	82.7317	402.888	1.29924	25.4	98.2	494.167	109.6	75.1	79.8	27.7656	40.8	438.487	15.5461	218.28	1.67291
03:05:47 AM	265	496940	2207.92	309.771	1.02078	314.529	72.9426	50.0373	990.073	997.663	794.788	13.4538	4.62943	82.7407	403.761	1.28674	25.4	98.2	494.194	109.6	75.1522	79.8	27.7122	40.8	433.999	15.6169	217.926	1.68473
03:05:48 AM	265	496941	2206.38	309.881	1.02077	314.677	72.995	50.0149	990.067	997.663	803.092	13.4242	4.63172	82.5617	402.783	1.28895	25.4	98.2	494.199	109.6	75.1911	79.8771	27.7023	40.8	429.639	15.6175	217.698	1.66404
03:05:49 AM	265	496942	2206.73	310.314	1.0208	314.875	73.0427	50.0686	990.065	997.663	806.156	13.3921	4.6195	82.861	403.231	1.28972	25.4	98.2	494.2	109.6	75.1984	79.8958	27.7004	40.9	425.201	15.665	217.689	1.67291
03:05:50 AM	265	496943	2205.65	309.801	1.02078	315.088	73.0842	50.0254	990.066	997.663	807.346	13.3518	4.62026	83.6739	405.107	1.29396	25.4	98.2	494.2	109.6	75.1997	79.8992	27.7001	40.9	420.847	15.6672	217.849	1.66404
03:06:47 AM	265	497000	2018.13	325.598	1.02023	331.782	70.1745	50.1723	990.065	997.436	682.283	15.8222	4.43307	96.6254	370.986	1.27708	25.2122	92.2	506.3	108.402	75.101	80.100	27.4	41.2985	472.072	14.9197	216.802	0.008867
03:06:48 AM	265	497001	2017.91	325.021	1.0202	331.795	70.1877	50.1675	990.065	997.663	687.528	15.9169	4.43383	96.4662	373.21118	1.28118	25.2023	92.0371	506.3	108.4	75.1	80.1	27.4	41.2997	467.903	14.8784	216.794	0.01182
03:06:49 AM	265	497002	2017.74	324.751	1.02019	331.788	70.1721	50.1715	990.064	997.663	688.842	15.5949	4.43078	95.96	371.681	1.27979	25.2004	92.0069	506.3	108.4	74.856	80.0478	27.4	41.2999	463.745	14.8845	216.777	0.153695
03:06:50 AM	265	497003	2017.85	324.733	1.0202	331.76	70.1349	50.1723	990.062	997.663	680.829	15.8338	4.43383	95.6546	371.919	1.28612	25.2001	92.0013	506.3	108.257	74.8103	80.008	27.4	41.2458	459.5	14.8817	216.766	0.02069
03:06:51 AM	265	497004	2018.12	324.605	1.0202	331.717	70.0876	50.1939	990.064	997.663	688.33	15.939	4.43154	95.959	370.736	1.28159	25.2	92.0002	506.3	108.2119	74.8019	80.0016	27.4	41.127	455.363	14.8761	216.724	0.01182
03:06:52 AM	265	497005	2018.21	325.334	1.01994	331.674	70.029	50.1837	990.062	997.663	691.326	15.5738	4.43383	95.5471	372.346	1.29179	25.1206	92	506.231	108.202	74.8004	80.0003	27.4	41.105	451.247	14.839	216.695	0.1064
03:06:53 AM	265	497006	2018.08	325.159	1.01988	331.656	70.0106	50.1745	990.062	997.663	679.365	15.7455	4.43383	96.0064	370.583	1.27444	25.1038	91.8775	506.124	108.2	74.801	80.0001	27.4	41.1009	447.255	14.8321	216.639	0.01182
03:06:54 AM	265	497007	2018.31	324.644	1.01988	331.662	70.0194	50.1818	990.062	997.663	680.38	15.8709	4.43689	95.711	371.513	1.28219	25.1007	91.8144	506.104	108.2	74.8	80	27.4	41.1002	443.139	14.8015	216.534	1.47192
03:06:55 AM	265	497008	2018.68	325.015	1.0199	331.671	70.0481	50.2258	990.06	997.663	690.449	15.6508	4.43842	96.0036	370.795	1.27137	25.1001	91.8027	506.101	108.252	74.8	79.8371	27.4	41.1	439.015	14.8487	216.381	0.1064
03:06:56 AM	265	497009	2018.37	325.759	1.01991	331.677	70.0776	50.2699	990.06	997.889	688.477	15.5378	4.43689	95.6129	371.871	1.27603	25.1	91.8005	506.1	108.291	74.8	79.8069	27.4	41.1	434.905	14.7629	216.158	0.094581
03:06:57 AM	265	497010	2018.52	325.964	1.0201	331.696	70.1197	50.2777	990.056	997.663	686.639	15.6691	4.43383	96.193	371.698	1.27638	25.157	91.8001	506.1	108.298	74.8	79.8013	27.4	41.1	430.785	14.8046	215.886	0.1064
03:06:58 AM	265	497011	2018.35	326.194	1.02022	331.732	70.1694	50.283	990.055	997.663	685.677	15.6251	4.43001	95.7059	372.857	1.28149	25.192	91.6968	506.175	108.3	74.8	79.8002	27.4	41.1	426.632	14.8302	215.655	0.065025
03:06:59 AM	265	497012	2019.03	326.634	1.02025	331.782	70.229	50.2692	990.051	997.663	690.831	15.7906	4.43383	95.7072	372.078	1.2903	25.1985	91.5365	506.195	108.3	74.8344	79.8	27.4	41.1	422.497	14.8364	215.45	0.144828

03:07:00 AM	265	497013	2018.5 5	326.65 6	1.02025	331.846	70.297 1	50.2 898	990.051	997.663	686.285	15.58 66	4.429 25	96.02 4	372.33 9	1.27 941	25.1997	91.5068	506.1 99	108.3 7	74.88 78	79.8	27.4	41.1	418.4 24	14.82 27	215. 275	0.13 3005
03:07:01 AM	265	497014	2018.5 6	326.33 7	1.02025	331.938	70.358 4	50.2 825	990.051	997.663	680.703	15.75 25	4.434 6	95.75 56	371.68 5	1.28 072	25.1999	91.5013	506.2	108.13 7	74.89 78	79.8	27.4	41.1	414.2 23	14.78 11	215. 157	0.05 911
03:07:02 AM	265	497015	2018.6 7	325.52 3	1.0202	332.043	70.385 1	50.2 923	990.051	997.663	686.498	15.72 96	4.430 01	95.67 59	371.91 3	1.27 832	25.17	91.5002	506.2	108.10 7	74.89 96	79.8	27.4	41.2 781	410.0 88	14.76 85	215. 017	1.98 991
03:07:03 AM	265	497016	2019.2 2	325.60 9	1.01945	332.125	70.326 5	50.2 941	990.049	997.663	690.037	15.72 44	4.434 6	95.89 94	371.24 4	1.27 645	24.95	91.5	506.4 28	108.10 1	74.89 99	79.8	27.4	41.2 959	406.0 08	14.78 5	214. 838	1.75 271
03:07:04 AM	265	497017	2019	326.55 8	1.01932	332.195	70.286	50.2 048	990.048	997.663	688.525	15.82 41	4.434 6	96.32 12	371.76	1.28 431	24.9093	91.5	506.5 68	108.1	74.9	79.8	27.4	41.2 992	401.8 66	14.80 21	214. 655	1.74 089
03:07:05 AM	265	497018	2018.8 6	326.86 9	1.01929	332.278	70.259	50.2 945	990.048	997.663	684.183	15.82 14	4.444 53	96.00 62	371.38 3	1.28 26	24.9017	91.5	506.5 94	108.1	75.04 92	79.868 8	27.4	41.2 999	397.6 71	14.81 18	214. 52	1.73 202
03:07:06 AM	265	497019	2018.5 9	327.25 4	1.01929	332.39	70.275 9	50.2 945	990.049	997.663	690.44	15.72 49	4.435 36	96.27 09	371.07 1	1.29 114	24.9003	91.5	506.5 99	108.16 1	75.09 06	79.975 7	27.4	41.3	393.5 35	14.84 18	214. 496	1.73 202
03:07:07 AM	265	497020	2018.1 9	326.23 3	1.01929	332.518	70.328 3	50.2 945	990.049	997.663	691.495	15.55 93	4.438 42	96.01 53	371.53 8	1.28 574	24.9001	91.5	506.6	108.19 3	75.09 83	79.995 5	27.4	41.1 371	389.4 2	14.82 98	214. 568	1.72 315
03:07:08 AM	265	497021	2018.2 9	325.83 7	1.01974	332.637	70.406 7	50.2 945	990.049	997.663	680.652	15.58 3	4.442 24	95.71 16	371.41 2	1.26 771	25.0435	91.5	506.6 2	108.19 9	75.09 97	79.999 2	27.4	41.1 069	385.3 73	14.81 69	214. 657	1.73 202
03:07:09 AM	265	497022	2018.2 3	325.55 9	1.0199	332.709	70.409 8	50.2 945	990.052	997.663	684.019	15.76 87	4.443	95.22 05	370.66 5	1.27 386	25.0895	91.4531	506.7 67	108.2	75.09 99	79.999 8	27.4	41.1 013	381.2 8	14.81 29	214. 719	1.72 315
03:07:10 AM	265	497023	2018.6 9	325.63 9	1.01994	332.714	70.354 1	50.3 299	990.055	997.663	678.472	15.69 6	4.442 24	95.10 26	370.25 5	1.26 803	25.0981	91.4099	506.7 94	108.2	75.1	80	27.4	41.1 002	377.1 56	14.78 94	214. 766	1.73 202
03:07:11 AM	265	497024	2018.5 1	325.98 1	1.01994	332.681	70.280 2	50.3 41	990.058	997.663	683.907	15.86 83	4.437 65	95.14 89	370.50 5	1.27 299	25.0996	91.4018	506.7 99	108.2	75.1	80	27.4	41.1	372.9 56	14.79 49	214. 788	1.73 202
03:07:12 AM	265	497025	2018.3 9	326.68 8	1.01994	332.646	70.235 2	50.3 509	990.06	997.663	686.849	15.80 08	4.439 18	95.24 1	372.25 6	1.27 555	25.0999	91.4003	506.8	108.2	75.1	80	27.4	41.1	368.8 45	14.83 73	214. 841	1.72 315
03:07:13 AM	265	497026	2018.4 9	326.85 1	1.01994	332.625	70.248 1	50.3 361	990.06	997.663	689.969	15.77 93	4.438 42	95.75 81	370.11 9	1.27 191	25.1	91.4001	506.8	108.2	75.1	80	27.4	41.1	364.6 4	14.85 53	214. 917	1.73 202
03:07:14 AM	265	497027	2018.9 5	326.91 8	1.01994	332.628	70.307 2	50.3 062	990.062	997.663	693.034	15.90 69	4.439 18	95.42 47	370.52 8	1.27 499	25.1	91.39	506.9 95	108.2	75.1	80	27.4	41.1	360.4 92	14.85 86	214. 984	1.72 315
03:07:15 AM	265	497028	2018.3 8	326.97 5	1.01995	332.672	70.380 2	50.3 746	990.063	997.663	685.108	15.74 09	4.437 65	95.34 59	370.45 6	1.27 285	25.1	91.3167	507.0 81	108.2	75.08	80	27.4	41.1	356.3 67	14.85 34	215. 068	1.72 315
03:07:16 AM	265	497029	2018.5 2	327.14 3	1.01995	332.772	70.441 5	50.3 839	990.063	997.663	685.544	15.84 58	4.439 18	95.23 97	371.48 8	1.27 491	25.1	91.3031	507.0 96	108.2	74.93 34	80	27.4	41.1	352.1 64	14.83 85	215. 111	1.71 429
03:08:53 AM	265	497126	1813.5 5	335.61 6	1.02041	341.846	64.956 6	50.6 637	990.048	997.663	605.504	9.745 99	4.199 27	100.7 04	334.23 8	1.29 3	25.2	85.6	507.2	106.8	74.8	80	26.9 9	41.3 999	533.7 05	13.48 52	211. 627	0.01 182
03:08:54 AM	265	497127	1812.9 3	334.76 5	1.02042	341.896	64.964 8	50.6 769	990.048	997.889	594.292	9.571 84	4.197 74	100.4 38	334.74 4	1.29 463	25.2	85.6	507.2	106.73 1	74.8	80	26.9 167	41.4	529.9 3	13.43 41	211. 646	0.02 069
03:08:55 AM	265	497128	1812.8 4	334.21 2	1.0204	341.911	64.962 5	50.6 433	990.048	997.663	594.247	9.677 2	4.200 03	100.3 26	333.81 4	1.29 486	25.2	85.6	507.2	106.70 6	74.8	80	26.9 031	41.3 185	526.2 36	13.43 4	211. 605	0.10 64
03:08:56 AM	265	497129	1812.4 3	333.99 9	1.02041	341.875	64.929 7	50.6 576	990.048	997.663	600.026	9.562 38	4.200 03	100.3 53	334.27 3	1.29 488	25.2	85.6	507.1 73	106.70 1	74.8	80	26.9 006	41.3 034	522.5 94	13.42 05	211. 553	0.01 182
03:08:57 AM	265	497130	1812.7 1	333.41 2	1.02042	341.803	64.862 3	50.6 85	990.049	997.663	597.771	9.809 77	4.194 68	100.2 26	334.80 6	1.29 129	25.2	85.543	507.1 13	106.7	74.8	80	26.9 001	41.3 006	518.9 24	13.34 45	211. 43	0.01 182
03:08:58 AM	265	497131	1812.9 2	332.94	1.02041	341.693	64.775 5	50.6 744	990.052	997.663	593.021	9.685 99	4.196 21	99.95 85	336.43 5	1.28 085	25.2	85.508	507.1 03	106.7	74.74 3	80	26.9	41.3 001	515.2 25	13.34 53	211. 273	0.05 911
03:08:59 AM	265	497132	1812.7 8	332.94	1.02041	341.565	64.677 4	50.6 881	990.054	997.663	601.694	9.464 78	4.197 74	99.67 33	334.12 9	1.28 037	25.2	85.5015	507.1	106.7	74.70 8	79.920 6	26.9	41.3	511.4 54	13.30 42	211. 121	0
03:09:00 AM	265	497133	1813.1 8	333.29 7	1.02041	341.434	64.599 5	50.6 707	990.054	997.663	593.304	9.712 89	4.206 91	99.72 13	335.19 5	1.31 041	25.2	85.5003	507.1	106.7	74.70 15	79.903 8	26.9	41.2 314	507.6 54	13.31 95	210. 929	0.56 1576
03:09:01 AM	265	497134	1813.6 1	334.43 6	1.02041	341.304	64.563 7	50.6 776	990.054	997.663	595.694	9.880 89	4.205 38	99.55 2	333.95 1	1.28 413	25.2	85.5001	507.1	106.7	74.70 03	79.900 7	26.9	41.2 058	504.0 74	13.34 01	210. 785	0.02 956
03:09:02 AM	265	497135	1813.0 5	334.52 7	1.02041	341.197	64.575 3	50.6 741	990.052	997.663	594.834	9.735 08	4.203 85	99.83 84	334.40 4	1.28 759	25.2	85.462	506.9 63	106.7	74.70 01	79.900 1	26.9	41.2 011	500.3 76	13.24 22	210. 667	0.09 4581

03:09:03 AM	265	497136	1813.04	334.403	1.02041	341.121	64.636803	50.6990052	997.663	599.648	9.63586	4.20079	100.25	334.085	1.27498	25.2	85.33	506.912	106.7	74.7	79.9	26.859	41.2002	496.647	13.248	210.458	0.174384
03:09:04 AM	265	497137	1812.85	333.798	1.0204	341.058	64.7057	50.6990054	997.663	602.812	9.66798	4.20232	100.14	333.444	1.26926	25.2	85.3056	506.902	106.7	74.7	79.9	26.8109	41.2	492.92	13.2716	210.174	0.124138
03:09:05 AM	265	497138	1813.44	333.957	1.02041	340.971	64.7479	50.6990054	997.663	594.338	9.83175	4.20003	99.4759	333.492	1.27257	25.2	85.301	506.9	106.7	74.7	79.9	26.802	41.2	489.238	13.3099	209.798	0.162562
03:09:06 AM	265	497139	1813.55	334.065	1.02041	340.853	64.7531	50.6990054	997.663	597.254	9.79786	4.20462	100.087	332.978	1.28668	25.2	85.3002	506.9	106.7	74.7	79.9	26.8004	41.2	485.508	13.3373	209.476	0.133005
03:09:07 AM	265	497140	1813.43	334.084	1.02041	340.735	64.7349	50.6990054	997.663	602.407	9.7355	4.20079	99.5471	334.156	1.28093	25.2	85.3	506.759	106.7	74.7	79.9	26.8001	41.2	481.857	13.3142	209.361	0.05025
03:09:08 AM	265	497141	1813.59	333.87	1.02041	340.657	64.7203	50.6990055	997.663	597.781	9.78322	4.20309	100.083	334.046	1.28788	25.2	85.3	506.63	106.7	74.7	79.9	26.8	41.2	478.048	13.3686	209.465	1.79113
03:09:09 AM	265	497142	1813.6	334.061	1.02041	340.624	64.7161	50.6990055	997.663	600.986	9.77764	4.20232	100.164	333.495	1.26739	25.2	85.3	506.605	106.7	74.7	79.9	26.8	41.2	474.328	13.3201	209.757	1.38325
03:09:10 AM	265	497143	1813.16	334.287	1.0204	340.628	64.7205	50.6990051	997.436	591.874	9.75126	4.20156	99.5043	334.598	1.27692	25.2	85.3	506.601	106.648	74.7	79.9	26.8	41.2	470.61	13.3011	210.013	1.31527
03:09:11 AM	265	497144	1813.6	333.999	1.02041	340.678	64.727	50.6990051	997.663	594.421	9.64377	4.20691	100.3	334.398	1.28799	25.2	85.3	506.6	106.609	74.7	79.9	26.8	41.3	466.825	13.3132	210.144	1.31527
03:09:12 AM	265	497145	1813.04	334.325	1.0204	340.76	64.7324	50.6990049	997.663	593.927	9.74307	4.20844	100.398	335.419	1.29397	25.2	85.3	506.6	106.602	74.7	79.9	26.8	41.3	463.122	13.3751	210.166	1.3064
03:09:13 AM	265	497146	1813.32	334.138	1.02041	340.85	64.7373	50.6990049	997.663	598.062	9.73404	4.20767	100.321	334.107	1.28109	25.2	85.2531	506.6	106.6	74.7	79.9	26.8	41.3	459.442	13.3809	210.116	1.3064
03:09:14 AM	265	497147	1813.49	334.413	1.02042	340.911	64.7446	50.6990049	997.663	597.044	9.8151	4.20232	100.423	334.089	1.276	25.2	85.2098	506.6	106.6	74.7	79.9	26.8	41.3	455.692	13.3932	210.147	1.3064
03:09:15 AM	265	497148	1813.74	334.559	1.02042	340.929	64.7512	50.6990049	997.663	595.359	9.9339	4.20767	100.14	334.89129	1.27129	25.2	85.2018	506.6	106.6	74.7	79.9	26.8	41.3	452.048	13.3826	210.306	1.3064
03:09:16 AM	265	497149	1813.41	334.469	1.02042	340.931	64.7671	50.6990048	997.663	604.084	9.73962	4.20767	99.7614	334.638	1.28673	25.2	85.2003	506.6	106.6	74.8229	79.9	26.8	41.4	448.245	13.367	210.534	1.3064
03:09:17 AM	265	497150	1813.78	334.439	1.02042	340.949	64.7885	50.6990048	997.663	597.156	9.84594	4.2092	99.5849	334.176	1.27134	25.2	85.2001	506.6	106.6	74.9672	79.9651	26.8	41.4	444.547	13.3906	210.698	1.29754
03:09:18 AM	265	497151	1814.09	334.419	1.02042	340.986	64.8065	50.6990049	997.663	602.226	9.90177	4.20309	99.8675	335.604	1.2663	25.2	85.2	506.6	106.67	74.9939	79.9935	26.8	41.4	440.782	13.3929	210.795	1.3064
03:09:19 AM	265	497152	1813.8	334.769	1.02042	341.032	64.8206	50.6990049	997.663	606.465	9.89232	4.20614	100.222	335.013	1.27309	25.2	85.2	506.6	106.696	74.9989	79.9988	26.8	41.4	437.006	13.4038	210.771	1.3064
03:09:20 AM	265	497153	1813.36	334.761	1.02042	341.081	64.8298	50.6990048	997.663	601.701	9.72073	4.21302	99.9914	334.913	1.30044	25.2	85.2	506.741	106.699	74.9989	79.9998	26.8	41.4	433.205	13.4736	210.75	1.3064
03:09:21 AM	265	497154	1813.64	334.737	1.02041	341.138	64.8397	50.6990048	997.663	602.121	9.78933	4.2092	100.074	334.218	1.27934	25.2	85.1254	506.87	106.7	75	80	26.8	41.4	429.604	13.4592	210.857	1.3064
03:09:22 AM	265	497155	1813.51	335.657	1.02041	341.2	64.8583	50.6990048	997.663	605.014	9.84031	4.20462	99.8435	334.986	1.27518	25.2	85.1047	506.895	106.7	74.9229	79.981	26.8	41.4	425.864	13.3856	211.211	1.3064
03:11:03 AM	265	497256	1608.14	342.606	1.01954	348.302	58.6086	50.7990053	997.663	509.628	3.37587	3.87836	106.298	301.518	1.31474	24.9239	79.6	495.262	105.1	74.401	80.0001	26.5	41.2	517.703	11.9046	206.343	0
03:11:04 AM	265	497257	1606.1	342.509	1.01948	348.295	58.6421	50.799005	997.663	513.603	3.2437	3.88065	106.222	302.003	1.27743	24.9044	79.6	495.211	105.1	74.4	80	26.4	41.2	514.635	11.9624	206.029	0.01182
03:11:05 AM	265	497258	1606.04	342.439	1.01947	348.322	58.6851	50.7990047	997.663	508.059	3.17685	3.88906	105.734	301.261	1.29102	24.9008	79.6	495.202	105.1	74.4	79.9314	26.4	41.2	511.205	11.8967	205.87	0.065025
03:11:06 AM	265	497259	1608.05	341.801	1.01946	348.362	58.716	50.7990046	997.663	505.963	3.11832	3.89211	105.622	301.823	1.28772	24.9002	79.6	495.2	104.856	74.4	79.9058	26.4	41.3	507.899	11.9433	206.01	0.01182
03:11:07 AM	265	497260	1608.37	342.272	1.01947	348.388	58.7206	50.7990046	997.663	508.926	3.21626	3.88906	105.677	301.711	1.29837	24.9	79.6	495.2	104.81	74.4	79.9011	26.4	41.3	504.572	11.9519	206.422	0.0798
03:11:08 AM	265	497261	1608.08	342.273	1.01946	348.418	58.7283	50.799005	997.663	509.874	3.3284	3.88982	105.733	301.913	1.2905	24.9	79.6	495.086	104.802	74.4	79.9002	26.4	41.3	501.338	11.9702	206.798	0.02069
03:11:09 AM	265	497262	1606.91	342.976	1.01945	348.476	58.7373	50.799005	997.663	510.097	3.31579	3.87454	105.56	301.01	1.26849	24.9	79.4412	495.016	104.8	74.4	79.9	26.4	41.3	497.924	11.9172	207.114	0.01182

03:11:10 AM	265	497263	1608.11	342.388	1.01945	348.564	58.7443	50.7063	990.05	997.663	511.203	3.25802	3.88829	105.689	302.12	1.31344	24.9	79.4076	495.003	104.8	74.4	79.9	26.4	41.3999	494.478	11.9616	207.27	0.1064
03:11:11 AM	265	497264	1607.85	342.503	1.01946	348.65	58.7602	50.7476	990.05	997.663	512.921	3.25507	3.88906	105.629	301.123	1.29538	24.9	79.4014	495.001	104.739	74.4	79.9	26.4	41.4	491.255	11.9779	207.324	0.1064
03:11:12 AM	265	497265	1607.99	342.264	1.01946	348.74	58.7772	50.7411	990.05	997.663	514.853	3.30206	3.89135	106.029	302.287	1.31439	24.9	79.4003	495	104.707	74.4	79.9	26.4	41.4	487.857	12.0801	207.385	0.1064
03:11:13 AM	265	497266	1607.9	342.691	1.01946	348.821	58.7824	50.7358	990.05	997.663	510.66	3.32715	3.89594	105.701	302.085	1.33054	24.9	79.4	494.99	104.701	74.4	79.9	26.4	41.4	484.442	11.9433	207.54	0.1064
03:11:14 AM	265	497267	1607.31	343.125	1.01945	348.888	58.7859	50.7199	990.05	997.663	512.983	3.4531	3.88829	105.382	302.086	1.31023	24.9	79.3431	494.917	104.7	74.4	79.9	26.4	41.4	481.164	11.8755	207.706	0.1064
03:11:15 AM	265	497268	1607.44	342.969	1.01945	348.967	58.7899	50.7207	990.05	997.663	515.013	3.52438	3.88982	104.985	302.184	1.28593	24.9	79.308	494.903	104.7	74.4	79.9	26.4	41.4	477.857	11.9471	207.766	0.1064
03:11:16 AM	265	497269	1607.86	342.424	1.01946	349.057	58.8035	50.7246	990.05	997.663	509.121	3.35061	3.89441	105.159	302.712	1.28648	24.9	79.3015	494.901	104.659	74.4	79.9	26.3229	41.4	474.631	11.9408	207.69	0.1064
03:11:17 AM	265	497270	1607.96	342.769	1.01945	349.124	58.8217	50.7233	990.05	997.663	512.024	3.54477	3.90052	105.22	303.122	1.29413	24.9	79.3003	494.9	104.611	74.4	79.9	26.3694	41.4	471.289	11.9854	207.364	0.183251
03:11:18 AM	265	497271	1607.57	342.796	1.01946	349.172	58.8319	50.7245	990.05	997.663	512.899	3.4603	3.89976	105.267	300.902	1.28965	24.9	79.3	494.9	104.602	74.4	79.9	26.3374	41.4	468.008	11.8994	207.102	1.41281
03:11:19 AM	265	497272	1606.93	342.682	1.01945	349.231	58.8373	50.7181	990.05	997.663	507.642	3.36757	3.89517	104.8	301.954	1.26354	24.9	79.3	494.9	104.6	74.4	79.9	26.3069	41.4	464.738	11.8855	206.935	1.3064
03:11:20 AM	265	497273	1607.58	343.042	1.01946	349.297	58.8413	50.7391	990.05	997.663	511.43	3.46535	3.89288	105.207	301.623	1.27618	24.9	79.3	494.9	104.6	74.4	79.9	26.3013	41.4	461.26	11.9701	206.8	1.3064
03:11:21 AM	265	497274	1607.96	343.138	1.01946	349.354	58.8421	50.7269	990.046	997.663	511.941	3.32484	3.89517	105.236	302.267	1.29496	24.9	79.3	494.9	104.6	74.4	79.9	26.3002	41.4	457.889	11.9843	206.81	1.3064
03:11:22 AM	265	497275	1606.85	343.062	1.01946	349.404	58.8456	50.7124	990.046	997.663	505.086	3.31926	3.89823	104.815	301.755	1.30386	24.9	79.3	494.9	104.67	74.4	79.9	26.3	41.4	454.548	11.9506	206.752	1.3064
03:11:23 AM	265	497276	1608.19	343.093	1.01946	349.453	58.8577	50.7272	990.046	997.663	513.913	3.3639	3.90128	105.267	301.365	1.29316	24.9	79.3	494.9	104.696	74.4	79.9	26.3	41.4	451.286	11.9327	206.793	1.3064
03:11:24 AM	265	497277	1608.09	343.411	1.01946	349.503	58.8752	50.7249	990.046	997.663	515.024	3.16514	3.89441	105.066	301.036	1.29815	24.9	79.3	494.853	104.699	74.4	79.9	26.3	41.4	447.876	11.9438	206.922	1.31527
03:11:25 AM	265	497278	1607.88	343.121	1.01947	349.565	58.8885	50.7048	990.048	997.663	517.6	3.33065	3.90128	105.461	302.153	1.30497	24.9	79.1628	494.81	104.7	74.4	79.9	26.3	41.4	444.527	12.0018	206.959	1.31527
03:11:26 AM	265	497279	1607.71	343.221	1.01946	349.631	58.9103	50.7481	990.049	997.663	516.575	3.29265	3.90128	105.272	302.945	1.29263	24.9	79.1116	494.802	104.7	74.4	79.9	26.3	41.4	441.105	12.0663	207.017	1.3064
03:11:27 AM	265	497280	1607.61	343.455	1.01947	349.674	58.9202	50.7657	990.049	997.663	513.364	3.3377	3.8967	105.09	302.017	1.2743	24.9	79.1022	494.8	104.7	74.4	79.9	26.3	41.4	437.863	12.0783	207.145	1.31527
03:11:28 AM	265	497281	1608.37	343.131	1.01946	349.704	58.9175	50.7514	990.049	997.663	510.955	3.24095	3.89594	105.277	301.257	1.27282	24.9	79.1004	494.8	104.7	74.4	79.9	26.3	41.4	434.515	11.9769	207.397	1.31527
03:11:29 AM	265	497282	1608.68	343.358	1.01947	349.724	58.9233	50.7548	990.049	997.663	510.884	3.19936	3.89976	105.16	302.034	1.32176	24.9	79.1001	494.8	104.7	74.4	79.9	26.3	41.4	430.998	12.1563	207.814	1.32414
03:11:30 AM	265	497283	1608.04	343.603	1.01948	349.758	58.9266	50.7685	990.049	997.663	513.267	3.13808	3.89823	105.362	301.957	1.31085	24.9	79.1	494.641	104.7	74.4	79.9	26.3	41.4	427.733	12.2204	208.355	1.3064
03:11:31 AM	265	497284	1608.25	343.455	1.01948	349.802	58.9374	50.7783	990.049	997.663	519.492	3.22246	3.90281	105.19	301.649	1.30702	24.9	79.1	494.608	104.7	74.4	79.9	26.3	41.4	424.451	11.9919	208.819	1.29754
03:11:32 AM	265	497285	1607.53	343.197	1.01948	349.851	58.9479	50.7765	990.049	997.663	517.818	3.15477	3.90434	105.078	300.877	1.2856	24.9	79.1	494.601	104.7	74.4	79.8314	26.3	41.4	421.083	12.1093	209.12	1.3064
03:12:45 AM	265	497358	1407.83	331.749	1.02013	338.34	49.9274	50.7827	990.052	997.663	406.791	1.36098	3.4291	113.661	276.086	1.33289	25.1	73.2011	477.001	103.6	74.2	79.9	26.4	41.2	479.554	10.3095	207.507	0
03:12:46 AM	265	497359	1409.19	331.59	1.02012	338.312	49.9226	50.7727	990.052	997.663	410.962	1.27363	3.42604	113.575	276.398	1.31886	25.1	73.2002	477	103.6	74.2	79.9	26.4	41.2	476.696	10.2741	208.069	0
03:12:47 AM	265	497360	1412.42	330.776	1.02013	338.303	49.9315	50.7718	990.052	997.436	408.822	1.18778	3.44514	113.657	277.614	1.31579	25.1	73.2	476.719	103.6	74.2	79.9	26.4	41.2	473.761	10.2705	208.496	0.008867
03:12:48 AM	265	497361	1407.83	331.618	1.02013	338.322	49.9238	50.7789	990.052	997.436	401.922	1.50548	3.42451	113.839	276.422	1.30613	25.1	73.0697	476.459	103.6	74.2	79.9	26.3	41.2	470.892	10.2874	209.012	0.230542

03:12:49 AM	265	497362	1408.37	331.431	1.02013	338.334	49.9058	50.7776	990.049	997.436	412.48	1.14801	3.43597	113.912	276.854	1.30276	25.1	73.0129	476.411	103.6	74.2	79.9	26.308	41.2	468	10.4266	209.555	0.02069
03:12:50 AM	265	497363	1412.7	331.672	1.02013	338.332	49.8888	50.7645	990.049	997.436	405.928	1.14153	3.44743	113.862	276.375	1.28393	25.1	73.0024	476.402	103.443	74.2	79.9	26.3015	41.2	465.05	10.4387	210.098	0.1064
03:12:51 AM	265	497364	1407.8	332.157	1.02013	338.328	49.8706	50.7794	990.049	997.663	403.518	0.93662	3.43597	114.013	276.697	1.33847	25.1	73.0004	476.4	103.327	74.2	79.9	26.3003	41.2	461.927	10.4859	210.779	0.02069
03:12:52 AM	265	497365	1407.4	332.241	1.02013	338.347	49.8954	50.7871	990.049	997.436	406.403	1.33671	3.4375	113.676	276.737	1.32852	25.1	73.0001	476.4	103.305	74.2	79.9	26.3001	41.2	458.913	10.493	211.64	0.174384
03:12:53 AM	265	497366	1407.2	332.163	1.02013	338.37	49.9193	50.7787	990.049	997.436	406.044	1.37966	3.4375	113.839	276.691	1.31454	25.1	72.9729	475.937	103.301	74.2	79.9	26.3	41.2	456.095	10.482	212.587	0.260099
03:12:54 AM	265	497367	1406.7	332.272	1.02013	338.384	49.9281	50.7729	990.049	997.663	406.415	1.23215	3.43903	113.253	276.266	1.30756	25.1	72.9135	475.825	103.3	74.2	79.9	26.3	41.2	453.247	10.4786	213.361	0.144828
03:12:55 AM	265	497368	1401.7	333.073	1.02013	338.392	49.9154	50.7791	990.049	997.436	412.982	1.30306	3.38936	112.942	275.48	1.29935	25.1	72.9025	475.805	103.3	74.2	79.9	26.3	41.2	450.51	10.457	213.886	0.02069
03:12:56 AM	265	497369	1405.4	330.684	1.02013	338.428	49.8582	50.768	990.046	997.663	407.764	1.31915	3.46042	113.118	276.159	1.32287	25.1	72.9005	475.801	103.3	74.2	79.9	26.3	41.1	447.637	10.4355	214.151	0.1064
03:12:57 AM	265	497370	1404.6	331.441	1.02013	338.456	49.8235	50.7801	990.046	997.436	399.912	1.35288	3.43979	113.29	274.907	1.3136	25.1	72.9001	475.8	103.3	74.2	79.9	26.2185	41.0197	444.823	10.4125	214.194	0.1064
03:12:58 AM	265	497371	1411.3	330.784	1.02013	338.442	49.8073	50.774	990.046	997.436	403.437	1.36369	3.45431	112.461	275.998	1.30519	25.1	72.9	475.487	103.3	74.2	79.9	26.2034	41.0037	441.842	10.4386	214.134	0.085714
03:12:59 AM	265	497372	1408.0	332.041	1.02013	338.393	49.8249	50.7751	990.046	997.436	405.194	1.37372	3.43826	112.598	276.581	1.31095	25.1	72.7458	475.253	103.3	74.2	79.9	26.2658	41.0007	439.01	10.4749	213.989	0.05025
03:13:00 AM	265	497373	1411.7	332.485	1.02014	338.359	49.8669	50.7874	990.046	997.436	406.033	1.30772	3.43444	113.007	276.309	1.31357	25.1	72.7085	475.21	103.3	74.3588	79.9	26.2468	41.0001	436.131	10.4067	213.83	1.52808
03:13:01 AM	265	497374	1410.9	331.883	1.02013	338.363	49.9197	50.7837	990.046	997.436	411.714	1.17007	3.43674	112.831	275.152	1.31361	25.1	72.7016	475.202	103.026	74.3924	79.9	26.2087	41	433.276	10.4202	213.64	1.38325
03:13:02 AM	265	497375	1410.9	331.396	1.02014	338.397	49.9589	50.7992	990.046	997.436	410.484	1.11247	3.45737	112.223	275.597	1.31977	25.1	72.7003	475.2	102.923	74.3986	79.9	26.2016	40.9185	430.454	10.3011	213.457	1.28571
03:13:03 AM	265	497376	1413.3	331.865	1.02014	338.439	49.9941	50.7858	990.046	997.436	407.297	0.849111	3.46042	113.113	274.82	1.30267	25.1	72.7001	475.065	102.904	74.3997	79.9	26.2003	40.9034	427.548	10.279	213.004	1.28571
03:13:04 AM	265	497377	1406.3	331.746	1.02013	338.473	49.9914	50.7794	990.046	997.436	402.392	0.93723	3.43903	113.828	275.461	1.32411	25.1	72.5957	474.768	102.901	74.3999	79.9	26.2001	40.9006	424.658	10.2573	212.332	1.27685
03:13:05 AM	265	497378	1407.9	332.058	1.02013	338.47	49.9691	50.7822	990.046	997.436	408.089	0.810153	3.43444	113.162	276.287	1.33042	25.1	72.5177	474.713	102.9	74.2861	79.9	26.2	40.9	421.762	10.2866	211.509	1.28571
03:13:06 AM	265	497379	1404.2	332.619	1.02013	338.447	49.9254	50.7757	990.049	997.436	407.685	1.24204	3.42528	113.36	275.258	1.32999	25.1	72.5033	474.702	102.969	74.216	79.8206	26.2	40.9	418.95	10.3168	210.777	1.27685
03:13:07 AM	265	497380	1407.4	331.272	1.02013	338.434	49.8786	50.7815	990.049	997.436	409.433	1.29972	3.46577	113.401	276.631	1.30998	25.1	72.5006	474.7	103.076	74.203	79.8038	26.2	40.9	416.104	10.3059	210.367	1.27685
03:13:08 AM	265	497381	1407.7	331.867	1.02013	338.414	49.8658	50.7826	990.049	997.436	412.919	1.2439	3.45278	112.895	276.476	1.30595	25.1	72.5001	474.7	103.095	74.205	79.8007	26.2	40.9	413.326	10.3195	210.288	1.27685
03:13:09 AM	265	497382	1406.9	331.999	1.02013	338.397	49.8538	50.7828	990.05	997.436	411.756	1.0697	3.45049	113.271	276.291	1.30879	25.1	72.5	474.357	103.099	74.201	79.8001	26.2	40.9	410.437	10.1999	210.464	1.26798
03:13:10 AM	265	497383	1408.7	331.569	1.02013	338.401	49.8766	50.7828	990.05	997.436	411.137	0.941251	3.46653	112.965	276.44	1.28724	25.1	72.3371	474.229	103.1	74.21	79.8	26.2	40.9	407.626	10.186	210.524	1.26798
03:13:11 AM	265	497384	1413.5	332.769	1.02013	338.439	49.9232	50.7828	990.053	997.436	406.937	1.29746	3.42833	112.843	276.908	1.29489	25.1	72.3069	474.205	103.1	74.2833	79.8	26.143	40.9	404.776	10.1665	210.283	1.26798
03:13:12 AM	265	497385	1410.2	332.457	1.02013	338.485	49.9639	50.7828	990.053	997.436	413.732	1.32995	3.44896	113.319	276.248	1.32821	25.1	72.3013	474.201	102.951	74.2969	79.8	26.108	40.9	401.889	10.2095	209.697	1.26798
03:13:13 AM	265	497386	1406.8	332.186	1.02011	338.537	49.9955	50.7647	990.056	997.436	412.634	1.39371	3.45278	113.377	276.305	1.29526	25.1	72.3002	474.2	102.909	74.2994	79.8	26.1015	40.9	399.161	10.2268	208.991	1.25911
03:13:14 AM	265	497387	1408.3	331.806	1.02012	338.568	50.0075	50.7711	990.056	997.436	398.894	1.21723	3.45813	112.797	276.837	1.34092	25.1	72.3	473.995	102.902	74.299	79.8	26.1003	40.9	396.29	10.2432	208.434	1.26798
03:14:37 AM	265	497470	1207.6	306.426	1.02015	314.52	39.8354	50.7969	990.039	997.436	308.485	1.11789	2.97448	116.012	249.705	1.42244	25.1	66.2	453.272	101.598	74.3995	79.8993	25.5	41.0279	8.3342	210.417	0.01182	

03:14:38 AM	265	497471	1211.84	308.769	1.02014	314.516	39.8515	50.7854	990.041	997.436	307.181	1.12185	2.93475	116.34	248.903	1.41933	25.1	66.2613	452.888	101.6	74.3999	79.8999	25.5866	41.0985	200.113	8.15223	210.902	0.01182
03:14:39 AM	265	497472	1217.29	308.979	1.02014	314.506	39.8956	50.7772	990.041	997.134	309.837	1.29903	2.93933	115.778	250.656	1.48329	25.1	66.2928	452.816	101.6	74.3348	79.89	25.5975	41.0997	197.418	8.21043	210.736	0.08867
03:14:40 AM	265	497473	1220.64	311.483	1.02014	314.606	39.9457	50.7041	990.041	997.436	310.299	1.13961	2.8912	115.887	248.108	1.43637	25.1	66.2987	452.803	101.366	74.3065	79.8167	25.5995	41.0999	195.312	8.34507	210.93	0.01182
03:14:41 AM	265	497474	1207.86	309.342	1.02014	314.818	40.046	50.790	990.041	997.436	309.11	0.897903	2.91565	115.242	247.435	1.37053	25.1	66.2998	452.801	101.149	74.3012	79.8031	25.543	40.8762	193.287	8.23504	210.824	0.133005
03:14:42 AM	265	497475	1217.13	308.438	1.02032	314.944	40.0941	50.7836	990.041	997.436	306.631	1.3561	2.95461	115.172	249.822	1.44121	25.157	66.3	452.8	101.109	74.3002	79.8006	25.508	40.8141	190.509	8.32708	210.351	0
03:14:43 AM	265	497476	1215.22	309.763	1.02044	314.999	40.1221	50.7829	990.043	997.134	311.023	1.4976	2.94545	114.901	246.928	1.41117	25.192	66.1968	452.502	101.102	74.3	79.8001	25.5015	40.8026	188.321	8.27518	210.461	0.076847
03:14:44 AM	265	497477	1209.4	310.083	1.02046	315.078	40.1023	50.7726	990.043	997.436	310.645	1.32298	2.9485	115.352	248.028	1.4823	25.1985	66.0365	452.419	101.1	74.3	79.8	25.5003	40.8005	185.767	8.36465	210.374	0.056158
03:14:45 AM	265	497478	1221.36	309.646	1.02046	315.211	40.1225	50.776	990.044	997.134	307.595	1.32926	2.95461	115.321	248.943	1.49235	25.1997	66.0068	452.404	101.1	74.3	79.9225	25.5001	40.8001	183.499	8.24613	210.711	0.162562
03:14:46 AM	265	497479	1213.83	311.261	1.02046	315.394	40.1608	50.7815	990.044	997.436	310.217	1.20776	2.88203	115.458	246.825	1.4516	25.1999	66.0013	452.401	101.1	74.3	79.9856	25.4349	40.841	181.425	8.52925	211.076	0.1064
03:14:47 AM	265	497480	1215.56	308.748	1.02044	315.509	40.1448	50.7826	990.046	997.134	309.924	1.26629	2.96913	115.451	247.024	1.46963	25.19	66.0002	452.4	101.1	74.3	79.9973	25.4065	40.8891	178.948	8.43757	211.552	0.1064
03:14:48 AM	265	497481	1215.88	311.003	1.02019	315.58	40.1868	50.7828	990.046	997.134	309.029	1.2718	2.94468	115.369	248.125	1.42191	25.1167	66	452.172	101.1	74.3	79.9995	25.4012	40.898	176.95	8.41809	212.249	0.08867
03:14:49 AM	265	497482	1211.84	310.732	1.02015	315.629	40.1746	50.7828	990.046	997.436	310.845	1.29588	2.95385	115.652	247.874	1.49716	25.1031	66	452.032	101.1	74.3	79.9999	25.4002	40.8996	174.234	8.37455	212.962	0.017734
03:14:50 AM	265	497483	1216.82	311.251	1.02014	315.711	40.2041	50.7828	990.044	997.134	311.62	1.10323	2.9187	116.075	246.886	1.45449	25.1006	66	452.006	101.1	74.3	80	25.4	40.8999	172.193	8.33318	213.575	0.017734
03:14:51 AM	265	497484	1212.36	308.122	1.02014	315.837	40.2447	50.8085	990.044	997.436	303.803	1.10936	2.9699	115.617	247.759	1.46714	25.1001	66	452.001	101.1	74.3	80	25.4	40.9	169.748	8.3728	213.475	1.43054
03:14:52 AM	265	497485	1220.45	307.069	1.02014	315.955	40.2552	50.7876	990.044	997.436	312.973	1.26855	3.00657	115.056	249.709	1.40452	25.1	66	452	101.1	74.3	80	25.4	40.7371	167.745	8.3827	213.129	1.28571
03:14:53 AM	265	497486	1221.63	308.759	1.02014	315.959	40.3035	50.7928	990.044	997.436	308.246	1.08485	2.9783	115.467	248.669	1.39437	25.1	66	451.96	101.1	74.3	80	25.4	40.7069	165.519	7.90861	212.396	1.27685
03:14:54 AM	265	497487	1216.67	308.825	1.02014	315.891	40.2772	50.7865	990.044	997.436	309.639	1.13932	2.95538	115.583	248.026	1.43021	25.1	65.9063	451.667	101.1	74.3	80	25.4	40.7013	163.192	7.9113	210.979	1.26798
03:14:55 AM	265	497488	1228.1	308.193	1.02014	315.892	40.2817	50.7835	990.044	997.436	303.947	1.32474	2.94086	115.824	250.118	1.47633	25.1	65.8197	451.612	101.1	74.3	80	25.4	40.7002	160.56	8.13851	209.31	1.26798
03:14:56 AM	265	497489	1216.1	307.326	1.02014	315.9	40.2961	50.7829	990.043	997.436	304.565	1.28757	2.97983	115.64	248.737	1.45873	25.1	65.8036	451.602	101.062	74.3	79.9254	25.4	40.7	158.559	7.93623	207.123	1.25911
03:14:57 AM	265	497490	1213.45	310.729	1.02014	315.807	40.2503	50.7828	990.041	997.436	312.627	1.38291	2.92023	115.644	246.494	1.49459	25.1	65.8007	451.6	100.93	74.3	79.9047	25.3314	40.7	155.874	8.0764	204.807	1.25911
03:14:58 AM	265	497491	1212.1	309.872	1.02013	315.716	40.2035	50.758	990.041	997.134	315.576	1.1288	2.93551	115.474	247.375	1.43156	25.1	65.8001	451.6	100.906	74.3	79.9009	25.3053	40.7	154.063	8.20597	203.746	1.24729
03:14:59 AM	265	497492	1210.64	308.68	1.02014	315.671	40.1312	50.7782	990.041	997.134	305.999	1.17806	2.98136	115.208	247.416	1.39683	25.1	65.79	451.209	100.901	74.3	79.9002	25.342	40.7	151.832	8.00115	203.711	1.25911
03:15:00 AM	265	497493	1212.19	309.624	1.02014	315.64	40.0838	50.7819	990.041	997.436	304.88	1.37781	2.93781	115.501	247.431	1.37298	25.1	65.7167	451.039	100.9	74.3	79.9	25.3793	40.7	149.769	7.93898	204.115	1.25911
03:15:01 AM	265	497494	1212.76	308.047	1.02014	315.609	40.0679	50.7826	990.041	997.134	310.705	1.24898	2.99587	115.105	247.506	1.40086	25.1	65.7031	451.007	100.9	74.3	79.9469	25.3147	40.7	147.395	7.90924	204.862	1.25911
03:15:02 AM	265	497495	1219.43	310.757	1.02014	315.514	40.1114	50.7806	990.041	997.134	306.043	1.22436	2.91259	115.84	245.783	1.32725	25.1	65.7006	451.001	100.825	74.3	79.9902	25.3027	40.7	145.169	7.87995	204.75	1.24729
03:15:03 AM	265	497496	1220.89	307.785	1.02014	315.4	40.1601	50.7843	990.043	997.134	305.108	1.19627	2.98671	115.517	248.807	1.44418	25.1	65.7001	451	100.805	74.3	79.9982	25.3005	40.7	142.617	8.23744	203.702	1.23842
03:15:04 AM	265	497497	1210.65	309.785	1.02014	315.288	40.1811	50.7782	990.043	997.436	298.078	1.21124	2.94086	115.975	247.684	1.42264	25.1	65.7	450.754	100.801	74.3	79.9997	25.3001	40.7	140.339	8.551289	203.289	1.24729

03:15:05 AM	265	497498	1208.72	307.425	1.02014	315.258	40.1329	50.7819	990.043	997.436	303.249	1.26534	3.02644	114.554	249.139	1.39528	25.1	65.5697	450.466	100.8	74.3	79.9999	25.3	40.7	138.117	8.41792	203.985	1.23842
03:15:06 AM	265	497499	1212.51	309.008	1.02014	315.265	40.0683	50.7826	990.043	997.134	301.776	1.07104	2.94086	114.81	247.206	1.32127	25.1	65.5129	450.412	100.8	74.3	80	25.3	40.7	136.268	8.22462	205.964	1.23842
03:16:39 AM	265	497592	1043.39	247.506	1.02046	259.534	27.6555	50.7990	990.046	997.134	142.469	3.64973	2.37072	112.823	215.661	1.42946	25.2	57.4035	404.705	98.1	74.1	79.6891	25.9953	40.5	553.463	5.28985	197.845	0
03:16:40 AM	265	497593	1034.17	253.71	1.02046	259.299	27.6625	50.7822	990.046	997.134	139.684	3.23181	2.29039	113.988	216.197	1.41439	25.2	57.4006	404.701	98.1	74.1	79.698	25.9991	40.5	551.922	5.28309	197.314	0.008867
03:16:41 AM	265	497594	1015.45	248.891	1.02046	258.997	27.6462	50.7827	990.046	997.134	131.35	3.475	2.38525	113.053	215.497	1.3874	25.2	57.4001	404.54	98.1	74.1	79.6996	25.9998	40.5	550.477	5.26571	196.581	0.1064
03:16:42 AM	265	497595	1031.19	252.403	1.02046	258.672	27.6326	50.7828	990.046	997.134	140.784	3.18066	2.38678	113.085	216.115	1.42375	25.2	57.3063	403.367	98.1	74.1	79.6999	26	40.5	548.98	5.24851	195.856	0
03:16:43 AM	265	497596	1012.91	250.723	1.02046	258.477	27.5785	50.7828	990.046	997.134	140.638	3.364	2.41891	113.201	215.676	1.38103	25.2	57.2197	403.149	98.1	74.1522	79.7	26	40.5	547.529	5.22025	195.305	0.1064
03:16:44 AM	265	497597	1035.61	255.246	1.02045	258.33	27.5936	50.7683	990.046	996.908	143.622	2.89544	2.43421	112.709	218.808	1.36214	25.2	57.2037	403.109	97.9645	74.1911	79.7	26	40.5	545.972	5.22301	194.857	0.1064
03:16:45 AM	265	497598	1025.94	261.152	1.02046	258.467	27.8061	50.7901	990.046	997.134	148.87	3.13048	2.31334	113.46	215.04	1.36399	25.2	57.2007	403.102	97.6675	74.1984	79.7	26	40.4349	544.484	5.26169	194.185	0.02069
03:16:46 AM	265	497599	1016.28	253.711	1.02047	258.772	27.9066	50.8046	990.046	997.134	143.509	3.24242	2.40285	113.23	216.507	1.41774	25.2	57.2001	403.1	97.6125	74.1997	79.7	26	40.4065	542.99	5.27646	193.321	0.1064
03:16:47 AM	265	497600	1012.07	260.368	1.02046	259.209	28.0713	50.7888	990.046	997.134	136.18	3.65333	2.20471	114.448	212.32	1.31351	25.2	57.2	403.1	97.6023	74.1999	79.7	26.019	40.4012	541.517	5.27658	192.488	0.094581
03:16:48 AM	265	497601	1026.54	254.855	1.02046	259.652	28.0793	50.7836	990.046	997.134	144.436	3.27003	2.32711	113.536	214.63	1.37842	25.2	56.9556	403.1	97.6004	74.2	79.7	26.085	40.4002	540.013	5.31127	191.747	0.115271
03:16:49 AM	265	497602	1011.15	255.105	1.02047	259.941	27.9799	50.8021	990.046	997.134	142.5	3.16214	2.3164	113.402	214.007	1.39926	25.2	56.9103	403.1	97.6001	74.2815	79.7	26.0972	40.4	538.54	5.3204	191.723	0.106404
03:16:50 AM	265	497603	1012.11	264.087	1.02047	260.055	27.9485	50.7939	990.046	997.134	156.615	3.42427	2.13892	114.794	211.052	1.30771	25.2	56.9019	403.1	97.6718	74.2966	79.7	26.0995	40.3458	537.116	5.3592	192.194	0.047291
03:16:51 AM	265	497604	1033.08	254.262	1.02047	260.141	27.9406	50.7963	990.046	997.134	142.694	3.42734	2.2552	114.055	213.232	1.41493	25.2	56.9004	403.1	97.6948	74.2994	79.7	26.0999	40.227	535.734	5.26333	192.988	0.094581
03:16:52 AM	265	497605	1037.71	249.929	1.0197	260.276	28.007	50.8094	990.046	997.134	131.983	3.40544	2.34088	113.542	215.204	1.36712	24.9618	56.9001	402.412	97.6999	74.2999	79.7	26.105	40.227	534.227	5.30282	193.607	0.085714
03:16:53 AM	265	497606	1022.17	254.736	1.01952	260.293	28.0183	50.7877	990.046	996.908	144.493	3.05707	2.35924	113.733	216.006	1.3622	24.9114	56.8388	401.343	97.6998	74.3	79.7	26.1009	40.2002	532.619	5.3175	193.738	0.05025
03:16:54 AM	265	497607	1012.71	261.733	1.0195	260.315	27.8999	50.8212	990.046	996.908	149.697	3.2713	2.27815	114.023	214.006	1.37235	24.9021	56.8072	401.145	97.7	74.4372	79.7	26.1002	40.2002	531.14	5.35546	193.772	1.72315
03:16:55 AM	265	497608	1018.71	259.007	1.01949	260.48	27.7524	50.7974	990.046	996.908	153.557	2.84327	2.31258	113.51	215.299	1.42007	24.9004	56.8013	401.108	97.5291	74.4884	79.7815	26.1	40.2	529.617	5.30524	193.936	1.5399
03:16:56 AM	265	497609	1008.83	257.748	1.01949	260.809	27.6697	50.8088	990.046	997.134	144.373	3.18393	2.35924	113.503	215.601	1.36113	24.9001	56.8002	401.102	97.4239	74.4978	79.7966	26.1	40.3492	528.121	5.31163	194.508	1.51921
03:16:57 AM	265	497610	1027.08	260.422	1.01949	261.053	27.7755	50.792	990.046	997.134	142.632	3.26046	2.25826	114.012	213.862	1.36264	24.9	56.8	401.1	97.4044	74.4996	79.7994	26.1	40.3906	526.608	5.33476	195.221	1.51921
03:16:58 AM	265	497611	1009.63	251.147	1.01948	261.128	27.9628	50.7845	990.046	997.134	139.247	3.28127	2.37072	113.091	215.271	1.43297	24.9	56.6772	401.1	97.4008	74.4999	79.7999	26.1	40.3983	525.188	5.33566	195.352	1.51921
03:16:59 AM	265	497612	1010.24	251.586	1.0195	260.869	28.0192	50.8206	990.046	997.134	146.199	3.05162	2.42274	112.679	216.513	1.41051	24.9	56.5328	401.1	97.4002	74.3771	79.8	26.1	40.3997	523.629	5.35603	194.959	1.51034
03:17:00 AM	265	497613	1033.29	263.287	1.01949	260.494	28.0313	50.7898	990.046	996.908	144.026	2.95181	2.21389	114.049	213.907	1.38536	24.9	56.5061	401.1	97.4	74.2328	79.8	26.1	40.3999	522.085	5.37812	194.543	1.49852
03:17:01 AM	265	497614	1020.75	254.195	1.01949	260.459	27.9504	50.7885	990.046	997.134	140.474	3.04652	2.3952	112.796	216.222	1.41225	24.9	56.5011	401.1	97.4	74.2061	79.8	26.1746	40.4	520.65	5.4031	194.35	1.49852
03:17:02 AM	265	497615	1007.22	258.372	1.01948	260.581	27.9243	50.7839	990.046	997.134	145.366	3.23763	2.32864	113.012	214.005	1.44547	24.9	56.5002	401.1	97.4	74.2011	79.8	26.1383	40.4	519.092	5.44212	194.83	1.48966
03:17:03 AM	265	497616	1021.94	265.234	1.01949	260.635	27.9648	50.7993	990.046	997.134	161.291	2.39575	2.28351	113.601	215.35	1.43069	24.9	56.5	400.549	97.4	74.2002	79.8	26.1071	40.4	517.489	5.4505	195.752	1.48079

03:17:04 AM	265	497617	1027.6 2	266.59 5	1.01949	260.814	28.099 7	50.7 942	990. 046	997.134	156.814	2.858 35	2.202 42	114.5 09	212.25 3	1.41 7	24.9	56.3458	400.2 65	97.4	74.2	79.8	26.1 203	40.4	516.0 57	5.410 84	196. 481	1.48 079
03:17:05 AM	265	497618	1049.2 4	250.16 2	1.01949	261.217	28.209 5	50.7 976	990. 046	997.134	154.391	3.002 93	2.444 92	112.8 96	218.39 1	1.37 899	24.9	56.3085	400.2 12	97.4	74.27 71	79.8	26.1 852	40.4	514.5 46	5.401 66	196. 827	1.48 079
03:17:06 AM	265	497619	1025.7 8	253.42 8	1.01951	261.754	28.239 5	50.8 421	990. 046	997.134	147.762	3.047 15	2.377 6	112.5 31	216.52	1.40 905	24.9	56.3016	400.2 02	97.269 7	74.29 58	79.8	26.1 201	40.4	512.9 57	5.432 63	196. 72	1.47 192
03:17:07 AM	265	497620	1015.4 4	256.54 7	1.0195	261.905	28.079 7	50.8 208	990. 046	997.134	145.507	2.787 5	2.364 6	113.3 05	216.54 9	1.42 24	24.9	56.3003	400.2	97.212 9	74.29 92	79.8	26.1 689	40.4	511.4 68	5.439 64	196. 465	1.47 192
03:17:08 AM	265	497621	1030.7 8	256.75 3	1.0195	261.859	27.912 4	50.8 205	990. 046	997.134	149.172	2.465 08	2.454 87	113.2 5	218.66 8	1.41 654	24.9	56.3001	400.0 86	97.202 4	74.29 99	79.8	26.1 942	40.4	509.8 79	5.454 61	196. 61	1.47 192

APPENDIX O: RAW DATA – BF50 BLEND AT 15°BTDC

Manual Log Description : Power Curve on 50%
 biofuel & 50% base diesel
 Manual Log Start Date :
 2012/01/17
 Manual Log Start Time :
 11:55:14 AM

TIME	mSec	Eng_Ti me	Spee d	Torq ue	~ECE_Corr_ Factor	~Torque _Corr	~Power _Corr	Humi dity	~P_ Baro	P_Pre_Co mpressor	P_Post_Co mpressor	P_Exh aust	P_Oil_ Filter	P_Co ol_In	P_Cool _Out	P_F uel	T_Air_In_ Snorkel	T_Post_Co mpressor	T_Exh aust	T_Oil_ Sump	T_Co ol_In	T_Cool _Out	T_Fu el	T_C ell	Fuel_ Mass	Fuel_ Flow	~SFC	Smok e
11:55:16 AM	578	491915	2614	238.249	1.01967	244.127	66.8865	46.872	990.943	997.436	848.082	9.23361	5.03973	24.0803	453.335	1.48024	25.8	101.697	459.198	105.94	75.919	80.0709	27.8999	40.5001	486.477	16.4725	252.211	0.017734
11:55:17 AM	578	491918	2614.53	238.457	1.01968	243.996	66.7061	46.8756	990.943	997.436	846.658	9.38794	5.02751	25.199	455.066	1.48133	25.8	101.7	459.2	106.233	75.985	80.1761	27.9	40.5	475.83	16.5034	251.881	0.260099
11:55:18 AM	578	491919	2612.5	236.784	1.01968	243.865	66.5579	46.8763	990.943	997.436	835.586	9.32115	5.01299	24.9424	454.674	1.48027	25.8	101.639	459.2	106.288	75.9972	80.1956	27.9	40.5	470.195	16.492	251.885	0.04138
11:55:19 AM	578	491920	2614.52	236.986	1.01968	243.71	66.4473	46.8764	990.943	997.436	842.554	9.37785	5.03973	25.5709	455.463	1.46598	25.8	101.607	459.2	106.298	76.7346	80.2892	27.9	40.5	465.397	16.507	252.195	0.008867
11:55:20 AM	578	491921	2614.08	238.287	1.01967	243.522	66.3727	46.8689	990.943	997.436	846.612	9.38836	5.03667	26.058	455.437	1.45751	25.8	101.601	459.2	106.44	77.1138	80.9498	27.9	40.5	460.941	16.4354	252.618	0.1064
11:55:21 AM	578	491922	2613.98	239.428	1.01968	243.374	66.3284	46.875	990.945	997.436	853.233	9.27685	5.03438	25.4928	457.453	1.46543	25.8	101.6	459.2	106.57	77.184	81.0722	27.9	40.3508	456.305	16.4374	252.977	0
11:55:22 AM	578	491923	2613.97	238.637	1.01967	243.371	66.3674	46.8762	990.945	997.436	839.076	9.33293	5.03897	25.1892	455.734	1.46312	25.8	101.6	459.2	106.595	77.197	81.0948	27.9	40.3094	451.766	16.4059	253.126	0.02956
11:55:23 AM	578	491924	2613.87	238.666	1.01966	243.416	66.4674	46.8462	990.951	997.436	846.742	9.23562	5.01375	24.9628	454.675	1.44723	25.8	101.6	458.976	106.599	77.1994	81.099	27.9	40.3017	447.213	16.4509	252.618	0.192118
11:55:24 AM	578	491925	2614.5	238.865	1.01966	243.4	66.585	46.8641	990.95	997.436	856.583	9.25672	5.03438	25.4946	456.693	1.4561	25.8	101.6	458.914	106.6	77.0915	81.0998	27.8387	40.3003	442.716	16.3949	252.595	0.115271
11:55:25 AM	578	491926	2613.97	238.706	1.01966	243.292	66.6586	46.8615	990.952	997.436	840.302	9.01263	5.0596	24.2261	456.776	1.46192	25.8	101.6	458.903	106.6	76.854	80.9046	27.8	40.3641	438.116	16.3767	252.058	0.124138
11:55:26 AM	578	491927	2614.64	239.083	1.01966	243.149	66.668	46.8682	990.954	997.436	845.656	9.17104	5.04814	24.494	456.369	1.46832	25.8	101.6	458.9	106.203	76.81	80.8194	27.859	40.3937	433.473	16.3691	251.532	0.1064
11:55:27 AM	578	491928	2614.51	238.357	1.01966	243.057	66.657	46.8749	990.956	997.436	844.408	9.35004	5.01834	24.1483	455.405	1.46669	25.8	101.6	458.9	106.119	76.8019	80.8036	27.8109	40.4803	428.926	16.3519	251.148	0.1064
11:55:28 AM	578	491929	2614.79	239.852	1.01966	243.041	66.6582	46.8761	990.956	997.663	849.118	9.3832	5.03133	24.5762	453.399	1.47324	25.8	101.6	458.9	106.104	76.8003	80.8007	27.802	40.4963	424.309	16.3769	250.814	0.1064
11:55:29 AM	578	491930	2614.43	240.055	1.01966	243.126	66.697	46.8764	990.956	997.663	853.67	9.38935	5.01605	24.5025	452.671	1.46629	25.8	101.6	458.9	106.101	76.8001	80.8001	27.8004	40.4993	419.736	16.3917	250.584	0.05025
11:55:30 AM	578	491931	2614.41	239.944	1.01966	243.254	66.7634	46.8764	990.956	997.436	858.52	9.48797	5.03515	24.1115	453.47813	1.45813	25.8	101.6	458.9	106.1	75.4889	80.5019	27.8001	40.4999	415.202	16.4068	250.392	1.93171
11:55:31 AM	578	491932	2613.41	238.558	1.01966	243.402	66.837	46.8764	990.956	997.436	842.644	9.40876	5.03438	23.9565	454.656	1.46131	25.8	101.6	458.9	106.214	75.1721	79.8486	27.8	40.5	410.558	16.419	250.238	2.10018
11:55:32 AM	578	491933	2613.91	238.896	1.01965	243.56	66.8733	46.8602	990.956	997.663	844.663	9.34877	5.02216	22.9843	455.269	1.47347	25.8	101.6	458.9	106.284	75.1134	79.7275	27.8	40.5	405.969	16.4456	250.157	2.06036
11:55:33 AM	578	491934	2614.15	238.933	1.01965	243.698	66.8388	46.8437	990.956	997.436	859.41	9.43478	5.02292	22.868	454.331	1.47403	25.8	101.6	458.9	106.297	75.1025	79.7051	27.8	40.5	401.267	16.4632	250.185	2.06036
11:55:34 AM	578	491935	2613.38	239.31	1.01966	243.757	66.758	46.8704	990.954	997.436	843.344	9.12396	5.02674	23.097	453.506	1.4795	25.8	101.6	458.9	106.299	75.1005	79.7009	27.8	40.5	396.671	16.4753	250.391	2.05117
11:55:35 AM	578	491936	2613.45	238.523	1.01967	243.756	66.6878	46.8753	990.95	997.436	845.005	9.34131	5.02445	22.7745	452.806	1.47509	25.8	101.6	458.9	106.3	75.3848	79.7002	27.8	40.5	392.128	16.4775	250.748	2.05117

11:55:36 AM	578	49193 7	2614. 11	238. 898	1.01967	243.74	66.644 7	46.8 762	990. 946	997.436	856.285	9.381 59	5.0435 5	23.06 96	454.37 5	1.47 397	25.8	101.6	458.9	106.38 1	75.56 01	79.771 8	27.8	40.5	387.5 39	16.47 92	251. 214	2.041 98
11:55:37 AM	593	49193 8	2613. 09	239. 174	1.01966	243.746	66.641 4	46.8 509	990. 943	997.436	841.647	9.046 85	5.0313 3	23.17 09	453.92 5	1.47 792	25.8	101.6	458.9	106.55 9	75.59 26	79.794 8	27.8	40.5	382.9 36	16.49 7	251. 641	2.060 36
11:55:38 AM	578	49193 9	2613. 67	239. 421	1.01967	243.77	66.662 5	46.8 717	990. 943	997.436	851.606	9.156 68	5.0244 5	22.56 83	452.07 8	1.47 051	25.8	101.6	458.9	106.59 2	75.59 86	79.799	27.8	40.5	378.4 37	16.47 91	251. 944	2.060 36
11:55:39 AM	578	49194 0	2614. 16	240. 09	1.01967	243.816	66.708	46.8 756	990. 942	997.436	854.755	9.389 34	5.0175 7	22.70 23	452.99 9	1.47 497	25.8	101.6	458.7 77	106.59 9	75.59 97	79.799 8	27.8	40.5	373.8 63	16.43 79	252. 051	2.051 17
11:55:40 AM	578	49194 1	2613. 67	239. 626	1.01967	243.884	66.770 5	46.8 636	990. 941	997.436	852.737	9.390 49	5.0076 4	24.36 66	455.28 7	1.47 808	25.8	101.6	458.7 14	106.6	75.6	79.8	27.8	40.5	369.3 22	16.45 59	251. 979	2.041 98
11:55:41 AM	578	49194 2	2612. 95	238. 854	1.01967	243.946	66.832	46.8 574	990. 941	997.436	846.824	9.241 82	5.0275 1	24.54 16	453.12 5	1.48 031	25.8	101.6	458.7 03	106.6	76.82 2	80.209 5	27.8	40.5	364.7 28	16.45 18	251. 769	2.041 98
11:55:42 AM	578	49194 3	2613. 18	237. 953	1.01968	243.937	66.843 1	46.8 729	990. 941	997.436	850.026	9.300 98	5.0152 8	25.38 87	455.37 3	1.48 812	25.8	101.6	458.7 01	106.6	77.04 85	80.690 6	27.8	40.5	360.0 48	16.47 98	251. 481	2.041 98
11:55:43 AM	578	49194 4	2612. 67	236. 103	1.01968	243.819	66.755 1	46.8 758	990. 941	997.436	840.235	9.374 11	5.0236 9	24.29 88	454.82 3	1.45 813	25.8	101.6	458.7	106.6	77.09 05	80.779 7	27.8	40.5	355.6 64	16.46 95	251. 294	2.051 17
11:55:44 AM	578	49194 5	2613. 41	236. 714	1.01968	243.621	66.575 4	46.8 763	990. 941	997.436	838.506	9.161 22	5.0191 9	24.89 41	456.41 6	1.47 466	25.8	101.6	458.5 28	106.6	77.09 82	80.796 2	27.8	40.5	351.0 91	16.37 03	251. 335	2.041 98
11:55:45 AM	578	49194 6	2614. 25	237. 529	1.01968	243.419	66.357 4	46.8 764	990. 941	997.436	852.361	9.226 78	5.0458 4	24.38 5	457.28 7	1.48 375	25.8	101.6	458.2 61	106.6	77.09 97	80.799 3	27.8	40.5	346.5 62	16.39 05	251. 613	2.041 98
11:57:36 AM	578	49205 7	2410. 26	251. 747	1.01812	256.694	64.818 2	46.9 843	990. 945	997.436	756.38	8.060 75	4.9167 2	35.15 71	410.82 9	1.43 641	25.3	96.6	457.2 03	108.2	75.7	79.9	28.3	40.4 999	461.3 17	15.55 66	244. 623	0
11:57:37 AM	578	49205 8	2410. 37	252. 063	1.01812	256.62	64.794 1	46.9 807	990. 947	997.134	753.759	8.060 61	4.9098 4	35.19 65	410.77 9	1.43 315	25.3	96.6	457.2	108.2	75.7	79.9	28.3	40.5	456.9 91	15.57 63	244. 569	0.008 867
11:57:38 AM	578	49205 9	2410. 04	250. 804	1.01812	256.604	64.755 2	46.9 952	990. 947	997.134	756.902	8.060 58	4.9144 3	34.52 75	409.23 3	1.43 465	25.3	96.6	457.2	108.2	75.7	79.9	28.3	40.5	452.7 18	15.60 53	244. 565	0
11:57:39 AM	578	49206 0	2410. 39	251. 383	1.01813	256.617	64.710 6	46.9 979	990. 947	997.436	772.287	8.060 58	4.9113 7	34.57 56	409.94 1	1.41 591	25.3	96.6	457.2	108.2	75.7	79.9	28.3	40.5	448.4 76	15.55 7	244. 678	0.106 4
11:57:40 AM	578	49206 1	2409. 16	251. 031	1.01812	256.602	64.660 3	46.9 847	990. 947	997.436	759.113	8.245 66	4.9029 6	35.38 01	410.49 4	1.41 05	25.3	96.5187	456.8 41	108.2	75.7	79.9	28.2 478	40.5	444.2 5	15.49 81	244. 836	0
11:57:41 AM	578	49206 2	2410. 09	251. 113	1.01812	256.531	64.603 2	46.9 959	990. 947	997.436	760.258	8.141 5	4.9090 8	35.46 31	409.74 721	1.41 721	25.3	96.3405	456.7 26	108.2	75.7	79.9	28.2 089	40.5	439.8 91	15.49 35	244. 992	0.144 828
11:57:42 AM	578	49206 3	2409. 59	251. 684	1.01813	256.444	64.560 6	46.9 98	990. 947	997.436	754.621	8.119 2	4.9075 5	35.56 11	412.09 8	1.41 179	25.3	96.3075	456.7 05	108.2	75.7	79.9	28.2 016	40.5	435.6 31	15.45 86	245. 035	0
11:57:43 AM	578	49206 4	2409. 45	250. 88	1.01812	256.36	64.532 4	46.9 884	990. 947	997.436	758.992	8.125 31	4.9167 2	35.97 51	409.25 5	1.41 816	25.3	96.3014	456.7 01	108.2	75.7	79.9	28.2 003	40.5	431.3 13	15.44 46	244. 875	0.008 867
11:57:44 AM	578	49206 5	2409. 3	250. 09	1.01812	256.272	64.52	46.9 966	990. 947	997.436	760.762	8.072 57	4.9106	35.54 08	410.21 1	1.42 686	25.3	96.3003	456.7	108.2	75.7	79.9	28.2 001	40.5	427.0 03	15.45 96	244. 606	0.106 404
11:57:45 AM	578	49206 6	2409. 68	250. 306	1.01813	256.146	64.484 6	46.9 982	990. 947	997.436	760.556	8.104 76	4.9106	33.99 8	410.40 5	1.41 575	25.3	96.3	456.5 96	108.2	75.7	79.9	28.2	40.5	422.7 3	15.43 61	244. 341	0.088 67
11:57:46 AM	578	49206 7	2410. 14	250. 874	1.01812	255.987	64.434 5	46.9 752	990. 947	997.436	748.532	8.193 9	4.9136 6	35.35 23	410.52 8	1.41 544	25.3	96.1628	456.5 18	108.2	75.7	79.9	28.2	40.5	418.4 9	15.40 09	244. 141	0.106 4
11:57:47 AM	578	49206 8	2409. 38	250. 97	1.01812	255.837	64.394 3	46.9 942	990. 947	997.436	751.313	8.196 94	4.9121 3	35.90 89	409.91 1	1.41 961	25.3	96.1116	456.5 03	108.2	75.77 18	79.927 1	28.2	40.5	414.1 67	15.37 38	244. 032	0.106 4
11:57:48 AM	578	49206 9	2410. 25	250. 687	1.01813	255.724	64.382 8	46.9 977	990. 947	997.436	761.981	8.142 85	4.9075 5	35.33 11	409.17 1	1.42 597	25.3	96.1022	456.5 01	108.2	75.79 48	79.986 5	28.2	40.5	409.8 08	15.36 59	243. 941	0.106 4
11:57:49 AM	578	49207 0	2410. 07	250. 809	1.01813	255.634	64.407	46.9 984	990. 945	997.436	770.915	8.087 56	4.9090 8	34.28 34	408.70 6	1.43 236	25.3	96.1004	456.5	108.2	75.79 9	79.997 5	28.2	40.6 588	405.5 14	15.38 2	243. 748	0.106 4
11:57:50 AM	578	49207 1	2409. 39	250. 357	1.01813	255.544	64.433 5	46.9 985	990. 945	997.436	756.83	8.065 57	4.9113 7	34.40 7	410.80 4	1.44 31	25.3	96.1001	456.5	108.2	75.79 98	79.999 5	28.2	40.6 924	401.2 27	15.40 18	243. 507	0.106 4
11:57:51 AM	578	49207 2	2409. 96	250. 883	1.01813	255.458	64.440 5	46.9 985	990. 945	997.436	752.412	8.185 57	4.9106	36.03 13	410.66 9	1.42 837	25.3	96.1	456.2 62	108.2	75.8	79.999 9	28.2	40.6 986	396.9 05	15.43 61	243. 274	0.059 11
11:57:52 AM	578	49207 3	2410. 13	251. 319	1.01813	255.394	64.432	46.9 985	990. 945	997.436	750.954	8.083 74	4.9098 4	35.51 61	409.53 9	1.43 619	25.3	96.1	456.2 11	108.2	75.74 78	80	28.2	40.6 997	392.6 37	15.42 99	243. 186	1.861 26

11:57:53 AM	578	49207 4	2409. 45	250. 467	1.01813	255.366	64.428 9	46.9 985	990. 945	997.436	764.078	8.064 87	4.9113 7	35.37 91	409.80 3	1.42 592	25.3	96.1	456.2 02	108.18 1	75.70 89	79.931 4	28.2 19	40.7	388.4 18	15.44 68	243. 288	1.714 29
11:57:54 AM	578	49207 5	2409. 78	250. 394	1.01813	255.347	64.434 8	46.9 985	990. 945	997.436	761.555	8.061 37	4.9159 5	36.17 34	409.42 2	1.42 523	25.3	96.1	456.2	108.11 5	75.70 16	79.905 8	28.2 85	40.7	384.1 15	15.42 64	243. 489	1.714 29
11:57:55 AM	578	49207 6	2410. 51	250. 192	1.01813	255.3	64.423 3	47.0 104	990. 945	997.436	759.37	8.060 72	4.9029 6	35.75 06	411.17 5	1.42 409	25.3	96.1	456.2	108.10 3	75.70 03	79.901 1	28.2 972	40.7	379.7 77	15.38 74	243. 68	1.714 29
11:57:56 AM	578	49207 7	2410. 06	251. 095	1.01813	255.232	64.403 3	47.0 007	990. 945	997.436	752.719	8.210 99	4.9067 9	35.34 91	409.58 2	1.42 164	25.3	96.1	456.0 05	108.10 1	75.70 01	79.900 2	28.2 995	40.7	375.5 23	15.42 02	243. 774	1.714 29
11:57:57 AM	578	49207 8	2410. 15	250. 934	1.01813	255.209	64.390 2	46.9 989	990. 945	997.436	754.035	8.227 49	4.9083 1	34.96 23	410.63 1	1.43 001	25.3	95.9412	455.9 19	108.1	75.7	79.9	28.2 999	40.7	371.2 03	15.40 45	243. 786	1.702 46
11:57:58 AM	578	49207 9	2410. 2410	251. 343	1.01813	255.249	64.402 2	47.0 078	990. 942	997.436	759.797	8.091 5	4.9098 4	36.18 65	410.59 6	1.42 931	25.3	95.9076	455.9 04	108.1	75.77 94	79.946 9	28.3	40.7	366.8 92	15.42 25	243. 726	1.693 6
11:57:59 AM	578	49208 0	2410. 09	251. 339	1.01813	255.306	64.444 9	47.0 002	990. 943	997.436	770.127	8.066 31	4.9113 7	36.58 25	409.70 2	1.43 094	25.3	95.9014	455.9 01	108.16 9	75.79 62	79.990 2	28.3	40.7	362.6 52	15.39 01	243. 651	1.693 6
11:58:00 AM	578	49208 1	2410. 36	250. 96	1.01813	255.344	64.493 7	46.9 988	990. 943	997.436	765.28	8.061 64	4.9121 3	36.55 26	410.74 9	1.43 451	25.3	95.9003	455.9	108.19 4	75.79 93	79.998 2	28.3	40.7	358.4 28	15.40 29	243. 532	1.693 6
11:58:01 AM	578	49208 2	2409. 96	251. 126	1.01814	255.368	64.525 1	47.0 112	990. 94	997.436	756.171	8.060 77	4.8983 8	36.12 89	410.26 4	1.42 412	25.3	95.9	455.8 46	108.19 9	75.79 99	79.999 7	28.3	40.7	354.1 28	15.38 58	243. 382	1.702 46
11:58:02 AM	578	49208 3	2409. 93	250. 797	1.01814	255.387	64.529 6	47.0 058	990. 94	997.436	751.879	8.060 61	4.9090 8	35.85 18	411.28 4	1.42 668	25.3	95.7697	455.7 27	108.2	75.8	79.999 9	28.3	40.7	349.8 71	15.34 88	243. 2	1.702 46
11:58:03 AM	578	49208 4	2409. 88	250. 373	1.01814	255.401	64.517 1	47.0 271	990. 94	997.436	763.278	8.060 58	4.9151 9	36.28 79	410.98 2	1.43 808	25.3	95.7129	455.7 05	108.2	75.86 51	80	28.3	40.7	345.5 68	15.34 72	242. 985	1.702 46
11:58:04 AM	578	49208 5	2410. 48	250. 592	1.01814	255.401	64.481 7	47.0 057	990. 94	997.436	766.697	8.060 58	4.9067 9	36.23 91	411.01 1	1.43 043	25.3	95.7024	455.7 01	108.2	75.89 35	80	28.3	40.7	341.3 07	15.35 39	242. 804	1.693 6
11:58:05 AM	578	49208 6	2410. 14	250. 538	1.01814	255.383	64.441 9	47.0 105	990. 94	997.436	756.213	8.060 57	4.9121 3	35.67 83	410.19 7	1.44 358	25.3	95.7004	455.7	108.2	75.89 88	80	28.3	40.7	336.9 53	15.38 1	242. 677	1.684 73
11:59:50 AM	578	49219 1	2207. 28	276. 223	1.017	280.699	64.971 8	47.3 304	990. 945	997.436	689.674	10.53 14	4.7066 8	42.56 58	364.42 7	1.41 486	24.9	90.8001	465.1	107.20 6	75.5	80	28.3	40.6	466.3 48	15.04 98	235. 483	0.008 867
11:59:51 AM	578	49219 2	2207. 43	276. 283	1.01699	280.804	64.965 9	47.3 221	990. 945	997.436	688.338	10.53 1	4.7043 1	42.43 65	361.84 2	1.41 742	24.9	90.8	465.1	107.20 1	75.5	80	28.3	40.6	462.1 08	15.05 52	235. 522	0.017 734
11:59:52 AM	578	49219 3	2206. 01	276. 254	1.01698	280.886	64.961 1	47.3 025	990. 945	997.663	693.383	10.53 09	4.7081 3	42.47 29	363.01 4	1.40 395	24.9	90.8	465.1	107.2	75.5	80	28.3	40.6	457.9 44	15.07 12	235. 536	0.056 158
11:59:53 AM	578	49219 4	2205. 73	274. 829	1.017	280.95	64.939 9	47.3 534	990. 945	997.436	694.346	10.53 09	4.7096 6	42.70 34	365.58 1	1.40 83	24.9	90.8	465.1	107.2	75.55 7	80	28.3	40.6	453.8 25	15.06 08	235. 596	0.017 734
11:59:54 AM	578	49219 5	2206. 42	275. 215	1.01701	280.973	64.889 6	47.3 802	990. 945	997.436	700.066	10.57 29	4.7119 5	42.88 31	362.54 9	1.40 606	24.9	90.8	465.1	107.23 4	75.59 2	80	28.3	40.6	449.6 86	15.03 18	235. 689	0.008 867
11:59:55 AM	578	49219 6	2206. 76	276. 232	1.01701	280.954	64.812 6	47.3 693	990. 945	997.134	701.348	10.53 87	4.7043 1	43.24 11	364.64 262	1.41 24.9	90.8	465.1	107.28 8	75.59 85	80	28.3	40.6	445.4 8	15.00 88	235. 837	0.260 099	
11:59:56 AM	578	49219 7	2206. 64	276. 889	1.01702	280.932	64.770 8	47.3 904	990. 945	997.436	705.031	10.58 41	4.7066 6	42.82 95	364.30 8	1.40 226	24.9	90.8	465.1	107.29 8	75.59 97	80	28.3	40.6	441.3 17	15.05 74	235. 991	0.017 734
11:59:57 AM	578	49219 8	2206. 58	276. 722	1.01702	280.916	64.797 6	47.3 944	990. 945	997.436	707.714	10.54 08	4.7012 5	43.05 49	363.59 1	1.41 089	24.9	90.8	465.1	107.3	75.6	80	28.3	40.6	437.1 3	14.99 42	236. 058	5.273 51
11:59:58 AM	578	49219 9	2206. 39	275. 494	1.01702	280.9	64.867 7	47.3 951	990. 945	997.436	709.072	10.39 37	4.7088 9	43.04 58	363.92 6	1.41 234	24.9	90.8	465.1	107.3	75.59 80	80	28.3	40.6	433.0 02	15.01 84	235. 98	0
11:59:59 AM	578	49220 0	2207. 4	275. 358	1.01702	280.855	64.921 9	47.3 952	990. 945	997.436	709.833	10.50 55	4.7157 7	43.02 32	364.22 7	1.42 122	24.9	90.8	465.1	107.3	75.51 67	80	28.3	40.6	428.7 66	15.04 01	235. 8	0.038 424
12:00:00 PM	578	49220 1	2207. 19	276. 653	1.01702	280.798	64.920 9	47.3 952	990. 945	997.436	710.731	10.52 62	4.7035 5	43.42 09	364.69 4	1.42 44	24.9	90.8	465.1	107.22 5	75.50 31	80	28.3	40.6	424.5 62	15.02 95	235. 587	0.124 138
12:00:01 PM	578	49220 2	2207. 09	276. 614	1.01702	280.769	64.893 4	47.3 842	990. 943	997.436	705.879	10.53 7	4.7073 7	43.83 65	363.36 5	1.42 384	24.9	90.8	465.1	107.20 5	75.50 06	80	28.3	40.6	420.4 1	15.04 09	235. 453	0.124 138
12:00:02 PM	578	49220 3	2206. 63	276. 186	1.01702	280.781	64.890 7	47.3 932	990. 943	997.436	703.513	10.68 52	4.7127 1	43.03 75	361.99 9	1.41 959	24.9	90.8	465.0 59	107.20 1	75.50 01	80	28.3	40.6	416.2 55	15.04 58	235. 461	0.162 562
12:00:03 PM	578	49220 4	2207. 156	276. 156	1.01702	280.787	64.917 4	47.3 949	990. 943	997.436	705.805	10.55 95	4.7081 3	43.36 1	364.57 3	1.41 319	24.9	90.6565	465.0 11	107.2	75.5	80	28.3	40.6	412.0 57	15.01 56	235. 52	0.153 695
12:00:04 PM	578	49220 5	2207. 8	276. 827	1.01702	280.778	64.952 6	47.3 952	990. 943	997.436	708.621	10.53 62	4.7104 2	43.58 04	365.19 6	1.41 539	24.9	90.6105	465.0 02	107.2	75.5	80	28.3	40.6	407.8 32	15.01 99	235. 54	0.050 25
12:00:05 PM	578	49220 6	2206. 38	276. 424	1.01702	280.79	64.972 2	47.3 952	990. 943	997.436	704.95	10.53 19	4.7066 6	43.24 56	363.98 7	1.41 339	24.9	90.6019	465	106.97 2	75.5	80	28.3	40.6	403.6 96	15.03 83	235. 492	1.839 82

12:00:06 PM	578	49220 7	2206. 79	275. 851	1.01702	280.835	64.970 7	47.3 952	990. 943	997.663	707.891	10.53 11	4.7081 3	43.85 6	366.64 9	1.40 359			106.83 2	75.5	80	28.3	40.6 746	399.6 08	15.00 55	235. 381	1.616 75	
12:00:07 PM	578	49220 8	2207. 27	275. 737	1.01702	280.902	64.957 9	47.4 044	990. 943	997.436	709.3	10.62 99	4.7058 4	43.60 12	365.45 1	1.41 237	24.9	90.6004	465	106.80 6	75.5	80	28.3	40.6 953	395.2 39	15.01 28	235. 259	1.566 5
12:00:08 PM	578	49220 9	2207. 43	276. 483	1.01702	280.951	64.933 1	47.3 988	990. 943	997.436	701.84	10.56 1	4.7081 3	43.45 88	364.83 4	1.40 431	24.9	90.6	464.9 21	106.80 1	75.5	80	28.3	40.6 991	391.1 04	15.02 29	235. 208	1.557 64
12:00:09 PM	578	49221 0	2206. 92	276. 525	1.01702	280.96	64.915 4	47.3 959	990. 943	997.436	699.551	10.53 65	4.7081 3	43.00 75	364.19 2	1.40 876	24.9	90.6	464.9 04	106.8	75.5	80	28.3	40.6 998	386.8 5	15.03 49	235. 211	1.557 64
12:00:10 PM	578	49221 1	2207. 14	276. 64	1.01702	280.943	64.914 6	47.3 954	990. 943	997.436	699.097	10.64 02	4.7012 5	43.82 45	364.4 924	1.40	90.6	464.9 01	106.78 1	75.5	80	28.3	40.7	382.7 07	15.03 45	235. 24	1.557 64	
12:00:11 PM	578	49221 2	2206. 62	275. 906	1.01704	280.942	64.935 7	47.4 304	990. 943	997.436	703.866	10.55 12	4.7073 7	44.00 02	365.52 9	1.40 892	24.9	90.6	464.9	106.71 5	75.5	80	28.3	40.7	378.4 88	15.04 2	235. 309	1.548 77
12:00:12 PM	578	49221 3	2206. 93	275. 606	1.01702	280.966	64.949 9	47.4 018	990. 943	997.436	701.856	10.53 47	4.7035 5	43.22 19	364.83 3	1.41 338	24.9	90.6	464.9	106.70 3	75.5	80	28.3	40.7	374.2 24	15.04	235. 362	1.548 77
12:00:13 PM	578	49221 4	2206. 65	275. 664	1.01703	280.976	64.931 3	47.4 121	990. 945	997.436	700.556	10.53 16	4.7134 8	43.99 82	365.04 6	1.42 335	24.9	90.6	464.9	106.70 1	75.5	80	28.3	40.7	370.0 11	15.05 75	235. 422	1.548 77
12:00:14 PM	578	49221 5	2207. 22	275. 973	1.01702	280.932	64.883 7	47.3 984	990. 945	997.436	702.015	10.53 1	4.7127 1	43.63 09	363.62 2	1.41 59	24.9	90.6	464.9	106.7	75.5	80	28.3	40.7	365.9 15	15.08 8	235. 53	1.548 77
12:00:15 PM	578	49221 6	2207. 47	275. 627	1.01702	280.872	64.846 1	47.4 136	990. 945	997.436	703.857	10.53 09	4.7066	44.03 11	364.59 8	1.41 463	24.9	90.6	464.9	106.7	75.57 94	80	28.3	40.7	361.8 16	15.05 25	235. 721	1.557 64
12:00:16 PM	578	49221 7	2206. 82	275. 893	1.01703	280.828	64.828 6	47.4 146	990. 943	997.436	708.675	10.53 09	4.7027 8	43.74 54	366.94 735	1.41	24.9	90.6	464.9	106.97 4	75.59 62	80	28.3	40.7	357.6 07	15.00 74	235. 916	1.557 64
12:00:17 PM	578	49221 8	2206. 84	275. 269	1.01703	280.785	64.823 6	47.4 129	990. 943	997.436	708.365	10.53 09	4.7088 9	44.36 49	365.09 5	1.41 486	24.9	90.6	464.9	107.07 7	75.59 93	80	28.3	40.7	353.4 93	15.03 54	236. 087	1.548 77
12:00:18 PM	578	49221 9	2207. 07	275. 285	1.01704	280.71	64.816	47.4 44	990. 943	997.436	702.682	10.65 6	4.7088 9	43.60 73	364.53 9	1.40 404	24.9	90.6	464.8 81	107.09 6	75.59 99	80	28.3	40.7	349.3 14	15.01 89	236. 145	1.548 77
12:00:19 PM	578	49222 0	2206. 93	274. 563	1.01704	280.625	64.785 2	47.4 394	990. 943	997.436	701.076	10.55 41	4.7150 1	43.33 82	366.70 7	1.41 042	24.9	90.5478	464.8 15	107.09 9	75.6	80	28.3	40.7	345.1 82	14.98 88	236. 048	1.548 77
12:01:25 PM	578	49228 6	2019. 5	290. 854	1.01769	294.7	62.382 2	47.5 039	990. 945	997.134	594.662	14.00 6	4.5125 3	59.06 28	335.81 5	1.43 243	25.0987	84.4105	472.1 03	106.1	75.41 53	79.82	349	40.4	459.5 06	14.21 99	233. 205	0.008 867
12:01:26 PM	578	49228 7	2019. 58	290. 833	1.01769	294.748	62.447 9	47.4 992	990. 945	997.436	592.962	13.95 28	4.5155 9	59.14 91	335.77 8	1.42 942	25.0998	84.4019	472.1 01	106.15 7	75.48 43	79.966 6	27.9 065	40.4	455.5	14.26 27	233. 06	0.017 734
12:01:27 PM	578	49228 8	2019. 85	291. 216	1.01772	294.816	62.515	47.5 582	990. 945	997.436	596.399	13.81 52	4.5224 6	59.00 52	334.76 8	1.42 417	25.1	84.4004	472.1	106.19 2	75.49 71	79.993 8	27.9 202	40.3 254	451.6 51	14.25 83	232. 744	0.059 11
12:01:28 PM	578	49228 9	2019. 29	291. 202	1.01732	294.939	62.551 2	47.5 068	990. 945	997.436	587.323	13.96 32	4.5239 9	59.55 68	334.12 1	1.42 082	24.9775	84.4001	472.1	106.19 9	75.49 95	79.998 9	27.9 852	40.3 047	447.6 83	14.27 97	232. 339	0.008 867
12:01:29 PM	578	49229 0	2019. 72	290. 72	1.01712	295.092	62.581 1	47.5 267	990. 945	997.436	594.752	14.01 72	4.5224 6	59.66 75	334.93 2	1.41 422	24.9144	84.4	472.2 63	106.2	75.49 99	79.999 8	27.9 158	40.3 009	443.7 02	14.25 24	232. 02	0.106 404
12:01:30 PM	578	49229 1	2019. 35	291. 323	1.01708	295.248	62.604 2	47.5 227	990. 945	997.134	597.781	14.04 4	4.5171 2	59.99 99	336.89 997	1.41	24.9027	84.4	472.2 93	106.2	75.5	80	27.9 002	40.3 002	439.7 04	14.21 19	231. 845	0.026 601
12:01:31 PM	578	49229 2	2018. 94	290. 651	1.01706	295.382	62.606 4	47.4 953	990. 942	997.436	591.818	13.99 53	4.5232 3	59.45 61	336.46 6	1.41 809	24.9005	84.4	472.2 99	106.2	75.5	80	27.9 005	40.3	435.7 54	14.19 9	231. 706	0.017 734
12:01:32 PM	578	49229 3	2019. 26	291. 222	1.01708	295.494	62.599 3	47.5 394	990. 942	997.436	589.964	14.07 5	4.5224 6	59.84 03	335.49 6	1.43 341	24.9001	84.4	472.3	106.2	75.53 44	80	27.9 001	40.3	431.7 9	14.20 68	231. 557	0.753 695
12:01:33 PM	578	49229 4	2019. 6	291. 797	1.01709	295.611	62.595 5	47.5 588	990. 942	997.436	593.725	14.09 2	4.5209 4	58.84 76	335.42 2	1.42 946	24.9	84.4	472.3	106.2	75.58 78	80.122 5	27.9	40.3	427.8 56	14.21 87	231. 337	0.192 118
12:01:34 PM	578	49229 5	2019. 11	291. 017	1.01708	295.757	62.602 6	47.5 478	990. 942	997.134	600.645	14.00 19	4.5247 6	59.58 12	334.77 8	1.44 701	24.9	84.4	472.3	106.2	75.59 77	80.185 6	27.9	40.3 41	423.8 41	14.24 15	231. 113	0.144 828
12:01:35 PM	578	49229 6	2019. 44	291. 531	1.01715	295.905	62.634 6	47.5 575	990. 942	997.436	595.97	13.94 74	4.5178 8	59.37 72	336.47 1	1.43 072	24.93	84.4	472.3	106.2	75.59 96	80.197 3	27.9	40.3 891	419.8 69	14.25 74	230. 989	0.124 138
12:01:36 PM	578	49229 7	2019. 16	290. 921	1.01786	296.04	62.698 4	47.5 4	990. 942	997.134	591.664	14.04 11	4.5201 7	60.08 62	334.77 6	1.42 935	25.15	84.4	472.3	106.2	75.59 99	80.199 5	27.9	40.3 98	415.8 97	14.24 08	230. 96	0.065 025
12:01:37 PM	578	49229 8	2018. 97	291. 188	1.01801	296.138	62.712	47.5 668	990. 942	997.436	590.201	13.94 12	4.5224 6	59.18 12	335.90 4	1.43 576	25.1907	84.3254	472.3	106.2	75.6	80.199 9	27.9 57	40.3 996	411.9 38	14.24 68	231. 021	0.041 38
12:01:38 PM	578	49229 9	2018. 99	291. 045	1.01803	296.201	62.702 2	47.5 576	990. 942	997.436	592.342	14.03	4.5217	58.70 43	335.08 1	1.44 695	25.1983	84.3047	472.3	106.2	75.45 08	80.2	27.9 92	40.3 999	407.9 39	14.27 78	231. 137	0.106 4

12:01:39 PM	578	49230 0	2019. 03	291. 291	1.01804	296.238	62.682 5	47.5 745	990. 942	997.436	598.621	13.85 04	4.5186 4	58.78 39	334.99 6	1.44 609	25.1997	84.3009	472.3	106.13 9	75.40 94	80.2	27.9 985	40.4	403.9 95	14.26 59	231. 267	0.050 25
12:01:40 PM	578	49230 1	2018. 71	291. 461	1.01803	296.262	62.674 5	47.5 299	990. 942	997.436	592.945	13.94 72	4.5186 4	58.36 22	334.81 7	1.43 164	25.1999	84.3002	472.3	106.10 7	75.40 17	80.2	27.9 997	40.3 185	400.0 71	14.25 01	231. 393	1.587 19
12:01:41 PM	578	49230 2	2018. 69	291. 105	1.01781	296.285	62.661 1	47.5 422	990. 942	997.436	596.117	14.12 04	4.5224 6	58.49 89	335.86 5	1.42 625	25.1282	84.3	472.3	106.10 1	75.40 03	80.2	27.9 999	40.3 034	396.1 18	14.24	231. 516	1.587 19
12:01:42 PM	578	49230 3	2018. 78	290. 924	1.01774	296.303	62.659 7	47.5 603	990. 942	997.436	597.796	14.02 53	4.5293 4	58.76 46	334.72 8	1.43 335	25.1052	84.2063	472.3	106.1	75.40 01	80.2	28	40.3 006	392.2 28	14.18 66	231. 555	1.587 19
12:01:43 PM	578	49230 4	2018. 59	290. 698	1.01773	296.314	62.650 3	47.5 706	990. 945	997.134	591.56	13.98 01	4.5247 6	59.02 8	335.19 8	1.44 396	25.101	84.1197	472.3	106.1	75.29 57	80.2	28	40.3 001	388.1 7	14.14 24	231. 448	1.578 33
12:01:44 PM	578	49230 5	2018. 79	290. 779	1.01772	296.316	62.626 4	47.5 702	990. 945	997.436	590.022	14.09 12	4.5217 7	58.88 57	335.47 2	1.43 536	25.1002	84.1037	472.3	106.1	75.21 77	80.045 8	28	40.3	384.2 13	14.18 62	231. 221	1.587 19
12:01:45 PM	578	49230 6	2019. 39	290. 958	1.01773	296.312	62.599 5	47.5 768	990. 943	997.436	596.863	14.15 05	4.5262 8	58.72 68	335.72 2	1.44 395	25.1	84.1007	472.3	106.1	75.20 33	80.008 5	28	40.3	380.2 73	14.16 09	230. 924	1.587 19
12:01:46 PM	578	49230 7	2019. 2	291. 702	1.01773	296.308	62.589 2	47.5 781	990. 943	997.134	596.984	14.02 2	4.5239 9	59.00 34	334.59 6	1.44 363	25.1	84.1001	472.3	106.1	75.20 06	80.001 6	28	40.3	376.3 08	14.20 59	230. 671	1.587 19
12:01:47 PM	578	49230 8	2019. 63	292. 012	1.01772	296.313	62.613 2	47.5 716	990. 943	997.436	597.616	14.14 93	4.5194 1	58.35 19	335.67 3	1.44 247	25.1	84.1	472.3	106.1	75.20 01	80.000 3	28	40.3	372.3 14	14.18 87	230. 538	1.596 06
12:01:48 PM	578	49230 9	2019. 35	292. 178	1.01773	296.348	62.672 2	47.5 771	990. 943	997.134	591.997	14.07 41	4.5201 7	58.35 93	335.35 1	1.41 739	25.1	84.1	472.3	106.1	75.2	80.000 1	28	40.3	368.4 63	14.21 27	230. 48	1.587 19
12:01:49 PM	578	49231 0	2019. 34	292. 45	1.01773	296.408	62.747 6	47.5 781	990. 943	997.134	596.338	14.00 19	4.5217 7	58.57 59	335.67 3	1.43 869	25.1	84.1	472.3	106.1	75.11 85	79.943 1	28	40.3	364.3 73	14.18 65	230. 443	1.587 19
12:01:50 PM	578	49231 1	2018. 72	292. 326	1.01772	296.487	62.814 6	47.5 602	990. 943	997.436	595.363	13.81 76	4.5293 4	58.76 58	334.22 7	1.43 198	25.1	84.1	472.3	106.1	75.10 34	79.908	28	40.3	360.4 36	14.19 55	230. 365	1.587 19
12:01:51 PM	578	49231 2	2019. 08	292. 037	1.01773	296.574	62.865 5	47.5 75	990. 943	997.436	596.805	13.87 68	4.5209 4	58.33 19	336.21 6	1.42 836	25.1	84.1	472.3	106.1	75.10 06	79.901 5	28	40.3	356.5 48	14.18 21	230. 191	1.587 19
12:01:52 PM	578	49231 3	2019. 56	291. 893	1.01796	296.644	62.896 8	47.5 777	990. 943	997.436	590.776	13.91 58	4.5255 2	58.80 55	334.74 8	1.43 518	25.1746	84.1	472.3	106.1	75.10 01	79.900 3	28	40.3	352.5 08	14.23 33	230. 230	1.587 19
12:01:53 PM	578	49231 4	2019. 12	291. 676	1.01803	296.702	62.887 5	47.5 782	990. 943	997.436	595.607	14.00 43	4.5262 8	58.48 23	334.59 5	1.42 901	25.1953	84.0387	472.3	106.1	75.1	79.9	28	40.3	348.6 38	14.24 41	229. 878	1.587 19
12:01:54 PM	578	49231 5	2019. 12	291. 844	1.01805	296.749	62.862 9	47.5 783	990. 941	997.436	598.134	14.01 62	4.5285 8	58.35 35	334.06 5	1.43 237	25.1991	84.0072	472.3	106.1	75.16 51	79.89	28	40.3	344.7 34	14.20 33	229. 902	1.587 19
12:03:21 PM	578	49240 2	1813. 98	302. 17	1.01808	307.822	58.431 8	47.6 536	990. 941	997.134	517.759	9.482 53	4.2871 3	64.98 98	299.64 599	1.45 599	25.2	78.805	475.1 03	104.7	75.1	79.965 1	27.8	40.3	384.0 83	13.11 25	228. 4	0
12:03:22 PM	578	49240 3	1813. 45	301. 742	1.01808	307.778	58.407 9	47.6 625	990. 941	997.134	516.284	9.407 75	4.2863 7	65.02 27	298.21 8	1.47 31	25.2	78.8009	475.1 01	104.7	75.1	79.993 5	27.8	40.3	380.2 87	13.10 93	228. 346	0
12:03:23 PM	578	49240 4	1813. 51	301. 694	1.01808	307.733	58.392 2	47.6 544	990. 941	997.436	514.211	9.390 54	4.2802 6	65.23 57	298.65 5	1.47 876	25.2	78.8002	475.1 04	104.7	75.1	79.998 8	27.8	40.3	376.6 87	13.11 27	228. 338	0.106 4
12:03:24 PM	578	49240 5	1814. 12	301. 551	1.01807	307.682	58.377 3	47.6 417	990. 941	997.134	520.76	9.321 64	4.2863 7	64.81 82	298.72 6	1.48 397	25.2	78.8	474.9 96	104.7	75.1	79.999 8	27.8	40.3	373.0 56	13.11 43	228. 415	0.008 867
12:03:25 PM	578	49240 6	1813. 79	301. 787	1.01808	307.623	58.362 9	47.6 484	990. 941	997.134	518.875	9.557 32	4.2917 2	64.72 33	299.87 2	1.47 335	25.2	78.7229	474.9 18	104.7	75.1	80	27.8	40.3	369.3 87	13.17 56	228. 541	0.106 4
12:03:26 PM	578	49240 7	1813. 61	301. 406	1.01808	307.564	58.349 2	47.6 659	990. 941	997.134	514.292	9.250 08	4.2909 5	65.48 31	299.32 5	1.51 738	25.2	78.7042	474.9 03	104.7	75.1	80	27.8	40.3	365.7 08	13.15 81	228. 735	0.017 734
12:03:27 PM	578	49240 8	1813. 84	302. 15	1.01807	307.504	58.340 3	47.6 369	990. 943	997.134	509.523	9.421 69	4.2825 5	65.48 33	298.91 8	1.47 687	25.2	78.7008	474.9 01	104.50 5	75.1	80	27.8	40.3	362.0 85	13.14 03	228. 952	0.008 867
12:03:28 PM	578	49240 9	1813. 68	301. 711	1.01807	307.455	58.343 5	47.6 401	990. 945	997.134	509.792	9.291 24	4.2909 5	65.29 44	299.91 2	1.49 009	25.2	78.7001	474.9	104.41 9	75.1	80	27.7 206	40.3	358.5 34	13.12 35	229. 172	0.088 67
12:03:29 PM	578	49241 0	1813. 61	301. 451	1.01808	307.403	58.351 1	47.6 589	990. 942	997.134	511.68	9.319 95	4.2886 6	65.32 03	299.74 9	1.47 344	25.2	78.7	474.8 62	104.40 4	75.1	80	27.7 038	40.3	354.9 09	13.13 67	229. 339	0.153 695
12:03:30 PM	578	49241 1	1813. 93	300. 985	1.01807	307.341	58.347 3	47.6 462	990. 943	997.134	511.545	9.238 32	4.2894 3	65.75 72	299.07 7	1.47 627	25.2	78.6478	474.7 3	104.40 1	75.1	80	27.7 007	40.3	351.3 35	13.12 44	229. 363	0.029 56
12:03:31 PM	578	49241 2	1813. 88	301. 084	1.01807	307.253	58.325 1	47.6 243	990. 94	997.436	515.844	9.392 54	4.2856 3	65.44 42	300.11 3	1.50 318	25.2	78.6089	474.7 06	104.4	75.1	80	27.7 001	40.3	347.5 91	13.11 78	229. 307	0.106 404
12:03:32 PM	578	49241 3	1814. 08	301. 498	1.01808	307.172	58.292 3	47.6 615	990. 94	997.134	519.978	9.533 39	4.2833 1	65.72 73	300.25 1	1.48 827	25.2	78.6016	474.7 01	104.33 1	75.1	80	27.7	40.3	344.0 17	13.12 81	229. 236	0.038 424

12:03:33 PM	578	49241 4	1813. 63	301. 824	1.01808	307.108	58.265 5	47.6 513	990. 937	997.134	518.58	9.417 18	4.2886 6	65.07 52	299.50 8	1.44 594	25.2	78.6003	474.7	104.22 4	75.1	80	27.7	40.3	340.4 36	13.08 58	229. 223	0.106 4
12:03:34 PM	578	49241 5	1813. 65	301. 235	1.01808	307.071	58.260 8	47.6 523	990. 935	997.134	514.178	9.349 49	4.2932 5	65.70 44	300.23 3	1.48 93	25.2	78.6001	474.7	104.20 5	75.1	80	27.7	40.3	336.7 44	13.06 23	229. 196	0.056 158
12:03:35 PM	578	49241 6	1813. 92	300. 954	1.01808	307.026	58.268 4	47.6 466	990. 935	997.134	506.124	9.383 1	4.2940 1	65.39 52	300.21 5	1.48 658	25.2	78.562	474.6 35	104.20 1	75.1	80	27.7	40.3	333.0 17	13.07 32	229. 128	0.957 635
12:03:36 PM	578	49241 7	1813. 64	300. 887	1.01808	306.967	58.269 5	47.6 399	990. 935	997.134	506.06	9.416 86	4.2901 9	65.33 23	299.12 6	1.51 145	25.2	78.43	474.6 06	104.2	75.1	80	27.7	40.3	329.3 96	13.04 82	228. 948	1.123 15
12:03:37 PM	578	49241 8	1813. 11	300. 674	1.01809	306.905	58.247 9	47.6 463	990. 931	997.134	510.843	9.442 21	4.2856 6	65.92 63	299.84 5	1.47 085	25.2	78.4056	474.6 01	104.2	75.1	80	27.7	40.3	325.8 84	13.04 14	228. 678	1.084 73
12:03:38 PM	578	49241 9	1813. 97	300. 458	1.01809	306.832	58.210 5	47.6 514	990. 931	997.134	516.184	9.633 24	4.3001 2	65.33 81	300.85 807	1.47 807	25.2	78.401	474.6	104.34 9	75.1	80	27.7	40.3	322.2 46	13.02 47	228. 466	1.084 73
12:03:39 PM	578	49242 0	1813. 9	301. 185	1.01809	306.746	58.177 9	47.6 625	990. 931	997.134	507.092	9.468 95	4.2917 2	65.43 73	300.61 1	1.45 863	25.2	78.4002	474.6	104.39 1	75.1	80	27.7	40.3	318.7 04	13.02 16	228. 308	1.072 91
12:03:40 PM	578	49242 1	1813. 79	301. 293	1.01808	306.668	58.160 4	47.6 302	990. 931	997.134	507.894	9.599 65	4.2932 5	65.64 02	299.81 122	1.44 122	25.2	78.4	474.4 59	104.39 8	75.1	80	27.7	40.3	315.0 81	12.97 99	228. 188	1.084 73
12:03:41 PM	578	49242 2	1813. 66	300. 96	1.01808	306.608	58.173 5	47.6 41	990. 931	997.436	508.96	9.578 76	4.2985 9	65.34 72	300.12 5	1.47 779	25.2	78.4	474.3 3	104.4	75.1	80	27.7	40.3	311.4 04	13.04 66	228. 068	1.084 73
12:03:42 PM	578	49242 3	1813. 72	300. 45	1.01809	306.555	58.191 4	47.6 646	990. 933	997.134	512.983	9.716 5	4.2993 6	65.46 11	300.01 3	1.48 137	25.2	78.4	474.3 05	104.4	75.1	80	27.7	40.3	307.8 49	12.97 49	227. 939	1.084 73
12:03:43 PM	578	49242 4	1813. 4	301. 067	1.0181	306.507	58.201 6	47.6 689	990. 931	997.134	509.746	9.523 69	4.2848 4	65.31 99	300.19 1	1.46 561	25.2	78.4	474.3 01	104.4	75.1	80	27.7	40.3	304.1 72	13.00 37	227. 764	1.084 73
12:03:44 PM	578	49242 5	1813. 98	301. 245	1.01809	306.481	58.196 5	47.6 697	990. 934	997.134	512.452	9.357 94	4.2978 3	65.74 44	300.57 148	1.48 048	25.2	78.4	474.3	104.4	75.1	80	27.7	40.3	300.6 22	13.02 74	227. 642	1.084 73
12:03:45 PM	578	49242 6	1813. 57	301. 523	1.01756	306.473	58.162 7	47.6 699	990. 937	997.134	511.381	9.529 97	4.2909 5	66.00 58	300.32 2	1.46 392	25.0291	78.4	474.3	104.4	75.1	80	27.7	40.3	296.9 83	13.00 7	227. 591	1.072 91
12:03:46 PM	578	49242 7	1814. 02	301. 428	1.01721	306.452	58.157 9	47.6 699	990. 939	997.134	512.01	9.502 34	4.2947 7	65.72 85	300.42 5	1.46 155	24.9239	78.3656	474.3	104.4	75.1	80	27.7	40.3	293.3 65	12.99 58	227. 546	1.084 73
12:03:47 PM	578	49242 8	1813. 87	301. 507	1.01715	306.425	58.188 3	47.6 699	990. 939	997.134	509.649	9.436 21	4.3031 8	66.01 64	301.07 2	1.46 008	24.9044	78.3122	474.3	104.4	75.1	80	27.7	40.3	289.7 63	12.95 65	227. 525	1.084 73
12:03:48 PM	578	49242 9	1814. 2	301. 335	1.01713	306.409	58.221 5	47.6 55	990. 939	997.134	516.191	9.672 99	4.2978 3	66.13 48	299.88 1	1.44 805	24.9008	78.3023	474.3	104.38	75.1	80	27.6	40.3	286.1 44	12.99 13	227. 384	1.084 73
12:03:49 PM	578	49243 0	1814. 29	301. 148	1.01713	306.411	58.236 9	47.6 671	990. 939	997.134	515.151	9.708 32	4.2963 27	66.20 1	300.82 145	1.47 145	24.9002	78.3004	474.3	104.23 3	75.1	80	27.6	40.3	282.4 89	12.99 55	227. 176	1.084 73
12:03:50 PM	578	49243 1	1814. 58	301. 997	1.01728	306.424	58.247 7	47.6 611	990. 943	997.134	518.195	9.592 92	4.2909 5	66.18 04	300.81 2	1.46 698	24.957	78.3001	474.3	104.20 6	75.1	80	27.6	40.3	278.8 46	13.03 69	226. 993	1.084 73
12:05:00 PM	578	49250 1	1608. 53	311. 366	1.01718	315.613	53.238 6	47.7 92	990. 938	997.134	455.82	3.410 76	3.9692 8	72.01 33	269.48 7	1.47 065	24.9	74.5031	464.7 03	103.6	74.96 66	79.946 9	27.6	40.2	480.6 59	11.86 12	226. 436	0.008 867
12:05:01 PM	578	49250 2	1608. 37	311. 294	1.01718	315.707	53.276 6	47.7 92	990. 938	997.134	454.948	3.335 31	3.9692 8	71.75 13	269.17 9	1.48 029	24.9	74.5006	464.7 01	103.6	74.99 38	79.990 2	27.6	40.2	477.3 47	11.86 03	226. 424	0.017 734
12:05:02 PM	578	49250 3	1608. 41	311. 334	1.01718	315.807	53.313 9	47.7 92	990. 938	997.134	448.925	3.525 68	3.9700 5	72.22 8	268.61 8	1.48 093	24.9	74.5001	464.7	103.6	74.99 89	79.998 2	27.6	40.2	474.0 26	11.81 91	226. 425	0.106 4
12:05:03 PM	578	49250 4	1608. 47	311. 014	1.01718	315.907	53.328 9	47.7 92	990. 938	997.436	450.336	3.438 21	3.9731 1	71.79 86	268.52 3	1.49 253	24.9	74.5	464.7	103.6	74.99 98	79.999 7	27.6	40.2	470.7 34	11.83 8	226. 348	0.017 734
12:05:04 PM	578	49250 5	1607. 98	310. 676	1.01718	316.007	53.319 3	47.7 816	990. 938	997.134	449.228	3.476 32	3.9700 5	71.70 48	269.31 5	1.49 252	24.9	74.4387	464.7	103.6	75	79.999 9	27.6	40.2	467.3 36	11.85 6	226. 207	0.017 734
12:05:05 PM	578	49250 6	1608. 31	310. 751	1.01718	316.087	53.307 8	47.7 901	990. 938	997.134	454.041	3.458 15	3.9669 9	71.85 55	269.09 7	1.48 459	24.9	74.4072	464.7	103.6	75	80	27.6	40.2	464.0 77	11.85 94	226. 063	0.017 734
12:05:06 PM	578	49250 7	1608. 77	310. 806	1.01718	316.151	53.286 6	47.7 916	990. 938	997.134	455.466	3.427 78	3.9692 8	72.81 12	268.88 6	1.44 757	24.9	74.4013	464.7	103.6	75	80	27.6	40.2	460.8 26	11.87 5	225. 989	0.017 734
12:05:07 PM	578	49250 8	1608. 3	310. 751	1.01718	316.202	53.263 6	47.7 919	990. 94	997.134	450.907	3.343 53	3.9708 1	72.34 9	268.19 6	1.46 67	24.9	74.4002	464.7	103.6	75	80	27.6	40.2	457.5 36	11.86 28	226. 103	1.870 45
12:05:08 PM	578	49250 9	1607. 55	310. 495	1.01771	316.257	53.279 7	47.7 92	990. 94	997.436	449.151	3.446 42	3.9746 3	72.42 38	269.81 3	1.46 724	25.0709	74.4	464.7	103.6	75	80	27.6	40.2	454.2 55	11.82 97	226. 276	0.094 581
12:05:09 PM	578	49251 0	1608. 33	310. 086	1.01806	316.305	53.283 2	47.7 92	990. 94	997.134	452.607	3.426 22	3.9754 61	72.76 270.6	1.48 549	25.1761	74.3312	464.4 76	103.6	75	80	27.6	40.2	450.9 48	11.82 08	226. 411	0.174 384	

12:05:10 PM	578	49251 1	1607. 76	310. 331	1.01812	316.333	53.258 1	47.7 92	990. 938	997.134	451.187	3.351 74	3.9815 1	72.73 32	270.24 8	1.48 157	25.1956	74.2243	464.4 14	103.6	75	80	27.6	40.2	447.7 1	11.82 66	226. 485	0.106 404
12:05:11 PM	578	49251 2	1607. 56	310. 606	1.01813	316.325	53.236 1	47.7 854	990. 94	997.134	452.133	3.298 13	3.9692 8	72.80 82	269.67 4	1.48 104	25.1992	74.2045	464.4 03	103.58	75	80	27.6	40.2	444.3 81	11.81 87	226. 418	0.041 38
12:05:12 PM	578	49251 3	1608. 26	310. 413	1.01814	316.313	53.218 2	47.7 908	990. 94	997.134	450.092	3.371 28	3.9738 7	72.67 84	268.94 7	1.45 592	25.1998	74.2008	464.4	103.43 3	75	80	27.6	40.2	441.1 16	11.81 94	226. 317	0.106 4
12:05:13 PM	578	49251 4	1608. 54	310. 229	1.01798	316.283	53.206 5	47.7 918	990. 941	997.134	451.108	3.419 14	3.9776 9	71.74 09	269.54 1	1.46 238	25.143	74.2002	464.4	103.40 6	75	80	27.6	40.2	437.8 05	11.82 95	226. 243	0.106 4
12:05:14 PM	578	49251 5	1608. 58	310. 592	1.01733	316.224	53.184 9	47.7 919	990. 94	997.436	454.682	3.373 89	3.9784 5	72.68 81	269.67 303	1.45 303	24.945	74.2	464.1 91	103.40 1	75	80	27.6	40.2	434.5 25	11.81 33	226. 188	0.059 11
12:05:15 PM	578	49251 6	1608. 68	310. 39	1.01721	316.158	53.195 8	47.7 92	990. 94	997.436	448.249	3.290 72	3.9860 9	72.60 25	268.87 9	1.48 34	24.9083	74.2	464.0 35	103.4	75	80	27.6	40.2	431.1 79	11.81 03	226. 146	1.055 17
12:05:16 PM	578	49251 7	1606. 35	310. 73	1.01718	316.096	53.199 1	47.7 92	990. 941	997.134	446.973	3.213 1	3.9685 2	72.95 3	269.11 7	1.49 654	24.9015	74.2	464.0 07	103.4	75	80	27.5 314	40.2	427.8 89	11.84 99	226. 107	1.247 29
12:05:17 PM	578	49251 8	1608. 2	310. 396	1.01718	316.04	53.193 4	47.7 92	990. 94	997.134	452.57	3.368 9	3.9769 3	72.55 52	269.17 6	1.46 234	24.9003	74.2	464.0 01	103.4	75	80	27.5 628	40.2	424.5 93	11.85 82	226. 094	1.238 42
12:05:18 PM	578	49251 9	1608. 69	310. 331	1.01718	315.99	53.188 7	47.7 92	990. 94	997.134	454.243	3.491 54	3.9761 6	71.91 31	267.27 8	1.45 562	24.9001	74.2	464	103.4	75	80	27.5 931	40.2 794	421.3	11.85 98	226. 149	1.247 29
12:05:19 PM	578	49252 0	1608. 54	310. 505	1.01719	315.952	53.176 7	47.8 094	990. 938	997.436	446.248	3.446 31	3.9822 7	72.32 72	268.72 1	1.47 267	24.9	74.2	464	103.4	75	80	27.5 987	40.2 962	418.0 04	11.87 62	226. 316	1.229 56
12:05:20 PM	578	49252 1	1606. 52	311. 173	1.01719	315.925	53.172 7	47.7 952	990. 938	997.134	450.623	3.504 3	3.9647 7	72.42 89	269.39 7	1.45 39	24.9	74.0957	463.8 37	103.4	75	80	27.5 183	40.2 993	414.7 57	11.84 74	226. 531	1.229 56
12:05:21 PM	578	49252 2	1608. 67	310. 424	1.01718	315.9	53.175 5	47.7 926	990. 938	997.134	452.365	3.473 5	3.9784 5	72.26 61	268.79 1	1.46 683	24.9	74.0177	463.8 07	103.4	75.05 7	80	27.5 805	40.2 999	411.3 63	11.87 12	226. 721	1.238 42
12:05:22 PM	578	49252 3	1608. 45	310. 678	1.01718	315.89	53.188 4	47.7 921	990. 94	997.134	452.48	3.260 1	3.9815 1	72.66 53	269.21 4	1.47 873	24.9	74.0033	463.8 01	103.4	75.09 2	80.143 5	27.5 313	40.3	407.9 74	11.89 53	226. 859	1.217 73
12:05:23 PM	578	49252 4	1608. 03	310. 624	1.01719	315.884	53.199 7	47.8 023	990. 94	997.134	454.425	3.427 74	3.9769 3	73.24 28	270.07 1	1.49 953	24.9	74.0006	463.8	103.4	75.09 85	80.189 5	27.5 058	40.2 387	404.6 56	11.91 67	226. 942	1.229 56
12:05:24 PM	578	49252 5	1607. 13	310. 894	1.01718	315.878	53.212 6	47.7 939	990. 94	997.134	449.013	3.189 03	3.9700 5	72.62 04	269.68 4	1.47 82	24.9	74.0001	463.8	103.4	75.09 97	80.198 1	27.5 011	40.2 072	401.4 28	11.87 69	227. 017	1.217 73
12:05:25 PM	578	49252 6	1608. 26	310. 505	1.01719	315.871	53.207 4	47.7 923	990. 935	997.134	453.496	3.369 67	3.9822 7	72.44 96	271.18 6	1.48 743	24.9	74	463.7 35	103.4	75.1	80.199 6	27.5 002	40.2 013	398.0 72	11.88 2	227. 127	1.217 73
12:05:26 PM	578	49252 7	1608. 32	310. 544	1.0172	315.871	53.208 1	47.8 106	990. 935	997.436	446.099	3.425 8	3.9799 8	72.99 08	270.60 5	1.47 45	24.9	73.8412	463.7 06	103.4	75.1	80.199 9	27.5 002	40.2 002	394.8 15	11.87 15	227. 229	1.229 56
12:05:27 PM	578	49252 8	1609. 16	310. 668	1.01719	315.884	53.212 5	47.8 037	990. 937	997.134	450.182	3.407 68	3.9899 1	72.85 73	268.98 3	1.49 386	24.9	73.8076	463.7 01	103.4	75.1	80.095 6	27.5 44	40.2	391.5 44	11.84 43	227. 253	1.217 73
12:05:28 PM	578	49252 9	1608. 68	311. 564	1.01719	315.899	53.227 9	47.8 033	990. 937	997.134	447.499	3.392 17	3.9792 2	72.55 56	269.76 5	1.48 869	24.9	73.8014	463.7	103.4	75.1	80.017 7	27.5 7	40.2	388.2 14	11.85 01	227. 148	1.217 73
12:05:29 PM	578	49253 0	1608. 43	311. 311	1.01719	315.934	53.253 5	47.7 96	990. 937	997.134	448.349	3.291 06	3.9845 7	72.78 35	269.72 9	1.49 887	24.9	73.8003	463.7	103.4	75.1	80.003 3	27.5 44	40.2	384.9 02	11.87 15	226. 954	1.217 73
12:07:09 PM	578	49263 0	1408. 68	307. 254	1.01782	312.725	46.163 1	47.7 932	990. 937	997.134	366.982	0.590 05	3.5475 2	78.18 21	242.19 9	1.52 933	25.1	68.2	447.5	101.29 9	74.4	79.8	27.1	40.1	550.5 88	10.20 35	227. 117	0.008 867
12:07:10 PM	578	49263 1	1407. 93	308. 092	1.01782	312.738	46.168 1	47.7 922	990. 939	997.134	362.491	0.707 03	3.5414 1	78.33 62	241.21 1	1.53 082	25.1	68.2	447.1 74	101.3	74.4	79.8	27.1	40.1	547.6 65	10.18 97	226. 779	0.008 867
12:07:11 PM	578	49263 2	1409. 78	306. 931	1.01782	312.741	46.171 5	47.8 077	990. 94	997.134	362.217	0.779 94	3.5444 7	77.73 13	241.98 2	1.53 147	25.1	68.2	447.1 14	101.3	74.51 39	79.8	27.1	40.1	544.8 24	10.18 27	226. 331	0.162 562
12:07:12 PM	578	49263 3	1409. 96	307. 255	1.01783	312.727	46.181 6	47.8 322	990. 94	997.134	363.915	0.478 76	3.5291 9	78.24 17	240.90 7	1.52 07	25.1	68.2	447.1 03	101.23 1	74.58 4	79.8	27.1	40.1	542.0 43	10.19 55	225. 833	0.008 867
12:07:13 PM	578	49263 4	1409. 75	306. 367	1.01783	312.697	46.178 2	47.8 187	990. 938	997.134	359.933	0.481 16	3.5452 3	78.23 63	242.86 3	1.55 381	25.1	68.2	447.1	101.12 4	74.59 7	79.8	27.1	40.1	539.0 71	10.23 16	225. 297	0.029 56
12:07:14 PM	578	49263 5	1408. 99	306. 444	1.01782	312.645	46.148 8	47.8 009	990. 938	997.134	357.753	0.587 4	3.5475 2	78.20 02	241.36 5	1.56 639	25.1	68.2	447.1	101.10 5	74.59 94	79.8	27.1	40.1	536.2 16	10.22 03	224. 987	0.026 601
12:07:15 PM	578	49263 6	1410. 36	306. 181	1.01782	312.555	46.106 8	47.8 029	990. 94	997.134	360.261	0.708	3.5513 4	77.59 55	240.43 8	1.55 324	25.1	68.17	446.6 44	101.10 1	74.59 99	79.8	27.1	40.1	533.3 67	10.23 58	224. 95	0.011

12:09:21 PM	578	49276 2	1217. 27	287. 556	1.01784	293.551	37.397 9	47.8 835	990. 945	996.908	284.327	1.163 57	3.0806 8	79.87 87	215.06 1	1.58 726	25.0986	62.4076	427.9 08	99.3	74.44 12	79.681 9	26.8	39.7 999	541.4 21	8.368 33	227. 691	0
12:09:22 PM	578	49276 3	1219. 17	289. 539	1.01785	293.561	37.427 4	47.8 835	990. 945	996.908	291.404	1.167 69	3.0631 1	80.28 71	214.65	1.58 842	25.0997	62.4016	427.9 02	99.231 4	74.40 85	79.775 7	26.8	39.8	539.2 07	8.364 4	227. 645	0
12:09:23 PM	578	49276 4	1210. 67	290. 573	1.01785	293.577	37.444 8	47.8 835	990. 945	996.908	286.657	0.995 875	3.0172 7	80.40 21	212.82 6	1.57 807	25.0999	62.4003	427.9	99.205 8	74.40 16	79.795 5	26.8	39.8	536.7 82	8.363 56	227. 563	0
12:09:24 PM	578	49276 5	1219. 66	288. 923	1.01785	293.657	37.471 9	47.8 835	990. 945	996.908	280.538	1.073 15	3.0600 6	80.43 43	213.84 8	1.58 104	25.1	62.4001	427.7 97	99.201 1	74.40 03	79.799 2	26.8	39.8	534.5 01	8.375 73	227. 498	0.008 867
12:09:25 PM	578	49276 6	1216. 01	288. 468	1.01785	293.726	37.479 8	47.8 835	990. 945	996.908	279.664	0.885 816	3.0776 3	79.88 88	213.95 4	1.59 967	25.1	62.4	427.6 36	99.200 2	74.40 01	79.799 8	26.8	39.8	532.1 55	8.370 04	227. 398	0
12:09:26 PM	578	49276 7	1214. 29	288. 445	1.01785	293.736	37.439 6	47.8 835	990. 945	996.908	279.697	1.011 83	3.0791 6	80.26 9	213.88 9	1.59 308	25.1	62.4	427.6 08	99.2	74.4	79.8	26.8	39.8	529.8 63	8.364 75	227. 374	0.011 82
12:09:27 PM	578	49276 8	1211. 25	290. 138	1.01785	293.756	37.450 8	47.8 835	990. 945	996.908	285.063	0.918 808	3.0600 6	79.69 18	212.88 5	1.6	25.1	62.4	427.6 01	99.2	74.4	79.8	26.8	39.8	527.4 73	8.363 63	227. 387	0.008 867
12:09:28 PM	578	49276 9	1213. 37	288. 436	1.01785	293.881	37.403 7	47.8 835	990. 945	996.908	286.957	0.894 213	3.0707 5	79.90 05	214.41 1	1.59 329	25.1	62.4	427.6	99.2	74.66 09	79.8	26.8	39.8	525.1	8.363 42	227. 446	0
12:09:29 PM	578	49277 0	1212. 32	288. 875	1.01785	294.012	37.411 2	47.8 835	990. 945	996.908	280.523	1.057 37	3.0440 1	80.26 92	212.31 017	1.60	25.1	62.4	427.6	99.254 2	74.85 57	79.877 1	26.8	39.8	522.7 94	8.363 38	227. 536	0.011 82
12:09:30 PM	578	49277 1	1214. 7	288. 012	1.01785	294.088	37.415 3	47.8 835	990. 945	996.908	287.15	1.129 55	3.0761 6	79.74 66	213.95 5	1.61 748	25.1	62.4	427.6	99.373	74.89 18	79.895 8	26.8	39.8	520.4 9	8.343 11	227. 557	0
12:09:31 PM	578	49277 2	1219. 6	287. 719	1.01785	294.111	37.396 3	47.8 835	990. 945	996.908	285.691	1.145 29	3.0890 9	79.44 99	214.44 1	1.58 797	25.1	62.4	427.6	99.395	74.89 85	79.899 2	26.8	39.8	518.1 18	8.341 27	227. 562	0.008 867
12:09:32 PM	578	49277 3	1214. 62	289. 988	1.01785	294.118	37.407 1	47.8 835	990. 945	996.908	286.433	1.262 48	3.0401 9	79.54 64	212.96 6	1.59 2	25.1	62.4	427.1 2	99.399 1	74.89 97	79.899 9	26.8	39.8	515.7 67	8.353 4	227. 462	0.050 25
12:09:33 PM	578	49277 4	1222. 19	289. 558	1.01785	294.119	37.392 5	47.8 962	990. 945	996.908	286.118	1.160 70	3.0508 9	79.50 72	213.80 6	1.59 144	25.1	62.3185	426.9 41	99.399 8	74.89 99	79.9	26.8	39.8	513.4 02	8.363 47	227. 386	0.011 82
12:09:34 PM	578	49277 5	1216. 6	288. 665	1.01785	294.156	37.420 9	47.8 862	990. 945	996.908	282.961	1.416 28	3.0898 5	79.23 98	213.36 8	1.58 339	25.1	62.3038	426.9 08	99.4	74.9	79.9	26.8	39.8	511.1 75	8.380 57	227. 313	0.011 82
12:09:35 PM	578	49277 6	1216. 5	290. 417	1.01785	294.218	37.462 4	47.8 84	990. 945	996.908	281.818	1.352 94	3.0562 3	79.30 11	212.79 5	1.60 768	25.1	62.3007	426.9 02	99.176 2	74.9	79.9	26.8	39.8	508.7 93	8.380 07	227. 252	0.106 4
12:09:36 PM	578	49277 7	1217. 64	288. 784	1.01785	294.277	37.495 5	47.8 836	990. 945	996.908	280.713	1.314 21	3.0783 9	79.36 89	214.34 9	1.58 301	25.1	62.3001	426.9	99.115 7	74.9	79.9	26.8	39.8	506.5 27	8.368 97	227. 263	0.011 82
12:09:37 PM	578	49277 8	1218. 13	290. 124	1.01785	294.297	37.531 8	47.8 836	990. 945	996.908	278.664	1.276 47	3.0577 6	79.63 78	214.22	1.58 958	25.1	62.3	426.8 31	99.102 9	74.9	79.9	26.8	39.8	504.0 77	8.387 51	227. 237	0.106 4
12:09:38 PM	578	49277 9	1213. 86	289. 987	1.01785	294.328	37.539 5	47.8 835	990. 945	996.681	288.966	1.173 69	3.0623 5	79.46 29	213.47 2	1.58 894	25.1	62.1628	426.7 24	99.100 5	74.9	79.9	26.8	39.8	501.7 49	8.408 96	227. 243	0.106 4
12:09:39 PM	578	49278 0	1216. 77	289. 793	1.01785	294.371	37.538 9	47.8 835	990. 945	996.681	291.482	1.292 94	3.0829 8	79.60 08	214.00 9	1.59 379	25.1	62.1116	426.7 04	99.100 1	74.75 65	79.9	26.8	39.8	499.3 87	8.376 15	227. 276	0.106 4
12:09:40 PM	578	49278 1	1216. 41	289. 746	1.01785	294.411	37.547 4	47.8 835	990. 945	996.908	285.627	1.428 22	3.0829 8	79.67 74	215.02 3	1.58 984	25.1	62.1022	426.7 01	99.1	74.71 05	79.9	26.8	39.8	497.0 47	8.400 98	227. 3	0.020 69
12:09:41 PM	578	49278 2	1216. 25	289. 95	1.01785	294.421	37.542 6	47.8 835	990. 945	996.908	280.041	1.315 88	3.0868 6	79.60 91	215.08 1	1.57 112	25.1	62.1004	426.7	99.1	74.70 19	79.9	26.8	39.8	494.6 73	8.405 59	227. 396	0.106 4
12:09:42 PM	578	49278 3	1216. 15	289. 176	1.01785	294.465	37.549 6	47.8 835	990. 945	996.681	288.686	1.385 09	3.1020 8	79.18 22	215.06	1.57 601	25.1	62.1001	426.7	99.1	74.70 04	79.9	26.8	39.8	492.3 35	8.412 31	227. 492	0.106 4
12:09:43 PM	578	49278 4	1215. 93	289. 801	1.01784	294.549	37.554 9	47.8 773	990. 945	996.908	283.896	1.357 51	3.0883 3	79.40 67	214.50 6	1.57 997	25.1	62.1	426.6 23	99.1	74.70 01	79.9	26.8	39.8	489.9 59	8.413 56	227. 586	0.106 4
12:09:44 PM	578	49278 5	1216. 09	290. 164	1.01785	294.659	37.561 1	47.8 732	990. 945	996.908	282.952	1.362 91	3.0875 6	79.62 02	214.49 4	1.58 84	25.1	62.1	426.6 04	99.1	74.76 88	79.9	26.8	39.8	487.6 75	8.397 11	227. 709	0.059 11
12:09:45 PM	578	49278 6	1214. 15	290. 428	1.01785	294.776	37.562 6	47.8 797	990. 945	996.908	283.192	1.289 75	3.0783 9	79.91 77	214.05 5	1.58 686	25.1	62.1	426.6 01	99.1	74.87 57	79.9	26.8	39.8	485.3 31	8.409 25	227. 772	1.646 31
12:09:46 PM	578	49278 7	1215. 65	289. 657	1.01785	294.882	37.580 3	47.8 828	990. 945	996.908	280.757	1.266 03	3.0936 7	79.96 41	214.76 3	1.59 099	25.1	62.1	426.6	98.855 6	74.89 55	79.9	26.8	39.6	482.9 43	8.428 51	227. 802	1.306 4

12:09:47 PM	578	49278 8	1215. 94	289. 998	1.01785	294.943	37.594	47.8 834	990. 945	996.908	282.218	1.244 08	3.0936 7	79.65 76	214.36 1	1.58 852		25.1	62.1	426.6	98.810 3	74.89 92	79.9	26.8	39.6 177	480.6 34	8.434 18	227. 808	1.285 71
12:09:48 PM	578	49278 9	1213. 81	291. 28	1.01784	294.976	37.599 1	47.8 749	990. 945	996.908	286.565	1.280 09	3.0401 9	80.32 05	214.01 3	1.59 537		25.1	62.1	426.4 29	98.801 9	74.89 98	79.9	26.8	39.6 033	478.2 88	8.416 45	227. 824	1.297 54
12:09:49 PM	578	49279 0	1215. 52	289. 687	1.01785	295.012	37.593 1	47.8 819	990. 945	996.908	283.414	1.398 51	3.0837 4	80.35 03	214.86 8	1.59 31		25.1	62.0254	426.3 24	98.800 4	74.9	79.9	26.8	39.6 006	475.9 51	8.439 37	227. 895	1.297 54
12:09:50 PM	578	49279 1	1216. 19	290. 039	1.01785	295.041	37.587 4	47.8 832	990. 945	996.908	282.245	1.283 41	3.0898 5	79.68 2	214.61 6	1.57 399		25.1	62.0047	426.3 04	98.800 1	74.9	79.981 9	26.8	39.6 001	473.5 42	8.453 82	228. 022	1.297 54
12:11:22 PM	578	49288 3	1028. 11	252. 37	1.01783	260.503	27.845 7	47.8 352	990. 945	996.908	164.591	1.092 87	2.5741 1	78.82 74	186.80 5	1.54 36		25.1003	56.1056	395.8 04	96.6	74.38 65	79.6	26.7	39.6	305.3 65	6.284 14	229. 222	0.017 734
12:11:23 PM	578	49288 4	1027. 72	253. 644	1.01783	260.48	27.882 6	47.8 343	990. 945	996.908	170.138	0.959 403	2.6085 8	78.13 09	187.32 7	1.53 046		25.1001	56.101	395.8 01	96.6	74.39 75	79.6	26.7	39.6	303.6 03	6.304 05	229. 349	0.017 734
12:11:24 PM	578	49288 5	1017. 32	255. 684	1.01785	260.421	27.840 9	47.8 347	990. 945	996.908	168.521	1.227 51	2.5947 4	78.24 34	186.40 7	1.54 986		25.11	56.1002	395.8 06	96.6	74.39 95	79.6	26.7	39.6	301.8 63	6.302 18	229. 476	0.026 601
12:11:25 PM	578	49288 6	1018. 92	258. 017	1.01809	260.398	27.822 9	47.8 215	990. 945	996.908	170.54	1.125 29	2.5183 4	78.85 3	186.43 8	1.51 538		25.1833	56.1	395.5 19	96.6	74.39 99	79.6	26.7	39.6	300.0 92	6.284 84	229. 83	0.017 734
12:11:26 PM	578	49288 7	1017. 94	256. 863	1.01814	260.568	27.845 1	47.8 535	990. 945	996.681	173.05	1.147 62	2.5565 4	78.71 25	186.07 6	1.51 016		25.1969	56.0314	395.2 59	96.6	74.4	79.6	26.7	39.6	298.3 83	6.248 42	229. 985	0.008 867
12:11:27 PM	578	49288 8	1025. 11	255. 359	1.01815	260.742	27.869 6	47.8 573	990. 945	996.908	177.903	0.996 465	2.6184 3	78.51 88	187.88 6	1.53 064		25.1994	56.0058	395.2 11	96.6	74.47 18	79.627 1	26.6 185	39.6	296.5 81	6.269 74	229. 996	0.017 734
12:11:28 PM	578	49288 9	1013. 22	256. 572	1.01815	260.932	27.964 5	47.8 423	990. 945	996.908	169.724	1.325 38	2.5343 8	78.58 38	184.41 3	1.51 02		25.1999	56.0011	395.2 02	96.486 1	74.49 48	79.686 5	26.6 034	39.6	294.8 53	6.315 53	229. 691	0.076 847
12:11:29 PM	578	49289 0	1011. 78	256. 734	1.01814	261.023	27.952 2	47.8 257	990. 945	996.908	171.99	1.050 24	2.5259 4	78.71 27	185.38 3	1.49 919		25.2	56.0002	395.2 02	96.416	74.49 9	79.697 5	26.6 006	39.6	293.0 41	6.292 86	229. 226	0.174 384
12:11:30 PM	578	49289 1	1025. 28	254. 8	1.01796	261.029	27.971 9	47.8 288	990. 945	996.908	175.738	1.033 79	2.6023 8	78.36 85	186.12 8	1.55 316		25.1387	56	395.2 02	96.403	74.49 98	79.699 5	26.6 001	39.6	291.2 98	6.282 17	228. 923	0.094 581
12:11:31 PM	578	49289 2	1030. 35	259. 356	1.01786	260.996	27.993 2	47.8 563	990. 945	996.908	177.624	1.186 87	2.4977 0	78.64 05	185.03 6	1.56 885		25.1072	55.9181	394.8 82	96.400 6	74.5	79.699 9	26.6 006	39.6	289.5 4	6.284 89	228. 769	0.192 118
12:11:32 PM	578	49289 3	1020. 66	249. 095	1.01784	261.079	27.965 2	47.8 362	990. 945	996.908	168.372	1.165 19	2.6474 6	78.04 89	188.46 4	1.53 132		25.1013	55.8219	394.8 15	96.400 1	74.55 22	79.7	26.6	39.6	287.8 87	6.286 57	228. 843	0.094 581
12:11:33 PM	578	49289 4	1019. 01	255. 48	1.01783	261.104	27.937 5	47.8 348	990. 945	996.681	167.241	0.969 178	2.5496 6	78.76 23	187.78 2	1.50 8		25.1002	55.8041	394.8 03	96.38	74.59 11	79.771 8	26.6 006	39.6	286.0 93	6.273 63	228. 907	0.106 404
12:11:34 PM	578	49289 5	1022. 26	258. 346	1.01783	260.992	27.868 8	47.8 379	990. 945	996.681	171.742	1.154 17	2.5091 7	79.10 1	186.13 6	1.52 51		25.1	55.8008	394.8 01	96.233 4	74.59 84	79.794 8	26.6 006	39.5	284.3 19	6.266 86	228. 994	0.144 828
12:11:35 PM	578	49289 6	1021. 47	256. 344	1.01783	260.949	27.769 7	47.8 467	990. 945	996.908	178.025	0.989 023	2.5710 6	78.62 02	186.66 4	1.55 282		25.1	55.8001	394.8 02	96.206 2	74.59 97	79.799 8	26.6 006	39.5	282.5 36	6.288 17	229. 222	0.106 404
12:11:36 PM	578	49289 7	1026. 67	258. 393	1.01784	261.088	27.821 2	47.8 664	990. 945	996.908	174.485	1.112 98	2.5443 2	78.52 21	185.96 2	1.55 271		25.1	55.8	394.4 09	96.201 1	74.59 99	79.799 8	26.6 006	39.5	280.7 05	6.327 37	229. 504	1.702 46
12:11:37 PM	578	49289 8	1000. 54	260. 612	1.01784	261.29	27.861 2	47.8 619	990. 945	996.908	160.43	1.700 99	2.4196 8	79.70 01	181.54 4	1.52 531		25.1	55.7206	394.2 39	96.200 2	74.6	79.8	26.6	39.5	279.0 7	6.316 9	229. 736	1.421 67
12:11:38 PM	578	49289 9	1016. 67	258. 142	1.01784	261.37	27.895 5	47.8 689	990. 945	996.908	157.444	1.401 78	2.4426 3	79.70 26	184.40 1	1.57 631		25.1	55.7038	394.2 07	96.2	74.6	79.8	26.6	39.5	277.3 61	6.278 99	229. 98	1.403 94
12:11:39 PM	578	49290 0	1026. 83	256. 31	1.01784	261.288	27.942 1	47.8 622	990. 945	996.908	166.131	1.064 33	2.5397 3	78.50 48	185.64 4	1.57 078		25.1	55.7007	394.2 01	96.2	74.6	79.8	26.6	39.5	275.6 08	6.264 93	229. 947	1.403 94
12:11:40 PM	578	49290 1	1020. 42	252. 059	1.01784	261.115	27.862 5	47.8 735	990. 945	996.908	162.343	1.113 62	2.5802 3	78.15 69	186.05 2	1.53 618		25.1	55.7001	394.2 02	96.2	74.6	79.8	26.6	39.5	273.9 34	6.244 58	229. 872	1.403 94
12:11:41 PM	578	49290 2	1020. 26	252. 498	1.01783	260.871	27.859 5	47.8 422	990. 945	996.908	157.049	1.316 91	2.5641 8	78.41 05	186.22 6	1.52 026		25.1	55.7	393.7 87	96.2	74.6	79.8	26.6	39.5	272.2 44	6.210 44	229. 673	1.392 12
12:11:42 PM	578	49290 3	1023. 72	259. 483	1.01783	260.617	27.806 3	47.8 31	990. 945	996.908	168.713	1.082 24	2.4816 4	79.41 2	185.00 8	1.57 201		25.1	55.5775	393.1 46	96.2	74.6	79.8	26.6	39.5	270.4 29	6.215 94	229. 235	1.392 12
12:11:43 PM	578	49290 4	1020. 52	256. 559	1.01783	260.464	27.745 8	47.8 536	990. 945	996.908	162.816	1.300 44	2.5359 1	78.55 25	182.76 3	1.56 506		25.1	55.5144	393.0 27	96.2	74.6	79.8	26.6	39.5	268.7 37	6.242 52	228. 96	1.392 12
12:11:44 PM	578	49290 5	1025. 42	256. 221	1.01784	260.332	27.796 2	47.8 557	990. 945	996.908	164.833	1.134 15	2.5183 4	78.38 01	184.62 4	1.56 45		25.1	55.5027	393.0 05	96.059 4	74.6	79.8	26.6	39.5	267.0 09	6.201 53	228. 566	1.392 12
12:11:45 PM	578	49290 6	1010. 14	253. 884	1.01784	260.275	27.801 5	47.8 729	990. 945	996.908	154.332	1.508 98	2.4709 3	78.91 41	182.97 4	1.54 571		25.1	55.5005	393.0 01	95.929 5	74.6	79.8	26.5	39.5	265.3 14	6.221 79	228. 224	1.392 12
12:11:46 PM	578	49290 7	1016. 87	253. 627	1.01785	260.158	27.778 3	47.8 816	990. 945	996.908	161.78	1.197 78	2.5298 8	78.60 31	186.00 3	1.55 971		25.1	55.5001	393 05	95.905 5	74.6	79.8	26.5	39.5	263.5 61	6.198 52	228. 09	1.392 12

12:11:47 PM	578	49290 8	1020. 67	255. 488	1.01785	260.016	27.735 1	47.8 783	990. 945	996.908	174.462	0.914 569	2.6283 6	78.05 14	186.13 1	1.54 764	25.1	55.4729	392.4 26	95.901	74.6	79.8	26.5 937	39.5	261.7 59	6.175 76	227. 856	1.383 25
12:11:48 PM	578	49290 9	1013. 38	259. 545	1.01784	259.827	27.649 3	47.8 765	990. 945	996.908	175.251	0.998 939	2.5787	77.97 7	186.01 6	1.52 112	25.1	55.4135	392.2 42	95.900 2	74.6	79.8	26.5 644	39.5	259.9 69	6.207 61	227. 838	1.383 25
12:11:49 PM	578	49291 0	1019. 74	256. 725	1.01784	259.823	27.694 4	47.8 755	990. 945	996.908	178.667	0.989 928	2.6023 8	77.79 73	185.70 2	1.52 292	25.1	55.4025	392.2 08	95.9	74.6	79.922 5	26.5 119	39.5	258.2 57	6.196 33	227. 906	1.383 25
12:11:50 PM	578	49291 1	1029. 2	256. 2	1.01785	259.89	27.844 5	47.8 82	990. 945	996.908	168.398	1.103 85	2.5939 8	78.14 97	186.63 5	1.54 563	25.1	55.4005	392.2 01	95.825 4	74.6	79.985 6	26.5 022	39.5	256.5 01	6.204 55	227. 659	1.383 25
12:11:51 PM	578	49291 2	1018. 53	254. 953	1.01785	259.986	27.978 4	47.8 833	990. 945	996.908	172.032	1.211 2	2.5863 4	77.98 58	184.96 7	1.54 173	25.1	55.4001	392.2	95.804 7	74.6	79.997 3	26.5 004	39.5	254.7 02	6.284 92	227. 239	1.383 25

APPENDIX P: RAW DATA – BF100 BLEND AT 15°BTDC

Manual Log Description : Power Curve on 100% biofuel
& 0% base diesel
Manual Log Start Date :
2012/01/17
Manual Log Start Time :
12:44:56 PM

TIME	mSec	Eng_Tim e	Spee d	Torq ue	~ECE_Corr _Factor	~Torque _Corr	~Power _Corr	Hum idity	~P_ _Baro	P_ _Pre_Co mpressor	P_ _Post_Co mpressor	P_ _Ex haust	P_ _Oil_ Filter	P_ _Co ol_In	P_ _Coo l_Out	P_ _F uel	T_ _Air_In_ _Snorkel	T_ _Post_Co mpressor	T_ _Ex haust	T_ _Oil_ Sump	T_ _Co ol_In	T_ _Coo l_Out	T_ _F uel	T_ _C ell	Fuel_ _Mass	Fuel_ _Flow	~SF _C	Smo ke
12:44:58 PM	500	493881	2614.13	213.366	1.01928	216.487	59.3274	48.6526	990.8	996.908	748.555	7.97094	5.068	35.3729	463.807	1.41885	25.39	93.1973	433.298	104.8	76.1129	80	29.5984	39.73	521.167	16.1708	280.858	0.01182
12:44:59 PM	500	493884	2614.34	213.533	1.01904	216.551	59.3309	48.6551	990.8	997.134	741.749	7.90166	5.10468	34.9135	463.16	1.42745	25.3167	93.1995	433.361	104.8	76.1024	80	29.6406	39.95	510.873	16.0536	280.325	0.1064
12:45:00 PM	500	493885	2614.72	213.086	1.01899	216.619	59.3788	48.6502	990.801	997.134	752.319	8.03113	5.07946	34.5771	466.275	1.42363	25.3031	93.2814	433.393	104.8	76.1404	80	29.689	39.9907	505.316	16.0057	279.316	0.008867
12:45:01 PM	500	493886	2614.47	212.642	1.01897	216.66	59.4332	48.6172	990.798	997.134	746.412	8.05512	5.06571	35.1962	464.353	1.43367	25.3006	93.2965	433.399	104.8	76.4334	80.0469	29.698	39.9983	500.687	16.0081	278.073	0.221675
12:45:02 PM	500	493887	2615.1	214.165	1.01897	216.689	59.4713	48.6297	990.795	997.134	746.792	8.05956	5.08557	35.6534	467.164	1.43179	25.3001	93.2994	433.4	105.006	76.4877	80.0901	29.7767	39.9427	496.23	15.9856	276.846	0.008867
12:45:03 PM	515	493888	2614.85	214.347	1.01898	216.782	59.5138	48.625	990.792	997.134	749.146	8.00338	5.09856	36.5691	465.665	1.42417	25.3	93.2999	433.4	105.083	76.4977	80.0982	29.7957	39.745	491.86	15.9445	275.619	0.008867
12:45:04 PM	500	493889	2614.98	213.84	1.01898	216.942	59.5619	48.6136	990.79	997.134	748.28	8.03824	5.08099	35.7027	465.662	1.4208	25.3	93.3	433.538	105.097	76.4996	80.0997	29.7992	39.7083	487.462	15.9544	274.602	0.162562
12:45:05 PM	515	493890	2615.01	213.444	1.01897	217.09	59.6201	48.6068	990.79	997.134	750.544	8.05644	5.09627	35.0573	466.694	1.42145	25.3	93.3	433.751	105.099	76.4999	80.0999	29.7999	39.7015	483.043	15.936	273.842	0.1064
12:45:06 PM	500	493891	2614.87	213.659	1.01897	217.202	59.659	48.5894	990.789	997.134	748.831	8.05981	5.06342	36.419	465.906	1.41494	25.3	93.3	433.791	105.1	76.4387	80.1	29.8003	39.7003	478.671	15.9111	273.27	0.1064
12:45:07 PM	500	493892	2614.32	213.212	1.01898	217.289	59.6655	48.6168	990.79	997.436	746.469	8.00342	5.07259	35.6593	466.242	1.41292	25.3	93.3	433.798	105.194	76.4072	80.4259	29.8001	39.7001	474.244	15.8944	272.761	0.1064
12:45:08 PM	500	493893	2614.43	213.135	1.01898	217.355	59.6252	48.6071	990.788	997.134	752.969	7.87945	5.06647	35.7178	467.289	1.4301	25.3	93.3	433.8	105.28	76.4013	80.4863	29.8746	39.7	469.679	15.9124	272.375	0.1064
12:45:09 PM	500	493894	2615.29	212.767	1.01911	217.399	59.5716	48.5895	990.788	997.134	758.688	7.74973	5.07182	36.0521	466.942	1.4275	25.3469	93.3	433.8	105.296	76.4002	80.4975	29.8953	39.7	465.326	15.939	272.145	0.1064
12:45:10 PM	515	493895	2614.64	213.566	1.01927	217.437	59.531	48.6193	990.786	997.134	759.461	7.9782	5.09245	36.1655	465.304	1.42346	25.3902	93.3542	433.877	105.299	76.4	80.4995	29.8991	39.7	460.913	15.928	272.132	0.1064
12:45:11 PM	500	493896	2614.63	213.39	1.0193	217.477	59.499	48.6329	990.788	997.134	753.201	8.04531	5.09321	35.4629	466.641	1.42978	25.3982	93.473	433.896	105.3	76.4542	80.4999	29.8998	39.7	456.472	15.9023	272.274	0.656158
12:45:12 PM	515	493897	2615.03	213.855	1.0193	217.516	59.5017	48.6123	990.79	997.134	763.961	8.05775	5.11537	35.4595	468.134	1.422	25.3997	93.495	433.899	105.3	76.573	80.3697	29.9	39.7	452.086	15.891	272.473	1.74089
12:45:13 PM	500	493898	2614.29	212.627	1.01929	217.536	59.5278	48.5904	990.79	997.134	758.307	8.06005	5.08252	35.8182	466.194	1.41213	25.3999	93.4991	433.9	105.544	76.595	80.3127	29.9	39.7	447.798	15.8747	272.569	1.66404
12:45:14 PM	500	493899	2614.6	212.755	1.01929	217.542	59.5379	48.5913	990.788	997.134	745.651	8.0357	5.06342	35.9038	465.73	1.41482	25.4	93.4998	433.9	105.59	76.5991	80.3024	29.9	39.8781	443.484	15.8509	272.489	1.66404
12:45:15 PM	500	493900	2615.16	213.513	1.01929	217.517	59.514	48.5958	990.79	997.134	746.165	8.05596	5.05348	36.0347	467.297	1.40702	25.4	93.5	434.087	105.598	76.5998	80.3004	29.9	39.8959	439.163	15.795	272.262	1.64631
12:45:16 PM	500	493901	2615.29	213.559	1.01929	217.468	59.4775	48.5928	990.788	997.134	751.374	8.02045	5.06953	36.4037	466.21	1.40702	25.4	93.5	434.261	105.6	76.6	80.3001	29.9	39.8993	434.75	15.7846	271.934	1.64631
12:45:17 PM	515	493902	2614.05	213.086	1.01929	217.423	59.4704	48.5868	990.788	997.134	751.447	7.95859	5.08099	36.0491	465.545	1.41946	25.4	93.5	434.293	105.6	76.2144	80.2187	29.8999	39.8	430.327	15.7827	271.61	1.63448

12:45:18 PM	500	493903	2614.69	212.937	1.01929	217.387	59.4903	48.5971	990.788	997.134	745.294	8.00391	5.08787	35.6877	465.63	1.42885	25.4	93.5	434.299	105.47	76.1212	80.0405	29.8167	39.9	425.86	15.7823	271.25	1.64631
12:45:19 PM	515	493904	2614.83	212.636	1.0193	217.34	59.5053	48.6133	990.786	997.134	748.651	8.05007	5.0894	35.9837	465.816	1.42547	25.4	93.5	434.3	105.413	76.1039	80.0075	29.8031	39.9	421.392	15.7594	270.887	1.62562
12:45:20 PM	500	493905	2614.92	212.225	1.0193	217.278	59.477	48.599	990.784	997.134	746.882	8.11044	5.0573	35.3412	468.114	1.41507	25.4	93.5	434.3	105.402	76.1007	80.0014	29.8006	39.9	417.00	15.7604	270.584	1.64631
12:45:21 PM	500	493906	2613.86	212.729	1.01929	217.218	59.42	48.588	990.786	997.134	745.857	8.06981	5.06189	35.5936	465.812	1.42477	25.4	93.5	434.137	105.4	76.1001	80.0003	29.8001	39.9	412.649	15.7606	270.422	1.63448
12:45:22 PM	500	493907	2614.28	212.536	1.01929	217.177	59.3575	48.5859	990.786	997.134	748.092	7.97455	5.07564	34.8483	465.223	1.42979	25.4	93.5	434.107	105.4	76.1	80	29.8	39.9	408.137	15.7606	270.411	1.62562
12:45:23 PM	500	493908	2615.69	213.037	1.01929	217.133	59.3254	48.5856	990.788	997.134	762.446	8.01064	5.0787	34.6955	465.592	1.42083	25.4	93.5	434.101	105.438	76.1	80	29.8	39.9	403.858	15.7553	270.514	1.62562
12:45:24 PM	515	493909	2615.07	213.94	1.0193	217.096	59.3404	48.5958	990.786	997.134	763.826	8.00284	5.09321	34.1203	464.101	1.41447	25.4	93.5	434.1	105.57	76.1	80	29.8	39.7775	399.458	15.8032	270.642	1.62562
12:45:25 PM	500	493910	2614.45	213.989	1.0193	217.086	59.404	48.5923	990.783	997.134	748.646	7.99287	5.07029	34.5555	464.921	1.40909	25.4	93.5	434.1	105.594	76.1	80	29.8	39.7144	395.13	15.7904	270.716	1.61675
12:45:26 PM	515	493911	2614.47	212.51	1.0193	217.118	59.4961	48.5867	990.783	997.134	744.33	7.93266	5.06953	35.5476	466.21	1.41338	25.4	93.5	434.23	105.599	76.1	80	29.8	39.7948	390.746	15.7838	270.678	1.61675
12:45:27 PM	500	493912	2614.1	212.267	1.0193	217.139	59.5464	48.594	990.784	997.134	743.651	7.94918	5.05425	35.6948	465.512	1.41691	25.4	93.5794	434.287	105.6	76.1	80	29.8	39.799	386.329	15.7825	270.549	1.62562
12:47:16 PM	500	494021	2410.39	221.656	1.01774	226.621	56.9705	48.6819	990.776	997.134	668.957	6.80713	4.94575	48.8945	422.429	1.54852	24.9	88.3	430.671	106.402	76.1001	80	30.1	39.9984	303.289	14.7681	264.013	0.01182
12:47:17 PM	500	494022	2410.06	221.821	1.01774	226.422	56.911	48.6779	990.776	997.134	660.332	6.93557	4.94881	49.3182	421.975	1.54463	24.9	88.2229	430.45	106.4	76.1	80	30.1	39.9997	299.253	14.7627	264.143	0.01182
12:47:18 PM	500	494023	2409.64	221.454	1.01774	226.274	56.8902	48.6872	990.776	997.134	660.397	6.76842	4.95721	49.7505	423.373	1.54684	24.9	88.2042	430.409	106.4	76.1	80	30.1	39.9254	295.165	14.7728	264.254	0.1064
12:47:19 PM	500	494024	2410.45	221.847	1.01774	226.144	56.9035	48.6977	990.776	997.134	673.689	6.73744	4.95263	49.6179	423.108	1.55767	24.9	88.2008	430.402	106.263	76.1	80	30.1	39.8047	290.977	14.7772	264.297	0.008867
12:47:20 PM	500	494025	2410.09	221.859	1.01774	226.032	56.9251	48.7042	990.776	997.134	661.532	6.77249	4.95263	49.1871	422.662	1.5391	24.9	88.2001	430.4	106.212	76.1	80	30.1	39.7418	286.83	14.7689	264.243	0.1064
12:47:21 PM	500	494026	2410.07	221.462	1.01843	225.955	56.9781	48.7148	990.776	997.134	664.371	6.81421	4.94728	49.466	421.902	1.55075	25.1153	88.2	430.346	106.202	76.1	80	30.1	39.7892	282.706	14.7532	264.146	0.008867
12:47:22 PM	500	494027	2410.42	221.453	1.01867	225.897	56.9985	48.7238	990.776	997.134	671.364	6.94697	4.95263	50.3765	422.625	1.55382	25.1843	88.0861	430.227	106.2	76.1	80	30.1	39.798	278.697	14.7612	264.045	0.008867
12:47:23 PM	500	494028	2410.28	221.813	1.01869	225.821	56.9963	48.6857	990.776	997.134	667.184	6.81585	4.95416	49.5632	424.377	1.55747	25.1971	88.016	430.205	106.2	76.1613	80	30.1	39.7996	274.595	14.7513	263.947	0.44335
12:47:24 PM	500	494029	2410.35	221.796	1.01872	225.746	56.9952	48.7423	990.776	997.134	660.447	6.74623	4.95568	50.0367	422.172	1.53881	25.1995	88.003	430.201	106.282	76.1928	80	30.1	39.7999	270.616	14.763	263.855	0.02069
12:47:25 PM	500	494030	2409.85	221.301	1.01872	225.685	56.9916	48.7294	990.776	997.134	657.873	6.73333	4.95186	49.1515	423.786	1.54327	25.1999	88.0005	430.2	106.378	76.1987	80	30.2	39.8303	266.527	14.7314	263.795	0.1064
12:47:26 PM	500	494031	2409.44	220.543	1.01829	225.631	56.9519	48.7376	990.776	997.134	662.325	6.80277	4.95416	49.6614	423.907	1.55592	25.0594	88.0001	430.2	106.396	76.1998	80	30.2	39.8871	262.407	14.7358	263.735	0.1064
12:47:27 PM	500	494032	2410.27	220.299	1.01786	225.566	56.8862	48.7346	990.776	997.134	661.995	6.81288	4.95874	49.0023	422.913	1.54994	24.9295	87.981	429.827	106.399	76.2	80	30.2	39.8976	258.343	14.7023	263.7	0.1064
12:47:28 PM	500	494033	2410.12	220.572	1.01779	225.5	56.8129	48.7772	990.776	997.134	655.769	6.97087	4.95721	49.4659	423.157	1.55169	24.9055	87.915	429.724	106.4	76.2	80	30.1	39.8185	254.227	14.7187	263.697	0.1064
12:47:29 PM	500	494034	2410.01	220.212	1.01775	225.427	56.7248	48.7162	990.774	997.436	649.793	6.83713	4.95339	49.3109	424.047	1.55711	24.901	87.9028	429.704	106.4	76.2	80	30.1	39.878	250.278	14.6588	263.741	0.1064
12:47:30 PM	500	494035	2410.31	220.284	1.01778	225.335	56.6605	48.7726	990.774	997.134	663.478	6.75018	4.95645	49.0672	423.888	1.55696	24.9002	87.9005	429.701	106.4	76.2	80	30.1	39.8959	246.128	14.6299	263.796	0.065025
12:47:31 PM	500	494036	2410.06	220.817	1.01778	225.231	56.6277	48.7831	990.774	997.134	657.58	6.80314	4.94881	49.6115	422.672	1.54258	24.9	87.9001	429.7	106.4	76.2	80	30.1	39.7992	242.037	14.623	263.788	1.27685
12:47:32 PM	500	494037	2410.81	220.759	1.01779	225.138	56.6243	48.7961	990.774	997.134	663.225	6.74388	4.94728	48.7545	422.373	1.5462	24.9	87.9	429.513	106.4	76.2	80	30.1	39.7999	237.994	14.5907	263.67	1.26798

12:47:33 PM	500	494038	2410.06	220.936	1.01779	225.056	56.644	48.7985	990.774	997.134	665.339	6.78526	4.95645	49.179	424.125	1.55296	24.9	87.7628	429.339	106.4	76.2	80	30.2	39.7008	233.893	14.63	263.374	1.25911
12:47:34 PM	500	494039	2410.92	221.034	1.01779	224.965	56.6728	48.799	990.774	997.134	666.631	6.7736	4.95339	49.8735	423.689	1.53995	24.9	87.7116	429.307	106.4	76.218	80	30.2	39.7002	229.846	14.6103	263.035	1.24729
12:47:35 PM	500	494040	2410.17	221.093	1.01778	224.897	56.7112	48.7909	990.774	997.134	671.135	6.73841	4.94881	50.019	422.284	1.5456	24.9	87.7022	429.301	106.571	76.2948	80	30.2	39.7	225.733	14.63	262.698	1.24729
12:47:36 PM	500	494041	2409.89	220.549	1.01778	224.83	56.7388	48.7909	990.774	997.134	655.405	6.78424	4.94499	51.16	422.56	1.54663	24.9	87.7004	429.3	106.676	76.299	80	30.2	39.8492	221.666	14.6456	262.465	1.23842
12:47:37 PM	500	494042	2410.73	220.32	1.01779	224.743	56.743	48.7976	990.774	997.134	651.768	6.74038	4.95874	51.3966	423.434	1.54643	24.9	87.7001	429.3	106.696	76.298	80	30.2	39.8906	217.596	14.645	262.373	1.23842
12:47:38 PM	500	494043	2410.3	221.349	1.01778	224.64	56.7308	48.7888	990.774	997.134	669.454	6.86223	4.95951	50.5312	423.379	1.5376	24.9	87.7	429.3	106.699	76.3	80	30.2	39.8983	213.624	14.5824	262.364	1.23842
12:47:39 PM	500	494044	2410.07	220.827	1.01779	224.588	56.7189	48.785	990.774	997.134	656.889	6.75483	4.95568	49.5012	424.214	1.55801	24.9	87.7	429.3	106.7	76.2531	80	30.2	39.8997	209.509	14.6253	262.399	1.22956
12:47:40 PM	500	494045	2410.62	220.701	1.01778	224.601	56.7197	48.794	990.774	996.908	661.667	6.81696	4.95263	49.5522	424.46	1.54879	24.9	87.7	429.3	106.643	76.2098	80	30.2	39.8999	205.459	14.6191	262.427	1.23842
12:47:41 PM	500	494046	2410.26	220.663	1.01779	224.63	56.7247	48.7981	990.774	997.134	657.384	6.8563	4.95339	49.665	423.983	1.54854	24.9	87.7	429.3	106.445	76.2018	80	30.2	39.9	201.399	14.6034	262.38	1.21773
12:47:42 PM	500	494047	2410.55	220.534	1.01778	224.648	56.724	48.7989	990.776	997.134	664.207	6.83048	4.95034	49.9516	422.39	1.55031	24.9	87.7	429.3	106.408	76.2003	80	30.2	39.9	197.312	14.6309	262.278	1.23842
12:47:43 PM	500	494048	2410.17	220.692	1.01779	224.669	56.7139	48.8165	990.776	997.134	658.792	6.85022	4.95721	49.8842	423.356	1.55482	24.9	87.7	429.3	106.402	76.2001	80	30.2	39.9	193.98	14.6246	262.261	1.22956
12:47:44 PM	500	494049	2410.13	220.5	1.01778	224.684	56.6908	48.8023	990.776	997.134	667.901	6.7526	4.95416	49.9082	422.418	1.55398	24.9	87.6185	429.3	106.4	76.2	80	30.2	39.9	189.218	14.6044	262.271	1.22956
12:47:45 PM	500	494050	2410.8	220.244	1.01779	224.683	56.6737	48.8214	990.776	997.134	658.808	6.96143	4.95034	49.7183	422.531	1.54279	24.9	87.6034	429.3	106.4	76.1185	80	30.2	39.9	185.64	14.6034	262.341	1.22956
12:49:29 PM	500	494154	2206.91	246.157	1.0179	250.541	57.8615	49.0691	990.771	997.134	611.648	8.22894	4.74328	59.3955	380.186	1.50063	24.9	84.1	439.303	105.7	75.8228	79.9	29.1007	39.9	442.543	14.5294	256.91	0.017734
12:49:30 PM	500	494155	2207.39	245.571	1.0179	250.5	57.8468	49.0729	990.768	997.134	612.132	8.21404	4.75474	59.5807	381.875	1.50771	24.9	84.1	439.301	105.7	75.9672	80.0435	29.1001	39.9	438.422	14.5281	256.57	0.017734
12:49:31 PM	500	494156	2207.18	246.914	1.0179	250.459	57.8495	49.0604	990.766	997.134	606.483	8.08901	4.74098	59.3075	381.082	1.50667	24.9	84.1	439.3	105.7	75.9939	80.0895	29.1	39.9	434.273	14.5427	256.243	0.017734
12:49:32 PM	500	494157	2206.71	246.23	1.0179	250.432	57.8689	49.0556	990.766	997.134	609.65	8.29359	4.74939	59.5101	378.515	1.48734	24.9	84.1	439.3	105.7	75.9989	80.0981	29.1	39.9	430.417	14.5349	255.992	0.1064
12:49:33 PM	500	494158	2207.1	245.146	1.01789	250.398	57.8939	49.0558	990.768	997.134	608.042	8.18554	4.74404	59.7596	379.348	1.49365	24.9	84.1	439.3	105.7	75.9998	80.0996	29.0229	39.9	426.427	14.5009	255.776	0.008867
12:49:34 PM	500	494159	2207.22	244.847	1.01789	250.335	57.8865	49.0546	990.768	997.134	616.569	8.09547	4.74939	58.8821	380.469	1.49976	24.9	83.9412	439.3	105.7	76	80.0999	29.0042	39.9	422.316	14.4999	255.599	0.04138
12:49:35 PM	500	494160	2207.65	245.896	1.0179	250.282	57.84	49.0702	990.769	997.134	617.546	8.06704	4.75092	59.3285	380.052	1.48981	24.9	83.9076	439.3	105.7	76	80.1	008	39.9	418.281	14.5182	255.496	0.008867
12:49:36 PM	500	494161	2207.61	246.379	1.0179	250.274	57.7991	49.0731	990.767	997.134	617.601	8.12573	4.75092	59.1575	381.467	1.49704	24.9	83.9014	439.3	105.837	76	80.1	001	39.92	414.234	14.526	255.455	0.1064
12:49:37 PM	500	494162	2206.89	246.356	1.0179	250.293	57.7897	49.0736	990.767	997.134	617.388	8.16742	4.75015	59.6149	379.542	1.51011	24.9	83.9003	439.3	105.88	76	80.1	29	40.0666	410.17	14.5511	255.477	0.1064
12:49:38 PM	500	494163	2206.56	245.255	1.01838	250.311	57.8507	49.0737	990.767	997.134	603.818	8.40946	4.74939	60.2876	379.154	1.51332	25.0492	83.9	439.3	105.898	76	80.1	29	40.0938	406.137	14.5469	255.583	0.1064
12:49:39 PM	500	494164	2207.3	245.481	1.01851	250.302	57.8933	49.0738	990.767	997.134	606.247	8.421	4.74862	60.119	381.647	1.50752	25.0906	83.9	439.3	105.9	76	80.1	29	40.0989	402.113	14.5313	255.687	0.1064
12:49:40 PM	500	494165	2207.22	245.555	1.01854	250.284	57.8867	49.0738	990.768	997.436	615.584	8.22269	4.74633	59.9248	380.784	1.50269	25.0983	83.9	439.3	105.9	75.8291	80.1	29	40.0998	398.084	14.521	255.757	0.1064
12:49:41 PM	500	494166	2207.24	245.281	1.01854	250.271	57.8431	49.0738	990.768	997.134	616.947	8.11815	4.75474	60.2683	379.728	1.48821	25.0997	83.9	439.3	105.79	75.7239	80.1	29	40.1	394.04	14.4841	255.822	0.1064
12:49:42 PM	500	494167	2207.52	246.064	1.01854	250.257	57.806	49.0738	990.772	997.134	622.033	8.07124	4.74862	60.4007	381.282	1.50716	25.0999	83.9	439.3	105.636	75.7044	80.1	28.9729	40.1	389.919	14.4628	255.803	0.05025

12:49:43 PM	500	494168	2207.36	246.599	1.01854	250.259	57.8066	49.0738	990.772	997.134	616.004	8.25657	4.7471	60.4091	380.813	1.50373	25.1	83.9	439.3	105.607	75.7008	80.1	28.9135	40.1	385.978	14.504	255.721	0.04138
12:49:44 PM	500	494169	2207.07	246.086	1.01853	250.281	57.8511	49.0631	990.774	997.134	609.351	8.17285	4.75168	59.3686	379.514	1.50577	25.1	83.919	439.375	105.601	75.7001	80.1	28.9025	40.1	381.944	14.5192	255.567	0.694581
12:49:45 PM	500	494170	2206.88	245.203	1.01854	250.296	57.9056	49.0718	990.774	997.134	598.473	8.18461	4.75397	59.5871	380.644	1.50763	25.1	83.985	439.395	105.6	75.738	80.1	28.9005	40.1	377.917	14.5044	255.332	0.919212
12:49:46 PM	500	494171	2207.34	245.496	1.01854	250.287	57.9258	49.0734	990.774	997.436	602.205	8.16252	4.74557	59.3688	381.391	1.50729	25.1	83.9972	439.399	105.6	75.87	80.1	28.9001	40.1	373.85	14.4904	255.152	0.910345
12:49:47 PM	500	494172	2207.92	245.563	1.01854	250.299	57.9069	49.0737	990.774	997.436	601.547	8.23826	4.75321	60.0123	380.783	1.50945	25.1	83.9995	439.4	105.679	75.8944	80.1	28.8656	40.0	369.819	14.5032	255.089	0.898522
12:49:48 PM	500	494173	2207.29	245.413	1.01853	250.325	57.8608	49.0737	990.776	997.134	607.989	8.1793	4.74862	59.8429	380.523	1.50092	25.1	83.9999	439.4	105.696	75.899	80.1	28.8122	39.9243	365.846	14.4655	255.06	0.880788
12:49:49 PM	500	494174	2207.34	244.696	1.01853	250.317	57.8114	49.0738	990.776	997.134	611.217	8.17131	4.75092	60.4533	379.534	1.515	25.1	84	439.154	105.699	75.8998	80.1	28.8023	39.9045	361.732	14.481	255.115	0.868966
12:49:50 PM	500	494175	2207.07	244.916	1.01853	250.246	57.774	49.0738	990.776	997.134	613.535	8.08109	4.75015	60.467	381.102	1.51082	25.1	83.8565	438.866	105.7	75.9	80.1	28.8004	39.908	357.77	14.4838	255.19	0.868966
12:49:51 PM	500	494176	2207.32	244.679	1.01854	250.149	57.7379	49.0738	990.774	997.134	615.001	8.06438	4.74939	60.6191	383.205	1.51081	25.1	83.8105	438.812	105.7	75.9	80.062	28.7349	39.9002	353.693	14.4844	255.261	0.830542
12:49:52 PM	500	494177	2207.37	244.591	1.01854	250.081	57.6917	49.0738	990.774	997.134	612.504	8.10324	4.74633	61.1224	381.736	1.52037	25.1	83.8019	438.802	105.648	75.9	79.93	28.7065	39.9	349.645	14.4845	255.371	0.821675
12:49:53 PM	500	494178	2207.08	244.827	1.01854	250.024	57.6504	49.0738	990.774	997.134	607.524	8.09907	4.75245	61.0446	381.1	1.52348	25.1	83.8004	438.8	105.609	75.9	79.9056	28.6741	40.0543	345.672	14.4483	255.527	0.812808
12:49:54 PM	500	494179	2207.419	244.419	1.01854	249.966	57.6271	49.0738	990.773	997.134	606.859	8.06771	4.75627	60.7685	380.587	1.51426	25.1	83.8001	438.8	105.602	75.9	79.901	28.6137	40.0915	341.682	14.4522	255.651	0.812808
12:49:55 PM	500	494180	2207.12	244.581	1.01854	249.892	57.6187	49.0738	990.771	997.134	602.962	8.21217	4.75245	60.9009	381.58	1.51187	25.1	83.8	438.8	105.6	75.9	79.9002	28.6025	40.0984	337.708	14.4253	255.716	0.812808
12:49:56 PM	500	494181	2207.64	244.261	1.01854	249.772	57.6023	49.0738	990.769	997.134	595.794	8.36983	4.74786	60.4755	381.632	1.51358	25.1	83.8	438.8	105.6	75.9	79.9	28.6005	40.0997	333.714	14.4148	255.672	0.812808
12:49:57 PM	500	494182	2206.89	243.332	1.01854	249.603	57.5682	49.0738	990.769	997.134	597.468	8.29089	4.75092	60.4359	381.17	1.51929	25.1	83.8	438.8	105.58	75.9	79.9	28.6001	40.0999	329.659	14.3988	255.535	0.812808
12:49:58 PM	500	494183	2207.62	243.491	1.01854	249.413	57.5161	49.0738	990.769	997.134	601.595	8.11499	4.75627	60.6233	379.953	1.52443	25.1	83.8	438.8	105.433	75.9	79.9	28.5532	40.0063	325.603	14.4241	255.394	0.803941
12:52:18 PM	500	494323	2019.3	251.463	1.01865	257.226	54.3642	49.1746	990.719	997.134	497.876	10.7819	4.57824	73.1463	348.85	1.51294	25.1	76.6254	438.624	103.8	75.6	79.9	28.0623	40.1	352.569	13.3532	251.722	0.008867
12:52:19 PM	500	494324	2019.31	251.933	1.01863	257.117	54.3349	49.1514	990.721	997.134	501.78	10.9121	4.57518	72.8315	348.57	1.5163	25.1	76.6047	438.604	103.8	75.6	79.9	28.093	40.1	348.854	13.3292	251.000	0.86867
12:52:20 PM	500	494325	2019.86	251.802	1.01864	257.01	54.2907	49.165	990.724	997.134	499.095	10.9927	4.57671	72.8683	348.705	1.52108	25.1	76.6009	438.601	103.8	75.6	79.9	28.0716	40.1	345.01	13.3247	250.841	0.133005
12:52:21 PM	500	494326	2019.28	252.162	1.01863	256.905	54.2565	49.1572	990.727	997.134	496.013	10.9449	4.58282	72.7302	348.095	1.52649	25.1	76.6002	438.6	103.8	75.6	79.9	28.0133	40.1833	341.318	13.3573	250.587	0.008867
12:52:22 PM	500	494327	2018.76	250.977	1.01864	256.802	54.2394	49.1828	990.727	997.436	496.077	11.0137	4.58664	72.6697	348.968	1.52342	25.1	76.6	438.505	103.8	75.6	79.9	28.0025	40.1969	337.528	13.3867	250.492	0.008867
12:52:23 PM	500	494328	2018.96	250.323	1.01864	256.677	54.2226	49.1733	990.725	997.134	501.13	10.8693	4.579	73.4817	347.26	1.52441	25.1	76.4957	438.175	103.8	75.6	79.9	28.0005	40.1994	333.832	13.3941	250.555	0.212808
12:52:24 PM	500	494329	2018.81	250.566	1.01864	256.553	54.1711	49.1917	990.726	997.134	492.255	10.9456	4.57136	73.7936	349.056	1.52914	25.1	76.4177	438.114	103.8	75.6	79.9	28.0523	40.1999	330.102	13.3955	250.799	0.008867
12:52:25 PM	500	494330	2018.51	249.817	1.01863	256.448	54.0865	49.1782	990.73	997.134	494.694	11.0344	4.579	73.8248	350.967	1.53106	25.1	76.4033	438.103	103.773	75.6	79.9	28.0641	40.2	326.392	13.3802	251.178	0.1064
12:52:26 PM	500	494331	2018.82	249.753	1.01863	256.335	53.9901	49.1926	990.734	997.134	493.638	11.045	4.58206	73.6656	350.069	1.53361	25.1	76.4006	438.1	103.714	75.6	79.9	28.0119	40.2	322.717	13.3565	251.665	0.115271
12:52:27 PM	500	494332	2019.3	249.723	1.01864	256.172	53.9038	49.1952	990.731	997.134	498.249	10.8693	4.58053	73.428	347.488	1.52885	25.1	76.4001	438.1	103.702	75.6	79.9	28.0022	40.2	319.023	13.3821	252.146	0.183251
12:52:28 PM	500	494333	2019.07	250.152	1.01863	255.966	53.853	49.1853	990.732	997.134	494.516	10.8247	4.58359	73.2383	348.841	1.53401	25.1	76.39	437.62	103.7	75.6	79.9	28.0775	40.2	315.301	13.3933	252.53	0.09754
12:52:29 PM	500	494334	2018.84	249.39	1.01864	255.739	53.8242	49.1939	990.731	997.134	494.891	10.9155	4.58588	72.7552	350.235	1.53489	25.1	76.3167	437.441	103.7	75.6	79.9	28.0958	40.2	311.599	13.3813	252.825	0.1064

12:52:30 PM	500	494335	2019.27	249.389	1.01864	255.509	53.8029	49.1955	990.732	997.134	489.688	10.9294	4.58206	73.8424	349.029	1.52734	25.1	76.3031	437.408	103.7	75.6	79.9	28.0992	40.2	307.974	13.3755	253.038	0.08867
12:52:31 PM	500	494336	2018.93	248.678	1.01863	255.299	53.7783	49.1516	990.729	997.134	494.53	10.8964	4.58359	73.0207	350.446	1.53634	25.1	76.3006	437.401	103.777	75.6	79.9	28.0999	40.2	304.288	13.3255	253.215	0.06798
12:52:32 PM	500	494337	2019.49	248.8	1.01864	255.085	53.7372	49.1707	990.726	997.134	489.137	10.762	4.58512	73.2443	348.865	1.53741	25.1	76.3001	437.4	103.796	75.6	79.9	28.1	40.2	300.59	13.2724	253.286	0.04138
12:52:33 PM	500	494338	2019.59	249.498	1.01864	254.854	53.6871	49.166	990.721	997.436	491.366	10.9176	4.58053	72.5435	349.622	1.54351	25.1	76.3	436.931	103.799	75.6	79.9	28.0206	40.2	296.851	13.2555	253.226	1.03448
12:52:34 PM	500	494339	2019.92	249.976	1.01866	254.623	53.6566	49.1903	990.714	997.134	496.912	10.9732	4.579	72.7574	348.253	1.53825	25.1	76.1628	436.498	103.8	75.6	79.9	28.0038	40.2	293.155	13.2674	253.011	0.966502
12:52:35 PM	500	494340	2019.29	250.191	1.01866	254.459	53.6768	49.1867	990.712	997.134	499.048	10.785	4.579	73.1023	349.724	1.53657	25.1	76.1116	436.418	103.8	75.5282	79.9	28.0658	40.2	289.41	13.2751	252.634	0.928079
12:52:36 PM	500	494341	2019.21	249.967	1.01867	254.358	53.7304	49.1789	990.704	997.134	495.649	10.9429	4.58435	73.0931	349.39	1.53447	25.1	76.1022	436.403	103.971	75.502	79.9	28.0468	40.2	285.691	13.2761	252.236	0.919212
12:52:37 PM	500	494342	2019.37	249.298	1.01868	254.306	53.7926	49.1927	990.699	997.134	490.76	10.8533	4.58282	73.1369	349.55	1.53739	25.1	76.1004	436.401	104.076	75.501	79.9	28.0358	40.1254	282	13.2678	251.847	0.898522
12:52:38 PM	500	494343	2019.36	249.284	1.01869	254.253	53.8188	49.1953	990.695	997.134	498.031	11.0173	4.58053	73.2585	348.909	1.53721	25.1	76.1001	436.4	104.096	75.502	79.9	28.0881	40.1047	278.391	13.2546	251.534	0.898522
12:52:39 PM	500	494344	2019.4	248.793	1.01869	254.196	53.7949	49.1957	990.694	997.134	492.534	11.0435	4.58053	73.4644	348.669	1.53251	25.1	76.0656	436.4	104.099	75.5	79.9	28.0978	40.1009	274.735	13.2481	251.335	0.889655
12:52:40 PM	500	494345	2019.72	249.435	1.01868	254.145	53.749	49.1868	990.696	997.134	494.503	10.9134	4.5813	73.1731	348.103	1.53345	25.1	76.0122	436.4	104.1	75.541	79.9	28.0996	40.1002	271.107	13.2375	251.247	0.889655
12:52:41 PM	500	494346	2019.33	249.395	1.01868	254.097	53.7073	49.1942	990.698	997.134	485.917	10.8084	4.58282	72.919	349.538	1.53548	25.1	76.0023	436.4	104.1	75.5891	79.8282	28.0999	40.1	267.354	13.2512	251.219	0.880788
12:52:42 PM	500	494347	2019.07	249.214	1.01868	254.061	53.6922	49.1955	990.699	997.134	493.292	10.6912	4.58512	73.0079	348.97	1.53985	25.1	76.0004	436.4	104.1	75.598	79.8052	28.1	40.1	263.716	13.2699	251.253	0.868966
12:52:43 PM	500	494348	2019.27	248.993	1.01868	254.038	53.6941	49.1899	990.699	997.134	496.142	10.6964	4.58588	73.5959	349.505	1.53603	25.1	76.0001	436.4	104.1	75.596	79.801	28.1	40.1	260.059	13.2787	251.318	0.880788
12:52:44 PM	500	494349	2019.39	248.839	1.01867	254.027	53.6894	49.1947	990.704	997.134	499.764	10.6035	4.58512	72.9274	349.33	1.53854	25.1	76	436.032	104.1	75.5999	79.8002	28.0185	40.1	256.428	13.239	251.406	0.868966
12:52:45 PM	500	494350	2019.18	249.119	1.01867	254.03	53.6759	49.1956	990.705	997.134	492.155	10.8728	4.58359	73.357	350.115	1.54064	25.1	76	435.843	104.1	75.6	79.8	28.0806	40.1	252.739	13.214	251.483	0.868966
12:52:46 PM	500	494351	2019.46	249.295	1.01867	254.04	53.6581	49.1958	990.704	997.134	489.76	10.8643	4.59123	72.9924	349.27	1.54341	25.1	76	435.808	104.1	75.6	79.8	28.0313	40.1	249.04	13.2094	251.495	0.868966
12:52:47 PM	500	494352	2019.43	249.503	1.01868	254.031	53.6539	49.1958	990.702	997.134	496.161	10.9274	4.57824	73.7359	348.996	1.54137	25.1	76	435.801	103.963	75.6	79.8	28.0526	40.1	245.37	13.2086	251.86	0.868966
12:54:14 PM	500	494439	1814.61	266.513	1.01867	270.918	51.5388	49.2062	990.707	997.436	424.329	8.61531	4.34367	81.3516	314.838	1.51693	25.0999	71.4007	442.1	102.8	75.5988	80.0962	28.3	40.2	453.557	12.6973	250.843	0
12:54:15 PM	500	494440	1814.41	266.308	1.01868	270.981	51.573	49.2265	990.706	997.436	425.556	8.57933	4.35131	81.312	314.882	1.5235	25.1	71.4001	442.1	102.8	75.5998	80.0993	28.2	40.2	449.878	12.6623	250.942	0.017734
12:54:16 PM	500	494441	1814.76	266.07	1.0187	271.036	51.5906	49.2413	990.699	997.134	430.904	8.57451	4.35208	80.4163	316.055	1.5083	25.1	71.4	442.1	102.8	75.6	80.0999	28.2	40.2	446.451	12.6343	250.918	0.05911
12:54:17 PM	500	494442	1814.89	265.899	1.01871	271.074	51.5868	49.2564	990.695	997.134	427.303	8.62025	4.34902	81.4471	315.571	1.5057	25.1	71.4	442.1	102.8	75.56	80.1	28.2008	40.2	442.98	12.6102	250.738	0.05911
12:54:18 PM	500	494443	1814.58	265.849	1.01871	271.103	51.5602	49.2352	990.688	997.134	426.668	8.67178	4.35131	81.5527	315.359	1.4841	25.1	71.4	442.1	102.8	75.5122	79.9775	28.2001	40.2	439.558	12.5982	250.398	0.02069
12:54:19 PM	500	494444	1814.52	265.616	1.01871	271.121	51.5235	49.226	990.685	997.134	419.957	8.78785	4.34979	82.1646	315.015	1.50368	25.1	71.4	442.1	103.031	75.5023	79.9144	28.2	40.159	435.962	12.6137	250.015	0.02069
12:54:20 PM	500	494445	1814.88	265.505	1.01872	271.12	51.4897	49.2277	990.68	997.436	424.371	8.67151	4.35055	81.8805	315.965	1.52079	25.1	71.4	442.1	103.087	75.5004	79.9027	28.2	40.1109	432.328	12.6478	249.723	0.01182
12:54:21 PM	500	494446	1814.3	265.53	1.01871	271.094	51.4596	49.2017	990.678	997.134	427.265	8.51272	4.34979	82.0624	316.199	1.51352	25.1	71.4	442.006	103.098	75.5001	79.9005	28.2	40.102	428.802	12.6642	249.621	0.1064
12:54:22 PM	500	494447	1814.98	265.867	1.01873	271.058	51.4448	49.2254	990.671	997.436	433.677	8.44172	4.34291	81.785	315.035	1.50831	25.1	71.4	441.92	103.1	75.5	79.9001	28.2	40.1004	425.358	12.6476	249.726	0.017734

12:54:23 PM	500	494448	1814.8	265.417	1.01872	271.02	51.4319	49.2572	990.681	997.134	421.73	8.53863	4.3452	81.2455	315.478	1.50576	25.1	71.4	441.904	103.1	75.5	79.9	28.2	40.1001	421.857	12.6487	249.991	0.144828
12:54:24 PM	500	494449	1814.7	265.046	1.01872	270.976	51.4193	49.2433	990.682	997.134	426.252	8.55524	4.35208	81.0398	316.676	1.53766	25.1	71.4	441.901	103.1	75.5	79.9	28.2	40.1	418.229	12.592	250.274	0.094581
12:54:25 PM	500	494450	1814.99	265.14	1.01871	270.91	51.403	49.2148	990.684	997.436	426.293	8.45944	4.35208	81.2768	315.918	1.54367	25.1	71.4	441.9	103.1	75.7059	79.9	28.2	40.1	414.724	12.6536	250.417	0.174384
12:54:26 PM	500	494451	1814.95	265.877	1.01871	270.819	51.3788	49.2376	990.687	997.134	428.673	8.7943	4.35208	81.0689	315.235	1.52912	25.1	71.4	441.9	102.943	75.7826	80.0629	28.1185	40.1	411.172	12.6592	250.494	0.174384
12:54:27 PM	500	494452	1815.04	265.454	1.01871	270.73	51.3711	49.2225	990.688	997.134	430.455	8.55266	4.35361	81.1869	315.505	1.55498	25.1	71.4	441.9	102.827	75.7968	80.0931	28.1034	40.387	407.687	12.6602	250.517	0.076847
12:54:28 PM	500	494453	1814.36	264.927	1.0189	270.647	51.3852	49.2377	990.691	997.134	423.495	8.4767	4.35208	81.1485	315.135	1.51826	25.1613	71.4	441.9	102.805	75.7994	80.0987	28.1006	40.4791	404.171	12.7176	250.6	0.04138
12:54:29 PM	500	494454	1814.68	264.536	1.01901	270.565	51.39	49.2421	990.694	997.436	424.283	8.57734	4.35361	81.4734	316.396	1.52481	25.1928	71.3458	441.746	102.801	75.7999	80.0998	28.0592	40.4961	400.417	12.6742	250.837	0.936946
12:54:30 PM	500	494455	1814.1	264.294	1.01902	270.462	51.3639	49.2277	990.692	997.134	418.781	8.4235	4.35208	81.2678	316.137	1.54957	25.1987	71.227	441.708	102.8	75.8	80.1	28.011	40.4993	397.287	12.6286	251.076	0.936946
12:54:31 PM	500	494456	1814.13	264.249	1.01902	270.343	51.3058	49.2392	990.694	997.436	418.695	8.52831	4.34673	81.8902	315.248	1.50087	25.1998	71.205	441.702	102.8	75.8	80.1	28.002	40.499	393.814	12.5978	251.297	0.919212
12:54:32 PM	500	494457	1814.56	264.634	1.01903	270.222	51.2486	49.2557	990.693	997.134	418.183	8.39465	4.34979	81.8706	315.569	1.51843	25.2	71.2009	441.7	102.719	75.8	80.1	28.004	40.3771	390.35	12.5901	251.88	0.898522
12:54:33 PM	500	494458	1814.07	264.252	1.01897	270.119	51.1995	49.2088	990.691	997.134	419.696	8.4958	4.35361	81.6714	315.802	1.50834	25.181	71.2002	441.7	102.703	75.8	80.1	27.9314	40.2328	386.823	12.5564	251.286	0.898522
12:54:34 PM	500	494459	1814.65	264.583	1.01875	270.024	51.173	49.2172	990.688	997.134	423.369	8.41023	4.35437	81.2068	315.386	1.51533	25.115	71.2	441.439	102.701	75.8	80.1	27.8537	40.2061	383.241	12.5966	251.072	0.898522
12:54:35 PM	500	494460	1814.59	264.21	1.01873	269.931	51.1739	49.241	990.687	997.436	420.032	8.5328	4.35743	80.8117	315.651	1.55102	25.1028	71.0458	441.244	102.7	75.8	80.1	27.8099	40.2011	379.664	12.5664	250.815	0.898522
12:54:36 PM	500	494461	1814.48	264.532	1.01872	269.841	51.1768	49.2315	990.682	997.134	422.896	8.51305	4.35208	81.233	314.944	1.52655	25.1005	71.0085	441.208	102.7	75.7206	80.1	27.8018	40.2002	376.02	12.5688	250.588	0.910345
12:54:37 PM	500	494462	1814.18	264.039	1.0187	269.762	51.182	49.2116	990.683	997.134	420.046	8.64565	4.35895	81.6445	316.564	1.54437	25.1001	71.0016	441.202	102.7	75.7038	80.1	27.8003	40.21	372.71	12.5553	250.417	0.898522
12:54:38 PM	500	494463	1814.17	263.582	1.01872	269.685	51.1701	49.2195	990.674	997.134	424.397	8.62129	4.34826	81.4669	316.162	1.53002	25.1	71.0003	441.2	102.7	75.7007	80.1	27.8001	40.2833	369.266	12.5182	250.316	0.889655
12:54:39 PM	500	494464	1814.7	263.784	1.01873	269.571	51.1449	49.253	990.674	997.134	424.991	8.71179	4.35895	81.5357	315.204	1.50796	25.1	71.0001	441.181	102.7	75.7001	80.1	27.8	40.2969	365.856	12.5299	250.174	0.898522
12:54:40 PM	500	494465	1814.18	263.946	1.01873	269.436	51.1129	49.2366	990.671	997.134	425.831	8.56672	4.35131	81.5181	315.614	1.54208	25.1	71	441.115	102.7	75.7	80.1	27.7591	40.2994	362.33	12.5422	250.069	0.898522
12:54:41 PM	500	494466	1814.53	263.912	1.01874	269.301	51.0915	49.2366	990.664	997.134	425.436	8.6188	4.35743	81.4958	315.505	1.52901	25.1	71	441.103	102.7	75.5861	80.1	27.7109	40.2999	358.871	12.5035	249.972	0.889655
12:54:42 PM	500	494467	1814.11	263.559	1.01873	269.207	51.075	49.224	990.666	997.134	421.992	8.38257	4.35361	81.7132	316.014	1.53113	25.1	71	441.101	102.7	75.516	80.0254	27.702	40.3	355.315	12.5124	249.863	0.880788
12:54:43 PM	500	494468	1814.72	264.123	1.01872	269.141	51.0762	49.201	990.67	997.436	417.147	8.42267	4.35361	81.2266	314.566	1.55053	25.1	71	441.1	102.7	75.503	80.0047	27.7004	40.3	351.834	12.5539	249.824	0.880788
12:56:12 PM	500	494557	1608.99	274.498	1.01811	278.442	46.9646	49.2824	990.664	997.134	372.671	3.80269	4.0541	87.9336	284.316	1.55344	24.9	67.3	428.21	101.7	75.2	79.8001	27.8	40.2992	435.013	11.2463	243.731	0
12:56:13 PM	500	494558	1608.83	274.147	1.01811	278.504	46.9963	49.2865	990.672	997.134	370.532	3.80828	4.05792	87.4839	284.909	1.56821	24.9	67.3	428.202	101.7	75.1314	79.8271	27.8	40.2999	431.865	11.2471	243.615	0.008867
12:56:14 PM	500	494559	1609.11	274.251	1.0181	278.585	47.0249	49.2691	990.676	997.134	374.672	3.71192	4.05639	87.7075	284.603	1.57823	24.9	67.3	428.2	101.814	75.1058	79.8865	27.8	40.3	428.716	11.2862	243.549	0.0798
12:56:15 PM	500	494560	1609.16	274.819	1.0181	278.669	47.0445	49.284	990.678	997.134	371.69	3.81579	4.0518	87.8147	284.296	1.56779	24.9	67.3	428.2	101.884	75.1011	79.8975	27.8	40.1508	425.574	11.2902	243.568	0.008867
12:56:16 PM	500	494561	1609.96	275.29	1.0181	278.779	47.0752	49.2819	990.671	997.134	370.627	3.83712	4.05486	87.8872	284.032	1.55461	24.9	67.3	428.2	101.897	75.1002	79.8995	27.8	40.1094	422.368	11.2905	243.636	0.1064
12:56:17 PM	500	494562	1609.39	275.813	1.0181	278.93	47.1098	49.2864	990.673	997.134	374.107	3.77483	4.05639	87.7264	282.638	1.56664	24.9	67.2656	428.279	101.899	75.1	79.8999	27.8	40.1017	419.217	11.3061	243.744	0.1064
12:56:18 PM	500	494563	1611.83	275.932	1.0181	279.101	47.166	49.2794	990.675	997.134	374.249	3.85732	4.0518	87.6997	283.424	1.55979	24.9	67.2122	428.296	101.9	75.141	79.9	27.8	40.1003	416.036	11.3111	243.849	0.008867

12:56:19 PM	500	494564	1611.05	275.633	1.01811	279.282	47.2577	49.2859	990.67	997.134	370.969	3.72045	4.0541	87.2865	284.46	1.54354	24.9	67.2023	428.299	101.89	75.1891	79.8282	27.7229	40.1001	412.931	11.3167	243.826	0.387192
12:56:20 PM	500	494565	1610.18	275.538	1.01811	279.463	47.3183	49.2804	990.663	997.134	372.678	3.78816	4.06097	87.174	283.761	1.54165	24.9	67.2004	428.3	101.817	75.198	79.8052	27.7042	40.1	409.799	11.3056	243.71	0.065025
12:56:21 PM	500	494566	1609.48	275.47	1.01811	279.652	47.3449	49.2734	990.661	996.908	367.398	3.62738	4.04951	87.5489	283.604	1.5642	24.9	67.2001	428.3	101.803	75.1996	79.801	27.7008	40.1	406.608	11.2948	243.539	0.1064
12:56:22 PM	500	494567	1609.01	274.978	1.01812	279.816	47.3291	49.2848	990.665	997.134	374.609	3.66862	4.05562	87.8956	284.348	1.55193	24.9	67.2	428.3	101.801	75.1999	79.8002	27.7001	40.1	403.487	11.2913	243.347	0.08867
12:56:23 PM	500	494568	1609.07	274.122	1.01812	279.934	47.2774	49.2869	990.662	997.134	372.876	3.82248	4.05562	88.2508	284.831	1.56147	24.9	67.2794	428.3	101.8	75.2	79.8	27.7	40.1	400.347	11.2907	243.259	0.115271
12:56:24 PM	500	494569	1608.64	274.27	1.01812	279.994	47.2135	49.2873	990.66	997.436	368.178	3.63088	4.05486	87.8852	284.904	1.58007	24.9	67.2962	428.3	101.8	75.3588	79.8688	27.7	40.1	397.207	11.3019	243.272	0.08867
12:56:25 PM	500	494570	1609.39	273.938	1.01812	280	47.1494	49.2717	990.656	997.134	368.65	3.68622	4.05792	87.7656	284.409	1.55684	24.9	67.2993	428.4	101.656	75.3924	79.9757	27.7	40.1	394.02	11.3014	243.406	0.133005
12:56:26 PM	500	494571	1609.34	273.697	1.01812	279.98	47.0895	49.2845	990.657	997.134	370.38	3.80348	4.05792	88.1027	284.483	1.54588	24.9	67.2999	428.4	101.61	75.3986	79.9955	27.6349	40.1	390.877	11.2926	243.658	0.05025
12:56:27 PM	500	494572	1609.18	273.297	1.01816	279.949	47.0574	49.2869	990.652	997.134	364.462	3.65922	4.05715	88.1502	283.36	1.5556	25.0492	67.3	428.2	101.602	75.3997	79.9992	27.6065	40.1	387.701	11.2939	243.961	0.987192
12:56:28 PM	500	494573	1608.21	273.094	1.01875	279.895	47.0169	49.2873	990.649	997.134	366.848	3.67441	4.0625	88.3908	284.312	1.56463	25.0906	67.2478	427.8	101.6	75.3999	79.9998	27.6012	40.1	384.502	11.3059	244.267	0.464039
12:56:29 PM	500	494574	1608.85	273.28	1.01877	279.791	46.9749	49.2874	990.652	997.134	364.084	3.67197	4.06556	88.5482	285.252	1.56815	25.0983	67.2089	427.8	101.6	75.4569	80	27.6002	40.1	381.473	11.3032	244.565	0.464039
12:56:30 PM	500	494575	1607.3	273.514	1.01877	279.645	46.9306	49.2874	990.651	997.134	363.131	3.70715	4.05944	88.8706	284.789	1.58183	25.0997	67.2016	427.8	101.6	75.492	80.0794	27.6	40.1	378.309	11.2902	244.829	0.455172
12:56:31 PM	500	494576	1609.11	273.107	1.01878	279.469	46.9078	49.2791	990.647	997.134	370.542	3.66709	4.06403	88.7966	284.955	1.55555	25.0999	67.2003	427.8	101.6	75.4985	80.0962	27.6	40.1	375.184	11.2999	245.063	0.455172
12:56:32 PM	500	494577	1609.964	272.964	1.01853	279.282	46.8925	49.2859	990.649	997.134	367.945	3.79302	4.06326	88.3078	285.074	1.56984	25.0181	67.2001	427.8	101.6	75.4997	80.0993	27.6	40.1	372.01	11.2883	245.227	0.455172
12:56:33 PM	500	494578	1608.69	273.105	1.0182	279.069	46.8723	49.2871	990.654	997.134	367.153	3.65153	4.05562	88.5649	284.379	1.58379	24.9219	67.18	427.5	101.6	75.4999	80.0999	27.6	40.1	368.872	11.3158	245.32	0.455172
12:56:34 PM	500	494579	1608.98	272.924	1.01814	278.863	46.869	49.2873	990.652	997.134	372.17	3.62765	4.06174	88.3532	284.89	1.57233	24.9041	67.0334	427.4	101.6	75.481	80.1	27.6	40.1	365.674	11.3268	245.401	0.44335
12:56:35 PM	500	494580	1608.36	272.938	1.01813	278.667	46.8548	49.2711	990.646	997.134	367.998	3.63918	4.06479	87.8633	284.552	1.57101	24.9008	67.0062	427.4	101.6	75.415	80.0387	27.6	40.1	362.565	11.2973	245.481	0.44335
12:56:36 PM	500	494581	1609.8	273.452	1.01814	278.507	46.8404	49.2844	990.648	997.134	368.281	3.69255	4.05868	88.4751	286.196	1.56494	24.9001	67.0011	427.4	101.446	75.4028	80.0072	27.6	40.0	359.411	11.3153	245.596	0.44335
12:56:37 PM	500	494582	1609.44	274.029	1.01813	278.402	46.851	49.2694	990.646	997.134	367.009	3.79306	4.06708	88.1393	285.163	1.56227	24.9	67.0002	427.4	101.408	75.4005	80.0013	27.6	40.0	356.221	11.3186	245.751	0.455172
12:56:38 PM	500	494583	1609.72	273.793	1.01814	278.355	46.8766	49.2841	990.641	997.134	371.967	3.87351	4.06556	87.3203	283.946	1.56646	24.9	67	427.4	101.402	75.4001	80.0002	27.6	40.0	353.088	11.2958	245.806	0.44335
12:56:39 PM	500	494584	1609.77	273.928	1.01815	278.341	46.9225	49.2868	990.639	997.134	370.931	3.94799	4.05944	87.8155	285.078	1.56212	24.9	66.9283	427.4	101.4	75.4	80	27.6	40.0	349.875	11.3138	245.749	0.434483
12:56:40 PM	500	494585	1608.93	273.31	1.01815	278.34	46.9576	49.2873	990.636	997.134	370.342	3.842	4.05562	87.278	284.707	1.56223	24.9	66.9052	427.4	101.4	75.2565	80	27.6	40.0	346.816	11.3184	245.604	0.434483
12:56:41 PM	500	494586	1608.85	272.848	1.01815	278.336	46.9631	49.2874	990.636	997.134	371.714	3.75464	4.06708	87.9016	285.296	1.57388	24.9	66.901	427.4	101.4	75.2105	80	27.6	40	343.707	11.3031	245.413	0.434483
12:58:28 PM	500	494693	1411.01	272.529	1.01869	277.32	41.0042	49.2983	990.623	996.908	304.224	0.80732	3.64532	96.0999	258.794	1.5556	25.0629	62.5	414.5	99.6	75.2	80	27.4	39.6	523.704	9.93187	247.189	0.008867
12:58:29 PM	500	494694	1411.13	272.619	1.01879	277.356	41.0127	49.2894	990.619	996.908	311.749	0.59664	3.64914	96.5303	259.337	1.5603	25.0931	62.5	414.3	99.6	75.2	80	27.4	39.6	520.995	9.92983	246.943	0.008867
12:58:30 PM	500	494695	1410.88	272.719	1.01881	277.396	41.0231	49.2992	990.621	996.908	307.668	0.68789	3.64609	96.3089	259.275	1.55298	25.0987	62.5	414.3	99.6	75.1314	80	27.4	39.6	518.196	9.93881	246.736	0.336946
12:58:31 PM	500	494696	1411.24	272.46	1.01881	277.427	41.0298	49.2896	990.625	996.908	302.726	0.73157	3.65144	95.8958	258.733	1.55168	25.0998	62.5	414.3	99.6	75.1058	80	27.4	39.7	515.461	9.9325	246.61	0.133005

12:58:32 PM	500	494697	1411.02	272.609	1.01882	277.459	41.0357	49.3155	990.624	996.908	306.259	0.84214	3.64685	95.9768	259.578	1.56045	25.1	62.5	414.3	99.6	75.1011	80	27.4	39.7	512.66	9.93416	246.586	0.008867
12:58:33 PM	500	494698	1410.93	272.471	1.01847	277.484	41.0212	49.3199	990.625	996.908	304.341	0.69708	3.64456	95.862	259.187	1.55595	24.9861	62.5	414.3	99.6	75.1002	80	27.4	39.7	509.885	9.94376	246.588	0.047291
12:58:34 PM	500	494699	1410.86	272.429	1.01823	277.507	41.0073	49.3048	990.624	996.908	300.836	0.67066	3.65373	95.7731	259.187	1.55274	24.916	62.4656	414.141	99.6	75.1	80	27.4	39.7	507.073	9.94846	246.652	0
12:58:35 PM	500	494700	1410.73	272.323	1.01818	277.517	40.9971	49.2961	990.624	996.908	308.467	0.68571	3.64762	95.8403	259.573	1.56224	24.903	62.4122	414.108	99.6	75.1	80	27.4	39.7	504.34	9.95524	246.725	0.1064
12:58:36 PM	500	494701	1410.99	272.405	1.01818	277.511	40.9878	49.3053	990.624	996.908	307.911	0.70287	3.64991	96.1163	259.742	1.55931	24.9005	62.4023	414.101	99.6	75.1	80	27.4	39.7	501.588	9.97015	246.83	0.1064
12:58:37 PM	500	494702	1410.94	272.648	1.01817	277.507	40.9816	49.2907	990.625	996.908	301.662	0.77337	3.65144	96.2326	259.527	1.56158	24.9001	62.4004	414.1	99.6	75.1	80	27.3531	39.6063	498.809	9.9886	247.015	0.1064
12:58:38 PM	500	494703	1411.31	272.876	1.01827	277.515	40.9857	49.2963	990.624	996.908	309.3	0.70475	3.65296	96.0277	259.635	1.55265	24.938	62.4001	414.1	99.6	75.1	80	27.3288	39.5197	496.078	9.98653	247.251	0.1064
12:58:39 PM	500	494704	1411.19	273.234	1.01872	277.55	41.0201	49.3087	990.626	996.908	302.753	0.72965	3.64991	95.9309	259.402	1.55211	25.07	62.4	413.996	99.6	75.1	80	27.3868	39.5037	493.253	9.96886	247.499	0.1064
12:58:40 PM	500	494705	1411.1	272.944	1.0188	277.606	41.0476	49.3145	990.626	996.908	308.251	0.76865	3.65373	95.7654	258.94	1.5619	25.0944	62.4	413.918	99.6	75.1	80	27.3204	39.5007	490.551	9.96785	247.658	0.017734
12:58:41 PM	500	494706	1410.96	272.736	1.0188	277.656	41.0747	49.2924	990.63	996.908	306.603	0.76604	3.65067	96.0713	259.11	1.54363	25.099	62.4	413.903	99.6	75.1	79.9656	27.3038	39.5001	487.774	9.94705	247.682	0.1064
12:58:42 PM	500	494707	1411.05	272.69	1.01881	277.684	41.0881	49.2938	990.628	996.908	301.157	0.65027	3.65526	95.4573	258.128	1.53756	25.0998	62.4	413.901	99.7372	75.1	79.9122	27.3007	39.5	485.043	9.9661	247.531	0.05025
12:58:43 PM	500	494708	1410.73	272.203	1.01881	277.691	41.076	49.2886	990.626	996.908	301.416	0.67756	3.65755	95.304	258.998	1.54698	25.1	62.4	413.9	99.7884	75.1	79.9023	27.3001	39.5	482.264	9.93498	247.328	0.66798
12:58:44 PM	500	494709	1411.15	272.525	1.01881	277.682	41.0549	49.2876	990.624	996.908	304.59	0.83821	3.65831	95.2179	258.774	1.55805	25.1	62.4	413.862	99.7978	75.1	79.9004	27.3	39.5	479.453	9.94066	247.108	0.647291
12:58:45 PM	500	494710	1412.8	273.1	1.01882	277.676	41.0448	49.3175	990.624	996.908	310.136	0.80253	3.63998	96.0587	258.194	1.55063	25.1	62.2957	413.73	99.7996	75.1	79.9001	27.3	39.5	476.751	9.94201	246.969	0.629557
12:58:46 PM	500	494711	1411.18	272.649	1.01881	277.691	41.042	49.297	990.625	996.908	309.323	0.61817	3.65908	95.8878	258.587	1.5511	25.1	62.2177	413.706	99.7999	75.1	79.9	27.3771	39.5	473.963	9.93114	246.893	0.617734
12:58:47 PM	500	494712	1410.57	272.481	1.01881	277.722	41.0496	49.2892	990.624	996.908	312.409	0.68744	3.65449	95.4597	259.368	1.54522	25.1	62.2033	413.701	99.7312	75.1	79.9	27.3958	39.5	471.168	9.92333	246.809	0.617734
12:58:48 PM	500	494713	1410.64	272.282	1.01881	277.754	41.0474	49.296	990.624	996.908	306.225	0.77801	3.65908	95.6159	259.301	1.54918	25.1	62.2006	413.7	99.6243	75.1	79.9	27.3992	39.745	468.439	9.92118	246.714	0.617734
12:58:49 PM	500	494714	1410.81	272.501	1.01893	277.781	41.0377	49.289	990.625	996.908	303.205	1.04374	3.65602	95.5542	258.403	1.54462	25.141	62.2001	413.7	99.6045	75.1	79.9	27.3999	39.8713	465.606	9.94148	246.604	0.608867
12:58:50 PM	500	494715	1411.03	272.626	1.0191	277.805	41.0323	49.2938	990.622	996.908	306.146	0.8948	3.66061	95.7111	259.008	1.5427	25.1891	62.2	413.628	99.6008	75.1	79.9	27.4	39.8947	462.877	9.94334	246.556	0.6
12:58:51 PM	500	494716	1410.95	272.544	1.01913	277.821	41.0285	49.2886	990.62	996.908	306.349	0.90088	3.66061	95.6387	257.775	1.54611	25.198	62.2	413.605	99.6002	75.1	79.9	27.4	39.899	460.132	9.96129	246.59	0.608867
12:58:52 PM	500	494717	1414.58	272.667	1.01914	277.808	41.0382	49.2876	990.618	996.908	303.879	0.66398	3.65984	95.5527	258.113	1.54947	25.1996	62.2	413.601	99.6	75.1	79.9	27.4	39.8998	457.386	9.93842	246.706	0.6
12:58:53 PM	500	494718	1411.44	271.933	1.01914	277.779	41.0482	49.2874	990.619	996.908	305.402	0.58719	3.6629	95.7951	257.941	1.55039	25.1999	62.2	413.6	99.6	75.1	79.9	27.4	39.9271	454.657	9.93806	246.833	0.6
12:58:54 PM	500	494719	1410.93	272.021	1.01914	277.734	41.0434	49.2874	990.616	996.908	309.42	0.57431	3.65831	95.9783	258.854	1.54916	25.2	62.2	413.6	99.6	75.1	79.9	27.4	39.9865	451.837	9.94564	246.918	0.588177
12:58:55 PM	500	494720	1409.48	271.99	1.01889	277.683	41.0105	49.2874	990.614	997.134	300.226	0.88863	3.65526	95.6198	258.62	1.54602	25.1206	62.2	413.395	99.6	75.1	79.9	27.4	39.9975	449.142	9.94881	246.972	0.6

12:58:56 PM	500	494721	1410.86	271.889	1.01884	277.632	40.9752	49.2874	990.614	997.134	306.5	0.85698	3.66825	96.3325	258.823	1.55525	25.1038	62.1349	413.155	99.6	75.1	79.9	27.4	39.995	446.374	9.93297	247.013	0.588177
12:58:57 PM	500	494722	1409.32	272.127	1.01882	277.591	40.9445	49.2874	990.614	996.908	309.157	-0.89	3.65908	96.112	258.814	1.54958	25.1007	62.1065	413.11	99.6	75.1	79.9	27.4	39.999	443.636	9.92635	247.101	0.588177
01:00:17 AM	500	494802	1217.02	258.413	1.01817	262.098	33.4209	49.2791	990.619	996.908	244.688	1.3254	3.14181	100.74	236.162	1.59411	24.9	58.5003	399	98.1105	74.7	79.7	27.0034	39.7	253.436	8.07952	246.356	0.026601
01:00:18 AM	500	494803	1215.16	259.622	1.01817	262.099	33.4665	49.2859	990.619	996.908	238.212	1.35667	3.09826	100.826	233.767	1.59116	24.9	58.5	398.892	98.1019	74.7	79.7	27.0006	39.7	251.154	8.07778	245.999	0.026601
01:00:19 AM	500	494804	1216.9	261.439	1.01817	262.161	33.4993	49.2871	990.619	996.908	238.781	1.31449	3.03561	101.34	232.656	1.57629	24.9	58.4431	398.654	98.1004	74.7	79.7	27.0001	39.7	248.917	8.08065	245.805	0.1064
01:00:20 AM	500	494805	1221.63	256.474	1.01817	262.292	33.5406	49.2873	990.619	996.908	240.583	1.40162	3.14869	100.447	234.049	1.56924	24.9	58.408	398.61	98.1001	74.7613	79.7	27	39.7	246.663	8.0774	245.666	0.008867
01:00:21 AM	500	494806	1210.87	258.613	1.01817	262.432	33.5551	49.2874	990.619	996.908	233.246	1.02077	3.06846	101.255	232.375	1.58801	24.9	58.4015	398.602	98.0181	74.7928	79.7	27	39.7	244.378	8.07842	245.49	0
01:00:22 AM	500	494807	1213.28	254.835	1.01818	262.538	33.5153	49.2874	990.616	996.908	238.814	1.1623	3.12653	100.776	234.784	1.58109	24.9	58.4003	398.6	97.9219	74.7987	79.7	27	39.7	242.204	8.05832	245.342	0.05025
01:00:23 AM	500	494808	1214.91	256.845	1.01818	262.586	33.4589	49.2874	990.614	996.908	240.171	1.24612	3.09367	100.287	233.371	1.57785	24.9	58.4001	398.6	97.9041	74.7998	79.7	27	39.7	239.949	8.05421	245.287	0.01182
01:00:24 AM	500	494809	1227.83	257.808	1.01818	262.595	33.3945	49.2874	990.614	996.908	237.252	1.33253	3.08068	100.573	232.479	1.58304	24.9	58.362	398.137	97.9007	74.8	79.7	27	39.7	237.74	8.07701	245.416	0.1064
01:00:25 AM	500	494810	1214.59	258.538	1.01818	262.618	33.3946	49.2874	990.613	996.908	237.763	1.01503	3.06311	100.943	231.221	1.58865	24.9	58.23	398.025	97.9001	74.8813	79.7	27	39.7	235.484	8.05774	245.614	0.1064
01:00:26 AM	500	494811	1218.02	256.379	1.01819	262.65	33.3859	49.2874	990.609	996.908	241.189	0.925025	3.10208	100.431	233.165	1.59617	24.9	58.2056	398.005	97.9	75.0595	79.8303	27	39.7	233.216	8.03699	245.759	0.038424
01:00:27 AM	500	494812	1211.94	259.008	1.01818	262.637	33.3711	49.27	990.609	996.908	239.401	0.85775	3.0379	100.651	230.969	1.59264	24.9	58.201	398.001	98.0588	75.0925	79.8871	27	39.7	230.89	8.07034	245.832	0.1064
01:00:28 AM	500	494813	1214.52	257.008	1.01818	262.617	33.331	49.2842	990.609	996.908	236.557	1.09702	3.10131	100.606	232.006	1.60163	24.9	58.2002	398	98.0924	75.0986	79.8976	27	39.7	228.608	8.09668	245.875	0.1064
01:00:29 AM	500	494814	1214.44	256.572	1.01818	262.574	33.3004	49.2868	990.609	996.908	236.905	1.01237	3.11889	100.513	232.854	1.59813	24.9	58.2	397.658	98.0986	75.0997	79.8996	27	39.7	226.437	8.08698	246.043	0.1064
01:00:30 AM	500	494815	1215.23	257.621	1.01819	262.488	33.2757	49.2873	990.609	996.908	235.734	1.07584	3.0952	100.997	232.189	1.60271	24.9	58.1254	397.448	98.0997	75.1	79.8999	27	39.7	224.216	8.08308	246.378	0.1064
01:00:31 AM	500	494816	1212.42	259.059	1.01818	262.385	33.2745	49.2874	990.612	996.681	237.781	1.10019	3.07304	101.085	231.928	1.59088	24.9	58.1047	397.409	98.1	75.0229	79.919	26.981	39.7	222.001	8.04772	246.801	0.05025
01:00:32 AM	500	494817	1205.69	256.314	1.01818	262.336	33.2747	49.2874	990.613	996.908	234.664	0.801134	3.17619	100.421	232.56212	1.59212	24.9	58.1009	397.402	97.9697	75.0042	79.985	26.915	39.7	219.803	8.05347	247.026	0.455172
01:00:33 AM	500	494818	1208.95	258.505	1.01818	262.279	33.3051	49.2874	990.613	996.908	238.151	1.01649	3.07916	100.686	232.381	1.60663	24.9	58.1002	397.4	97.9129	75.008	79.9972	26.9822	39.5	217.553	8.05925	247.052	0.647291
01:00:34 AM	500	494819	1212.1	257.836	1.01819	262.185	33.3383	49.3048	990.611	996.908	235.923	1.26976	3.10208	100.892	233.157	1.5982	24.9	58.1	397.4	97.9024	75.0001	79.9995	26.9967	39.5	215.305	8.0559	246.81	0.638424
01:00:35 AM	500	494820	1208.08	260.967	1.01818	262.14	33.3474	49.2906	990.611	996.908	239.718	1.07123	3.01803	101.602	230.913	1.60406	24.9	57.9957	397.156	97.9004	75	79.9999	26.9994	39.5	213.068	8.05824	246.437	0.629557
01:00:36 AM	500	494821	1216.31	254.939	1.01818	262.222	33.3698	49.288	990.611	996.908	238.047	1.15344	3.14028	100.605	233.198	1.59707	24.9	57.9177	397.11	97.9001	75.057	80	26.9999	39.5	210.871	8.04371	246.185	0.629557
01:00:37 AM	500	494822	1212.87	255.981	1.01818	262.315	33.3661	49.2875	990.611	996.908	240.228	1.06677	3.1441	100.321	233.709	1.60104	24.9	57.9033	397.102	97.89	75.092	80	27	39.5	208.655	8.0052	245.942	0.617734
01:00:38 AM	500	494823	1224.62	256.182	1.01818	262.28	33.3441	49.2874	990.611	996.908	240.626	1.30529	3.13264	100.355	233.114	1.58915	24.9	57.9006	397.1	97.817	75.0985	80	27	39.6225	206.44	7.97556	245.754	0.629557
01:00:39 AM	500	494824	1217.12	258.521	1.01818	262.237	33.3631	49.2874	990.611	996.908	237.344	1.06187	3.07916	100.807	231.948	1.59444	24.9	57.9001	397.1	97.8031	75.0997	80	27	856	204.235	7.96258	245.415	0.629557
01:00:40 AM	500	494825	1211.69	256.728	1.01818	262.22	33.3142	49.2874	990.613	996.908	239.329	1.23611	3.13188	100.433	233.418	1.59804	24.9	57.9	396.855	97.8006	75.1	80	26.9387	39.6	201.957	7.96903	244.963	0.629557

01:00:41 AM	500	494826	1211.82	258.069	1.01818	262.215	33.279	49.2874	99.0613	996.908	234.608	1.05924	3.11736	100.433	232.027	1.59093	24.9	57.9	396.729	97.8001	75.07	80	26.954	39.6995	199.743	7.9925	244.513	0.629557
01:00:42 AM	500	494827	1207.97	257.756	1.01818	262.252	33.2804	49.2874	99.0613	996.908	241.465	0.947275	3.10284	100.441	232.309	1.58303	24.9	57.9	396.705	97.8001	74.85	79.9531	26.9725	39.6999	197.535	7.99692	244.136	0.617734
01:00:43 AM	500	494828	1211.97	256.412	1.01818	262.338	33.2866	49.2874	99.0613	996.908	231.433	1.067106	3.11048	100.375	231.781	1.59114	24.9	57.9	396.701	97.6628	74.80	79.9099	26.9134	39.662	195.2	7.99407	244.033	0.617734
01:00:44 AM	500	494829	1219.9	258.382	1.01818	262.348	33.3437	49.2874	99.0611	996.908	233.618	1.10101	3.10131	99.9231	233.038	1.58104	24.9	57.9	396.7	97.6116	74.8017	79.9018	26.9025	39.53	193.088	8.00126	244.053	0.617734
01:00:45 AM	500	494830	1214.76	254.622	1.01818	262.283	33.3561	49.2874	99.0611	996.681	224.964	1.19318	3.18842	99.1484	233.7	1.58041	24.9	57.9	396.592	97.6022	74.8003	79.9003	26.9722	39.5056	190.859	7.98302	244.078	0.617734
01:00:46 AM	500	494831	1211.82	257.18	1.01818	262.211	33.3711	49.2733	99.0611	996.908	235.461	1.24168	3.12729	100.068	233.416	1.60164	24.9	57.843	396.354	97.6000	74.8001	79.9001	26.9379	39.501	188.637	7.96807	244.05	0.629557
01:01:49 AM	500	494894	1022.72	231.515	1.01819	238.124	25.3855	49.2958	99.0607	996.681	150.298	0.992839	2.60773	101.969	209.473	1.65571	24.9	54.3001	375	96.3	74.9993	79.9	26.9705	39.4705	509.815	6.55284	262.455	0
01:01:50 AM	500	494895	1020.33	230.272	1.01819	237.961	25.3959	49.2889	99.0607	996.681	148.899	0.713206	2.66198	101.832	211.353	1.63968	24.9	54.3	374.487	96.399	74.9999	79.9	26.926.9	39.4945	508.051	6.50072	262.431	0.008867
01:01:51 AM	500	494896	1030.09	235.862	1.01819	237.867	25.4185	49.2877	99.0607	996.681	154.09	0.687134	2.54508	102.199	209.193	1.63476	24.9	54.0763	374.172	96.3	75	79.9	26.9	39.499	506.2	6.49412	262.294	0.02956
01:01:52 AM	500	494897	1021.94	231.411	1.01819	237.862	25.414	49.2874	99.0607	996.681	148.317	0.887545	2.568	101.687	207.749	1.65436	24.9	54.0141	374.113	96.346	75.07	80.0229	26.9	39.4998	504.513	6.46476	262.061	0.094581
01:01:53 AM	500	494898	1019.61	229.225	1.01819	237.81	25.433	49.2966	99.0607	996.681	142.086	0.729343	2.62607	101.618	210.152	1.62373	24.9	54.0026	374.102	96.1775	75.0953	80.1672	26.9	39.5	502.69	6.46679	261.464	0.008867
01:01:54 AM	500	494899	1025.31	228.923	1.0182	237.627	25.4098	49.3006	99.0605	996.681	153.929	0.489368	2.67573	100.871	212.65	1.62387	24.9	54.0005	374.1	96.1144	75.0991	80.1939	26.9	39.5	500.863	6.47299	260.648	0.1064
01:01:55 AM	500	494900	1020.17	236.565	1.01819	237.413	25.3531	49.2943	99.0605	996.908	154.092	0.567552	2.56647	101.731	209.515	1.64885	24.9	54.0001	373.986	96.1027	75.0998	80.1989	26.9	39.5	499.022	6.49878	260.1	0
01:01:56 AM	500	494901	1027.27	235.613	1.01819	237.403	25.3257	49.2887	99.0605	996.681	152.341	0.803366	2.5405	101.764	207.807	1.66542	24.9	53.8957	373.59	96.1005	75.1	80.1998	26.9	39.5	497.208	6.50288	259.872	0.1064
01:01:57 AM	500	494902	1022.03	227.927	1.0182	237.548	25.3693	49.3164	99.0605	996.681	137.205	0.963265	2.60468	101.783	208.112	1.62705	24.9	53.8177	373.517	96.1001	75.1	80.2	26.9	39.5	495.461	6.46778	260.032	0.02956
01:01:58 AM	500	494903	1019.98	228.621	1.0182	237.617	25.3961	49.3108	99.0605	996.681	141.515	0.920746	2.59627	101.582	209.346	1.63215	24.9	53.8033	373.503	96.1	75.1	80.2	26.9	39.5	493.775	6.42193	260.169	0.1064
01:01:59 AM	500	494904	1021.7	235.317	1.01819	237.406	25.3618	49.2991	99.0608	996.908	149.754	0.937858	2.46634	102.388	206.435	1.66487	24.9	53.8006	373.501	96.1	75.1	80.2	26.9	39.5	492.023	6.40594	260.107	0.153695
01:02:00 AM	500	494905	1003.84	230.159	1.01845	237.186	25.2102	49.3401	99.0608	996.681	140.351	1.16746	2.46558	102.272	204.85	1.63944	24.9819	53.8001	373.5	96.1	75.1	80.2	26.9	39.5	490.249	6.41184	259.902	0.144828
01:02:01 AM	500	494906	1020.02	229.025	1.01878	236.96	25.0617	49.3496	99.0608	996.681	143.466	0.770341	2.54584	102.042	208.934	1.65613	25.0781	53.79	372.132	96.1	75.1	80.2	26.9	39.5	488.509	6.40802	259.896	0.162562
01:02:02 AM	500	494907	1022.65	228.965	1.01883	236.725	25.0041	49.3215	99.0608	996.681	146.482	1.08357	2.57182	101.551	206.96	1.64248	25.0959	53.7167	371.536	96.1	75.1	80.2	26.9	39.5	486.777	6.37491	260.165	0.02069
01:02:03 AM	500	494908	1012.15	231.997	1.01884	236.396	24.9561	49.3242	99.0608	996.681	145.52	1.0894	2.50993	101.797	206.404	1.65756	25.0992	53.7031	371.425	96.1	75.1	80.1063	26.9	39.5	485.025	6.36062	260.572	0.04138
01:02:04 AM	500	494909	1014.26	229.974	1.01884	236.184	24.9852	49.3065	99.0608	996.908	140.013	1.12228	2.53056	101.533	207.15	1.65519	25.0999	53.7006	371.405	95.8686	75.1	80.0197	26.9	39.481	483.258	6.34525	260.794	0.15606
01:02:05 AM	500	494910	1017.9	228.407	1.01884	235.952	25.026	49.3154	99.0608	996.681	137.287	1.29833	2.48776	101.789	206.463	1.59558	25.1	53.7001	371.401	95.8127	75.1	80.0036	26.9	39.415	481.579	6.30816	260.44	1.42167
01:02:06 AM	500	494911	1020.34	227.109	1.01885	235.667	25.0091	49.3233	99.0608	996.908	138.72	1.01789	2.55807	101.642	209.386	1.61224	25.1	53.7	370.884	95.8024	75.1	80.0007	26.9	39.4028	479.833	6.24976	259.74	1.37438
01:02:07 AM	500	494912	1011.57	233.647	1.01884	235.37	24.9607	49.3086	99.0608	996.681	140.417	1.00667	2.51452	102.103	207.489	1.62818	25.1	53.5162	370.082	95.8004	75.1	80.0001	26.9	39.4005	477.975	6.25656	258.751	1.35369
01:02:08 AM	500	494913	1015.34	231.923	1.01885	235.067	24.8678	49.3255	99.0608	996.681	140.663	1.16375	2.56112	101.539	207.863	1.61883	25.1	53.4215	369.934	95.8001	74.9046	80	26.8185	39.4001	476.247	6.29894	257.926	1.35369
01:02:09 AM	500	494914	1011.02	235.304	1.01885	234.849	24.8476	49.3258	99.0608	996.681	140.682	1.55044	2.40055	102.861	203.367	1.64081	25.1	53.404	369.906	95.6957	74.8194	80	26.878	39.4	474.52	6.26568	257.455	1.35369

01:02:10 AM	500	494915	1036	231. 441	1.01885	234.667	25.011 9	49.3 32	990. 608	996.908	140.125	1.200 13	2.357 71	103.3 33	204.73 2	1.66 301	25.1	53.4007	369.9 01	95.617 7	74.80 36	80	26.8 308	39.4	472.7 6	6.259 51	257. 029	1.35 369
01:02:11 AM	500	494916	1031 .17	220. 746	1.01849	234.511	25.093 7	49.3 301	990. 608	996.681	139.011	1.054 34	2.603 15	101.3 85	209.29	1.61 849	24.9861	53.4001	369.9	95.603 3	74.80 07	80	26.8 057	39.4	471.1 28	6.258 37	256. 397	1.34 483
01:02:12 AM	500	494917	1006 .08	227. 807	1.01825	234.157	25.028 2	49.3 036	990. 608	996.681	139.856	1.147 08	2.507 64	102.1 49	206.24 9	1.60 226	24.916	53.362	368.9 3	95.600 6	74.80 01	80	26.8 011	39.4	469.4 46	6.242 03	255. 614	1.34 483
01:02:13 AM	500	494918	1021 .98	226. 588	1.01822	233.71	24.900 8	49.3 334	990. 608	996.908	142.653	1.057 99	2.555 01	102.0 37	206.67 2	1.60 301	24.903	53.23	368.6 61	95.600 1	74.8	80	26.8 002	39.4	467.6 65	6.253 03	255. 131	1.36 552
01:02:14 AM	500	494919	1021 .25	226. 045	1.01821	233.385	24.704 2	49.3 269	990. 608	996.681	146.098	0.822 665	2.650 52	100.7 84	209.15 9	1.60 363	24.9005	53.2056	368.6 11	95.6	74.8	79.934 9	26.8	39.4	465.9 52	6.224 91	255. 349	1.35 369
01:02:15 AM	500	494920	1026 .73	230. 521	1.01821	233.207	24.676 5	49.3 295	990. 608	996.681	144.104	0.737 16	2.618 43	101.0 74	209.17 2	1.62 566	24.9001	53.201	368.6 02	95.282 4	74.8	79.906 5	26.8	39.4	464.1 65	6.231 56	256. 065	1.35 369
01:02:16 AM	500	494921	1010 .08	238. 208	1.01831	233.149	24.836 1	49.3 363	990. 608	996.908	150.756	0.774 142	2.483 94	101.7 87	206.60 2	1.65 243	24.938	53.2002	368.6	95.215 3	74.8	79.901 2	26.8 613	39.4	462.4 27	6.285 04	256. 588	1.35 369
01:02:17 AM	500	494922	1020 .48	231. 912	1.01875	233.252	24.966 3	49.3 335	990. 608	996.681	154.364	0.724 559	2.577 93	101.3 48	208.35 7	1.62 553	25.07	53.2	368.7 04	95.202 8	74.8	79.900 2	26.8 928	39.4	460.6 63	6.243 17	256. 596	0.05 025
01:02:18 AM	500	494923	1025 .1	230. 492	1.01883	233.418	25.091 4	49.3 388	990. 609	996.908	142.31	0.776 425	2.636	100.5 42	208.56 6	1.63 817	25.0944	53.2	368.7 82	95.200 5	74.8	79.9	26.8 987	39.4	458.8 46	6.220 1	255. 848	0.14 4828

APPENDIX Q: RAW DATA – BF50 BLEND AT 20°BTDC

Manual Log Description : Power Curve on 50% base diesel & 50%
 biofuel running 20° timing
 Manual Log Start Date :
 2012/03/08
 Manual Log Start Time :
 10:44:58 AM

TIME	mSec	Eng_Tim_e	Speed	Torque	~ECE_Corr_Factor	~Torque_Corr	~Power_Corr	Humi_dity	~P_Bar_o	P_Pre_Co_mpressor	P_Post_Co_mpressor	P_Ex_haust	P_Oil_Filter	P_Co_l_In	P_Coo_l_Out	P_Fuel	T_Air_In_Snorkel	T_Post_Co_mpressor	T_Ex_haust	T_Oil_Sump	T_Co_l_In	T_Cool_Out	T_Fuel	T_C_ell	Fuel_Mass	Fuel_Flow	~SF_C	Smo_ke
10:45:00 AM	718	539459	2607	252.812	1.01269	257.056	70.1889	44.6802	994.538	994.945	808.842	7.39674	5.07335	106.371	520.52	1.43373	25.2911	97.42	458.328	103.299	77.071	82.062	26.49	31.8989	540.506	16.7125	242.186	0.1064
10:45:01 AM	703	539462	2607	253.547	1.01272	256.979	70.0998	44.695	994.534	994.718	811.007	7.39712	5.07335	104.471	519.289	1.41457	25.2984	97.5666	458.305	103.515	76.117	81.0339	26.4167	31.8998	529.889	16.6584	241.891	0.133005
10:45:02 AM	703	539463	2606	253.217	1.01272	256.83	70.0286	44.682	994.535	994.718	805.563	7.26289	5.07717	104.841	517.35	1.41159	25.2997	97.5938	458.301	103.584	75.9402	80.8433	26.4031	31.9	524.152	16.5877	241.624	0.1064
10:45:03 AM	703	539464	2607	253.376	1.0125	256.67	69.9812	44.6796	994.538	994.718	814.605	7.40754	5.07029	103.813	522.91	1.43713	25.2282	97.5989	458.246	103.597	75.9074	80.808	26.4006	31.9	519.225	16.5953	241.407	0.1064
10:45:04 AM	703	539465	2607	254.567	1.01243	256.555	69.9879	44.6784	994.537	994.718	816.306	7.26175	5.07411	104.779	521.568	1.42905	25.2052	97.4773	458.127	103.599	75.9014	80.8015	26.4001	31.9	514.56	16.6047	241.175	0.144828
10:45:05 AM	703	539466	2607	253.614	1.01241	256.526	70.0393	44.6771	994.539	994.718	814.566	7.06924	5.07946	104.527	521.48	1.44327	25.201	97.4143	458.105	103.6	76.6818	80.8003	26.3206	31.9	509.906	16.6178	240.802	0.1064
10:45:06 AM	703	539467	2607	253.628	1.0124	256.57	70.1024	44.6787	994.543	994.718	811.863	7.14934	5.08175	105.289	523.814	1.44929	25.2002	97.4027	458.101	103.694	77.0225	81.3559	26.3038	31.9	505.272	16.6403	240.386	0.115271
10:45:07 AM	703	539468	2607	254.435	1.0124	256.686	70.148	44.679	994.542	994.718	814.806	7.38196	5.07793	105.926	525.563	1.44717	25.2	97.4005	458.1	103.78	77.0856	81.4733	26.3007	31.9	500.621	16.6431	240.087	0.1064
10:45:08 AM	703	539469	2607	255.238	1.01241	256.858	70.1961	44.6791	994.533	994.718	809.241	7.47039	5.07717	106.08	523.54	1.43143	25.2	97.4001	458.1	103.796	77.0973	81.4951	26.3001	31.9	496.046	16.6231	239.924	0.008867
10:45:09 AM	703	539470	2606	254.314	1.01242	257.075	70.2594	44.6791	994.531	994.718	805.874	7.2476	5.08099	106.703	521.111	1.45117	25.2	97.438	458.324	103.799	77.0995	81.4991	26.29	31.9	491.427	16.6027	239.836	0.1064
10:45:10 AM	703	539471	2606	253.142	1.01242	257.275	70.3051	44.6791	994.529	994.718	805.873	7.15594	5.07641	106.459	520.831	1.42472	25.2	97.57	458.386	103.8	77.3279	81.4998	26.2167	31.9	486.782	16.6046	239.738	0.1064
10:45:11 AM	703	539472	2607	253.341	1.01242	257.318	70.3037	44.6791	994.528	994.945	812.507	7.31153	5.07182	106.546	520.691	1.4371	25.2	97.5944	458.397	103.8	78.1199	82.1125	26.2031	31.9	482.191	16.6328	239.572	0.017734
10:45:12 AM	703	539473	2607	253.946	1.01242	257.246	70.2443	44.6791	994.529	994.945	808.556	7.41694	5.08023	107.231	524.127	1.42859	25.2	97.599	458.4	103.87	78.2666	82.4282	26.2006	31.9	477.673	16.67	239.456	0.1064
10:45:13 AM	703	539474	2607	253.666	1.01243	257.184	70.1598	44.6791	994.524	994.945	805.473	7.26594	5.07259	106.573	520.338	1.44533	25.2	97.5998	458.4	103.896	78.2938	82.4867	26.2001	31.9	473.045	16.6483	239.501	0.1064
10:45:14 AM	703	539475	2607	253.893	1.01242	257.149	70.1086	44.6791	994.525	994.718	807.097	7.44889	5.06877	106.769	525.089	1.44318	25.2	97.6	458.4	103.899	78.2989	82.4975	26.2	31.9	468.454	16.5961	239.718	0.124138
10:45:15 AM	703	539476	2606	253.571	1.01243	257.032	70.1068	44.6791	994.523	994.945	812.456	7.23309	5.07641	106.524	523.522	1.43464	25.2	97.6	458.4	103.9	78.2998	82.4995	26.2	31.9	463.904	16.5909	239.967	0.1064
10:45:16 AM	703	539477	2606	252.946	1.01243	256.856	70.1188	44.6791	994.518	994.945	813.795	7.4428	5.07717	106.77	522.567	1.43312	25.2	97.6	458.4	103.9	77.8525	82.4239	26.2	31.9	459.264	16.5665	240.101	0.1064
10:45:17 AM	703	539478	2607	253.022	1.01243	256.715	70.0975	44.6883	994.518	994.945	810.283	7.3718	5.08099	105.65	523.47	1.4478	25.2	97.6	458.4	104.023	77.7283	82.16	26.1282	31.9	454.715	16.562	240.009	0.183251
10:45:18 AM	703	539479	2606	252.992	1.01242	256.645	70.039	44.6651	994.52	994.718	809.259	7.33634	5.07182	105.526	526.44	1.44336	25.2	97.6	458.4	104.086	77.7052	82.111	26.1052	31.9	450.99	16.5611	239.811	0.1064

10:45:19 AM	703	539480	2606.56	252.728	1.01243	256.567	69.9829	44.6624	994.517	994.945	811.513	7.34495	5.0573	104.964	523.313	1.44167	25.2	97.6	458.4	104.097	77.701	82.1021	26.101	31.9	445.566	16.5986	239.661	0.1064
10:45:20 AM	703	539481	2605.96	251.846	1.01244	256.418	69.9252	44.676	994.512	994.945	806.877	7.18648	5.07259	105.172	522.336	1.44608	25.2	97.6	458.074	104.1	77.7002	82.1004	26.1002	31.9	440.929	16.5714	239.65	0.1064
10:45:21 AM	703	539482	2606.99	251.619	1.01244	256.163	69.8494	44.6719	994.513	994.718	802.359	7.05824	5.06112	103.953	525.15	1.45937	25.2	97.6	458.014	104.1	76.4349	82.1001	26.1	31.9	436.336	16.5629	239.796	0.056158
10:45:22 AM	703	539483	2606.99	252.637	1.01244	255.866	69.7663	44.6686	994.516	994.718	804.429	7.28602	5.06265	104.271	524.29	1.43935	25.2	97.6	458.003	104.1	75.2659	81.1394	26.1	31.9	431.792	16.5415	240.025	0.076847
10:45:23 AM	703	539484	2606.83	252.768	1.01243	255.646	69.7049	44.6753	994.516	994.945	801.376	7.36855	5.06265	105.098	523.999	1.4519	25.2	97.6	458	104.1	75.0493	80.7814	26.0282	31.9	427.118	16.5545	240.243	0.1064
10:45:24 AM	703	539485	2606.71	252.25	1.01243	255.56	69.6943	44.661	994.517	994.945	803.888	7.3056	5.07564	103.817	523.931	1.45849	25.2	97.6	458	104.1	75.0091	80.7151	26.0622	31.9	422.539	16.5907	240.411	0.1064
10:45:25 AM	703	539486	2607.39	252.501	1.01243	255.49	69.7275	44.6739	994.516	994.945	804.708	7.16112	5.07411	103.704	522.122	1.45471	25.2	97.6	457.816	104.1	75.0017	80.7028	26.093	31.9	417.942	16.6031	240.514	0.017734
10:45:26 AM	703	539487	2607.07	251.964	1.01243	255.414	69.7658	44.6733	994.516	994.718	800.74	7.05989	5.07335	104.738	523.227	1.45538	25.2	97.6	457.722	104.1	75.0003	80.7005	26.0987	31.9	413.383	16.5907	240.557	0.1064
10:45:27 AM	703	539488	2607.1	252.239	1.01243	255.382	69.7727	44.6701	994.516	994.718	803.297	7.29373	5.06342	103.605	520.176	1.45148	25.2	97.6	457.704	104.1	75.6518	80.5772	26.0998	31.9	408.909	16.5728	240.592	0.1064
10:45:28 AM	703	539489	2606.4	251.73	1.01243	255.426	69.7421	44.6556	994.513	994.945	799.491	7.31889	5.07106	103.713	520.63	1.45329	25.2	97.6	457.701	104.16	75.7725	80.4328	26.1	31.9	404.275	16.5631	240.655	0.1064
10:45:29 AM	703	539490	2607.13	252.097	1.01244	255.437	69.7021	44.6747	994.511	994.718	809.571	7.1973	5.07564	103.082	519.501	1.44457	25.2	97.6	457.7	104.194	75.7949	80.4061	26.1	31.9	399.692	16.5613	240.715	0.144828
10:46:28 AM	703	539549	2403.76	266.102	1.01212	268.128	67.5297	44.6326	994.508	994.945	714.317	5.8181	4.9427	114.065	475.571	1.43118	25.1	92.4004	454.8	105.78	75.9	80.4038	26.2113	32.3	445.461	15.4721	231.284	0.1064
10:46:29 AM	703	539550	2402.31	264.695	1.01212	268.352	67.5524	44.6395	994.509	994.945	713.684	5.82062	4.9427	115.127	477.089	1.45653	25.1	92.4001	454.8	105.796	75.9	80.4007	26.2836	32.3	441.172	15.4883	231.386	0.1064
10:46:30 AM	703	539551	2403.58	263.472	1.01213	268.407	67.5612	44.6525	994.508	994.945	716.226	5.81125	4.94804	115.06	477.249	1.43932	25.1	92.3458	454.723	105.799	75.9	80.4001	26.2198	32.3	436.81	15.4463	231.569	0.1064
10:46:31 AM	703	539552	2403.34	264.543	1.01212	268.274	67.5257	44.641	994.507	994.945	716.607	5.83243	4.93505	115.129	479.158	1.44113	25.1	92.227	454.704	105.8	75.9	80.4037	26.2	32.3	432.603	15.4477	231.717	0.02069
10:46:32 AM	703	539553	2402.99	264.286	1.01212	268.095	67.444	44.653	994.512	994.945	714.013	5.75185	4.93888	114.46	478.38	1.4277	25.1	92.205	454.701	105.8	75.9	80.4007	26.2	32.3	428.254	15.4346	231.818	0.065025
10:46:33 AM	703	539554	2404.1	264.896	1.01212	268.007	67.363	44.6599	994.513	994.945	714.705	5.78159	4.94193	114.924	477.951	1.44399	25.1	92.2009	454.7	106.118	75.9	80.4001	26.2	32.2	423.904	15.4611	231.904	0.1064
10:46:34 AM	703	539555	2403.37	265.807	1.01213	267.958	67.3423	44.6636	994.509	994.945	714.099	5.8196	4.93735	114.954	478.838	1.4411	25.1	92.2002	454.7	106.185	75.9	80.4026	26.2	32.2	419.603	15.4561	231.991	0.106404
10:46:35 AM	703	539556	2402.69	265.578	1.01214	267.898	67.3975	44.6762	994.508	994.945	715.32	5.77984	4.94346	115.712	478.571	1.448	25.1	92.2	454.648	106.197	75.9	80.4026	26.2	32.2	415.367	15.4516	232.074	0.144828
10:46:36 AM	703	539557	2403.17	264.904	1.01213	267.898	67.4893	44.6672	994.51	994.945	717.892	5.76182	4.94804	115.09	478.208	1.44314	25.1	92.2	454.609	106.199	75.9	80.4026	26.2	32.2	411.039	15.4331	232.051	0.1064
10:46:37 AM	703	539558	2402.68	264.523	1.01213	267.987	67.5381	44.6769	994.513	994.945	712.219	5.88896	4.94193	114.896	477.139	1.46533	25.1	92.2	454.602	106.2	75.8229	80.4026	26.2	32.2	406.717	15.4283	231.915	0.1064
10:46:38 AM	703	539559	2403.14	263.854	1.01213	268.071	67.5233	44.6673	994.511	994.718	710.525	5.98034	4.94346	115.278	477.158	1.46784	25.1	92.2	454.6	105.832	75.8042	80.4026	26.2	32.2	402.352	15.4514	231.726	0.1064
10:46:39 AM	703	539560	2403.65	264.476	1.01213	268.062	67.4533	44.6686	994.509	994.945	715.526	5.81701	4.94804	116.353	477.98	1.45801	25.1	92.2	454.6	105.643	75.8008	80.4026	26.2	32.2	398.121	15.4684	231.593	0.1064
10:46:40 AM	703	539561	2403.29	264.083	1.01214	267.994	67.3647	44.6694	994.503	994.945	714.465	5.733	4.93735	116.48	477.04	1.45405	25.1	92.2	454.6	105.608	75.8001	80.4026	26.2	32.2	393.761	15.4892	231.636	0.1064
10:46:41 AM	703	539562	2402.78	263.346	1.01214	267.866	67.3028	44.6773	994.507	994.945	715.552	5.69566	4.93811	115.328	479.358	1.44814	25.1	92.0957	454.356	105.601	75.8	80.4026	26.2	32.2	389.523	15.5106	231.884	0.115271

10:46:42 AM	703	539563	2402.79	264.127	1.01214	267.632	67.2719	44.6788	994.508	994.718	720.226	5.63456	4.93964	116.741	480.779	1.44087	25.1	92.0177	454.31	105.6	75.8	80.4	26.2309	32.2999	385.203	15.5057	232.255	0.1064
10:46:43 AM	703	539564	2402.9	264.46	1.01214	267.398	67.2521	44.679	994.508	994.945	714.005	5.73919	4.93735	116.587	481.269	1.44351	25.1	92.0033	454.302	105.654	75.8	80.3282	26.2579	32.3	380.874	15.5039	232.663	0.1064
10:46:44 AM	703	539565	2403.11	263.488	1.01214	267.269	67.2401	44.6791	994.503	994.718	716.076	5.76077	4.9404	116.631	480.26	1.4548	25.1	92.0006	454.3	105.773	75.8	80.3052	26.2651	32.3	376.584	15.5251	233.015	0.05911
10:46:45 AM	703	539566	2402.89	263.327	1.01214	267.213	67.2234	44.6751	994.503	994.945	718.197	5.73447	4.93582	117.318	480.623	1.44785	25.1	92.0001	454.3	105.795	75.8	80.301	26.2121	32.3	372.242	15.5408	233.264	0.1064
10:46:46 AM	703	539567	2402.73	262.632	1.01214	267.107	67.1856	44.6784	994.506	994.945	714.793	5.71175	4.93964	115.958	480.073	1.44845	25.1	92	453.909	105.799	75.8	80.3002	26.2022	32.3	367.94	15.5378	233.474	0.1064
10:46:47 AM	703	539568	2403.64	263.916	1.01214	266.935	67.1346	44.679	994.508	994.945	718.65	5.73713	4.93811	116.338	481.203	1.48658	25.1	91.7618	453.739	105.8	75.8	80.3	26.2004	32.3	363.608	15.5277	233.697	0.1064
10:46:48 AM	703	539569	2402.99	264.85	1.01214	266.831	67.1002	44.6791	994.508	994.945	711.429	5.82962	4.93658	116.472	480.738	1.48572	25.1	91.7114	453.707	105.8	75.8	80.3	26.2652	32.3	359.328	15.5391	233.931	0.056158
10:46:49 AM	703	539570	2403.06	264.343	1.01213	266.866	67.1178	44.6584	994.508	994.945	718.148	5.72696	4.93353	116.89	480.822	1.45966	25.1	91.7021	453.701	106.098	75.8	80.3	26.2936	32.3	355.01	15.5257	234.118	0.1064
10:46:50 AM	703	539571	2403.47	264.102	1.01214	266.946	67.1979	44.6753	994.51	994.718	720.089	5.83139	4.93429	117.1	483.257	1.44557	25.1	91.7004	453.7	106.181	75.8	80.3	26.2988	32.3	350.736	15.5233	234.186	0.05911
10:46:51 AM	703	539572	2402.75	262.945	1.01213	266.986	67.2665	44.6784	994.511	994.945	715.27	5.66655	4.93811	117.248	482.876	1.44353	25.1	91.7001	453.597	106.197	75.8	80.3	26.2998	32.3	346.449	15.5409	234.097	0.05025
10:46:52 AM	703	539573	2403.49	263.549	1.01213	266.995	67.2776	44.679	994.512	994.718	713.84	5.64635	4.93505	117.147	482.518	1.45992	25.1	91.6388	453.436	106.199	75.8	80.3	26.3	32.3	342.081	15.5435	233.924	0.133005
10:46:53 AM	703	539574	2403.39	263.517	1.01214	267.036	67.2259	44.6791	994.508	994.945	714.038	5.65195	4.93429	118.075	482.057	1.47171	25.1	91.6072	453.407	106.2	75.7314	80.3	26.3	32.3	337.783	15.5657	233.807	0.008867
10:46:54 AM	703	539575	2403.8	264.413	1.01214	267.066	67.1589	44.6791	994.505	994.945	712.764	5.69963	4.94499	118.254	480.996	1.45779	25.1	91.6013	453.401	106.282	75.7058	80.3	26.3	32.3	333.49	15.5664	233.864	0.1064
10:46:55 AM	703	539576	2403.18	264.47	1.01215	267.077	67.151	44.6791	994.501	994.945	712.186	5.78558	4.93888	116.884	481.586	1.46283	25.1	91.6003	453.4	106.378	75.7011	80.3	26.3	32.3	329.133	15.5499	234.058	0.1064
10:46:56 AM	703	539577	2403.51	264.001	1.01214	267.054	67.1919	44.6791	994.503	994.945	718.023	5.83273	4.9404	117.577	481.194	1.46679	25.1	91.6	453.4	106.396	75.7002	80.3	26.3	32.3	324.829	15.5652	234.261	0.1064
10:46:57 AM	703	539578	2402.96	264.269	1.01215	267.045	67.2527	44.6791	994.501	994.945	719.747	5.7781	4.93353	117.225	480.597	1.4746	25.1	91.6	453.323	106.399	75.7	80.3	26.3	32.3	320.586	15.5999	234.363	0.09754
10:48:20 AM	703	539661	2199.54	291.346	1.01155	294.907	67.9651	44.7707	994.489	994.718	661.448	7.18939	4.72341	139.799	450.721	1.40709	24.8911	87.3	464.424	105.401	75.2	79.9997	25.9002	32.2	466.15	15.2323	226.121	0.1064
10:48:21 AM	703	539662	2199.57	291.107	1.01158	294.944	68.0343	44.7707	994.486	994.718	657.067	7.25112	4.72188	140.248	451.114	1.42133	24.8984	87.3	464.486	105.4	75.1656	80	25.9	32.2	461.912	15.2398	226.236	0.1064
10:48:22 AM	703	539663	2200.46	291.41	1.01158	294.971	68.0419	44.7707	994.486	994.718	662.259	7.31616	4.72341	139.253	451.029	1.44891	24.8997	87.3	464.497	105.4	75.1122	79.8861	25.8185	32.2	457.746	15.2236	226.292	0.1064
10:48:23 AM	703	539664	2199.27	291.333	1.01158	295.026	67.9915	44.7707	994.487	994.945	662.347	7.12832	4.71577	139.068	451.492	1.45113	24.8999	87.3	464.5	105.4	75.1022	79.8159	25.8034	32.2	453.411	15.2734	226.365	0.1064
10:48:24 AM	703	539665	2200.06	290.978	1.01158	295.08	67.9253	44.7707	994.487	994.945	662.04	7.06553	4.72188	139.476	452.186	1.44374	24.9	87.3	464.5	105.4	75.1004	79.803	25.8006	32.2	449.169	15.2651	226.543	0.01182
10:48:25 AM	703	539666	2200.32	291.556	1.01158	295.033	67.8834	44.7707	994.486	994.718	663.9	7.21186	4.71348	139.638	451.605	1.42991	24.9	87.3	464.377	105.4	75.1001	79.8005	25.7592	32.2	444.979	15.2969	226.805	0.1064
10:48:26 AM	703	539667	2200.1	292.876	1.01158	294.892	67.8873	44.7707	994.486	994.718	663.501	7.43887	4.71042	138.951	449.009	1.37988	24.9	87.2254	464.233	105.4	75.1	79.8001	25.711	32.2	440.673	15.3262	227.137	0.1064
10:48:27 AM	703	539668	2199.94	291.927	1.01159	294.842	67.9282	44.7843	994.486	994.945	666.297	7.38325	4.7173	138.778	450.619	1.37559	24.9	87.2047	464.206	105.4	75.1	79.8	25.702	32.2	436.42	15.3658	227.439	0.056158

10:48:28 AM	703	539669	2199.71	291.766	1.01159	294.928	67.9857	44.7842	994.486	994.718	668.205	7.11982	4.71806	139.155	452.158	1.42146	24.9	87.2009	464.201	105.4	75.1	79.8	25.7004	32.2	432.225	15.3385	227.707	0.0798
10:48:29 AM	703	539670	2199.52	291.327	1.01159	295.046	68.0264	44.7732	994.486	994.945	664.926	6.999	4.72265	139	452.878	1.44413	24.9	87.2002	464.2	105.4	75.1	79.8	25.6315	32.2	427.998	15.3003	227.901	0.1064
10:48:30 AM	703	539671	2199.4	290.602	1.01159	295.092	68.0249	44.7711	994.486	994.718	664.225	7.1763	4.72647	139.727	452.739	1.43432	24.9	87.2	464.21	105.4	75.1	79.8	25.6058	32.2	423.671	15.3025	227.987	0.1064
10:48:31 AM	703	539672	2200.27	290.907	1.01158	295.063	67.9714	44.7707	994.487	994.718	660.991	7.15645	4.7173	140.055	452.071	1.37558	24.9	87.1063	464.283	105.4	75.1	79.8	25.6011	32.2	419.498	15.3189	228.012	0.076847
10:48:32 AM	703	539673	2199.84	291.9	1.01158	295.009	67.8992	44.7707	994.489	994.718	666.663	7.00613	4.71501	139.697	453.652	1.41539	24.9	87.0197	464.297	105.4	75.1469	79.8	25.6002	32.2	415.194	15.3264	228.016	0.1064
10:48:33 AM	703	539674	2200.29	292.119	1.01158	294.926	67.8642	44.7707	994.489	994.718	667.892	7.14287	4.72188	139.781	454.476	1.39234	24.9	87.0036	464.299	105.438	75.1902	79.9372	25.6	32.2	410.966	15.3145	228.06	0.1064
10:48:34 AM	703	539675	2199.86	291.953	1.01116	294.87	67.8875	44.8111	994.489	994.718	669.249	6.86501	4.71959	140.251	453.166	1.43704	24.9	87.0007	464.3	105.57	75.1982	79.9884	25.6	32.2	406.749	15.3192	228.134	0.1064
10:48:35 AM	703	539676	2200.26	291.703	1.01159	294.843	67.9403	44.7782	994.487	994.718	658.644	7.13934	4.72188	140.303	453.918	1.41518	24.9	87.0001	464.3	105.594	75.1997	79.9978	25.5314	32.2	402.487	15.3264	228.192	0.1064
10:48:36 AM	703	539677	2199.86	292.348	1.01158	294.882	67.9984	44.772	994.489	994.718	664.604	7.02302	4.71501	140.708	452.366	1.41704	24.9	87	464.43	105.599	75.1999	79.9996	25.5058	32.2	398.211	15.3277	228.173	0.02069
10:48:37 AM	703	539678	2200.16	291.649	1.01158	294.994	68.0308	44.7803	994.489	994.718	663.613	7.12693	4.72112	140.679	452.249	1.39775	24.9	87	464.487	105.6	75.2	79.9999	25.5011	32.2	393.968	15.3077	228.072	0.1064
10:48:38 AM	703	539679	2200.04	292.113	1.01158	295.149	68.0392	44.7824	994.49	994.945	661.96	6.97133	4.72112	141.615	452.993	1.37347	24.9	87	464.498	105.6	75.2	80	25.5002	32.2	389.729	15.3097	227.952	0.1064
10:48:39 AM	703	539680	2200.15	291.937	1.01158	295.276	68.039	44.7787	994.49	994.945	660.851	7.0618	4.71348	141.415	451.525	1.39226	24.9	87	464.5	105.326	75.2	80	25.5	32.2	385.419	15.3571	227.842	0.174384
10:48:40 AM	703	539681	2199.36	291.052	1.01158	295.315	68.032	44.7721	994.49	994.945	662.685	7.04741	4.71806	141.902	453.753	1.4304	24.9	87	464.5	105.223	75.2	80	25.5	32.2	381.187	15.3746	227.82	0.1064
10:48:41 AM	703	539682	2199.76	290.58	1.01159	295.248	68.007	44.8124	994.49	994.718	658.114	7.14571	4.70584	141.138	454.178	1.38801	24.9	87	464.446	105.204	75.2	80	25.5	32.2	376.904	15.3543	227.89	0.008867
10:48:42 AM	703	539683	2200.73	290.43	1.01159	295.09	67.9448	44.7924	994.49	994.718	661.746	7.22448	4.71501	141.347	453.866	1.43199	24.9	87	464.327	105.201	75.2	80	25.5	32.2	372.674	15.3719	228.07	0.05025
10:48:43 AM	703	539684	2200.19	291.968	1.0116	294.885	67.8749	44.828	994.488	994.945	670.232	7.37799	4.71424	141.581	454.645	1.40116	24.9	87	464.305	105.2	75.1349	80	25.5	32.2	368.457	15.3618	228.375	0.1064
10:48:44 AM	703	539685	2199.93	292.55	1.01116	294.772	67.8398	44.8202	994.486	994.718	667.566	7.18117	4.71577	141.167	455.786	1.42141	24.9	87	464.301	105.2	75.1065	79.8412	25.5	32.2	364.23	15.3733	228.68	0.008867
10:48:45 AM	703	539686	2199.39	291.497	1.0116	294.764	67.8605	44.8031	994.486	994.718	657.529	7.23591	4.71348	141.716	455.905	1.44109	24.9	87	464.3	105.2	75.1012	79.8076	25.5	32.2	360.015	15.3599	228.918	0.1064
10:48:46 AM	703	539687	2199.75	291.031	1.01142	294.754	67.9067	44.7948	994.486	994.945	665.86	6.86078	4.7173	141.95	457.489	1.36641	24.843	87	464.3	105.2	75.1002	79.8014	25.5	32.2	355.813	15.3231	229.008	0.1064
10:48:47 AM	703	539688	2199.69	290.224	1.01131	294.69	67.9291	44.8038	994.487	994.945	664.032	6.8326	4.71806	141.314	455.823	1.42326	24.808	86.981	464.225	105.2	75.1	79.8003	25.5	32.2	351.611	15.2925	228.898	0.008867
10:48:48 AM	703	539689	2199.94	289.9	1.01129	294.606	67.8834	44.8065	994.486	994.945	660.194	6.85185	4.71653	141.65	455.503	1.42104	24.8015	86.915	464.205	105.2	75.1	79.8	25.5	32.2	347.477	15.2862	228.686	0.144828
10:48:49 AM	703	539690	2200.42	291.132	1.01129	294.534	67.7952	44.8057	994.486	994.718	663.104	7.01824	4.71348	142.086	456.435	1.38196	24.8003	86.9028	464.201	105.2	75.1	79.8	25.5	32.2	343.261	15.2689	228.468	0.1064
10:50:06 AM	703	539767	2011.52	305.408	1.01163	309.25	65.081	44.8927	994.484	994.945	567.945	11.2992	4.52323	153.903	417.22	1.47135	24.9	80.9	474	105.08	88	80.1962	25.3433	32.4941	463.843	14.5409	227.595	0.1064
10:50:07 AM	703	539768	2011.96	305.176	1.01163	309.036	65.0577	44.8927	994.486	994.945	570.601	11.2655	4.51712	153.97	417.418	1.4781	24.9	80.9	474	105.096	75.298	80.1993	25.308	32.4	459.816	14.5373	227.181	0.124138
10:50:08 AM	703	539769	2012.15	305.598	1.01163	308.9	65.0469	44.8927	994.486	994.945	567.492	11.2915	4.52246	152.936	418.071	1.41591	24.9	80.8312	473.841	105.099	75.3	80.1999	25.3015	32.4032	455.818	14.5172	226.752	0.1064

10:50:09 AM	703	539770	2012.16	306.162	1.01163	308.866	65.0552	44.8927	994.487	994.945	567.385	11.1582	4.51941	153.03	418.095	1.42325	24.9	80.7243	473.808	105.1	75.3	80.2	25.3003	32.4006	451.784	14.4947	226.356	0.1064
10:50:10 AM	703	539771	2012.05	306.677	1.01163	308.923	65.0956	44.8927	994.487	994.718	566.235	11.2919	4.51712	153.457	417.236	1.48164	24.9	80.7045	473.801	105.1	75.3	80.2	25.3001	32.4001	447.715	14.5218	226.054	0.162562
10:50:11 AM	703	539772	2012.01	306.31	1.01163	309.058	65.1638	44.8927	994.487	994.945	563.782	11.2376	4.51864	152.95	418.184	1.43175	24.9	80.7008	473.8	105.1	75.338	80.2	25.3	32.4	443.696	14.5441	225.804	0.1064
10:50:12 AM	703	539773	2012.07	306.04	1.01163	309.234	65.2267	44.879	994.486	994.945	562.51	11.4084	4.52246	153.249	417.819	1.43852	24.9	80.7002	473.8	105.1	75.47	80.3043	25.2478	32.4	439.719	14.5234	225.594	0.124138
10:50:13 AM	703	539774	2011.17	305.601	1.01163	309.41	65.2678	44.8902	994.487	994.945	565.123	11.2992	4.52017	153.845	419.467	1.44331	24.9	80.7	473.8	104.956	75.4944	80.3823	25.2089	32.4542	435.75	14.5093	225.38	0.1064
10:50:14 AM	703	539775	2011.73	305.335	1.01163	309.52	65.2594	44.8923	994.487	994.718	559.846	11.1003	4.51864	155.335	419.634	1.48845	24.9	80.7	473.8	104.91	75.499	80.3967	25.2016	32.573	431.709	14.5149	225.238	0.1064
10:50:15 AM	703	539776	2011.77	305.705	1.01234	309.568	65.26	44.8926	994.487	994.718	567.925	11.1008	4.52476	155.36	419.371	1.49237	25.1314	80.7	473.882	104.902	75.4998	80.3994	25.2003	32.595	427.616	14.5444	225.181	0.038424
10:50:16 AM	703	539777	2012.14	305.372	1.01252	309.565	65.2086	44.8927	994.487	994.945	563.464	11.247	4.52246	154.868	417.679	1.43541	25.1873	80.6314	473.978	104.9	75.5	80.3999	25.2001	32.591	423.581	14.5434	225.232	0.1064
10:50:17 AM	703	539778	2012.28	306.24	1.01255	309.506	65.178	44.8927	994.487	994.945	567.35	11.1611	4.5217	154.218	418.041	1.4204	25.1976	80.6058	473.996	104.9	75.2395	80.38	25.2	32.5998	419.71	14.5072	225.378	0.1064
10:50:18 AM	703	539779	2011.8	306.6	1.01256	309.469	65.1886	44.8927	994.487	994.945	566.515	11.2385	4.51788	153.665	417.195	1.39612	25.1996	80.6011	473.999	104.848	75.1258	80.2334	25.2	32.6	415.642	14.4711	225.506	0.008867
10:50:19 AM	703	539780	2011.55	306.24	1.01255	309.511	65.2328	44.8927	994.489	994.945	570.274	11.126	4.51482	154.027	417.498	1.42817	25.1999	80.6002	474	104.809	75.1048	80.2062	25.19	32.4508	411.631	14.5159	225.539	0.133005
10:50:20 AM	703	539781	2011.95	305.859	1.01237	309.616	65.2765	44.8927	994.489	994.718	566.698	11.2226	4.53316	153.662	418.579	1.45424	25.1387	80.6	474	104.802	75.1009	80.2011	25.1167	32.4094	407.565	14.4912	225.413	0.1064
10:50:21 AM	703	539782	2012.06	306.122	1.01227	309.723	65.301	44.8927	994.487	994.945	564.124	11.2183	4.51712	152.824	418.269	1.46566	25.1072	80.5312	474	104.8	75.1002	80.2002	25.1031	32.4017	403.564	14.4628	225.148	0.1064
10:50:22 AM	703	539783	2012.44	306.143	1.01225	309.811	65.3055	44.8927	994.487	994.945	566.245	11.1181	4.51941	152.929	417.366	1.44633	25.1013	80.4243	474	104.8	74.9625	80.2	25.1006	32.4003	399.571	14.4737	224.865	0.038424
10:50:23 AM	703	539784	2012.33	305.586	1.01225	309.888	65.291	44.8927	994.489	994.718	566.085	11.1684	4.52323	153.622	417.883	1.4262	25.1002	80.4045	474	104.79	74.7486	80.0628	25.1001	32.4001	395.504	14.4605	224.66	0.1064
10:50:24 AM	703	539785	2012.23	305.135	1.01225	309.881	65.2638	44.8927	994.489	994.945	569.723	11.1291	4.52094	153.898	417.552	1.44455	25.1	80.4008	474	104.717	74.709	80.0116	25.125.1	32.4	391.487	14.4763	224.513	0.1064
10:50:25 AM	703	539786	2012.19	305.602	1.01225	309.757	65.2325	44.8927	994.488	994.718	569.577	11.1621	4.52628	153.418	413.225	1.47858	25.1	80.4002	474	104.703	74.7017	80.0022	25.125.1	32.4	387.51	14.4978	224.472	0.1064
10:50:26 AM	703	539787	2012.54	305.465	1.01225	309.585	65.197	44.8927	994.487	994.945	571.434	11.2982	4.52476	153.496	412.279	1.45944	25.1	80.4	473.877	104.701	74.7003	80.0004	25.0185	32.4	383.493	14.4551	224.518	0.085714
10:50:27 AM	703	539788	2012.78	306.265	1.01225	309.476	65.1782	44.902	994.487	994.718	571.209	11.1739	4.52552	152.332	414.897	1.48969	25.1	80.4	473.814	104.7	74.7001	80.0001	25.0806	32.4	379.477	14.4708	224.595	0.1064
10:50:28 AM	703	539789	2012.39	306.111	1.01225	309.464	65.1896	44.8941	994.487	994.718	565.346	11.2513	4.5217	152.554	414.998	1.45493	25.1	80.4	473.803	104.7	74.5412	79.8772	25.0313	32.4	375.481	14.496	224.703	0.1064
10:50:29 AM	703	539790	2012.1	306.084	1.01225	309.497	65.232	44.893	994.487	994.945	567.853	11.0718	4.5217	152.531	416.316	1.43622	25.1	80.4	473.801	104.765	74.5076	79.7328	25.0058	32.4	371.427	14.4796	224.759	0.047291
10:50:30 AM	703	539791	2012.24	306.071	1.01224	309.547	65.275	44.8719	994.487	994.945	565.569	11.1348	4.52934	152.102	415.929	1.48499	25.1	80.4	473.8	104.794	74.5014	79.7061	25.0011	32.4	367.446	14.4619	224.717	0.1064
10:50:31 AM	703	539792	2012.18	306.37	1.01224	309.623	65.2986	44.8889	994.489	994.718	567.973	11.3681	4.53087	151.957	415.633	1.5098	25.1	80.4	473.8	104.799	74.5003	79.7011	25.0002	32.4	363.343	14.4445	224.632	0.076847
10:50:32 AM	703	539793	2012.44	306.397	1.01225	309.738	65.3118	44.892	994.486	994.718	561.822	11.2595	4.52934	151.229	414.612	1.45314	25.1	80.343	473.8	104.8	74.5	79.7002	25	32.4	359.341	14.4258	224.486	0.1064
10:50:33 AM	703	539794	2011.89	306.14	1.01225	309.87	65.3122	44.8926	994.486	994.718	567.629	11.3633	4.5324	151.53	416.457	1.41349	25.1	80.308	473.8	104.8	74.6709	79.7	25	32.4	355.432	14.4149	224.285	0.1064

10:50:34 AM	703	539795	2011.81	305.678	1.01225	309.942	65.3122	44.8927	994.486	995.171	565.885	11.3169	4.51941	151.155	416.512	1.50515	25.1	80.3015	473.8	104.559	74.7761	79.7	25	32.4	351.45	14.423	224.082	0.1064
10:50:35 AM	703	539796	2011.46	305.851	1.01225	309.927	65.3066	44.8927	994.486	994.945	569.307	11.4029	4.52781	151.201	414.93	1.45903	25.1	80.3003	473.8	104.185	74.7956	79.7	25	32.4	347.454	14.4231	223.858	0.1064
10:51:37 AM	703	539858	1806.01	312.694	1.01227	316.136	59.7839	44.9004	994.482	994.945	490.377	8.21349	4.27491	154.926	375.018	1.47728	25.1042	75.1697	474.722	104.099	74.5	79.8	24.9	32.4	548.952	13.2507	225.116	0.1064
10:51:38 AM	703	539859	1806.13	312.433	1.01226	316.141	59.8055	44.8941	994.482	994.945	487.969	8.15287	4.27262	154.586	375.731	1.49898	25.1008	75.1129	474.704	104.1	74.6372	79.781	24.9	32.4	545.311	13.1808	224.812	0.09754
10:51:39 AM	703	539860	1805.9	312.369	1.01225	316.193	59.8202	44.893	994.483	994.945	492.798	8.07768	4.2688	155.398	375.442	1.53551	25.1001	75.1024	474.701	104.152	74.6884	79.715	24.9	32.4	541.639	13.1671	224.416	0.094581
10:51:40 AM	703	539861	1805.99	312.56	1.01225	316.25	59.8245	44.9019	994.483	994.945	485.09	8.07823	4.27491	154.796	375.84	1.52577	25.1	75.1004	474.7	104.191	74.6978	79.7028	24.9	32.4	538.011	13.1659	224.04	0.1064
10:51:41 AM	703	539862	1806	312.525	1.01243	316.286	59.8346	44.8963	994.483	994.718	489.645	8.09444	4.27491	154.495	375.205	1.48782	25.157	75.1001	474.7	104.198	74.69	79.7005	24.9	32.4	534.389	13.1391	223.653	0.1064
10:51:42 AM	703	539863	1806.27	312.817	1.01254	316.311	59.8424	44.8934	994.483	994.945	491.077	8.22109	4.27032	154.722	373.989	1.50694	25.192	75.0312	474.621	104.2	74.6999	79.7001	24.9	32.4	530.699	13.153	223.254	0.076847
10:51:43 AM	703	539864	1805.89	312.499	1.01256	316.357	59.8491	44.9021	994.485	994.718	490.193	8.14162	4.27567	154.229	375.073	1.5006	25.1985	74.9243	474.604	104.2	74.8032	79.7	24.9	32.4	527.06	13.1805	222.939	0.1064
10:51:44 AM	703	539865	1806.06	312.253	1.01256	316.383	59.8551	44.8945	994.485	994.945	482.465	8.07559	4.27567	154.055	374.05	1.52051	25.1997	74.9045	474.601	104.2	74.9635	79.8372	24.9	32.4	523.373	13.1856	222.731	0.017734
10:51:45 AM	703	539866	1805.88	311.982	1.01256	316.376	59.8519	44.893	994.485	994.718	487.541	7.9994	4.2772	154.246	375.301	1.5309	25.1999	74.9008	474.6	104.119	74.9932	79.8884	24.8185	32.2957	519.719	13.1766	222.656	0.017734
10:51:46 AM	703	539867	1806.48	312.001	1.01254	316.335	59.8279	44.8928	994.485	994.945	472.837	7.93251	4.28102	154.505	374.844	1.5091	25.19	74.9002	474.6	104.103	74.9987	79.8978	24.8752	32.2177	516.04	13.1672	222.737	0.017734
10:51:47 AM	703	539868	1806.33	312.853	1.0123	316.292	59.7939	44.8927	994.485	994.718	480.935	8.03684	4.27414	154.568	374.226	1.54197	25.1167	74.9	474.486	104.101	74.9998	79.8996	24.8954	32.2033	512.332	13.1655	222.859	0.02069
10:51:48 AM	703	539869	1806.12	312.632	1.01226	316.276	59.7874	44.8927	994.485	994.718	472.825	8.05618	4.27185	154.393	373.96	1.56029	25.1031	74.7458	474.416	104.1	75	79.8999	24.8523	32.2006	508.754	13.1438	222.957	0.1064
10:51:49 AM	703	539870	1805.94	312.673	1.01225	316.277	59.805	44.8988	994.485	994.718	468.135	7.96233	4.27491	154.174	375.215	1.51303	25.1006	74.7085	474.403	104.1	75	79.9409	24.8097	32.2001	505.122	13.1531	222.968	0.02794
10:51:50 AM	703	539871	1806	312.57	1.01225	316.276	59.8321	44.8939	994.485	994.718	462.092	7.9713	4.2772	154.423	374.705	1.53269	25.1001	74.7016	474.401	104.1	75	79.9891	24.8018	32.2	501.444	13.1416	222.872	0.1064
10:51:51 AM	703	539872	1806.05	312.292	1.01225	316.28	59.8487	44.8997	994.485	994.718	461.531	8.04403	4.27796	154.849	375.654	1.5237	25.1	74.7003	474.4	104.1	75	79.998	24.8003	32.2	497.726	13.1549	222.702	0.1064
10:51:52 AM	703	539873	1806.04	311.931	1.01246	316.308	59.8571	44.894	994.484	994.718	461.284	8.05751	4.2772	154.77	374.658	1.53936	25.1686	74.7001	474.381	104.1	75	79.9996	24.8001	32.2	494.052	13.1974	222.562	0.1064
10:51:53 AM	703	539874	1805.71	311.781	1.01254	316.322	59.8331	44.893	994.484	994.718	458.978	8.03247	4.2772	153.909	375.605	1.56542	25.1942	74.6431	474.315	104.1	75	79.9999	24.8	32.2	490.465	13.2006	222.551	0.08867
10:51:54 AM	703	539875	1806.55	312.335	1.01256	316.272	59.7979	44.8995	994.484	994.718	463.058	8.04363	4.27949	154.806	374.5	1.55476	25.1989	74.608	474.303	104.1	75	80	24.8	32.2	486.745	13.2387	222.698	0.1064
10:51:55 AM	703	539876	1805.96	312.798	1.01257	316.203	59.7759	44.9081	994.484	994.718	462.917	8.05744	4.27491	153.94	375.662	1.49132	25.1998	74.6015	474.301	103.997	75	80	24.8	32.2	483.131	13.1955	223.015	0.1064
10:51:56 AM	703	539877	1806.09	312.608	1.01256	316.181	59.7796	44.8956	994.482	994.718	468.506	8.16831	4.27262	153.751	374.912	1.5183	25.2	74.6003	474.3	103.836	75	80	24.8	32.2	479.459	13.204	223.35	0.017734
10:51:57 AM	703	539878	1805.78	312.191	1.01256	316.201	59.8058	44.8951	994.482	994.718	483.892	8.1225	4.2772	154.585	375.989	1.5382	25.2	74.6001	474.3	103.807	75	80	24.8	32.2	475.814	13.1927	223.575	0.162562
10:51:58 AM	703	539879	1805.83	311.613	1.01256	316.197	59.8251	44.8932	994.484	994.718	486.13	8.15978	4.27873	153.711	374.864	1.55123	25.2	74.6	474.094	103.801	75	80	24.8	32.2	472.134	13.2324	223.657	0.085714
10:51:59 AM	703	539880	1806.02	311.741	1.01256	316.163	59.818	44.8928	994.484	994.718	490.501	8.14048	4.27949	154.199	374.14	1.51443	25.2	74.4371	474.017	103.8	75	80	24.8	32.2	468.511	13.2481	223.632	0.1064

10:52:00 AM	703	539881	1806.35	311.907	1.01256	316.131	59.7833	44.8927	994.484	994.945	488.654	8.36064	4.28255	153.804	373.532	1.5356	25.2	74.4069	474.003	103.8	75	80	24.7729	32.2	464.82	13.251	223.662	0.02069
10:52:01 AM	703	539882	1806.54	312.263	1.01257	316.099	59.7462	44.9084	994.486	994.718	479.265	8.21151	4.28102	154.384	374.673	1.56734	25.2	74.4013	474.001	103.8	75	80	24.7135	32.1729	461.172	13.2515	223.813	0.1064
10:52:02 AM	703	539883	1805.33	312.621	1.01256	316.05	59.7363	44.8956	994.486	994.945	481.389	8.20623	4.27109	153.9	375.074	1.54136	25.2	74.4002	474	103.8	75	80	24.7025	32.1	457.491	13.2516	224.085	0.1064
10:52:03 AM	703	539884	1806.02	311.964	1.01183	315.977	59.7048	44.9068	994.486	994.718	477.568	8.08757	4.2772	154.727	374.678	1.58966	24.9618	74.4	473.859	103.8	75	80	24.7005	32.1025	453.849	13.227	224.344	0.1064
10:52:04 AM	703	539885	1806.15	312.103	1.01168	315.902	59.7191	44.9099	994.486	994.718	481.982	8.14454	4.28102	154.2	374.336	1.57623	24.9114	74.3314	473.73	103.8	75	80	24.7001	32.1005	450.178	13.2118	224.46	0.047291
10:52:05 AM	703	539886	1789.75	315.611	1.01164	315.892	59.6885	44.8959	994.486	994.718	487.903	7.93452	4.239	154.535	372.381	1.55803	24.9021	74.3058	473.705	103.8	75	80	24.7001	32.1001	446.527	13.2191	224.433	0.1064
10:52:06 AM	703	539887	1796.94	311.692	1.01164	316.074	59.6172	44.9001	994.484	994.718	466.183	7.57278	4.2772	154.997	373.734	1.53706	24.9004	74.3011	473.701	103.743	75	80	24.7	32.1	442.912	13.228	224.378	0.1064
10:52:52 AM	703	539933	1600.36	318.887	1.0126	323.104	54.1399	44.9797	994.482	994.718	425.37	1.74767	3.93032	160.952	343.445	1.57344	25.2	71.4	466.4	103.141	74.6951	80.0843	32.2139	288.027	11.9717	223.497	0.076847	
10:52:53 AM	703	539934	1600.31	318.754	1.0125	323.086	54.1288	44.9743	994.482	994.718	419.125	1.76208	3.93567	160.575	342.525	1.61291	25.1656	71.4	466.4	103.108	74.6991	80.0971	32.284	284.731	11.9809	223.495	0.1064	
10:52:54 AM	703	539935	1600.27	318.846	1.01232	323.027	54.11	44.9631	994.482	994.718	423.816	1.77662	3.93185	160.948	343.799	1.51615	25.1122	71.4	466.263	103.101	74.6998	80.0995	32.297	281.513	11.9471	223.53	0.056158	
10:52:55 AM	703	539936	1599.84	319.081	1.0123	322.965	54.0998	44.9804	994.482	994.718	417.762	1.58523	3.93032	160.6	342.608	1.59896	25.1023	71.1556	466.212	103.1	74.624	80.0999	32.2995	278.218	11.9215	223.605	0.1064	
10:52:56 AM	703	539937	1600.58	318.695	1.01229	322.931	54.1032	44.9836	994.482	994.718	419.332	1.70337	3.93643	160.919	344.115	1.55759	25.1004	71.1103	466.202	103.1	74.36	79.9956	32.2999	274.966	11.9281	223.661	0.1064	
10:52:57 AM	703	539938	1600.34	318.655	1.01229	322.902	54.1024	44.9841	994.482	994.718	422.583	1.81614	3.93567	160.682	344.005	1.57664	25.1001	71.1019	466.2	102.951	74.3111	79.9177	32.3	271.606	11.9138	223.628	0.1064	
10:52:58 AM	703	539939	1600.76	318.932	1.01229	322.855	54.1038	44.9794	994.482	994.718	419.35	1.68633	3.94025	160.726	343.304	1.53555	25.1	71.1004	466.2	102.909	74.3021	79.9033	32.3	268.263	11.9641	223.493	0.038424	
10:52:59 AM	703	539940	1600.55	318.806	1.0118	322.793	54.0739	44.9834	994.482	994.718	424.765	1.83966	3.94101	160.322	341.922	1.55991	24.9412	71.1001	466.062	102.902	74.3004	79.9006	24.6206	32.3	265.023	11.9146	223.357	0.026601
10:53:00 AM	703	539941	1600.37	318.966	1.0117	322.76	54.0638	44.9841	994.482	994.718	418.349	1.6519	3.93261	159.908	342.412	1.59903	24.9076	70.9628	465.849	102.9	74.3001	79.9001	24.6038	32.3	261.715	11.911	223.256	0.1064
10:53:01 AM	703	539942	1600.6	319.084	1.01168	322.744	54.0675	44.9843	994.482	994.718	427.148	1.80752	3.94101	159.993	342.051	1.56175	24.9014	70.9116	465.809	102.9	74.1628	79.9	24.6007	32.3	258.447	11.8551	223.19	0.1064
10:53:02 AM	703	539943	1600.84	318.917	1.01167	322.722	54.0758	44.9843	994.482	994.718	424.715	1.82429	3.94942	159.925	341.728	1.54036	24.9003	70.9022	465.802	103.004	74.1116	79.8185	24.6001	32.3	255.102	11.8527	223.051	0.162562
10:53:03 AM	703	539944	1600.69	318.788	1.01167	322.697	54.0841	44.9843	994.482	994.718	420.411	1.7261	3.9456	159.435	341.62	1.52986	24.9	70.9004	465.8	103.082	74.1022	79.8034	24.6	32.3	251.795	11.8362	222.767	0.1064
10:53:04 AM	703	539945	1600.72	318.974	1.01167	322.677	54.0855	44.9843	994.482	994.718	424.554	1.76622	3.93567	159.905	341.876	1.49365	24.9	70.9001	465.8	103.097	74.1004	79.8006	24.6	32.3	248.54	11.8322	222.411	0.1064
10:53:05 AM	703	539946	1600.3	319.077	1.01167	322.679	54.0836	44.9843	994.482	994.718	427.025	1.71433	3.9349	158.877	341.826	1.5188	24.9	70.8656	465.646	103.099	74.1001	79.8001	24.6	32.3	245.256	11.8691	222.016	0.1064
10:53:06 AM	703	539947	1599.78	318.808	1.01167	322.697	54.0777	44.9843	994.482	994.718	425.859	1.63624	3.94178	158.992	341.158	1.58182	24.9	70.8122	465.608	103.1	74.1688	79.8	24.6	32.3	241.925	11.8794	221.768	0.008867
10:53:07 AM	703	539948	1599.93	318.621	1.01167	322.693	54.0703	44.9711	994.482	994.718	423.347	1.58486	3.94407	159.131	341.894	1.60286	24.9	70.8023	465.602	103.1	74.2757	79.8	24.6	32.4	238.658	11.8954	221.7	0.1064
10:53:08 AM	703	539949	1600.2	318.656	1.01167	322.653	54.0585	44.9818	994.482	994.718	414.011	1.75179	3.9456	158.634	342.337	1.5632	24.9	70.8004	465.6	102.693	74.2955	79.8	24.6	32.4	235.271	11.8754	221.812	0.1064
10:53:09 AM	703	539950	1600.14	318.79	1.01167	322.594	54.0424	44.9838	994.482	994.945	423.436	1.78272	3.9563	158.805	341.075	1.54677	24.9	70.8001	465.6	102.617	74.2992	79.8	24.6	32.4	232.061	11.863	222.027	0.008867

10:53:10 AM	703	539951	1599.89	318.842	1.01167	322.555	54.0311	44.9842	994.482	994.718	427.964	1.75068	3.94407	159.324	341.541	1.59542	24.9	70.8	465.315	102.603	74.2998	79.8	24.6	32.4	228.779	11.873	222.216	0.212808
10:53:11 AM	703	539952	1599.87	318.544	1.01167	322.531	54.0252	44.9843	994.48	994.718	428.395	1.86779	3.94254	159.517	340.166	1.57954	24.9	70.6458	465.14	102.601	74.3	79.8	24.6	32.4	225.385	11.929	222.344	0.144828
10:53:12 AM	703	539953	1600.3	318.499	1.01167	322.484	54.0263	44.9843	994.48	994.718	420.426	1.85523	3.95095	158.928	340.617	1.55046	24.9	70.6085	465.107	102.6	74.371	79.8	24.6	32.4	222.231	11.933	222.429	0.162562
10:53:13 AM	703	539954	1600.3	318.371	1.01167	322.422	54.0234	44.9843	994.48	994.718	421.723	1.62013	3.94407	158.846	341.488	1.58107	24.9	70.6016	465.101	102.6	74.3958	79.8	24.6	32.4	218.911	11.9148	222.557	0.1064
10:53:14 AM	703	539955	1600.13	318.578	1.01168	322.364	54.0131	44.9794	994.478	994.718	428.721	1.94866	3.9456	158.656	341.623	1.55436	24.9	70.6003	465.1	102.6	74.3992	79.8	24.6	32.4	215.607	11.914	222.76	0.1064
10:53:15 AM	703	539956	1600.19	318.537	1.01168	322.336	54.0019	44.9834	994.478	994.945	418.237	1.899	3.94713	158.818	341.69	1.49999	24.9	70.6001	465.043	102.6	74.3999	79.8	24.6	32.4	212.291	11.9078	222.996	0.124138
10:53:16 AM	703	539957	1600.02	318.507	1.01167	322.31	53.9922	44.9696	994.478	994.945	423.292	1.79819	3.95171	159.313	341.643	1.54557	24.9	70.5431	464.845	102.6	74.4	79.8	24.6	32.4	209.038	11.8925	223.163	0.1064
10:53:17 AM	703	539958	1600.32	318.567	1.01167	322.272	53.9927	44.9771	994.478	994.945	417.676	1.85103	3.95095	158.176	340.826	1.5463	24.9	70.508	464.808	102.6	74.4569	79.8	24.6	32.4	205.757	11.8661	223.202	0.1064
10:53:18 AM	703	539959	1600.23	318.892	1.01167	322.244	53.9995	44.9737	994.478	994.718	416.626	1.80955	3.9563	158.402	340.244	1.55236	24.9	70.5015	464.802	102.6	74.492	79.8746	24.6	32.4	202.493	11.8612	223.099	0.038424
10:53:19 AM	703	539960	1599.68	318.679	1.01168	322.256	54.0074	44.9823	994.478	994.718	425.577	1.82175	3.95324	158.352	341.177	1.58529	24.9	70.5003	464.8	102.6	74.4985	79.8953	24.6	32.2697	199.17	11.8625	222.898	0.056158
10:53:20 AM	703	539961	1600.22	318.377	1.01168	322.294	54.0154	44.9839	994.478	994.718	425.612	1.89432	3.95324	158.008	340.176	1.59511	24.9	70.5001	464.8	102.6	74.4997	79.8991	24.6	32.2129	195.833	11.8782	222.658	0.1064
10:53:21 AM	703	539962	1600.52	318.753	1.01168	322.312	54.0177	44.9842	994.476	994.718	422.445	1.92611	3.95171	157.834	340.556	1.54175	24.9	70.5	464.594	102.6	74.4999	79.8998	24.6	32.2024	192.576	11.8811	222.46	0.1064
10:54:32 AM	703	540033	1402.04	306.616	1.01262	311.065	45.6573	44.9842	994.467	994.718	348.405	2.67265	3.51161	156.564	306.398	1.55087	25.2	65.5254	452.848	101.101	74.3	79.9	24.4001	32.3	518.402	10.1415	225.855	0.065025
10:54:33 AM	703	540034	1403.16	306.796	1.01262	310.972	45.634	44.9751	994.467	994.718	345.209	2.53282	3.51314	156.062	306.469	1.55466	25.2	65.5047	452.809	101.1	74.3	79.9	24.4	32.3	515.522	10.1378	225.626	0.1064
10:54:34 AM	703	540035	1402.3	306.448	1.01262	310.872	45.6159	44.9807	994.463	994.945	338.265	2.28619	3.51009	155.679	306.263	1.57967	25.2	65.5009	452.802	101.165	74.3	79.9	24.4	32.31	512.676	10.1748	225.456	0.09754
10:54:35 AM	703	540036	1402.53	306.814	1.01262	310.766	45.606	44.9744	994.461	994.718	342.902	2.21374	3.5162	155.953	305.689	1.54251	25.2	65.5002	452.8	101.194	74.3	79.9	24.4	32.3833	509.924	10.1959	225.375	0.056158
10:54:36 AM	703	540037	1401.99	306.861	1.01263	310.69	45.6037	44.9824	994.459	994.718	345.62	2.47178	3.51696	155.326	306.544	1.57766	25.2	65.5	452.724	101.199	74.3	79.9	24.4	32.3969	507.029	10.2008	225.447	0.1064
10:54:37 AM	703	540038	1401.77	307.277	1.01263	310.644	45.6071	44.9896	994.459	994.718	346.107	2.44641	3.51543	155.14	305.836	1.57898	25.2	65.3162	452.46	101.2	74.3	79.9	24.4	32.3994	504.279	10.1861	225.655	0.038424
10:54:38 AM	703	540039	1401.91	306.755	1.01263	310.653	45.6178	44.9761	994.459	994.718	342.552	2.61402	3.51696	155.11	305.428	1.57842	25.2	65.2215	452.411	101.2	74.3	79.9	24.4	32.3999	501.444	10.1813	225.888	0.1064
10:54:39 AM	703	540040	1402.13	306.686	1.01262	310.682	45.6227	44.9625	994.455	994.718	337.329	2.67844	3.52155	155.278	305.68	1.54489	25.2	65.204	452.402	100.994	74.3	79.9	24.4	32.4	498.574	10.2086	226.08	0.153695
10:54:40 AM	703	540041	1402.12	307.013	1.01264	310.705	45.6264	44.977	994.45	994.718	346.868	2.5825	3.51925	154.812	304.892	1.56329	25.2	65.2007	452.4	100.673	74.3	79.9	24.4	32.4	495.765	10.2254	226.204	0.076847
10:54:41 AM	703	540042	1401.92	307.026	1.01265	310.727	45.6255	44.9775	994.442	994.718	346.581	2.39721	3.52078	154.557	305.249	1.54275	25.2	65.2001	452.4	100.614	74.3	79.9	24.4	32.4	492.924	10.2297	226.289	0.056158
10:54:42 AM	703	540043	1402.11	306.642	1.01266	310.757	45.6242	44.983	994.435	994.718	346.84	2.51569	3.52231	154.623	305.432	1.53111	25.2	65.2	452.126	100.603	74.3	79.9	24.4	32.4	490.153	10.2305	226.407	0.106404
10:54:43 AM	703	540044	1402.22	306.269	1.01265	310.766	45.6221	44.97	994.436	994.718	341.065	2.8384	3.51925	154.419	304.683	1.51187	25.2	65.1185	452.023	100.6	74.3	79.9	24.4	32.4	487.337	10.2184	226.602	0.1064
10:54:44 AM	703	540045	1402.37	306.306	1.01266	310.704	45.6131	44.9816	994.436	994.718	333.168	2.41384	3.52384	154.088	305.214	1.56117	25.2	65.1034	452.004	100.6	74.3	79.9	24.4	32.4	484.524	10.1958	226.792	0.008867

10:54:45 AM	703	540046	1402	306.541	1.01266	310.626	45.5969	44.9775	994.431	994.718	343.545	2.71672	3.52155	154.15	304.514	1.58155	25.2	65.1006	452.001	100.831	74.3	79.9	24.4	32.4	481.671	10.1865	226.897	0.1064
10:54:46 AM	703	540047	1401.76	306.3	1.01266	310.564	45.5781	44.9757	994.429	994.718	344.447	2.4956	3.52307	153.346	304.938	1.6092	25.2	65.1001	452	100.887	74.3	79.9	24.4	32.4	478.869	10.1873	226.887	0.1064
10:54:47 AM	703	540048	1402.02	306.171	1.01266	310.505	45.562	44.9658	994.429	994.718	340.763	2.48361	3.52384	153.552	304.487	1.60324	25.2	65.1	451.719	100.898	74.3	79.9	24.4	32.4	475.964	10.184	226.781	0.056158
10:54:48 AM	703	540049	1402.26	306.254	1.01266	310.402	45.5522	44.9754	994.433	994.718	339.918	2.72989	3.52766	153.444	303.53	1.54934	25.2	64.9628	451.459	100.9	74.3	79.9	24.4	32.4	473.17	10.1735	226.64	0.1064
10:54:49 AM	703	540050	1402.08	306.403	1.01266	310.294	45.5454	44.9724	994.426	994.718	340.035	2.76554	3.52689	153.4	303.492	1.5528	25.2	64.9116	451.411	100.9	74.3	79.9	24.359	32.4	470.382	10.1614	226.522	0.1064
10:54:50 AM	703	540051	1401.95	306.256	1.01266	310.236	45.541	44.968	994.426	994.718	344.244	2.80667	3.52689	153.236	303.627	1.60548	25.2	64.9022	451.402	100.9	74.3	79.9	24.3209	32.4	467.567	10.1591	226.407	0.017734
10:54:51 AM	703	540052	1402.24	306.168	1.01267	310.216	45.5391	44.9697	994.422	994.718	343.869	2.79924	3.52919	152.636	303.02	1.60103	25.2	64.9004	451.4	100.9	74.3	79.9	24.3854	32.5492	464.719	10.1587	226.291	0.1064
10:54:52 AM	703	540053	1402.4	306.359	1.01267	310.193	45.5414	44.9678	994.423	994.718	345.062	2.67813	3.52919	153.265	304.231	1.64367	25.2	64.9001	451.4	100.9	74.3	79.9	24.3202	32.5906	461.904	10.1627	226.166	0.038424
10:54:53 AM	703	540054	1402.39	306.788	1.01266	310.174	45.5483	44.9615	994.427	994.718	344.267	2.53085	3.52537	152.823	304.124	1.52281	25.2	64.8181	451.014	100.9	74.3	79.9	24.3037	32.5983	459.048	10.177	226.056	0.056158
10:54:54 AM	703	540055	1401.95	306.505	1.01267	310.211	45.5511	44.9801	994.427	994.718	341.72	2.35796	3.53301	152.63	303.437	1.57534	25.2	64.7219	450.921	100.9	74.3	79.9	24.3007	32.5997	456.23	10.2149	226.011	0.047291
10:54:55 AM	703	540056	1402.08	306.875	1.01266	310.289	45.5665	44.9515	994.427	994.718	338.017	2.54121	3.53072	152.968	302.627	1.5694	25.2	64.7041	450.904	100.89	74.3	79.9	24.3001	32.5999	453.429	10.1867	226.062	0.038424
10:54:56 AM	703	540057	1402.14	306.542	1.01266	310.371	45.5839	44.9372	994.424	994.718	338.006	2.55191	3.53377	152.919	303.852	1.60261	25.2	64.7008	450.901	100.817	74.3	79.9	24.3	32.4956	450.61	10.1643	226.162	0.056158
10:54:57 AM	703	540058	1402.43	306.579	1.01265	310.422	45.5933	44.9672	994.435	994.718	338.6	2.84391	3.53301	152.391	303.338	1.56548	25.2	64.7001	450.9	100.803	74.3	79.9	24.3	32.4177	447.83	10.1597	226.239	0.085714
10:54:58 AM	703	540059	1402.31	306.673	1.01266	310.468	45.6026	44.9811	994.434	994.718	342.155	2.49887	3.53148	151.801	301.69	1.56908	25.2	64.7	450.729	100.801	74.3	79.9	24.3	32.4033	445.017	10.1811	226.213	0.1064
10:54:59 AM	703	540060	1402.04	306.733	1.01265	310.513	45.5991	44.9625	994.433	994.945	340.115	2.59545	3.53072	151.833	302.208	1.56427	25.2	64.6254	450.624	100.8	74.3	79.9	24.3	32.4006	442.198	10.2024	226.111	0.124138
10:55:00 AM	703	540061	1402.18	305.867	1.01265	310.533	45.591	44.9606	994.431	994.718	333.499	2.86467	3.53454	151.471	302.439	1.57457	25.2	64.6047	450.604	100.8	74.2206	79.8531	24.3	32.4001	439.358	10.193	226.049	0.1064
10:55:01 AM	703	540062	1402.14	305.931	1.01266	310.473	45.576	44.9744	994.433	994.718	339.49	2.71234	3.53759	151.345	301.711	1.53339	25.2	64.6009	450.601	100.663	74.2038	79.8098	24.3	32.4	436.546	10.1835	226.074	0.0798
10:55:56 AM	703	540117	1206.97	290.271	1.01236	293.531	37.1398	44.9661	994.418	994.718	270.979	0.45809	3.02338	149.7	272.271	1.54852	25.0983	60.5105	436.416	99.7	74.2771	79.8271	24.1	32.3	302.511	8.47169	230.332	0.1064
10:55:57 AM	703	540118	1206.42	289.986	1.01237	293.66	37.143	44.9788	994.416	994.718	263.182	0.62761	3.02567	149.716	272.068	1.54336	25.0997	60.5019	436.403	99.7	74.2958	79.8865	24.1	32.3	300.191	8.45954	230.328	0.0798
10:55:58 AM	703	540119	1206.59	289.986	1.01238	293.767	37.1453	44.9833	994.408	994.416	269.749	0.52754	3.02032	149.291	271.562	1.58975	25.0999	60.5004	436.401	99.7	74.2992	79.8975	24.1	32.3	297.872	8.46542	230.408	0.1064
10:55:59 AM	703	540120	1206.99	289.78	1.01239	293.832	37.1374	44.9841	994.401	994.945	262.226	0.48057	3.02414	148.934	270.276	1.68805	25.1	60.5001	436.34	99.7	74.2999	79.8995	24.1	32.3	295.549	8.43124	230.568	0.038424
10:56:00 AM	703	540121	1206.73	290.372	1.01239	293.836	37.123	44.9925	994.401	994.718	263.687	0.62302	3.02338	148.819	271.122	1.57976	25.1	60.4063	435.9	99.7	74.3	79.8999	24.0254	32.3	293.213	8.41707	230.597	0.162562
10:56:01 AM	703	540122	1206.4	290.443	1.0124	293.811	37.1184	44.9858	994.397	994.718	267.019	0.48081	3.01039	149.255	270.976	1.55342	25.1	60.3197	435.819	99.7	74.3	79.9	24.0047	32.3	290.965	8.41444	230.549	0.1064
10:56:02 AM	703	540123	1206.67	289.966	1.0124	293.773	37.1134	44.9846	994.395	994.718	266.603	0.63354	3.02185	148.97	270.205	1.55491	25.1	60.3036	435.803	99.776	74.3	80.0435	24.0418	32.3	288.678	8.43157	230.35	0.1064

10:56:03 AM	703	540124	1206.16	290.407	1.0124	293.715	37.111	44.9843	994.391	994.945	265.626	0.61403	3.01116	148.313	269.726	1.7304	25.1	60.3007	435.801	100.04	74.3	80.0895	24.0702	32.3613	286.346	8.39363	230.072	0.038424
10:56:04 AM	703	540125	1206.75	290.301	1.0122	293.67	37.1032	44.9843	994.394	994.718	266.022	0.54694	3.02796	148.034	269.941	1.74829	25.0312	60.3001	435.8	100.089	74.3	80.0981	24.013	32.3928	284.004	8.42668	229.852	0.1064
10:56:05 AM	703	540126	1207.34	290.357	1.01186	293.648	37.0961	44.9897	994.395	994.718	264.384	0.59185	3.02949	147.873	269.461	1.63658	24.9243	60.3	435.388	100.098	74.3	80.0996	24.0024	32.3987	281.667	8.39492	229.68	0.1064
10:56:06 AM	703	540127	1207.32	290.54	1.0118	293.673	37.1043	44.9853	994.392	994.718	265.464	0.40598	3.02644	147.613	269.007	1.6016	24.9045	60.0556	435.235	100.1	74.3	80.0999	24.0004	32.3998	279.401	8.35348	229.505	0.1064
10:56:07 AM	703	540128	1207.28	290.22	1.01179	293.708	37.1198	44.9742	994.385	994.718	265.596	0.5142	3.03178	146.992	269.264	1.49309	24.9008	60.0103	435.206	100.1	74.4629	80.0478	24.0001	32.4	277.14	8.33875	229.248	0.1064
10:56:08 AM	703	540129	1206.99	290.154	1.0118	293.722	37.132	44.9824	994.382	994.718	276.719	0.5593	3.02949	147.557	268.796	1.5746	24.9002	60.0019	435.201	100.1	74.4931	80.0089	24	32.381	274.844	8.31979	228.884	0.008867
10:56:09 AM	703	540130	1207.24	290.086	1.0118	293.719	37.1341	44.9884	994.379	994.718	272.207	0.52374	3.03255	147.453	269.817	1.58911	24.9	60.0004	435.2	100.1	74.4987	80.0016	24	32.315	272.467	8.31913	228.324	0.1064
10:56:10 AM	703	540131	1207.37	290.491	1.01156	293.697	37.1214	44.985	994.376	994.718	269.526	0.46724	3.03484	147.483	268.994	1.68964	24.8206	60.0001	434.994	100.1	74.4998	80.0003	24	32.3028	270.133	8.34962	227.762	0.02069
10:56:11 AM	703	540132	1207.34	290.322	1.0115	293.698	37.1155	44.9844	994.379	994.718	270.353	0.40866	3.0379	147.352	269.558	1.63919	24.8038	59.8775	434.673	100.1	74.5	80.0001	24	32.3005	267.795	8.37567	227.353	0.05025
10:56:12 AM	703	540133	1206.67	290.426	1.0115	293.708	37.1159	44.9866	994.377	994.945	261.223	0.47332	3.03178	147.084	269.481	1.62773	24.8007	59.8144	434.614	100.1	74.5	80	24	32.3001	265.519	8.33911	227.197	0.1064
10:56:13 AM	703	540134	1206.92	290.317	1.0115	293.707	37.1193	44.9902	994.378	994.718	259.414	0.54422	3.03484	146.837	269.555	1.5607	24.8001	59.8027	434.603	100.1	74.5	80.0815	24	32.3	263.156	8.34868	227.243	0.008867
10:56:14 AM	703	540135	1206.99	290.562	1.0115	293.698	37.1236	44.957	994.371	994.718	268.848	0.57352	3.03637	147.113	268.409	1.71987	24.8	59.8005	434.6	100.1	74.5	80.0966	23.9729	32.3	260.853	8.36665	227.405	0.1064
10:56:15 AM	703	540136	1205.79	290.726	1.01169	293.719	37.1366	44.979	994.367	994.718	264.371	0.4896	3.02949	146.864	268.618	1.66161	24.8613	59.8001	434.6	100.1	74.5	80.0994	23.9135	32.3	258.541	8.35159	227.533	0.02956
10:56:16 AM	703	540137	1206.36	290.088	1.0118	293.775	37.1413	44.9908	994.364	994.718	268.155	0.475	3.03178	146.406	267.919	1.65645	24.8928	59.7729	434.227	100.1	74.5	80.0999	23.9819	32.3	256.214	8.3537	227.553	0.0798
10:56:17 AM	703	540138	1206.59	290.519	1.01182	293.803	37.1393	44.9855	994.364	994.718	261.609	0.41328	3.03331	146.362	268.166	1.6231	24.8987	59.7135	434.124	100.1	74.4312	80.1	23.928	32.3	253.914	8.36158	227.577	0.08867
10:56:18 AM	703	540139	1206.98	290.667	1.01182	293.803	37.1334	44.9688	994.358	994.718	272.514	0.56667	3.03484	146.469	268.882	1.6096	24.8998	59.7025	434.104	100.1	74.3243	80.1	23.9052	32.3	251.636	8.36304	227.594	0.026601
10:56:19 AM	703	540140	1206.76	290.794	1.01183	293.826	37.1319	44.9814	994.35	994.718	270.468	0.52703	3.04019	146.313	268.313	1.6411	24.9	59.7005	434.101	100.1	74.3045	80.1	23.901	32.3	249.36	8.36331	227.636	0.1064
10:56:20 AM	703	540141	1206.85	290.571	1.01194	293.889	37.1457	44.9838	994.344	994.718	271.97	0.52735	3.03866	146.363	268.263	1.57554	24.938	59.7001	434.1	100.1	74.3008	80.1	23.9002	32.3	247.034	8.35592	227.722	0.1064
10:56:21 AM	703	540142	1206.11	291.112	1.01236	293.957	37.1764	44.9541	994.34	994.718	278.123	0.35199	3.03026	146.624	269.214	1.46598	25.07	59.7	433.839	100.1	74.3002	80.1	23.9	32.3	244.719	8.33478	227.743	0.06798
10:56:22 AM	703	540143	1206.69	290.64	1.01245	294.019	37.187	44.9787	994.337	994.945	264.197	0.6111	3.04248	146.37	268.724	1.60992	25.0944	59.5565	433.644	100.1	74.3	80.1	23.9	32.3	242.361	8.32263	227.659	0.1064
10:56:23 AM	703	540144	1207.46	290.617	1.01247	294.1	37.1947	44.9832	994.332	994.718	266.944	0.57896	3.04783	146.229	268.24	1.60059	25.099	59.5105	433.608	100.1	74.3	80.0458	23.9	32.3	239.972	8.38735	227.513	0.038424
10:56:24 AM	703	540145	1206.87	290.719	1.01248	294.195	37.1974	44.9841	994.326	994.718	259.355	0.5393	3.04401	146.178	268.27	1.65936	25.0998	59.5019	433.602	99.9775	74.3	79.927	23.9	32.3	237.665	8.36782	227.37	0.1064
10:56:25 AM	703	540146	1206.99	290.887	1.01249	294.263	37.2	44.9842	994.317	994.718	271.018	0.39694	3.04859	146.433	267.392	1.6387	25.1	59.5004	433.6	99.9144	74.3	79.905	23.9	32.3	235.348	8.3642	227.298	0.1064
10:58:07 AM	703	540248	1012.46	261.62	1.01253	264.491	27.9601	44.9833	994.291	994.718	170.631	1.2266	2.568	136.385	233.195	1.72015	25.1	53.2011	403.601	96.7	73.9271	79.7	23.8	31.9	482.178	6.55415	236.724	0.1064

10:58:08 AM	703	540249	1013.34	262.324	1.01252	264.259	27.9639	44.9766	994.29	994.416	169.287	1.24619	2.58023	135.798	233.208	1.33726	25.1	53.2002	403.6	96.7	73.9865	79.7651	23.8	31.9	480.353	6.55847	237.069	0.076847
10:58:09 AM	703	540250	1009.26	264.064	1.01252	264.314	28.0119	44.9714	994.291	994.416	172.865	1.24982	2.55043	135.751	232.596	1.52306	25.1	53.2	403.6	96.6206	73.9975	79.7935	23.8	32.0874	478.494	6.56634	237.298	0.1064
10:58:10 AM	703	540251	1016.16	262.494	1.01253	264.528	28.0851	44.9819	994.29	994.718	190.484	1.23876	2.58099	135.846	233.152	1.47382	25.1	53.2	403.6	96.6038	73.9995	79.7988	23.8	32.2602	476.676	6.5678	237.3	0.085714
10:58:11 AM	703	540252	1013.48	262.474	1.01303	264.835	28.1719	44.9838	994.29	994.416	182.295	1.24844	2.58175	135.402	232.952	1.50291	25.2629	53.2	403.272	96.6007	73.9999	79.7998	23.8	32.2927	474.856	6.60185	236.946	0.094581
10:58:12 AM	703	540253	1010.94	263.006	1.01312	265.263	28.2308	44.9842	994.292	994.718	162.112	1.05184	2.56036	135.983	232.497	1.69104	25.2931	53.0565	402.969	96.6001	74	79.8	23.759	32.2982	473.082	6.62131	236.603	0.076847
10:58:13 AM	703	540254	1016.24	262.427	1.01314	265.641	28.264	44.972	994.291	994.416	170.534	1.32212	2.58557	135.261	232.447	1.30267	25.2987	53.0105	402.913	96.6	73.7847	79.781	23.7299	32.2997	471.29	6.5837	236.367	0.02069
10:58:14 AM	703	540255	1007.81	263.103	1.01315	266.004	28.2604	44.982	994.289	994.416	163.775	1.26389	2.55425	135.869	231.115	1.7014	25.2998	53.0019	402.902	96.2937	73.7157	79.715	23.787	32.3	469.506	6.56124	236.24	0.1064
10:58:15 AM	703	540256	1008.85	263.08	1.01315	266.179	28.2319	44.9839	994.289	994.718	180.939	1.14479	2.5573	135.619	232.3	1.33133	25.3	53.0004	402.9	96.1359	73.7029	79.7028	23.7976	32.2229	467.666	6.58447	236.318	0.065025
10:58:16 AM	703	540257	1010.85	263.164	1.01315	266.226	28.2123	44.9842	994.289	994.718	176.983	1.27766	2.54584	135.259	231.994	1.63001	25.3	53.0001	402.9	96.1067	73.7005	79.7005	23.7996	32.2042	465.85	6.5751	236.4	0.1064
10:58:17 AM	703	540258	1013.71	261.764	1.01315	266.167	28.1858	44.9843	994.29	994.718	161.333	1.24261	2.5871	134.811	232.789	1.4062	25.3	52.9591	402.265	96.1012	73.7001	79.7001	23.7999	32.2008	464.053	6.54665	236.368	0.02956
10:58:18 AM	703	540259	1015.09	263.56	1.01314	266.075	28.2038	44.9843	994.296	994.416	169.75	1.20079	2.56189	135.054	231.69	1.78555	25.3	52.9109	402.131	96.1002	73.8044	79.7	23.8001	32.2001	462.262	6.54869	236.289	0.1064
10:58:19 AM	703	540260	1015.26	263.786	1.01314	266.003	28.2223	44.9886	994.295	994.416	157.364	1.10001	2.55119	135.188	232.31	1.33185	25.3	52.902	402.106	96.13	73.8823	79.6282	23.8	32.2	460.471	6.56453	236.093	0.1064
10:58:20 AM	703	540261	1014.11	261.108	1.01314	266.004	28.2292	44.9814	994.294	994.416	180.134	1.18346	2.5978	134.637	232.491	1.36974	25.3	52.9004	402.101	96.35	73.8967	79.6052	23.8	32.2	458.664	6.52739	235.789	0.1064
10:58:21 AM	703	540262	1015.12	263.072	1.01314	265.97	28.247	44.9837	994.299	994.416	189.027	1.12243	2.58405	134.118	232.034	1.63817	25.3	52.9001	402.1	96.3907	73.8994	79.601	23.8	32.2	456.838	6.53664	235.427	0.1064
10:58:22 AM	703	540263	1013.85	262.623	1.01314	265.937	28.2375	44.9842	994.301	994.718	172.112	1.22689	2.59092	134.264	232.291	1.49854	25.3	52.9	401.794	96.3983	73.8999	79.6002	23.8	32.2	455.029	6.50544	235.074	0.1064
10:58:23 AM	703	540264	1014.67	262.73	1.01314	265.965	28.2359	44.9843	994.299	994.416	167.887	1.15851	2.59245	133.925	232.18	1.59587	25.3	52.8185	401.636	96.3997	73.9	79.6	23.8	32.2	453.195	6.51446	234.737	0.1064
10:58:24 AM	703	540265	1009.52	263.463	1.01313	266.073	28.2475	44.974	994.301	994.416	174.15	1.12983	2.5573	134.584	230.808	1.483	25.3	52.8034	401.607	96.3999	74.0629	79.6	23.8	32.2	451.418	6.53931	234.397	0.076847
10:58:25 AM	703	540266	1010.31	262.571	1.01313	266.144	28.2508	44.9627	994.299	994.416	171.019	1.13703	2.57564	134.281	231.345	1.34615	25.3	52.8006	401.601	96.1847	74.0931	79.6	23.8	32.2	449.612	6.54517	234.176	0.133005
10:58:26 AM	703	540267	1012.63	261.89	1.01313	266.105	28.2467	44.9857	994.305	994.416	170.267	1.25099	2.59322	134.347	231.236	1.73283	25.3	52.8001	401.6	96.1157	74.0987	79.6	23.8	32.2	447.829	6.52556	234.057	0.1064
10:58:27 AM	703	540268	1012.52	262.268	1.01313	266.024	28.2248	44.9802	994.303	994.718	158.271	1.17175	2.5978	133.951	232.105	1.47416	25.3	52.8	401.492	96.1029	74.0998	79.6	23.7282	32.2	445.992	6.53982	234.116	0.144828
10:58:28 AM	703	540269	1013.05	263.948	1.01313	265.989	28.2108	44.9775	994.305	994.416	163.51	1.29998	2.57259	134.077	231.249	1.6399	25.3	52.6775	401.254	96.1005	74.1	79.6	23.7665	32.2	444.168	6.54527	234.345	0.1064
10:58:29 AM	703	540270	1011.41	263.209	1.01313	266.026	28.2009	44.9703	994.306	994.718	168.333	1.35727	2.58634	133.917	230.603	1.33135	25.3	52.6144	401.21	96.1001	74.1	79.6	23.7938	32.2	442.356	6.5134	234.591	0.02069
10:58:30 AM	703	540271	1012.06	262.712	1.01313	266.037	28.2174	44.9817	994.304	994.718	173.565	1.29794	2.58252	133.935	230.627	1.61501	25.3	52.6027	401.202	95.9594	74.1	79.6	23.7988	32.2	440.584	6.53212	234.699	0.1064
10:58:31 AM	703	540272	1013.11	262.889	1.01313	266.02	28.2367	44.9838	994.3	994.718	172.295	1.25941	2.58787	133.902	231.472	1.45721	25.3	52.6005	401.2	95.8295	74.1	79.6	23.7998	32.1282	438.792	6.5151	234.681	0.0798

10:58:32 AM	703	540273	1012.19	261.814	1.01279	266.036	28.2177	44.9842	994.299	994.718	166.821	1.31379	2.60009	133.486	231.454	1.59351	25.1861	52.6001	401.2	95.8055	74.1	79.6	23.8	32.1052	437.01	6.51189	234.503	0.026601
10:58:33 AM	703	540274	1013.1	262.723	1.01257	266.069	28.2115	44.9843	994.296	994.416	171.421	1.28222	2.59933	133.824	231.135	1.46592	25.116	52.6	400.603	95.801	74.1	79.6	23.8	32.101	435.2	6.50646	234.257	0.1064
10:58:34 AM	703	540275	1014.13	263.066	1.01254	266.123	28.1955	44.9843	994.291	994.416	171.782	1.09638	2.59092	133.802	230.691	1.29979	25.103	52.6	400.438	95.8002	74.1344	79.6	23.7478	32.1002	433.433	6.48783	234.098	0.1064
10:58:35 AM	703	540276	1010.94	262.727	1.01252	266.11	28.1917	44.9783	994.295	994.718	161.127	1.19453	2.58328	133.693	230.157	1.79979	25.1005	52.6	400.407	95.8	74.1878	79.6	23.7433	32.1	431.627	6.47689	233.885	0.047291
10:58:36 AM	703	540277	1013.05	262.666	1.01252	266.057	28.1904	44.9792	994.295	994.416	172.492	1.21547	2.57946	133.15	230.03	1.42057	25.1001	52.6	400.401	95.7229	74.1977	79.6	23.7895	32.1	429.838	6.47487	233.656	0.1064
10:59:31 AM	703	540332	1601.79	279.702	1.01194	283.396	47.551	45.0095	994.273	994.416	351.954	3.53776	4.24664	108.847	288.636	1.59306	24.9	58.4998	414.3	95.7	75.7	80.1978	23.6	32.1	281.323	10.5268	222.515	0.056158
10:59:32 AM	703	540333	1602.36	279.77	1.01194	283.395	47.553	45.0128	994.277	994.416	344.946	3.39007	4.24893	108.994	289.439	1.58679	24.9	58.5	414.756	95.7	75.7	80.1996	23.6	32.1	278.424	10.475	223.045	0.133005
10:59:33 AM	703	540334	1602.47	279.922	1.01194	283.375	47.5426	45.0093	994.276	994.718	341.573	3.47815	4.25199	108.67	289.561	1.58008	24.9	58.6492	415.036	95.7	75.7	80.1999	23.6	32.1	275.482	10.4639	223.362	0.1064
10:59:34 AM	703	540335	1602.44	280.313	1.01193	283.36	47.5303	44.9933	994.278	994.718	338.187	3.31124	4.25122	108.9	288.305	1.57788	24.9	58.6906	415.088	95.7	75.7	80.1656	23.6	32.1	272.519	10.5157	223.45	0.01182
10:59:35 AM	703	540336	1601.93	280.313	1.01193	283.365	47.5283	45.0096	994.279	994.416	347.593	3.42631	4.24817	109.135	288.554	1.5786	24.9	58.6983	415.098	95.945	75.7	80.1122	23.6	32.1	269.642	10.5302	223.455	0.06798
10:59:36 AM	703	540337	1602.07	280.221	1.01194	283.372	47.5408	45.0145	994.277	994.416	346.165	3.47826	4.24817	108.832	290.061	1.57387	24.9	58.6997	415.1	96.0713	75.7	80.1022	23.6	32.1	266.782	10.5379	223.437	0.1064
10:59:37 AM	703	540338	1602.05	280.156	1.01194	283.371	47.5573	45.025	994.279	994.718	342.724	3.4052	4.24969	109.013	290.027	1.57264	24.9	58.6999	415.16	96.0947	75.7	80.1004	23.6	32.1	263.938	10.4709	223.52	0.094581
10:59:38 AM	703	540339	1602.21	279.998	1.01195	283.392	47.5674	45.056	994.279	994.416	344.982	3.28184	4.25275	109.293	290.405	1.55911	24.9	58.7522	415.6	96.099	75.7	80.1001	23.6	32.1	261.064	10.4597	223.596	0.1064
10:59:39 AM	703	540340	1602.29	279.962	1.01195	283.435	47.5678	45.0348	994.277	994.416	351.261	3.55227	4.25046	109.07	289.979	1.55238	24.9	58.7911	415.681	96.0998	75.643	80.1	23.6	32.1	258.152	10.4001	223.556	0.1064
10:59:40 AM	703	540341	1602.31	280.089	1.01194	283.469	47.5588	45.0333	994.279	994.416	340.315	3.33304	4.24969	108.789	289.672	1.5555	24.9	58.7984	415.697	96.0187	75.608	80.0229	23.6	32.1	255.232	10.4488	223.294	0.094581
10:59:41 AM	703	540342	1602.07	280.023	1.01194	283.471	47.5482	45.0296	994.279	994.416	347.595	3.19842	4.24969	108.737	290.026	1.56201	24.9	58.7997	415.699	95.8405	75.6015	80.0042	23.6	32.1	252.329	10.4562	222.881	0.1064
10:59:42 AM	703	540343	1602.13	280.396	1.01193	283.452	47.5427	45.0124	994.281	994.416	350.082	3.15057	4.24664	108.896	289.935	1.5653	24.9	58.7999	415.7	95.8075	75.603	80.0008	23.6	32.1	249.505	10.4323	222.531	0.008867
10:59:43 AM	703	540344	1602.13	280.418	1.01194	283.447	47.5483	45.0146	994.279	994.416	354.356	3.32079	4.24664	109.287	290.11	1.5648	24.9	58.82	416.043	95.8014	75.6001	80.0001	23.6	32.1	246.562	10.4343	222.257	0.0798
10:59:44 AM	703	540345	1602.55	280.405	1.01195	283.474	47.5661	45.0177	994.27	994.416	352.391	3.38933	4.24817	109.063	291.724	1.57041	24.9	58.9666	416.171	95.8003	75.61	80	23.6	32.1	243.654	10.421	222.183	0.1064
10:59:45 AM	703	540346	1602.26	280.497	1.01195	283.522	47.5874	45.0242	994.27	994.416	346.326	3.43367	4.25275	109.364	289.987	1.56652	24.9	58.9938	416.195	95.8	75.6833	80	23.6	32.1	240.78	10.4112	222.102	0.1064
10:59:46 AM	703	540347	1601.86	280.769	1.01195	283.597	47.606	45.0232	994.266	994.416	347.807	3.34404	4.25046	109.39	290.916	1.57565	24.9	58.9989	416.199	96.0238	75.69	80	23.6	32.1	237.834	10.4243	221.959	0.1064
10:59:47 AM	703	540348	1602.29	280.929	1.01195	283.695	47.6211	45.0034	994.266	994.416	341.999	3.23741	4.24587	110	291.144	1.59297	24.9	58.9998	416.2	96.0859	75.6994	80	23.7	32.1	234.911	10.4543	221.794	0.192118
10:59:48 AM	703	540349	1601.88	281.359	1.01172	283.828	47.6306	45.019	994.264	994.416	352.647	3.27195	4.24664	110.016	289.848	1.59661	24.8229	59	416.487	96.0974	75.6999	80	23.7	32.1	231.972	10.4935	221.632	0.1064
10:59:49 AM	703	540350	1602.22	280.967	1.01167	283.968	47.656	45.0547	994.264	994.718	342.277	3.27586	4.24358	109.889	291.356	1.59644	24.8042	59.2058	416.823	96.0995	75.7	80	23.7	32.1	229.079	10.513	221.641	0.1064
10:59:50 AM	703	540351	1601.82	280.936	1.01165	284.089	47.6831	45.0223	994.262	994.416	348.749	3.47445	4.24358	110.007	291.968	1.59406	24.8008	59.2826	416.886	96.0999	75.5628	80.019	23.7	32.1	226.163	10.508	221.831	0.1064

10:59:51 AM	703	540352	1602	281.066	1.01165	284.175	47.6994	45.0095	994.262	994.416	351.411	3.44146	4.24129	110.36	290.975	1.58806	24.8001	59.2968	416.897	95.8913	75.5116	80.085	23.7	32.1	223.274	10.4936	222.122	0.1064
10:59:52 AM	703	540353	1601.3	281.124	1.01166	284.248	47.7031	45.0359	994.26	994.416	352.234	3.49403	4.24664	110.467	290.944	1.57882	24.8	59.2994	416.9	95.7355	75.5022	80.0972	23.7	32.1	220.43	10.485	222.416	0.1064
10:59:53 AM	703	540354	1601.14	280.725	1.01166	284.297	47.6934	45.0334	994.26	994.718	345.385	3.37075	4.24511	110.368	291.713	1.58571	24.8	59.2999	416.9	95.7066	75.504	80.0995	23.7	32.1	217.461	10.5069	222.597	0.1064
10:59:54 AM	703	540355	1602.42	280.561	1.01165	284.298	47.6797	45.0171	994.258	994.416	337.552	3.24518	4.24893	110.506	292.579	1.59334	24.8	59.3344	417.286	95.7012	75.501	80.0999	23.7	32.1	214.581	10.5277	222.7	0.183251
10:59:55 AM	703	540356	1602.31	280.809	1.01165	284.24	47.666	45.0034	994.26	994.416	345.889	3.25617	4.2474	110.283	291.876	1.59055	24.8	59.3878	417.379	95.7002	75.5937	80.1	23.7	32.1	211.623	10.5158	222.777	0.1064
10:59:56 AM	703	540357	1601.68	281.031	1.01165	284.174	47.6548	45.0233	994.268	994.416	342.961	3.16518	4.24129	110.771	291.278	1.60018	24.8	59.3977	417.396	95.7	75.6803	80.1686	23.7	32.1	208.719	10.5349	222.898	0.1064
10:59:57 AM	703	540358	1601.38	281.183	1.01164	284.151	47.6537	45.0186	994.268	994.718	350.23	3.14005	4.24205	110.092	291.626	1.60142	24.8	59.3996	417.399	95.6185	75.6964	80.1942	23.7	32.1	205.772	10.502	223.067	0
10:59:58 AM	703	540359	1601.67	281.161	1.01165	284.167	47.6625	45.0507	994.268	994.416	346.546	3.35471	4.24205	110.394	290.605	1.6003	24.8	59.3999	417.4	95.6034	75.6993	80.199	23.7	32.1	202.889	10.5301	223.21	0.06798
10:59:59 AM	703	540360	1601.53	281.284	1.01164	284.189	47.6796	45.0319	994.269	994.416	351.884	3.46499	4.24205	110.416	291.298	1.60167	24.8	59.4	417.817	95.6006	75.6999	80.1998	23.7	32.1	200.024	10.4992	223.285	0.1064
11:00:00 AM	703	540361	1601.75	281.376	1.01165	284.24	47.6978	45.0387	994.269	994.416	346.658	3.38496	4.24511	110.884	291.391	1.60033	24.8	59.4771	418.129	95.6001	75.7	80.2	23.7	32.1	197.107	10.5256	223.244	0.1064
11:00:52 AM	703	540413	2013.57	270.387	1.01164	273.824	57.7627	45.0184	994.267	994.416	477.956	8.47918	4.76543	95.7011	355.597	1.5207	24.8	66.485	427.784	96.6999	76.2135	80.3	23.8	32.2	406.275	12.8916	227.024	0.008867
11:00:53 AM	703	540414	2013.55	270.3	1.01165	273.857	57.7445	45.0276	994.267	994.416	481.468	8.37393	4.76696	96.1572	355.478	1.51923	24.8	66.4972	427.797	96.2235	76.2025	80.3	23.8	32.2	402.671	12.8984	227.074	0.02956
11:00:54 AM	703	540415	2013.75	270.452	1.01163	273.83	57.7197	45.0056	994.271	994.416	480.905	8.65055	4.76696	96.749	355.451	1.52379	24.8	66.4995	427.799	96.1229	76.2005	80.3	23.8	32.2	399.174	12.9038	226.93	0.1064
11:00:55 AM	703	540416	2013.93	270.552	1.01162	273.757	57.697	44.9882	994.273	994.416	482.198	8.44479	4.76238	95.8199	354.698	1.51304	24.8	66.4999	428.268	96.1042	76.201	80.3	23.8	32.2	395.54	12.8864	226.645	0.008867
11:00:56 AM	703	540417	2013.72	271.23	1.01163	273.705	57.694	45.0127	994.276	994.416	477.896	8.42987	4.76238	95.4632	357.572	1.51871	24.8	66.7605	428.702	96.1008	76.2	80.3	23.8	32.2	391.985	12.9138	226.372	0.02069
11:00:57 AM	703	540418	2014.08	271.43	1.01163	273.71	57.7144	45.0164	994.279	994.416	480.01	8.53192	4.76696	96.5797	355.577	1.52094	24.8	66.8742	428.782	96.1001	75.9763	80.281	23.9	32.2	388.45	12.9106	226.24	0.183251
11:00:58 AM	703	540419	2013.56	272.245	1.01162	273.799	57.768	45.0044	994.282	994.416	481.726	8.31897	4.75779	97.077	355.284	1.52376	24.8	66.8952	428.797	96.1	75.9141	80.215	23.9	32.2	384.829	12.883	226.128	0.1064
11:00:59 AM	703	540420	2013.81	271.76	1.01162	273.981	57.842	44.9853	994.279	994.416	482.269	8.40921	4.76085	96.2822	356.57	1.52795	24.8	66.8991	428.799	96.1	75.9026	80.2028	23.9	32.2	381.242	12.8603	225.994	0.038424
11:01:00 AM	703	540421	2013.53	271.748	1.01162	274.217	57.9144	45.0075	994.281	994.416	484.564	8.61377	4.76467	95.1841	358.615	1.54198	24.8	66.8998	428.8	96.1	75.9005	80.2005	23.9	32.2	377.64	12.8737	225.759	0.056158
11:01:01 AM	703	540422	2013.5	272.031	1.01163	274.46	57.9606	45.0298	994.283	994.416	481.921	8.58825	4.75779	95.6496	358.115	1.54407	24.8	67.0405	429.533	96.1	75.9001	80.2001	23.9	32.2	374.045	12.8761	225.421	0.1064
11:01:02 AM	703	540423	2012.37	272.023	1.01162	274.679	57.9804	45.0155	994.282	994.718	481.854	8.6751	4.75932	96.316	358.21	1.53582	24.8	67.1704	429.669	96.1	75.8063	80.2	23.9	32.2	370.538	12.911	225.078	0.056158
11:01:03 AM	703	540424	2012.55	271.636	1.01161	274.873	57.9821	44.9901	994.286	994.416	483.321	8.61135	4.75474	96.1143	359.273	1.52516	24.8	67.1945	429.694	96.195	75.7197	80.0628	23.9	32.2	367.024	12.9559	224.873	0.02956
11:01:04 AM	703	540425	2012.64	271.25	1.0116	274.989	57.9715	44.9908	994.292	994.416	483.715	8.60229	4.75321	97.2614	356.703	1.49922	24.8	67.199	429.699	96.525	75.7037	80.0116	23.9	32.2	363.391	12.914	224.882	0.047291
11:01:05 AM	703	540426	2012.71	271.195	1.0116	274.972	57.9483	44.991	994.296	994.416	484.405	8.44389	4.75856	97.4886	357.456	1.48671	24.8	67.1998	429.7	96.5861	75.7007	80.0022	24	32.2	359.837	12.9174	225.066	0.1064
11:01:06 AM	703	540427	2013.15	271.741	1.0116	274.881	57.9189	45.0005	994.295	994.718	481.158	8.3903	4.76009	97.3579	357.97	1.48901	24.8	67.2	430.068	96.5974	75.7001	80.0004	24	32.2	356.324	12.855	225.327	0.1064

11:01:07 AM	703	540428	2013 .31	272.058	1.0116	274.809	57.895 7	44.98 73	994.292	994.416	482.663	8.405 43	4.754 74	97.09 17	359.43 9	1.50 519	24.8	67.4314	430.2 57	96.599 5	75.7	80.000 1	24.0 41	32.2	352.7 67	12.83 74	225.463	0.06 5025
11:01:08 AM	703	540429	2012 .87	271.924	1.0116	274.802	57.898 6	44.99 41	994.295	994.416	486.146	8.671 69	4.751 68	97.27 81	358.47 7	1.51 193	24.8	67.4873	430.2 92	96.599 9	75.85 88	80	24.0 891	32.2	349.1 78	12.84 83	225.393	0.10 64
11:01:09 AM	703	540430	2012 .95	271.794	1.0116	274.81	57.930 7	44.99 22	994.297	994.416	480.835	8.659 72	4.757 79	97.32 59	359.05 9	1.50 647	24.8	67.4976	430.2 99	96.671 7	75.89 24	80	24.0 98	32.2	345.6 77	12.83 5	225.144	0.01 7734
11:01:10 AM	703	540431	2013 .43	271.74	1.01161	274.811	57.963 8	45.01 26	994.297	994.416	474.233	8.691 99	4.755 5	97.55 17	357.86 4	1.50 694	24.8	67.4996	430.3	96.694 8	75.89 86	80	24.0 996	32.2	342.1 73	12.81 46	224.753	0.10 64
11:01:11 AM	703	540432	2013 .03	272.071	1.01184	274.854	57.996 1	45.01 98	994.292	994.416	482.59	8.614 48	4.747 86	98.37 78	359.16 7	1.51 516	24.8746	67.4999	430.5 17	96.699	75.89 97	80	24.0 999	32.2	338.5 3	12.78	224.369	0.07 6847
11:01:12 AM	703	540433	2013 .02	272.025	1.0119	274.96	58.003 9	44.99 76	994.29	994.718	483.678	8.602 87	4.752 45	98.63 45	357.54 5	1.52 877	24.8953	67.745	430.9 92	96.699 8	75.89 99	80	24.1	32.2	334.8 93	12.80 24	224.042	0.05 911
11:01:13 AM	703	540434	2013 .17	272.236	1.01191	275.08	58.008 4	44.98 68	994.288	994.416	483.004	8.517 19	4.747 1	97.35 43	358.98 5	1.52 905	24.8991	67.8713	431.0 8	96.7	75.9	80	24.1	32.2	331.3 56	12.82 77	223.75	0.09 754
11:01:14 AM	703	540435	2013 .11	271.99	1.01191	275.156	58.019 3	44.98 47	994.291	994.416	480.224	8.562 07	4.747 86	98.57 71	357.79 4	1.51 852	24.8998	67.8947	431.0 96	96.7	75.9	80	24.1	32.2	327.7 84	12.80 87	223.55	0.10 64
11:01:15 AM	703	540436	2013 .36	271.959	1.0119	275.188	58.032 6	44.97 22	994.294	994.416	480.895	8.617 94	4.744 8	98.92 39	359.53 2	1.50 014	24.9	67.899	431.0 99	96.7	75.9	80	24.1	32.1 314	324.1 95	12.81 73	223.41	0.07 6847
11:01:16 AM	703	540437	2012 .89	272.047	1.01191	275.211	58.037 4	44.98 2	994.289	994.416	482.822	8.590 53	4.750 92	99.27 99	359.82 1	1.49 016	24.9	67.8998	431.1	96.7	75.9	80	24.1	32.1 058	320.7 55	12.84 51	223.388	0.10 64
11:01:17 AM	703	540438	2012 .76	272.107	1.01192	275.244	58.032 4	44.99 53	994.285	994.416	480.381	8.623 21	4.751 68	99.06 46	359.02 1	1.49 513	24.9	67.9813	431.6 74	96.7	75.9	80	24.1	32.1 011	317.1 41	12.86 47	223.449	0
11:01:18 AM	703	540439	2012 .83	272.293	1.01192	275.271	58.028 8	44.98 63	994.279	994.718	485.196	8.585 64	4.750 92	98.52 7	359.79 8	1.51 584	24.9	68.1595	431.8 58	96.7	75.9	80	24.1	32.1 002	313.4 06	12.91 16	223.579	0.01 7734
11:01:19 AM	703	540440	2012 .8	271.799	1.01192	275.294	58.026 7	45.00 25	994.281	994.416	476.034	8.561 08	4.750 92	98.45 25	359.68 6	1.52 522	24.9	68.1925	431.8 92	96.7	75.9	80.113 9	24.1 712	32.1	309.9 04	12.94 58	223.839	0.11 5271
11:01:20 AM	703	540441	2012 .54	272.172	1.01192	275.294	58.029 6	44.99 4	994.28	994.416	480.196	8.566 32	4.740 98	98.44 59	360.56 3	1.52 994	24.9	68.1986	431.8 99	96.302 9	75.9	80.184	24.1 132	32.1 688	306.3 69	12.91 13	224.199	0.10 64
11:01:21 AM	703	540442	2013 .28	271.911	1.01192	275.287	58.027 4	44.98 61	994.281	994.416	483.626	8.795 87	4.747 86	99.08 57	360.09 8	1.52 961	24.9	68.1997	431.9	96.219 1	75.9	80.197	24.1 024	32.2 757	302.7 7	12.91 84	224.6	0.02 956
11:02:33 AM	703	540514	2405 .51	164.565	1.01284	166.26	41.939 1	44.90 11	994.262	994.718	452.041	2.984 02	5.136	73.01 12	431.98	1.48 424	25.2	69.5225	379.1 88	98.399 1	76.2	79.6	24.6 998	32.6	459.7 74	10.69 8	257.941	0.10 64
11:02:34 AM	703	540515	2405 .86	163.846	1.01285	166.457	41.984 7	44.92 44	994.262	994.718	450.306	3.013 6	5.144 41	72.71 03	432.81 7	1.47 973	25.2	69.5856	379.1 98	98.399 8	76.40 59	79.6	24.7 814	32.6	456.8 43	10.68 8	257.827	0.10 64
11:02:35 AM	703	540516	2407 .15	162.63	1.01284	166.519	41.990 7	44.90 41	994.262	994.718	449.957	2.816 81	5.144 41	72.34 08	434.47 3	1.47 418	25.2	69.5973	379.2	98.243 5	76.48 26	79.762 9	24.7 966	32.6	453.8 87	10.71 89	257.792	0.14 4828
11:02:36 AM	703	540517	2404 .99	164.512	1.01284	166.464	41.945 7	44.89 48	994.262	994.718	447.701	2.873 98	5.142 12	72.11 59	433.85 5	1.47 033	25.2	69.5995	379.2	98.126 6	76.49 68	79.793 1	24.7 994	32.6	450.9 72	10.70 98	257.9	0.10 64
11:02:37 AM	703	540518	2406 .54	164.946	1.01284	166.426	41.879	44.89 8	994.262	994.718	450.448	2.918 57	5.138 29	72.78 47	432.87 8	1.46 918	25.2	69.5999	379.2	98.104 9	76.49 94	79.798 7	24.7 999	32.6	448.0 07	10.68 65	258.148	0.10 64
11:02:38 AM	703	540519	2405 .36	165.735	1.01284	166.478	41.877 3	44.90 4	994.264	994.718	448.43	2.795 49	5.134 47	73.55 29	433.15 1	1.47 386	25.2	69.6344	378.9 69	98.100 9	76.49 99	79.799 8	24.8 19	32.6	445.0 19	10.67 93	258.435	0.14 4828
11:02:39 AM	703	540520	2403 .59	164.903	1.01284	166.589	41.949 7	44.89 48	994.26	994.718	456.567	2.834 62	5.137 53	72.99 21	434.20 4	1.47 299	25.2	69.6878	378.9 13	98.100 2	76.5	79.8	24.8 85	32.6	442.0 82	10.69 78	258.591	0.10 64
11:02:40 AM	703	540521	2405 .45	165.376	1.01284	166.694	42.069 5	44.89 31	994.26	994.718	460.966	2.897 6	5.127 6	73.09 11	436.44 1	1.47 15	25.2	69.6977	378.9 02	98.1	76.5	79.8	24.8 972	32.6	439.0 61	10.68 52	258.43	0.10 64
11:02:41 AM	703	540522	2404 .37	165.944	1.01285	166.853	42.175	44.91 05	994.26	994.718	457.487	2.790 49	5.128 36	72.59	434.03 3	1.47 02	25.2	69.6996	378.9	98.1	76.5	79.8	24.8 995	32.6	436.1 34	10.67 91	257.927	0.02 6601
11:02:42 AM	703	540523	2404 .14	165.27	1.0127	167.116	42.211 9	44.90 28	994.26	994.718	456.691	2.701 7	5.131 42	72.67 97	435.47 3	1.46 896	25.143	69.6999	378.9	98.1	76.5	79.8	24.8 999	32.6	433.1 69	10.66 47	257.325	0
11:02:43 AM	703	540524	2404 .37	165.026	1.01205	167.386	42.200 1	44.89 46	994.262	994.718	459.773	2.813 55	5.123 01	73.42 54	436.27 3	1.47 135	24.945	69.7	378.9	98.1	76.5	79.8	24.9	32.6	430.2 29	10.67 09	256.743	0.10 64

11:02:44 AM	703	540525	2405.01	164.867	1.01194	167.486	42.1757	44.8931	994.262	994.718	453.734	2.78865	5.12454	73.7611	432.562	1.4736	24.9083	69.7	378.9	98.1	76.5	79.8	24.9	32.6	427.241	10.6877	256.345	0.05911
11:02:45 AM	703	540526	2404.53	165.31	1.01192	167.406	42.1394	44.8989	994.262	994.416	448.645	2.98911	5.12913	74.355	434.713	1.47667	24.9015	69.7	378.9	98.1	76.5	79.8	24.9	32.6	424.253	10.6859	256.212	0.02069
11:02:46 AM	703	540527	2404.24	166.047	1.01191	167.311	42.1043	44.8939	994.262	994.718	451.936	2.94417	5.13371	73.8043	433.257	1.47521	24.9003	69.7	378.9	97.9162	76.5	79.8	24.9771	32.6	421.343	10.6792	256.256	0.1064
11:02:47 AM	703	540528	2403.2	165.878	1.01191	167.281	42.099	44.8929	994.264	994.718	452.147	2.68626	5.12301	74.2161	434.249	1.47719	24.9001	69.7	378.9	97.8215	76.5	79.8	24.9958	32.6	418.386	10.6869	256.424	0.06798
11:02:48 AM	703	540529	2404.62	165.654	1.01233	167.275	42.1508	44.9102	994.264	994.718	448.394	2.89884	5.12072	75.0043	434.114	1.47553	25.0372	69.7	378.8	97.804	76.5	79.8	24.9992	32.6	415.4	10.6882	256.598	0.008867
11:02:49 AM	703	540530	2405.32	166.492	1.01248	167.275	42.2037	44.8883	994.264	994.416	455.842	2.92995	5.12454	75.5794	432.795	1.47495	25.0884	69.7	378.8	97.8007	76.5	79.8	24.9999	32.6	412.413	10.6678	256.63	0.017734
11:02:50 AM	703	540531	2403.27	166.211	1.01252	167.36	42.2458	44.8919	994.264	994.416	455.417	2.57206	5.11843	75.3099	434.346	1.48029	25.0978	69.7	378.8	97.8001	76.5	79.8	25	32.6	409.42	10.6661	256.489	0.0798
11:02:51 AM	703	540532	2405.39	165.986	1.01252	167.522	42.2618	44.8975	994.27	994.718	447.948	2.85332	5.12836	75.0014	434.302	1.4826	25.0996	69.7	378.8	98.0439	76.5	79.8	25	32.6	406.411	10.6951	256.248	0.05911
11:02:52 AM	703	540533	2403.8	166.129	1.01252	167.687	42.2712	44.8936	994.27	994.718	458.889	2.68873	5.12225	75.1652	433.747	1.48697	25.0999	69.7	378.8	98.5784	76.5	79.8	25.0718	32.6	403.437	10.6966	256.02	0.1064
11:02:53 AM	703	540534	2404.21	166.121	1.01263	167.782	42.2804	44.887	994.27	994.416	456.053	2.7831	5.12683	75.3493	434.058	1.4903	25.1409	69.7	378.8	98.6775	76.5	79.8	25.0948	32.6	400.437	10.6841	255.892	0.008867
11:02:54 AM	703	540535	2403.02	165.657	1.01279	167.835	42.2926	44.9073	994.272	994.718	455.464	2.79621	5.12149	76.3677	435.45117	1.49117	25.1891	69.72	378.5	98.6958	76.5	79.8	25.099	32.6	397.436	10.7017	255.886	0.026601
11:02:55 AM	703	540536	2404.89	165.863	1.01282	167.847	42.2846	44.8954	994.27	994.718	453.074	2.88551	5.13065	76.2223	433.841	1.49312	25.198	69.8666	378.4	98.6992	76.5	79.8	25.0998	32.6	394.475	10.6976	255.964	0.076847
11:02:56 AM	703	540537	2403.52	165.861	1.01283	167.835	42.2701	44.8932	994.27	994.718	454.372	2.85237	5.12378	75.761	434.184	1.49204	25.1996	69.8938	378.4	98.6999	76.5	79.8	25.1	32.6	391.568	10.6814	256.063	0.1064
11:02:57 AM	703	540538	2402.02	165.471	1.01282	167.788	42.2444	44.8928	994.273	994.718	451.328	2.75967	5.11996	76.0423	435.474	1.4906	25.1999	69.8989	378.4	98.7	76.5	79.8	25.1	32.562	388.542	10.696	256.169	0.065025
11:02:58 AM	703	540539	2403.82	165.776	1.01283	167.722	42.2103	44.9134	994.272	994.416	455.498	2.78355	5.12072	75.917	435.698	1.48866	25.2	69.8998	378.4	98.7	76.5	79.8	25.1	32.43	385.536	10.7045	256.306	0.056158
11:02:59 AM	703	540540	2404.22	165.917	1.01209	167.65	42.1573	44.8966	994.273	994.416	454.899	2.62089	5.12072	76.4399	433.581	1.49187	24.9618	69.9	378.2	98.7	76.5	79.8	25.1	32.4056	382.504	10.7405	256.471	0.153695
11:03:00 AM	703	540541	2404.6	166.832	1.01194	167.587	42.1535	44.9049	994.272	994.718	450.846	2.84225	5.12378	76.2906	434.42	1.49188	24.9114	69.9	378.1	98.7	76.5	79.8	25.1	32.401	379.566	10.732	256.721	0.01182
11:03:01 AM	703	540542	2403.28	166.935	1.01119	167.614	42.1955	44.895	994.272	994.718	453.405	2.96318	5.12225	76.5952	434.82	1.48839	24.9021	69.9	378.1	98.7	76.5	79.81	25.1	32.4002	376.587	10.745	256.951	0.1064
11:03:02 AM	703	540543	2404.05	166.086	1.01119	167.716	42.2642	44.8931	994.272	994.718	452.982	2.68209	5.12454	76.909	436.446	1.48484	24.9004	69.9	378.1	98.4657	76.5	79.8833	25.1	32.4	373.544	10.7786	257.12	0.1064

APPENDIX R: RAW DATA – BF100 BLEND AT 20°BTDC

Manual Log Description : Power Curve on 100%
 biofuel running 20° timing
 Manual Log Start Date :
 2012/03/08
 Manual Log Start Time :
 11:32:49 AM

TIME	mSec	Eng_Ti me	Spee d	Torq ue	~ECE_Corr_ Factor	~Torque _Corr	~Power _Corr	Humi dity	~P_ Baro	P_Pre_Co mpressor	P_Post_Co mpressor	P_Exh aust	P_Oil_ Filter	P_Co ol_In	P_Cool _Out	P_F uel	T_Air_In_ Snorkel	T_Post_Co mpressor	T_Exh aust	T_Oil_ Sump	T_Co ol_In	T_Cool _Out	T_F uel	T_C ell	Fuel_ Mass	Fuel_ Flow	~SFC	Smok e
11:32:51 AM	109	541562	2607.5	211.937	1.01169	214.706	58.6254	44.6825	994.235	994.945	644.789	5.92965	5.14823	90.3687	513.25	1.35991	24.8469	84.7099	417.79	101.688	77.6069	83.1096	25.4003	32.7871	317.412	16.4154	283.475	0.1064
11:32:52 AM	109	541565	2607	211.847	1.01184	214.673	58.6262	44.689	994.232	994.945	649.915	6.05362	5.1467	89.8127	509.069	1.35717	24.8902	84.7833	417.717	101.698	77.4383	82.5395	25.373	32.7976	306.729	16.409	283.717	0
11:32:53 AM	109	541566	2608.46	210.917	1.01186	214.606	58.6048	44.6809	994.231	994.945	649.228	6.07552	5.15205	88.1088	512.324	1.35745	24.8982	84.7969	417.703	101.628	77.4071	82.0185	25.3135	32.8096	301.071	16.3858	283.703	0.1064
11:32:54 AM	109	541567	2608.37	211.122	1.01186	214.478	58.5492	44.6838	994.232	994.945	653.368	6.11983	5.1574	88.3822	509.516	1.356	24.8997	84.7994	417.701	101.605	77.4013	81.922	25.384	32.8832	296.244	16.3641	283.585	0.1064
11:32:55 AM	109	541568	2608.23	211.839	1.01186	214.329	58.4828	44.68	994.231	994.945	650.511	6.15282	5.15663	86.3657	506.558	1.35825	24.8999	84.7999	417.681	101.601	77.4002	81.9041	25.3253	32.8969	291.721	16.3395	283.48	0.124138
11:32:56 AM	109	541569	2608.78	212.948	1.01187	214.243	58.4454	44.6793	994.229	994.945	652.717	6.18647	5.1551	85.8839	509.241	1.35633	24.9	84.8	417.615	101.6	77.4	81.9008	25.3659	32.8994	287.207	16.2735	283.409	0.1064
11:32:57 AM	109	541570	2608.19	213.294	1.01187	214.263	58.4879	44.6791	994.227	994.945	649.283	6.16517	5.15892	84.9345	511.749	1.35253	24.9	84.8	417.603	101.6	78.0738	81.9001	25.3937	32.8999	282.596	16.2629	283.217	0.1064
11:32:58 AM	125	541571	2607.88	212.889	1.01186	214.379	58.6017	44.6791	994.231	994.945	653.321	6.13063	5.14212	87.0542	507.868	1.35821	24.9	84.8	417.601	101.641	78.421	82.4703	25.3988	32.9	277.989	16.3077	282.791	0.1064
11:32:59 AM	109	541572	2607.8	211.968	1.01186	214.54	58.721	44.6826	994.236	994.945	654.065	6.13274	5.136	86.9076	511.467	1.3505	24.9	84.8	417.6	101.69	78.4854	82.576	25.3998	32.9	273.64	16.3121	282.158	0.008867
11:33:00 AM	109	541573	2608.02	212.271	1.01186	214.699	58.7846	44.6889	994.234	994.945	649.163	6.11745	5.136	87.2493	507.486	1.35418	24.9	84.8	417.6	101.698	78.4973	82.5956	25.4	32.9	268.991	16.3445	281.42	0.1064
11:33:01 AM	109	541574	2608.22	212.611	1.01187	214.87	58.7738	44.6912	994.234	994.945	649.516	6.15238	5.14288	87.8785	508.227	1.35708	24.9	84.838	417.744	101.7	78.4995	82.5992	25.4	32.9	264.395	16.2859	280.938	0.1064
11:33:02 AM	109	541575	2608.11	212.416	1.01186	215.026	58.7303	44.6813	994.233	994.945	655.083	6.15885	5.13295	87.7206	510.471	1.35598	24.9	84.97	417.79	101.7	78.6625	82.5998	25.4	32.9	259.887	16.3572	280.776	0.05025
11:33:03 AM	109	541576	2608.16	212.625	1.01187	215.098	58.7	44.6954	994.231	994.945	652.22	6.16005	5.13982	87.3469	512.143	1.35417	24.9	84.9944	417.798	101.7	79.0189	82.7837	25.4	32.9	255.321	16.3149	280.92	0.1064
11:33:04 AM	109	541577	2608.42	212.532	1.01187	215.064	58.7031	44.7165	994.238	994.945	658.087	6.09632	5.13829	85.7852	513.629	1.35061	24.9	84.999	417.8	102.008	79.085	82.8785	25.4	32.8	250.836	16.3984	281.173	0.1064
11:33:05 AM	125	541578	2608.11	212.699	1.01186	214.984	58.7249	44.7001	994.242	994.945	652.274	6.14846	5.13295	87.7817	512.695	1.34756	24.9	84.9998	417.8	102.083	79.0972	82.896	25.4	32.8	246.181	16.383	281.432	0.174384
11:33:06 AM	109	541579	2608.79	212.681	1.01186	214.965	58.7415	44.683	994.238	994.945	661.738	6.18291	5.13524	84.9211	510.581	1.34804	24.9	85	418.061	102.097	79.0995	82.8993	25.4746	32.8	241.634	16.4451	281.656	0.1064
11:33:07 AM	109	541580	2607.51	213.076	1.01185	215.026	58.7576	44.6798	994.241	994.945	658.408	6.16451	5.12072	85.1217	511.199	1.34642	24.9	85	418.256	102.099	79.0999	82.8999	25.4953	32.8	237.067	16.4786	281.921	0.1064
11:33:08 AM	109	541581	2608.33	212.152	1.01186	215.103	58.7714	44.7006	994.239	994.945	652.776	6.1611	5.13906	85.2361	510.332	1.34784	24.9	85	418.292	102.1	78.5259	82.7916	25.4991	32.8	232.536	16.4728	282.296	0.1064

11:33:09 AM	109	54158 2	2608 11	212 593	1.01186	215.134	58.775 9	44.6 831	994 239	994.945	653.702	6.182 55	5.1375 3	86.07 89	509.64 7	1.34 682	24.9	85	418.2 98	101.91 6	78.34 19	82.554	25.4 998	32.8	228.0 46	16.44 01	282. 675	0.106 4
11:33:10 AM	109	54158 3	2607 43	211 908	1.01185	215.118	58.758 3	44.6 798	994 239	994.945	650.539	6.100 49	5.1237 8	85.44 15	508.17 9	1.34 686	24.9	85	418.3	101.82 2	78.30 78	82.51	25.5	32.8 771	223.5 43	16.43 63	283. 02	0.047 291
11:33:11 AM	109	54158 4	2607 79	211 538	1.01186	215.066	58.716	44.6 867	994 237	994.945	652.702	6.149 24	5.1398 2	83.55 17	508.27 6	1.34 672	24.9	85	418.3	101.80 4	78.30 14	82.501 9	25.5 815	32.8 958	219.0 45	16.41 33	283. 279	0.106 4
11:33:12 AM	109	54158 5	2608 82	212 013	1.01186	214.963	58.656 5	44.6 888	994 235	994.945	658.682	6.158 27	5.1375 3	83.71 51	507.69 2	1.34 647	24.9	85.041	418.2 19	101.80 1	78.30 03	82.500 3	25.5 966	32.8 992	214.5 66	16.39 85	283. 402	0.029 56
11:33:13 AM	109	54158 6	2608 42	212 395	1.01187	214.838	58.604 3	44.6 983	994 232	994.945	657.684	6.159 94	5.1291 3	85.55 4	505.00 4	1.34 757	24.9	85.0891	418.2 03	101.8	77.62 18	82.500 1	25.5 994	32.8 999	210.0 4	16.39 57	283. 441	0.017 734
11:33:14 AM	109	54158 7	2607 9	212 21	1.01186	214.731	58.591 8	44.6 915	994 235	994.945	650.066	6.160 25	5.1298 9	83.77 96	505.41 1	1.34 946	24.9	85.098	418.2 01	101.95 2	77.11 52	81.854 2	25.5 999	32.9	205.4 79	16.36 89	283. 422	0.106 4
11:33:15 AM	109	54158 8	2607 97	212 081	1.01186	214.664	58.600 9	44.6 814	994 233	994.945	646.016	6.160 31	5.1337 1	83.57 93	506.35 6	1.35 475	24.9	85.0996	418.2	102.48 14	77.02 14	81.647 1	25.6	32.9	200.9 3	16.36 98	283. 312	0.038 424
11:33:16 AM	109	54158 9	2607 97	211 689	1.01186	214.603	58.614 7	44.6 795	994 235	994.945	653.139	6.108 52	5.1268 3	83.12 36	505.21 7	1.35 765	24.9	85.0999	418.2	102.57 8	77.00 4	81.608 7	25.6	32.9	196.4 53	16.34 02	283. 15	0.076 847
11:33:17 AM	109	54159 0	2607 17	211 448	1.01186	214.546	58.611 9	44.6 792	994 232	994.945	655.905	6.112 96	5.1291 3	83.79 69	505.44 7	1.35 771	24.9	85.1	418.1 35	102.59 6	77.00 07	81.601 6	25.6 771	32.9	191.9 49	16.27 62	282. 924	0.106 4
11:33:18 AM	109	54159 1	2607 84	210 8	1.01187	214.491	58.569 3	44.6 84	994 228	994.945	645.431	6.094 54	5.1260 7	83.66 85	504.86 9	1.35 729	24.9	85.1	418.1 06	102.59 9	77.00 01	81.600 3	25.6 958	32.9	187.4 02	16.25 56	282. 603	0.144 828
11:33:19 AM	125	54159 2	2609 03	212 154	1.01187	214.414	58.505 6	44.6 893	994 227	994.945	652.523	6.136 4	5.1352 4	82.38 44	504.08 3	1.35 31	24.9	85.1	418.1 01	102.6	77	81.459 5	25.6 992	32.9	182.9 05	16.26 35	282. 31	0.106 4
11:33:20 AM	109	54159 3	2608 56	212 765	1.01187	214.333	58.471 3	44.6 81	994 223	994.945	662.414	6.234 85	5.1291 3	82.33 61	505.92 8	1.35 192	24.9	85.1	418.1	102.6	77	81.329 6	25.6 999	32.9 2	178.3 44	16.28 46	282. 014	0.050 25
11:35:32 AM	125	54172 5	2404 33	218 863	1.01196	222.439	55.995 3	44.7 583	994 177	995.171	566.51	5.019 5	4.9900 7	90.80 17	456.03 3	1.48 827	24.9	80.1	412.6 01	105.37 3	75.89 63	80	25.8 797	33.3	311.6 54	15.42 95	280. 162	0.106 4
11:35:33 AM	109	54172 6	2403 86	219 16	1.01196	222.366	55.980 2	44.7 639	994 181	994.945	561.73	4.974 73	4.9847 2	89.48 78	456.84 3	1.48 821	24.9	80.1	412.6	105.39 5	75.89 93	80	25.8 276	33.3	307.3 93	15.42 29	279. 906	0.115 271
11:35:34 AM	109	54172 7	2404 36	218 998	1.01195	222.234	55.932 9	44.7 466	994 184	995.171	560.453	4.833 73	4.9862 5	90.47 74	454.17 8	1.48 927	24.9	80.1	412.4 78	105.39 9	75.89 99	80	25.8 051	33.3	303.2 11	15.43 56	279. 665	0.106 4
11:35:35 AM	109	54172 8	2404 97	219 719	1.01194	222.144	55.877 1	44.7 378	994 184	995.171	564.907	4.985 63	4.9854 8	90.43 7	455.39 6	1.49 304	24.9	80.0206	412.4 14	105.4	75.9	80	25.8 009	33.3	298.9 81	15.41 26	279. 501	0.097 54
11:35:36 AM	109	54172 9	2403 85	219 644	1.01194	222.101	55.850 8	44.7 376	994 187	995.171	570.832	5.031 66	4.9839 5	90.89 28	454.06 2	1.49 682	24.9	80.0038	412.4 03	105.4	75.73 71	80	25.8 002	33.3	294.7 01	15.37 417	279. 417	0.059 11
11:35:37 AM	109	54173 0	2403 83	219 248	1.01194	222.046	55.866 7	44.7 476	994 19	995.171	568.24	4.989 27	4.9816 6	90.98 95	456.01 5	1.49 478	24.9	80.0007	412.4	105.54 4	75.70 69	80	25.8	33.3	290.4 89	15.33 88	279. 341	0.085 714
11:35:38 AM	109	54173 1	2404 11	219 565	1.01194	221.972	55.899	44.7 417	994 192	994.945	564.011	5.071 46	4.9809	91.01 92	454.05 3	1.48 69	24.9	80.0001	412.4	105.59	75.70 13	80	25.8	33.3	286.2 84	15.31 03	279. 113	0.106 4
11:35:39 AM	109	54173 2	2404 55	219 639	1.01193	221.946	55.912	44.7 394	994 192	995.171	565.077	4.988 89	4.9862 5	90.75 07	456.19 3	1.47 397	24.9	80	412.3 19	105.59 8	75.70 02	80	25.8	33.3	282.1 18	15.28 01	278. 68	0.106 4
11:35:40 AM	109	54173 3	2404 54	220 062	1.01194	222.008	55.922 5	44.7 592	994 198	994.945	570.904	4.973 59	4.9870 1	91.34 87	454.54 5	1.46 322	24.9	80	412.1 41	105.6	75.7	80	25.8	33.3	277.8 91	15.20 97	278. 117	0.106 4
11:35:41 AM	109	54173 4	2403 88	220 005	1.01193	222.134	55.941 7	44.7 503	994 199	995.171	563.149	5.011 54	4.9839 5	90.45 87	452.25 1	1.45 459	24.9	80	412.1 08	105.6	75.7	80	25.8	33.3	273.6 76	15.21 21	277. 401	0.106 4
11:35:42 AM	109	54173 5	2404 28	219 9	1.01194	222.247	55.977	44.7 637	994 198	995.171	564.839	5.089 64	4.9931 2	90.65 07	454.01 3	1.45 037	24.9	80	412.1 01	105.6	75.7	79.920 6	25.8	33.3	269.4 93	15.21 26	276. 677	0.056 158
11:35:43 AM	109	54173 6	2404 19	219 724	1.01192	222.317	56.014 5	44.7 557	994 206	995.171	566.197	5.090 61	4.9862 5	89.61 91	454.81 5	1.45 601	24.9	80	412.1	105.6	75.7	79.903 8	25.8	33.3	265.2 5	15.23 56	275. 982	0.106 4
11:35:44 AM	109	54173 7	2404 67	219 905	1.01192	222.35	56.027 7	44.7 463	994 21	994.945	562.82	5.033 23	4.9801 3	89.64 8	455.86 1	1.46 023	24.9	80	412.1	105.6	75.7	79.900 7	25.8	33.3	261.0 83	15.20 28	275. 454	0.106 4

11:35:45 AM	109	54173 8	2404. 95	219. 793	1.01193	222.404	56.021 4	44.7 539	994. 204	995.171	564.233	5.022 59	4.9824 3	89.05 31	455.64 3	1.46 215	24.9	79.962	412.1	105.6	75.7	79.900 1	25.8	33.3	256.9 34	15.21 47	275. 082	0.133 005
11:35:46 AM	125	54173 9	2404. 33	220. 004	1.01194	222.457	56.008 3	44.7 676	994. 199	994.945	570.185	5.020 62	4.9862 5	90.53 73	453.85 6	1.46 496	24.9	79.83	412.1	105.6	75.7	79.9	25.8	33.3	252.5 62	15.23 51	274. 914	0.106 4
11:35:47 AM	109	54174 0	2403. 79	220. 069	1.01194	222.483	56.007 6	44.7 701	994. 2	995.171	566.248	4.951 18	4.9831 9	90.71 91	453.81 8	1.46 261	24.9	79.8056	412.1	105.6	75.7	79.9	25.8	33.3	248.3 32	15.24 03	274. 913	0.017 734
11:35:48 AM	109	54174 1	2404. 39	219. 466	1.01193	222.478	56.014 5	44.7 591	994. 199	994.945	569.879	5.007 39	4.9893 8	91.47 83	456.54 6	1.46 628	24.9	79.801	412.1	105.6	75.7	79.9	25.8	33.3	244.0 27	15.25 61	274. 974	0.106 4
11:35:49 AM	109	54174 2	2403. 89	219. 515	1.01193	222.446	56.013 5	44.7 602	994. 198	994.945	569.666	5.017 81	4.9854 8	91.83 89	453.29 1	1.47 32	24.9	79.8002	412.1	105.6	75.7	79.9	25.8	33.1	239.7 88	15.24 21	275. 091	0.133 005
11:35:50 AM	109	54174 3	2404. 06	219. 241	1.01194	222.404	55.994 4	44.7 521	994. 192	994.945	569.619	5.019 74	4.9816 6	91.77 05	456.43 5	1.47 807	24.9	79.8	411.9 43	105.6	75.7	79.9	25.8	33.1	235.5 68	15.27 99	275. 228	0.106 4
11:35:51 AM	109	54174 4	2403. 92	219. 234	1.01193	222.355	55.962 4	44.7 407	994. 192	995.171	564.869	5.020 09	4.9717 3	90.90 77	455.22 2	1.48 483	24.9	79.8	411.8 27	105.6	75.7	79.9	25.8	33.1	231.3 29	15.31 48	275. 424	0.144 828
11:35:52 AM	109	54174 5	2404. 76	219. 473	1.01194	222.291	55.926 5	44.7 651	994. 196	995.171	570.537	5.107 9	4.9809 3	92.05 16	455.11 3	1.48 552	24.9	79.8	411.8 05	105.6	75.7	79.919	25.8	33.1	227.0 39	15.32 56	275. 742	0.076 847
11:35:53 AM	125	54174 6	2404. 27	220. 098	1.01195	222.227	55.913 5	44.7 668	994. 192	994.945	570.972	5.036 43	4.9809 02	91.39 02	454.50 2	1.48 576	24.9	79.8	411.8 01	105.66 1	75.7	79.985	25.8	33.1	222.8 34	15.31 63	276. 132	0.115 271
11:35:54 AM	109	54174 7	2404. 82	219. 408	1.01194	222.187	55.928 1	44.7 616	994. 193	995.171	564.884	5.166 11	4.9816 6	91.42 09	453.46 8	1.48 459	24.9	79.8	411.8 3	105.69 3	75.7	79.997 2	25.8	33.1	218.5 75	15.33 08	276. 552	0.106 4
11:35:55 AM	109	54174 8	2404. 62	219. 255	1.01194	222.168	55.947 2	44.7 641	994. 195	995.171	567.585	5.047 22	4.9793 7	90.47 82	455.74 2	1.48 361	24.9	79.8	411.8 9	105.69 9	75.7	79.999 5	25.8	33.1	214.4 1	15.33 73	276. 874	0.106 4
11:35:56 AM	109	54174 9	2404. 61	219. 41	1.01195	222.134	55.951 9	44.7 655	994. 19	994.945	567.881	4.854 42	4.9847 2	91.29 76	455.22 4	1.48 401	24.9	79.7531	411.7 19	105.7	75.7	79.999 9	25.8	33.1	210.2 01	15.32 23	277. 089	0.106 4
11:35:57 AM	109	54175 0	2403. 81	219. 433	1.01194	222.116	55.936 8	44.7 583	994. 194	995.171	565.823	4.989 46	4.9824 3	90.93 56	455.73 4	1.48 711	24.9	79.7098	411.7 03	105.7	75.7	80	25.8	33.1	205.9 68	15.30 94	277. 188	0.106 4
11:35:58 AM	109	54175 1	2404. 23	218. 906	1.01194	222.116	55.909 1	44.7 684	994. 194	994.945	568.373	5.014 48	4.9839 5	90.72 44	456.93 8	1.49 099	24.9	79.7018	411.7 01	105.7	75.7	79.928 2	25.8	33.1	201.6 81	15.30 11	277. 238	0.056 158
11:35:59 AM	109	54175 2	2404. 3	218. 89	1.01194	222.089	55.879 2	44.7 546	994. 196	995.171	570.061	5.019 12	4.9847 2	91.46 01	454.54 8	1.49 49	24.9	79.7003	411.7 01	105.7	75.7	79.905 2	25.8	33.1	197.4 44	15.30 15	277. 26	0.106 4
11:36:00 AM	125	54175 3	2404. 45	219. 342	1.01194	221.988	55.855 9	44.7 677	994. 197	994.945	564.253	5.019 98	4.9847 2	91.87 98	455.52 2	1.49 862	24.9	79.7001	411.7 01	105.7	75.7	79.901	25.8	33.1	193.2 34	15.32 49	277. 281	0.065 025
11:36:01 AM	109	54175 4	2404. 38	219. 281	1.01195	221.894	55.839 3	44.7 701	994. 195	994.945	562.176	5.020 14	4.9900 7	91.87 17	455.30 8	1.49 514	24.9	79.7	411.5 05	105.7	75.7	79.900 2	25.8	33.1	189.0 18	15.30 85	277. 327	0.162 562
11:37:20 AM	109	54183 3	2200. 8	245. 793	1.01198	248.96	57.360 6	44.8 132	994. 181	994.945	525.484	5.023 8	4.7707 8	103.6 09	412.74 6	1.51 773	24.9	76.9006	421.7	104.66 1	75.6	80	25.7	32.9	278.6 28	15.28 6	269. 562	0.067 98
11:37:21 AM	109	54183 4	2200. 75	245. 537	1.01199	248.924	57.357 6	44.8 585	994. 186	994.945	532.815	5.032 44	4.7684 9	104.0 2	413.99 7	1.51 533	24.9	76.9001	421.7 1	104.61 1	75.6	80	25.7	32.9	274.4 01	15.30 26	269. 502	0.106 4
11:37:22 AM	109	54183 5	2200. 39	245. 632	1.01197	248.874	57.350 6	44.8 328	994. 194	994.945	529.652	4.795 53	4.7608 5	104.2 65	413.22 2	1.51 273	24.9	76.9	421.6 35	104.60 2	75.6	80	25.7	32.9	270.2 42	15.27 75	269. 485	0.076 847
11:37:23 AM	109	54183 6	2200. 82	245. 012	1.01197	248.802	57.328 8	44.8 408	994. 196	994.945	534.138	4.978 55	4.7684 9	104.9 29	414.13 57	1.51 57	24.9	76.9	421.6 06	104.6	75.6	80	25.7	32.9	265.9 81	15.26 58	269. 519	0.106 4
11:37:24 AM	125	54183 7	2201. 73	245. 329	1.01198	248.71	57.293 1	44.8 685	994. 197	994.945	530.733	4.882 49	4.7654 3	104.7 42	413.03 2	1.51 072	24.9	76.9	421.6 01	104.6	75.6	80	25.7	32.9	261.7 97	15.26 37	269. 647	0.011 82
11:37:25 AM	109	54183 8	2201. 49	244. 995	1.01197	248.607	57.252 1	44.8 521	994. 195	994.945	537.132	4.953 87	4.7623 8	105.4 27	411.95 9	1.51 238	24.9	76.9	421.6 7	104.67 7	75.6	80	25.7	32.9	257.6 03	15.26 32	269. 765	0.106 4
11:37:26 AM	109	54183 9	2200. 88	245. 471	1.01199	248.474	57.219 5	44.8 852	994. 194	994.945	528.521	4.938 82	4.7654 3	104.9 33	414.63 8	1.51 213	24.9	76.9	421.6 6	104.69 6	75.6	80	25.7	33.1	253.4 03	15.24 81	269. 863	0.124 138
11:37:27 AM	109	54184 0	2201. 3	245. 132	1.01199	248.365	57.211 1	44.8 733	994. 189	994.945	530.346	5.011 44	4.7616 1	105.7 01	415.48 1	1.51 62	24.9	76.9	421.5 18	104.69 9	75.6	80	25.8	33.1	249.1 56	15.23 69	269. 915	0.106 4
11:37:28 AM	109	54184 1	2200. 73	244. 474	1.01199	248.276	57.204 2	44.8 518	994. 18	994.945	526.477	5.018 56	4.7555 09	106.2 09	414.16 9	1.50 997	24.9	76.8349	421.4 22	104.7	75.6	80	25.8	33.1	244.9 38	15.22 59	269. 893	0.085 714

11:37:29 AM	109	54184 2	2200. 86	244. 797	1.01201	248.177	57.193 5	44.8 851	994. 176	994.945	530.507	5.019 88	4.7623 8	105.7 03	414.64 2	1.51 294	24.9	76.8065	421.4 04	104.7	75.6	80	25.8	33.1 997	240.7 38	15.22 7	269. 827	0.106 4
11:37:30 AM	109	54184 3	2200. 49	244. 878	1.012	248.074	57.163 2	44.8 481	994. 168	994.945	526.15	5.020 12	4.7623 8	105.0 91	414.15 8	1.52 095	24.9	76.8012	421.4 01	104.88 7	75.6	80	25.8	33.2	236.4 97	15.22 7	269. 74	0.076 847
11:37:31 AM	125	54184 4	2200. 83	244. 41	1.012	247.993	57.124 4	44.8 33	994. 166	994.945	531.748	4.907 64	4.7631 4	104.9 57	413.11 6	1.52 041	24.9	76.8002	421.4	105.06 1	75.6	80	25.8	33.1 282	232.3 13	15.21 12	269. 694	0.026 601
11:37:32 AM	109	54184 5	2200. 67	245. 026	1.01202	247.928	57.097 3	44.8 629	994. 16	995.171	531.665	4.999 32	4.7593 2	104.9 16	415.21	1.53 078	24.9	76.8	421.4	105.09 3	75.6	80	25.8	33.1 052	228.1 07	15.20 3	269. 684	0.144 828
11:37:33 AM	109	54184 6	2201. 03	245. 049	1.01202	247.843	57.084 8	44.8 435	994. 157	994.945	535.304	5.073 87	4.7654 3	105.5 33	415.44 7	1.52 157	24.9	76.8	421.2 51	105.09 9	75.6	80	25.8	33.1 01	223.9 63	15.22 13	269. 717	0.106 4
11:37:34 AM	109	54184 7	2201. 38	244. 989	1.01203	247.775	57.094 1	44.8 738	994. 153	995.171	529.541	5.030 13	4.7662 35	105.0 35	414.30 9	1.52 529	24.9	76.8	421.2 09	105.1	75.6	80	25.8	33.1 002	219.7 9	15.17 32	269. 725	0.056 158
11:37:35 AM	109	54184 8	2201. 21	245. 2	1.01204	247.756	57.112 9	44.8 598	994. 148	994.945	529.305	4.959 85	4.7616 1	106.1 54	414.34 3	1.52 505	24.9	76.8	421.2 02	105.06	75.6	80	25.8	33.1	215.4 95	15.18 27	269. 636	0.106 4
11:37:36 AM	109	54184 9	2200. 65	245. 534	1.01203	247.802	57.137	44.8 549	994. 15	995.171	533.673	5.009	4.7669 6	105.3 49	413.85 6	1.51 961	24.9	76.8	421.2	104.76 7	75.6	80	25.8	33.1 469	211.2 98	15.14 84	269. 485	0.047 291
11:37:37 AM	109	54185 0	2201. 12	245. 043	1.01205	247.885	57.170 4	44.8 625	994. 144	994.945	529.63	5.105 84	4.7631 4	104.3 78	414.50 8	1.52 734	24.9	76.8	421.2	104.71 2	75.6	80	25.8	33.1 902	207.1 71	15.16 49	269. 206	0.106 4
11:37:38 AM	125	54185 1	2201. 23	245. 399	1.01205	247.976	57.194 4	44.8 639	994. 139	994.945	525.085	5.036 05	4.7600 9	105.4 4	413.98 8	1.52 828	24.9	76.8	421.3 04	104.70 2	75.6	80	25.8	33.1 982	202.8 69	15.18 58	268. 898	0.076 847
11:37:39 AM	109	54185 2	2201. 02	245. 547	1.01205	248.07	57.211 8	44.8 652	994. 135	994.945	523.744	5.066 79	4.7600 9	105.6 82	415.72 5	1.52 545	24.9	76.8	421.3 82	104.7	75.6	80	25.8	33.1 997	198.7 53	15.16 78	268. 637	0.106 4
11:37:40 AM	109	54185 3	2201. 15	245. 424	1.01207	248.168	57.227 5	44.8 876	994. 135	994.945	531.53	5.028 81	4.7639 1	105.7 07	413.69 2	1.53 201	24.9	76.8	421.3 97	104.7	75.44 58	80	25.8	33.1 999	194.5 96	15.14 77	268. 439	0.076 847
11:37:41 AM	109	54185 4	2200. 43	245. 191	1.01207	248.248	57.237 7	44.8 918	994. 133	995.171	531.939	5.021 78	4.7662 105.4	413.01 1	1.53 276	24.9	76.8	421.3 99	104.96 1	75.40 85	80	25.8	33.2	190.3 94	15.16 26	268. 317	0.106 4	
11:37:42 AM	109	54185 5	2200. 9	244. 831	1.01206	248.288	57.233 6	44.8 756	994. 134	994.945	528.358	4.903 49	4.7616 1	105.3 57	412.71 2	1.52 803	24.9	76.8	421.4	105.07 4	75.40 16	80	25.8	33.2	186.1 98	15.15 26	268. 232	0.026 601
11:37:43 AM	109	54185 6	2200. 77	245. 063	1.01205	248.265	57.218 3	44.8 623	994. 141	994.945	529.798	5.141 47	4.7562 7	104.5 52	414.67 2	1.53 322	24.9	76.8	421.4	105.09 5	75.40 03	80	25.8	33.2	182.0 31	15.14 38	268. 152	0.174 384
11:37:44 AM	109	54185 7	2201. 15	245. 327	1.01205	248.225	57.196 6	44.8 659	994. 143	994.945	531.923	5.042 65	4.7608 5	104.0 98	414.35 6	1.53 649	24.9	76.6775	421.4	105.09 9	75.40 01	80	25.8	33.2	177.8 41	15.17 58	268. 106	0.106 4
11:37:45 AM	125	54185 8	2201. 31	244. 959	1.01205	248.199	57.178 7	44.8 566	994. 138	994.945	524.427	5.121 82	4.7646 7	105.0 99	413.07 4	1.53 857	24.9	76.6144	421.4	105.1	75.4	80	25.8	33.2	173.7 16	15.14 13	268. 126	0.106 4
11:37:46 AM	109	54185 9	2201. 05	245. 267	1.01205	248.161	57.175 5	44.8 652	994. 136	994.945	524.273	5.039 01	4.7608 5	104.4 05	413.98 9	1.53 955	24.9	76.6027	421.4	105.1	75.4	80	25.8	33.2	169.4 54	15.13 54	268. 158	0.106 4
11:37:47 AM	109	54186 0	2200. 79	245. 225	1.01206	248.119	57.184 1	44.8 446	994. 129	995.171	531.729	5.023 67	4.7616 1	104.8 76	413.64 5	1.53 932	24.9	76.6005	421.4	105.1	75.50 43	80	25.8	33.2	165.2 14	15.16 84	268. 185	0.020 69
11:37:48 AM	109	54186 1	2200. 64	244. 972	1.01205	248.097	57.193 1	44.8 451	994. 128	995.171	530.859	5.078 39	4.7585 6	105.3 69	412.98 7	1.53 935	24.9	76.6001	421.4	105.00 5	75.58 23	80	25.8	33.2	161.1 04	15.16 32	268. 199	0.106 4
11:37:49 AM	109	54186 2	2201. 01	245. 071	1.01208	248.095	57.193 5	44.8 839	994. 124	994.945	535.277	4.824 98	4.7570 3	105.0 96	414.32	1.54 014	24.9	76.6	421.4	104.67 5	75.59 67	80	25.8	33.2 522	156.9 39	15.14 85	268. 158	0.192 118
11:39:42 AM	109	54197 5	2012. 67	258. 142	1.01263	261.304	55.087	44.8 909	994. 177	994.945	452.103	7.602 29	4.5721 3	115.4 15	381.60 1	1.53 95	25.1	71.2013	426.3	104.22 5	75.49 38	80.1	25.5	33.2	329.2 84	14.36 89	265. 25	0.106 4
11:39:43 AM	109	54197 6	2012. 71	257. 519	1.01262	261.33	55.097	44.8 924	994. 183	994.945	445.361	7.582 28	4.5767 1	115.1 95	380.41 6	1.54 235	25.1	71.2002	426.3	104.20 5	75.49 89	80.1	25.5	33.2	325.1 96	14.36 2	265. 009	0.106 4
11:39:44 AM	125	54197 7	2012. 65	257. 106	1.01194	261.292	55.048 5	44.9 018	994. 183	994.945	453.894	7.617 14	4.5744 2	115.6 24	381.17 5	1.53 952	24.8763	71.2	426.3	104.20 1	75.49 98	80.1	25.5	33.2	321.2 55	14.37 46	264. 726	0.026 601
11:39:45 AM	109	54197 8	2012. 88	257. 215	1.01174	261.181	54.998 8	44.8 963	994. 185	994.945	454.877	7.621 58	4.5675 4	115.7 14	379.83 3	1.53 223	24.8141	71.2	426.3	104.2	75.5	80.1	25.5	33.2	317.3 43	14.37 18	264. 515	0.106 4
11:39:46 AM	109	54197 9	2012. 97	257. 282	1.01171	261.034	54.941 8	44.9 108	994. 186	994.945	455.332	7.619 84	4.5805 3	115.7 22	382.13 8	1.53 437	24.8026	71.2	426.3	104.2	75.5	80.1	25.5	33.2	313.3 18	14.36 38	264. 407	0.047 291

11:39:47 AM	109	54198 0	2012. 76	257. 005	1.01171	260.853	54.893 6	44.9 044	994. 178	994.945	457.28	7.662 05	4.5683 1	115.8 03	380.98 2	1.54 168	24.8005	71.2	426.3	104.15 3	75.5	80.1	25.5	33.2	309.2 76	14.37 22	264. 465	0.106 4
11:39:48 AM	109	54198 1	2012. 43	256. 703	1.01171	260.64	54.856 3	44.8 949	994. 173	995.171	454.558	7.558 57	4.5728 9	114.6 17	380.67 9	1.54 918	24.8001	71.2	426.3	104.11	75.5	80.1	25.5	33.2	305.2 94	14.39 48	264. 65	0.106 4
11:39:49 AM	109	54198 2	2012. 23	256. 156	1.01217	260.393	54.846	44.8 931	994. 182	994.945	455.37	7.574 18	4.5721 3	115.9 01	379.14 8	1.56 954	24.9565	71.2	426.3	104.10 2	75.5	80.1	25.5	33.2	301.2 79	14.41 66	264. 882	0.017 734
11:39:50 AM	109	54198 3	2012. 14	255. 847	1.01255	260.157	54.821 4	44.8 947	994. 178	994.945	453.406	7.614 82	4.5820 6	114.8 3	378.94 9	1.58 236	25.0734	71.1729	426.1 41	104.1	75.5	80.1	25.5	33.2	297.3 54	14.41 71	265. 191	0.106 4
11:39:51 AM	109	54198 4	2012. 38	255. 819	1.01262	259.951	54.765 6	44.8 931	994. 176	994.945	452.635	7.525 27	4.5774 8	115.4 47	379.59 5	1.58 328	25.0951	71.1135	426.1 08	104.1	75.41 81	80.1	25.5	33.2	293.3 4	14.38 39	265. 54	0.038 424
11:39:52 AM	109	54198 5	2012. 56	256. 096	1.01264	259.777	54.699 3	44.8 928	994. 169	994.945	452.597	7.723 05	4.5744 2	115.1 03	379.97 3	1.58 699	25.0991	71.1025	426.1 01	104.1	75.32 19	79.969 7	25.5	33.2	289.4 58	14.36 17	265. 936	0.106 4
11:39:53 AM	109	54198 6	2012. 22	256. 238	1.01265	259.615	54.654 2	44.9 032	994. 163	994.945	445.643	7.628 92	4.5698 4	115.1 53	379.67	1.58 232	25.0998	71.1005	426.1	104.33 8	75.30 41	79.912 9	25.5	33.0	285.5 26	14.32 16	266. 264	0.038 424
11:39:54 AM	109	54198 7	2012. 23	255. 585	1.0126	259.476	54.629 9	44.8 947	994. 157	994.945	455.961	7.717 82	4.5736 6	115.9 68	379.35 1	1.56 091	25.07	71.1001	426.1	104.38 9	75.30 08	79.902 4	25.5	32.9	281.5 12	14.28 53	266. 366	0.106 4
11:39:55 AM	109	54198 8	2016. 37	255. 418	1.01189	259.315	54.584 6	44.8 931	994. 16	994.945	452.342	7.650 31	4.5736 6	115.0 93	378.45 5	1.54 366	24.85	71.1	425.8 72	104.39 8	75.30 01	79.900 4	25.5	32.9	277.6 02	14.33 01	266. 228	0.106 4
11:39:56 AM	109	54198 9	2013. 22	255. 099	1.01175	259.123	54.566 8	44.8 74	994. 162	995.171	447.016	7.628 43	4.5767 1	115.1 33	379.62 3	1.52 612	24.8093	70.9508	425.7 32	104.4	75.3	79.900 1	25.5	32.9	273.7 09	14.30 41	265. 94	0.097 54
11:39:57 AM	109	54199 0	2012. 56	255. 532	1.01173	258.947	54.533 1	44.8 976	994. 159	994.945	452.674	7.675 85	4.5721 3	114.6 66	379.12 7	1.51 829	24.8017	70.9094	425.7 06	104.4	75.3	79.9	25.5	32.9	269.7 87	14.23 72	265. 62	0.059 11
11:39:58 AM	109	54199 1	2012. 48	255. 858	1.01173	258.827	54.500 3	44.8 89	994. 16	994.945	446.96	7.696 7	4.5721 3	115.9 99	379.16 7	1.51 38	24.8003	70.9017	425.7 01	104.33 9	75.3	79.9	25.5	32.9	265.8 72	14.16 98	265. 357	0.017 734
11:39:59 AM	109	54199 2	2012. 99	255. 953	1.01174	258.746	54.485 2	44.9 004	994. 156	995.171	449.477	7.687 47	4.579	115.5 92	381.52 6	1.51 655	24.8001	70.9003	425.7	104.30 7	75.3	79.9	25.5	32.9	261.9 39	14.13 31	265. 07	0.106 4
11:40:00 AM	109	54199 3	2012. 83	256. 316	1.01235	258.688	54.537 1	44.8 852	994. 155	994.945	451.545	7.854 22	4.5698 4	115.6 84	381.80 7	1.53 5	25.0059	70.9001	425.6 24	104.30 1	75.3	79.9	25.5	32.9	257.9 83	14.07 91	264. 57	0.106 404
11:40:01 AM	109	54199 4	2012. 23	255. 836	1.01261	258.713	54.589	44.8 913	994. 151	994.945	453.902	7.714 99	4.5751 8	115.3 84	380.17 4	1.54 835	25.0826	70.9	425.3 6	104.3	75.3	79.9	25.5	32.9	254.0 14	14.09 39	263. 814	0.106 4
11:40:02 AM	109	54199 5	2012. 6	255. 535	1.01265	258.798	54.62	44.8 925	994. 153	994.945	451.926	7.704 1	4.5797 7	115.8 18	378.56 4	1.56 058	25.0968	70.9	425.3 11	104.3	75.40 43	79.9	25.5	32.9	250.0 8	14.10 08	262. 99	0.106 4
11:40:03 AM	109	54199 6	2012. 41	255. 161	1.01266	258.887	54.619 9	44.8 927	994. 157	994.945	448.16	7.609 04	4.579	115.3 19	379.33	1.57 031	25.0994	70.9	425.3 02	104.3	75.48 23	79.977 1	25.5	32.9	246.1 4	14.13 5	262. 201	0.011 82
11:40:04 AM	109	54199 7	2012. 56	255. 185	1.01266	258.923	54.586 6	44.8 967	994. 155	994.945	451.823	7.661 76	4.5774 8	115.3 23	381.83 9	1.56 314	25.0999	70.9	425.3	104.3	75.49 67	79.995 8	25.5	33.0	242.2 73	14.11 67	261. 731	0.106 4
11:40:05 AM	125	54199 8	2012. 99	255. 511	1.01266	258.915	54.543 3	44.8 935	994. 154	994.945	449.788	7.626 42	4.5774 8	115.8 14	379.67 5	1.55 595	25.1	70.9	425.3	104.3	75.49 94	79.999 2	25.5	33.1	238.3 76	14.04 4	261. 634	0.124 138
11:40:06 AM	109	54199 9	2012. 68	255. 892	1.01266	258.876	54.512 7	44.8 929	994. 155	994.945	448.965	7.665 96	4.5736 6	115.5 59	379.35 1	1.54 683	25.1	70.9	425.3	104.3	75.49 99	79.999 9	25.5	33.1	234.4 43	14.02 84	261. 689	0.106 4
11:40:07 AM	109	54200 0	2012. 84	255. 75	1.01266	258.818	54.512 9	44.8 928	994. 152	994.945	450.113	7.799 8	4.579	116.4 67	378.37	1.54 014	25.1	70.8185	425.3	104.3	75.5	80	25.5	33.1	230.4 87	14.09 18	261. 729	0.011 82
11:40:08 AM	109	54200 1	2012. 19	255. 501	1.01266	258.771	54.535 9	44.8 927	994. 153	995.171	443.335	7.562 3	4.5767 1	116.3 57	378.50 4	1.54 091	25.1	70.8034	425.3	104.3	75.33 71	79.947 8	25.5	33.1	226.5 36	14.13 14	261. 631	0.106 4
11:40:09 AM	109	54200 2	2012. 58	254. 937	1.01266	258.735	54.552	44.8 927	994. 153	994.945	450.388	7.722 71	4.5797 7	116.1 76	380.68 3	1.54 173	25.1	70.8006	425.3	104.3	75.30 69	79.908 9	25.5	33.1	222.6 29	14.14 68	261. 479	0.047 291
11:40:10 AM	109	54200 3	2012. 58	254. 892	1.01267	258.704	54.543 6	44.8 927	994. 147	994.945	442.299	7.582 01	4.5744 2	115.7 46	380.67 7	1.54 596	25.1	70.8001	425.3	104.3	75.30 13	79.901 6	25.5	32.9	218.7 07	14.17 43	261. 496	0.106 404
11:40:11 AM	109	54200 4	2012. 51	254. 567	1.01196	258.642	54.465 3	44.8 869	994. 146	995.171	445.3	7.507 46	4.5782 4	115.7 31	379.69 8	1.54 688	24.8686	70.8	425.1 28	104.3	75.30 02	79.900 3	25.5	32.9	214.8 05	14.18 32	261. 803	0.038 424

11:41:09 AM	109	54206 2	1807. 19	261. 697	1.01271	265.292	50.205 3	44.8 923	994. 116	994.945	358.843	6.613 12	4.3261	125.0 41	348.10 6	1.61 869	25.1	66.2266	426.3 03	103.4	74.77 75	79.8	25.4 013	33.3 001	356.4 64	13.14 13	264. 181	0.106 4
11:41:10 AM	109	54206 3	1806. 83	261. 757	1.01271	265.261	50.196	44.8 95	994. 117	994.945	350.525	6.708 67	4.3299 2	124.7 68	346.86 8	1.61 062	25.1	66.2049	426.3 01	103.4	74.71 44	79.8	25.4 002	33.3	352.8 52	13.11 57	264. 548	0.088 67
11:41:11 AM	109	54206 4	1807. 12	262. 013	1.0127	265.228	50.185 6	44.8 842	994. 115	994.945	351.098	6.726 37	4.3177	125.1 89	346.52 6	1.61 146	25.1	66.2009	426.3	103.4	74.70 27	79.8	25.4	33.2 314	349.2 31	13.14 36	264. 828	0.050 25
11:41:12 AM	109	54206 5	1807. 07	261. 799	1.01271	265.219	50.176 6	44.8 911	994. 112	995.171	354.4	6.729 65	4.3268 6	125.3 69	348.46 5	1.61 53	25.1	66.2002	426.3	103.4	74.70 05	79.8	25.4	33.2 058	345.6 15	13.11 07	264. 992	0.106 4
11:41:13 AM	109	54206 6	1807. 1	261. 794	1.01271	265.199	50.174	44.8 924	994. 11	994.945	372.279	6.692 49	4.3222 8	125.4 93	348.20 4	1.61 302	25.1	66.181	426.0 13	103.4	74.70 01	79.8	25.4	33.2 011	341.9 75	13.09 16	265. 018	0.026 601
11:41:14 AM	109	54206 7	1807. 27	261. 935	1.01271	265.166	50.178	44.8 927	994. 11	995.171	375.38	6.874 08	4.3261	125.3 93	347.17 1	1.61 69	25.1	66.115	425.9 21	103.4	74.75 42	79.8	25.4	33.2 002	338.3 65	13.07 28	264. 939	0.200 985
11:41:15 AM	109	54206 8	1807. 61	261. 957	1.01272	265.139	50.183	44.8 976	994. 109	995.171	377.026	6.992 95	4.3322 1	125.0 78	347.30 8	1.61 736	25.1	66.1028	425.9 04	103.4	74.87 3	79.738 7	25.4	33.2	334.7 25	13.07 9	264. 762	0.106 4
11:41:16 AM	109	54206 9	1807. 7	261. 78	1.01272	265.148	50.187 9	44.8 936	994. 108	994.945	372.614	7.230 05	4.3314 5	124.9 88	347.11 3	1.61 946	25.1	66.1005	425.9 01	103.4	74.89 5	79.707 2	25.4	33.2 688	331.0 82	13.07 22	264. 494	0.029 56
11:41:17 AM	109	54207 0	1807. 46	261. 953	1.01272	265.168	50.191 5	44.8 929	994. 105	994.945	371.202	6.915 39	4.3253 4	125.2 92	345.40 2	1.60 885	25.1	66.1001	425.9	103.4	74.89 91	79.701 3	25.4	33.3 757	327.5 13	13.06 57	264. 226	0.124 138
11:41:18 AM	109	54207 1	1807. 06	262. 11	1.01272	265.18	50.196	44.8 928	994. 105	994.945	353.723	6.644 63	4.3253 4	125.1 46	346.13 2	1.59 967	25.1	66.1	425.8 53	103.4	74.89 98	79.700 2	25.4	33.3 955	323.8 85	13.05 43	264. 001	0.106 4
11:41:19 AM	109	54207 2	1807. 08	262. 04	1.01273	265.202	50.200 8	44.9 054	994. 102	994.945	362.185	6.540 73	4.3299 2	124.4 43	347.96 066	1.59 066	25.1	65.9565	425.8 1	103.4	74.9	79.7	25.4	33.3 992	320.2 21	13.05 36	263. 809	0.085 714
11:41:20 AM	109	54207 3	1807. 22	261. 783	1.01273	265.234	50.205 2	44.8 951	994. 102	995.171	358.261	6.695 25	4.3245 7	124.3 07	346.38 2	1.59 601	25.1	65.9105	425.8 02	103.4	74.9	79.727 1	25.4	33.3 998	316.6 28	13.07 11	263. 659	0.026 601
11:41:21 AM	109	54207 4	1807. 24	261. 979	1.01273	265.259	50.209 4	44.8 932	994. 102	994.945	361.805	6.723 89	4.3245 7	124.3 54	347.25 1	1.61 04	25.1	65.9019	425.8	103.4	74.9	79.786 5	25.4	33.4	312.9 39	13.08 31	263. 56	0.056 158
11:41:22 AM	109	54207 5	1807. 47	261. 829	1.01272	265.266	50.208 7	44.8 848	994. 099	995.171	365.638	6.576 43	4.3283 9	123.7 57	348.18 8	1.61 571	25.1	65.9004	425.8	103.4	74.9	79.797 5	25.4	33.3 229	309.3 56	13.09 27	263. 513	0.038 424
11:41:23 AM	109	54207 6	1807. 13	261. 917	1.01273	265.265	50.203 3	44.8 967	994. 098	995.171	368.321	6.650 06	4.3329 8	124.1 79	346.69 3	1.61 788	25.1	65.9001	425.8	103.4	74.9	79.799 5	25.4	33.3 042	305.7 48	13.09 73	263. 568	0.056 158
11:41:24 AM	109	54207 7	1807. 11	261. 818	1.01273	265.264	50.194 7	44.8 935	994. 098	995.171	368.297	6.715 51	4.3306 8	124.0 45	346.41 8	1.60 976	25.1	65.8591	425.7 19	103.4	74.9	79.799 9	25.4	33.3 008	302.1 01	13.08 99	263. 724	0.133 005
11:41:25 AM	109	54207 8	1807. 37	261. 722	1.01273	265.249	50.189 5	44.9 033	994. 1	995.171	373.467	6.803 65	4.3314 5	124.0 39	346.53 9	1.60 656	25.1	65.8109	425.7 03	103.4	74.95 22	79.8	25.3 59	33.3 001	298.4 82	13.08 95	263. 896	0.026 601
11:41:26 AM	109	54207 9	1807. 38	261. 841	1.01274	265.215	50.186	44.9 103	994. 098	995.171	376.41	7.149 41	4.3276 3	123.5 7	347.07 0	1.60 894	25.1	65.802	425.7 01	103.38	74.99 11	79.8	25.3 109	33.3	294.8 41	13.06 89	264. 053	0.106 4
11:41:27 AM	109	54208 0	1807. 22	262. 118	1.01273	265.188	50.183 1	44.8 96	994. 1	995.171	378.212	6.950 8	4.3322 1	124.0 83	347.14 1	1.60 88	25.1	65.8004	425.7	103.23 3	74.99 84	79.8	25.3 02	33.3	291.2 44	13.06 5	264. 105	0.106 4
11:41:28 AM	109	54208 1	1807. 43	261. 915	1.01273	265.187	50.186 8	44.9 09	994. 101	995.171	378.46	7.116 15	4.3360 3	123.4 95	346.83 9	1.61 494	25.1	65.8001	425.7	103.20 6	74.99 97	79.8	25.3 775	33.3	287.6 8	13.06 43	264. 054	0.106 4
11:41:29 AM	109	54208 2	1807. 12	261. 812	1.01273	265.204	50.191 3	44.9 05	994. 104	995.171	377.774	6.925 62	4.3352 7	123.4 68	346.51 0	1.61 189	25.1	65.8	425.5 05	103.20 1	74.99 99	79.8	25.3 307	33.3	284.0 38	13.04 7	263. 935	0
11:41:30 AM	109	54208 3	1806. 9	261. 843	1.01273	265.214	50.195 9	44.9 025	994. 105	995.171	377.118	7.256 45	4.3322 1	123.6 93	346.18 1	1.61 657	25.1	65.7206	425.4 19	103.2	75	79.8	25.3 057	33.3	280.4 44	13.04 34	263. 759	0.106 4
11:41:31 AM	109	54208 4	1807. 05	261. 576	1.01273	265.214	50.195	44.9 038	994. 104	995.171	372.272	6.982 46	4.3360 3	123.5 32	347.76 4	1.61 781	25.1	65.7038	425.4 04	103.2	75	79.8	25.3 011	33.3	276.8 33	13.02 55	263. 577	0.079 8
11:41:32 AM	109	54208 5	1807. 54	261. 708	1.01273	265.202	50.185 1	44.9 039	994. 102	995.171	375.421	7.262 37	4.3306 8	123.9 89	346.03 9	1.62 25	25.1	65.7007	425.4 01	103.33 7	75	79.8	25.3 002	33.3 1	273.2 41	12.98 41	263. 38	0.106 4
11:41:33 AM	109	54208 6	1807. 06	261. 766	1.01272	265.184	50.173 3	44.8 967	994. 104	995.171	377.809	7.078 3	4.3268 6	123.8 36	345.67 0	1.61 425	25.1	65.7001	425.4	103.38 8	75	79.8	25.3	33.3 833	269.6 64	12.98 91	263. 169	0.106 4
11:41:34 AM	109	54208 7	1807. 16	261. 624	1.01204	265.137	50.128 8	44.8 935	994. 105	994.945	378.115	6.964 28	4.3390 9	123.5 57	345.12 5	1.59 981	24.8763	65.7	425.3 66	103.39 8	75	79.8	25.3	33.3 969	266.0 71	12.99 65	262. 934	0.106 4

11:41:35 AM	109	54208 8	1807. 64	261. 689	1.01183	265.059	50.114 9	44.8 703	994. 106	994.945	379.399	7.131 59	4.3352 7	123.3 56	344.41 9	1.59 83	24.8141	65.5775	425.3 12	103.4	75	79.8	25.3	33.3 994	262.4 87	12.97 9	262. 692	0.106 4
11:41:36 AM	109	54208 9	1807. 23	261. 833	1.0118	264.978	50.113 4	44.8 954	994. 107	994.945	371.455	7.305 05	4.3375 6	123.2 23	346.61 1	1.59 694	24.8026	65.5144	425.3 02	103.4	75	79.8	25.3	33.3 999	258.8 93	12.97 2	262. 481	0.106 4
11:41:37 AM	109	54209 0	1807. 29	261. 738	1.01179	264.914	50.116 9	44.8 932	994. 107	994.945	372.433	7.173 4	4.3291 6	122.3 63	345.99 2	1.60 372	24.8005	65.5027	425.3	103.35 9	75	79.8	25.3	33.4	255.3 31	12.95 59	262. 309	0.106 4
11:41:38 AM	109	54209 1	1807. 33	261. 784	1.01179	264.874	50.121 1	44.9 022	994. 111	995.171	374.333	7.077 01	4.3329 8	122.8 01	346.28 4	1.61 523	24.8001	65.5005	425.3	103.31 1	75	79.8	25.3	33.4	251.7 33	12.94 57	262. 14	0.094 581
11:42:35 AM	109	54214 8	1601. 3	268. 312	1.01179	271.886	45.563 6	44.9 604	994. 13	994.945	330.165	3.020 55	3.9990 8	129.2 99	314.69 7	1.66 011	24.8	63.03	417.6 09	102.6	75.1	80	25.1	33.4	392.0 96	11.86 96	262. 392	0.106 4
11:42:36 AM	109	54214 9	1601. 19	268. 459	1.0118	271.812	45.552 1	44.9 799	994. 128	994.945	331.844	3.101 51	3.9990 8	129.4 39	316.07 1	1.66 325	24.8	63.0056	417.6 02	102.6	75.1	80.061 3	25.1	33.4	388.8 43	11.84 43	262. 699	0.106 4
11:42:37 AM	109	54215 0	1601. 63	268. 49	1.0118	271.727	45.544 3	44.9 799	994. 128	994.945	330.49	3.094 43	4.0097 8	128.7 64	315.61 9	1.67 088	24.8	63.001	417.6	102.43 7	75.1	80.092 8	25.1	33.4	385.5 36	11.83 96	262. 998	0.065 025
11:42:38 AM	109	54215 1	1600. 89	268. 645	1.01184	271.666	45.544 2	44.9 587	994. 129	994.945	326.478	2.967 98	4.0059 6	128.7 92	313.87 5	1.67 236	24.819	63.0002	417.6	102.40 7	75.1	80.098 7	25.1	33.4	382.1 94	11.85 63	263. 211	0.106 4
11:42:39 AM	109	54215 2	1601. 23	268. 588	1.01205	271.65	45.557 7	44.9 512	994. 125	994.945	326.618	3.013 77	4.0052	128.6 52	314.18 3	1.67 958	24.885	63	417.4 44	102.40 1	75.1	80.099 8	25.1	33.4	378.9 59	11.87 7	263. 317	0.026 601
11:42:40 AM	109	54215 3	1601. 17	268. 852	1.0121	271.681	45.568 3	44.9 641	994. 121	994.945	328.026	3.029 8	4.0029	128.3 29	314.41	1.68 55	24.8972	62.9282	417.3 27	102.4	75.1	80.1	25.1	33.4	375.7 04	11.84 75	263. 343	0.106 4
11:42:41 AM	109	54215 4	1601. 14	268. 777	1.01212	271.727	45.581 4	44.9 654	994. 114	994.945	337.492	3.114 69	4.0082 5	128.8 96	314.12 8	1.68 75	24.8995	62.9052	417.3 05	102.4	75.1	80.1	25.1	33.4	372.3 6	11.85 69	263. 335	0.059 11
11:42:42 AM	109	54215 5	1602. 25	269. 148	1.01213	271.793	45.598 6	44.9 808	994. 114	994.945	326.489	2.934 06	4.0006 1	128.9 48	312.74 2	1.67 846	24.8999	62.901	417.3 01	102.21 6	75.1	80.1	25.1	33.4	369.0 47	11.89 57	263. 33	0.017 734
11:42:43 AM	109	54215 6	1600. 68	268. 68	1.01212	271.875	45.606 8	44.9 692	994. 114	994.945	332.452	2.839 49	3.9998 5	129.5 51	313.77 8	1.68 117	24.9	62.9002	417.3	102.12 2	75.1	80.1	25.1	33.4	365.7 51	11.86 65	263. 35	0.106 4
11:42:44 AM	109	54215 7	1601. 21	268. 681	1.01193	271.944	45.601 1	44.9 723	994. 117	994.945	335.414	3.222 45	4.0059 6	128.5 05	314.48 3	1.69 301	24.8349	62.9	417.2 9	102.10 4	75.1	80.1	25.1	33.4	362.4 79	11.88 13	263. 366	0.085 714
11:42:45 AM	109	54215 8	1601. 53	269. 067	1.01184	271.978	45.600 9	44.9 671	994. 114	994.945	329.312	3.184 65	4.0067 2	128.6 63	313.41 5	1.69 607	24.8065	62.8063	417.2 17	102.10 1	75.1	80.1	25.1	33.4	359.2 03	11.88 26	263. 425	0.026 601
11:42:46 AM	109	54215 9	1601. 54	269. 084	1.01182	272.001	45.602 5	44.9 709	994. 112	994.945	323.954	3.010 2	4.0136	128.5 82	314.57 3	1.70 269	24.8012	62.7197	417.2 03	102.1	75.1	80.1	25.1	33.4	355.9 63	11.89 96	263. 499	0.038 424
11:42:47 AM	109	54216 0	1601. 51	269. 312	1.01182	272.048	45.620 9	44.9 818	994. 11	994.945	325.129	3.047 79	4.0052	128.3 87	313.49 1	1.69 728	24.8002	62.7037	417.2 01	102.04 3	75.1	80.1	25.1	33.4	352.6 75	11.89 09	263. 561	0.153 695
11:42:48 AM	109	54216 1	1601. 6	269. 413	1.01183	272.104	45.641 6	44.9 838	994. 108	994.945	328.665	3.081 78	4.0044 3	128.0 53	314.04 8	1.67 835	24.8	62.7007	417.2	101.84 5	75.1	80.1	25.1	33.2 775	349.4 04	11.88 35	263. 609	0.106 4
11:42:49 AM	109	54216 2	1601. 28	269. 189	1.01182	272.167	45.664 6	44.9 759	994. 109	994.945	329.481	3.048 9	4.0090 2	128.0 8	312.79 4	1.67 309	24.8	62.7001	417.2	101.80 8	75.1	80.1	25.1	33.2 144	346.0 75	11.86 88	263. 587	0.115 271
11:42:50 AM	109	54216 3	1601. 3	269. 005	1.01183	272.232	45.681 7	44.9 653	994. 104	994.945	323.998	2.964 79	4.0097 8	128.4 03	312.97 3	1.66 098	24.8	62.7	417.1 35	101.80 2	75.1	80.1	25.1	33.2 027	342.7 91	11.87 19	263. 493	0.106 4
11:42:51 AM	109	54216 4	1601. 53	269. 029	1.01183	272.291	45.682 6	44.9 747	994. 104	994.718	330.688	3.157 53	4.0074 9	128.5 03	314.07 6	1.65 38	24.8	62.7	417.1 06	101.8	75.1	80.1	25.1	33.2 005	339.5 37	11.85 36	263. 352	0.106 4
11:42:52 AM	109	54216 5	1601. 31	268. 819	1.01182	272.33	45.672	44.9 521	994. 102	994.945	327.726	3.151 67	4.0128 4	127.7 9	313.41 1	1.65 283	24.8	62.7	417.1 01	101.8	75.1	80.1	25.1	33.2 001	336.2 56	11.82 66	263. 163	0
11:42:53 AM	109	54216 6	1599. 76	269. 559	1.01183	272.327	45.656 6	44.9 556	994. 102	994.945	327.403	2.956 92	4.0006 1	127.7 7	313.72 1	1.64 941	24.8	62.7	417.1	101.8	75.1	80.1	25.1	33.2	332.9 78	11.81 57	262. 948	0.106 4
11:42:54 AM	109	54216 7	1600. 74	268. 659	1.01183	272.306	45.640 1	44.9 771	994. 104	994.945	327.443	3.140 58	4.0082 5	127.2 47	312.84 1	1.66 035	24.8	62.7	417.1	101.8	75.1	80.1	25.1	33.2	329.6 81	11.79 3	262. 739	0.011 82
11:42:55 AM	109	54216 8	1600. 01	268. 505	1.01182	272.253	45.625 6	44.9 608	994. 102	994.945	324.292	3.114 56	4.0143 6	127.7 19	312.74 4	1.65 957	24.8	62.7	416.8 95	101.8	75.1	80.1	25.1	33.2	326.3 98	11.77 73	262. 496	0.106 4
11:42:56 AM	109	54216 9	1601. 47	268. 297	1.01183	272.15	45.609 4	44.9 551	994. 102	994.945	330.016	3.091 4	4.0120 7	127.4 27	313.18 8	1.66 552	24.8	62.6349	416.6 55	101.8	75.1	80.1	25.1	33.2	323.1 67	11.77 82	262. 207	0.106

11:44:26 AM	109	54225 9	1403. 05	262. 726	1.01212	266.035	39.074 6	44.9 24	994. 101	994.945	272.175	2.061 67	3.5864 9	132.2 6	283.49 6	1.64 434	24.9007	58.8	404.6 04	100.4	74.6	79.9	24.8 001	33.4	506.6	10.24 28	264. 881	0.106 4
11:44:27 AM	109	54226 0	1403. 26	262. 669	1.01211	266.006	39.068 3	44.8 985	994. 099	994.945	269.788	1.928 71	3.5933 7	131.8 9	283.45 3	1.65 617	24.9001	58.8	404.6 01	100.16 2	74.6	79.9	24.8	33.4	503.7 82	10.26 7	264. 947	0.026 601
11:44:28 AM	109	54226 1	1402. 79	262. 758	1.01212	265.96	39.066 1	44.9 26	994. 099	995.171	274.515	1.724 9	3.5849 6	132.4 93	283.66 5	1.64 894	24.9	58.8	404.6	100.11 1	74.6	79.9	24.8	33.4	500.9 24	10.26 62	265. 086	0.106 4
11:44:29 AM	109	54226 2	1402. 78	262. 802	1.01212	265.909	39.064 9	44.9 249	994. 099	994.945	271.242	2.011 25	3.5880 2	132.0 94	283.93 4	1.64 722	24.9	58.8	404.4 36	100.10 2	74.6	79.9	24.8	33.4	498.0 98	10.28 34	265. 275	0.008 867
11:44:30 AM	109	54226 3	1402. 54	262. 718	1.01212	265.895	39.063 8	44.9 197	994. 099	994.945	276.027	1.844 89	3.5849 6	132.2 32	283.08 2	1.63 545	24.9	58.5763	404.2 44	100.1	74.6	79.9	24.8	33.4	495.2 38	10.28 74	265. 552	0.106 4
11:44:31 AM	109	54226 4	1402. 95	262. 698	1.01212	265.891	39.063 9	44.9 173	994. 099	994.945	268.265	2.077 93	3.5926	131.8 14	284.00 8	1.62 384	24.9	58.5141	404.2 08	100.1	74.6	79.9	24.8	33.4	492.4 44	10.27 06	265. 853	0.026 601
11:44:32 AM	109	54226 5	1402. 89	262. 761	1.01212	265.88	39.064 4	44.9 194	994. 096	995.171	266.798	2.073 03	3.5880 2	132.0 92	283.23 5	1.62 391	24.9	58.5026	404.2 02	99.815 2	74.6	79.9	24.8	33.4	489.6 05	10.25 91	266. 08	0.106 4
11:44:33 AM	109	54226 6	1403. 1	262. 479	1.01213	265.87	39.060 7	44.9 23	994. 094	995.171	270.721	1.982 18	3.5933 7	132.0 86	283.08 8	1.61 314	24.9	58.5005	404.2	99.639 9	74.6	79.9	24.8	33.4	486.7 39	10.25 36	266. 211	0.026 601
11:44:34 AM	109	54226 7	1402. 95	262. 396	1.01213	265.858	39.053 3	44.9 378	994. 094	994.945	268.86	1.905 62	3.5971 9	131.6 5	282.55 2	1.61 416	24.9	58.5001	404.2	99.607 4	74.6	79.9	24.8	33.4	483.9 22	10.24 51	266. 2	0.106 4
11:44:35 AM	109	54226 8	1402. 91	262. 323	1.01212	265.822	39.042 1	44.9 078	994. 096	994.945	275.368	2.098 39	3.5979 5	131.2 21	283.46 4	1.61 867	24.9	58.5	403.8 74	99.601 4	74.6	79.9	24.8	33.4	481.1 18	10.23 75	266. 078	0.106 4
11:44:36 AM	109	54226 9	1403. 15	262. 361	1.01212	265.768	39.032 2	44.9 169	994. 096	994.945	268.011	1.951 98	3.5994 8	131.5 03	283.25 7	1.61 677	24.9	58.5	403.8 14	99.600 3	74.6	79.9	24.8	33.4	478.2 7	10.25 51	265. 94	0.026 601
11:44:37 AM	109	54227 0	1403. 12	262. 453	1.01212	265.711	39.024 6	44.8 972	994. 096	994.945	270.739	1.987 21	3.6025 4	131.2 13	282.57 4	1.63 106	24.9	58.5	403.8 03	99.657	74.6	79.9	24.8	33.4	475.4 5	10.27 63	265. 83	0.106 4
11:44:38 AM	109	54227 1	1402. 97	262. 592	1.01211	265.669	39.023	44.8 936	994. 096	994.945	270.907	1.871 18	3.6010 1	131.2 81	282.66 1	1.63 193	24.9	58.5	403.8	99.855	74.6	79.9	24.8	33.4	472.6 09	10.25 68	265. 814	0.008 867
11:44:39 AM	109	54227 2	1402. 75	262. 326	1.01212	265.646	39.025 9	44.8 929	994. 093	994.945	269.814	2.048 98	3.6010 1	131.0 08	283.03 7	1.63 133	24.9	58.5	403.8	99.891 7	74.6	79.9	24.8	33.4	469.7 68	10.25 32	265. 877	0.106 4
11:45:14 AM	109	54230 7	1205. 51	250. 996	1.01214	254.122	32.109 5	44.9 795	994. 1	995.171	217.173	0.088 757	3.0417 2	138.0 95	259.23 2	1.61 099	24.9	56.1215	394.3 27	99.799 9	74.5	80	24.7 005	33.3	380.8 02	8.546 54	269. 894	0.106 4
11:45:15 AM	109	54230 8	1207. 56	250. 879	1.01212	254.041	32.107 7	44.9 171	994. 1	994.945	214.277	0.029 28	3.0554 7	137.5 21	258.88 8	1.64 072	24.9	56.104	394.3 05	99.8	74.5	80	24.7 001	33.3	378.4 68	8.532 41	269. 948	0.106 4
11:45:16 AM	109	54230 9	1208. 07	251. 23	1.01212	253.995	32.111 5	44.9 249	994. 1	994.945	219.793	0.116 723	3.0608 2	137.3 77	259.28 3	1.66 595	24.9	56.1007	394.3 01	99.8	74.5	80	24.7	33.3	376.1 23	8.529 8	269. 832	0.106 4
11:45:17 AM	109	54231 0	1206. 32	251. 686	1.01212	254.006	32.113 1	44.9 268	994. 103	994.945	213.008	0.031 1	3.0409 5	136.8 65	258.36 6	1.68 942	24.9	56.1001	394.3	99.8	74.5	80	24.7	33.3	373.7 74	8.529 31	269. 613	0.026 601
11:45:18 AM	109	54231 1	1207. 84	250. 754	1.01213	254.053	32.125 4	44.9 371	994. 098	994.945	214.407	0.029 1	3.0539 4	137.5 28	258.61 1	1.68 905	24.9	56.0187	393.9 14	99.8	74.5	80	24.7	33.3	371.4 59	8.529 22	269. 332	0.106 4
11:45:19 AM	109	54231 2	1207. 92	251. 066	1.01213	254.072	32.137 9	44.9 389	994. 098	994.945	217.304	0.236 64	3.0562 3	137.4 28	258.58 2	1.69 381	24.9	55.8405	393.8 21	99.8	74.5	80	24.7	33.3	369.1 1	8.529 2	269. 042	0.106 4
11:45:20 AM	109	54231 3	1206. 28	251. 585	1.01214	254.083	32.140 3	44.9 491	994. 098	994.945	216.128	0.210 787	3.0485 9	137.1 91	258.47 6	1.69 172	24.9	55.8075	393.8 04	99.8	74.5	80	24.7	33.3	366.7 59	8.535 06	268. 82	0.065 025
11:45:21 AM	109	54231 4	1207. 53	251. 183	1.01213	254.121	32.140 8	44.9 425	994. 098	994.945	207.486	0.106 64	3.0592 9	136.5 14	258.68 1	1.68 587	24.9	55.8014	393.8 01	100.03 8	74.5	80	24.7	33.3	364.3 89	8.542 05	268. 696	0.106 4
11:45:22 AM	109	54231 5	1208. 15	250. 987	1.01213	254.176	32.145	44.9 467	994. 099	994.945	222.808	0.224 176	3.0600 6	136.7 25	258.95 8	1.65 241	24.9	55.8003	393.8	100.08 9	74.5	80	24.7	33.3	362.0 23	8.529 42	268. 658	0.106 4
11:45:23 AM	109	54231 6	1207. 72	250. 69	1.01212	254.209	32.141	44.9 264	994. 101	995.171	218.024	0.080 493	3.0684 6	136.4 91	259.12 2	1.64 055	24.9	55.8	393.3 31	100.09 8	74.5	80	24.7	33.3	359.6 31	8.511 62	268. 664	0.038 424

11:45:24 AM	109	542317	1207.86	251.066	1.01212	254.188	32.1459	44.9232	994.104	994.945	214.218	0.085703	3.06235	136.319	258.299	1.63437	24.9	55.7283	392.898	100.1	74.5	80	24.7	33.3	357.298	8.51048	268.646	0.1064
11:45:25 AM	109	542318	1207.14	251.199	1.01212	254.165	32.1448	44.9324	994.102	994.945	211.754	0.01819	3.05776	136.301	257.524	1.63377	24.9	55.7052	392.818	100.1	74.5	79.9729	24.7	33.3	354.889	8.52573	268.55	0.0798
11:45:26 AM	109	542319	1208.58	251.02	1.01211	254.162	32.137	44.9171	994.104	994.945	217.054	0.190831	3.06311	136.186	257.092	1.65675	24.9	55.701	392.803	99.8395	74.5	79.9135	24.7	33.3	352.51	8.51138	268.42	0
11:45:27 AM	109	542320	1208.5	250.878	1.01213	254.168	32.1419	44.9655	994.104	994.945	206.892	0.023158	3.0677	135.876	257.337	1.66257	24.9	55.7002	392.801	99.7258	74.5	79.9025	24.7	33.3	350.13	8.54263	268.302	0.1064
11:45:28 AM	109	542321	1208.09	251.033	1.01212	254.157	32.1456	44.9203	994.104	994.945	214.068	0.087668	3.0677	135.549	257.369	1.67833	24.9	55.7	392.8	99.7048	74.5	79.9005	24.7	33.3	347.79	8.54931	268.291	0.1064
11:45:29 AM	109	542322	1208.05	251.004	1.01212	254.146	32.1496	44.9222	994.105	994.945	208.257	0.036465	3.06617	135.36	256.746	1.68565	24.9	55.5435	392.148	99.7009	74.5	79.9001	24.7	33.3	345.387	8.55055	268.392	0.038424
11:45:30 AM	109	542323	1208.65	251.112	1.01213	254.171	32.1593	44.9368	994.102	995.171	210.219	0.13955	3.05623	135.331	256.453	1.67013	24.9	55.4266	392.027	99.7002	74.5	79.9	24.7	33.3	343.03	8.5663	268.576	0.1064
11:45:31 AM	109	542324	1208.71	250.53	1.01212	254.181	32.1624	44.9232	994.104	994.945	217.804	0.02097	3.07304	134.93	257.356	1.63574	24.9	55.4049	392.005	99.6729	74.5	79.9	24.7	33.3	340.637	8.5558	268.816	0.1064
11:45:32 AM	109	542325	1208.48	250.942	1.01211	254.154	32.1586	44.9059	994.104	995.171	217.309	0.0141	3.07075	134.935	257.219	1.6147	24.9	55.4009	392.001	99.6135	74.5	79.9	24.6387	33.3	338.288	8.56584	269.025	0.038424
11:45:33 AM	109	542326	1208.51	251.058	1.01211	254.089	32.1487	44.9115	994.103	994.945	208.251	0.02324	3.07304	134.792	256.213	1.6148	24.9	55.4002	392	99.6025	74.5	79.9	24.6072	33.3	335.881	8.58532	269.22	0.0798
11:45:34 AM	109	542327	1209.58	251.035	1.01212	254.06	32.1386	44.9409	994.106	994.945	218.588	0.224325	3.07686	135.051	256.636	1.64537	24.9	55.4	391.674	99.6005	74.5	79.9	24.6013	33.3	333.546	8.57838	269.447	0.1064
11:45:35 AM	109	542328	1208.89	250.537	1.01213	254.064	32.1389	44.9679	994.104	994.945	213.236	0.097616	3.08068	134.985	256.685	1.68472	24.9	55.3206	391.532	99.6001	74.5	79.9	24.6002	33.3	331.188	8.57355	269.655	0.02069
11:45:36 AM	109	542329	1208.32	251.139	1.01213	254.053	32.1472	44.9451	994.099	994.945	218.254	0.154971	3.07457	135.001	256.021	1.70155	24.9	55.3038	391.506	99.6	74.5	79.9	24.6	33.3	328.814	8.57266	269.845	0.0798
11:45:37 AM	109	542330	1206.25	250.83	1.01213	254.037	32.1496	44.9447	994.101	994.945	212.379	0.132945	3.07916	134.716	255.798	1.69045	24.9	55.3007	391.501	99.6	74.5	79.9	24.6	33.3	326.442	8.56018	269.965	0.1064
11:45:38 AM	109	542331	1207.96	250.591	1.01212	254.037	32.142	44.9274	994.1	994.945	219.061	0.05224	3.07686	134.621	256.454	1.65568	24.9	55.3001	391.5	99.6	74.5	79.9	24.6	33.3	324.068	8.55256	269.962	0.1064
11:45:39 AM	109	542332	1208.42	250.78	1.01214	254.043	32.1321	44.9553	994.101	994.945	212.673	0.116	3.0761	134.684	256.366	1.63716	24.9	55.3	391.259	99.6	74.5	79.9	24.5656	33.3	321.691	8.56129	269.888	0.106404
11:45:40 AM	109	542333	1206.47	251.567	1.01213	254.011	32.117	44.9731	994.105	994.945	219.485	0.018711	3.06158	134.564	256.07	1.60459	24.9	55.1628	390.885	99.6	74.5	79.9	24.5122	33.3	319.334	8.56025	269.807	0.1064
11:45:41 AM	109	542334	1206.8	251.18	1.01212	253.981	32.1163	44.9469	994.108	994.945	212.408	0.113816	3.0677	134.682	255.152	1.61383	24.9	55.1116	390.816	99.6	74.5	79.9	24.5837	33.3	316.971	8.55258	269.742	0.1064
11:45:42 AM	109	542335	1208.19	250.779	1.01212	253.967	32.1193	44.9482	994.107	995.171	218.698	0.081773	3.07916	134.528	255.649	1.63465	24.9	55.1022	390.803	99.6	74.5	79.9	24.5224	33.4	314.641	8.54371	269.701	0.183251
11:45:43 AM	109	542336	1207.18	251.216	1.01212	253.939	32.1241	44.9557	994.109	994.945	211.424	0.014121	3.07228	133.85	255.514	1.6534	24.9	55.1004	390.801	99.6	74.5613	79.9	24.5042	33.4	312.286	8.53189	269.648	0.1064
11:46:51 AM	109	542404	1009.6	225.053	1.01305	229.495	24.3261	44.8901	994.093	994.945	132.84	1.1063	2.53744	132.784	228.283	1.50616	25.2	51.2	365.7	97.3	74.3	79.8	24.2058	32.9	180.969	6.61549	275.205	0.1064
11:46:52 AM	109	542405	1013.08	226.19	1.01304	229.384	24.3293	44.8833	994.093	994.945	140.145	1.22761	2.53209	132.79	227.959	1.49348	25.2	51.1312	365.065	97.3	74.3	79.8	24.2011	32.9	179.095	6.60784	275.025	0.026601
11:46:53 AM	109	542406	1010.35	226.106	1.01305	229.375	24.3211	44.891	994.092	994.945	149.498	1.34265	2.54202	132.369	228.034	1.52121	25.2	51.0243	364.931	97.3	74.3469	79.8	24.2002	32.9	177.292	6.60291	274.958	0.1064
11:46:54 AM	109	542407	1011.58	224.22	1.01305	229.349	24.2851	44.8924	994.091	994.718	137.533	1.39796	2.56494	132.074	227.775	1.56061	25.2	51.0045	364.906	97.29	74.3902	79.8686	24.2	32.9	175.453	6.56282	275.067	0.1064

11:46:55 AM	109	542408	100893	225433	1.01305	229.238	24.267	44.8927	994091	994.945	132.144	1.43171	2.56189	131.934	227.937	1.53139	25.2	51.0008	364.901	97.2167	74.3982	79.8942	24.2	32.9	173.605	6.56715	275.16	0.1064
11:46:56 AM	109	542409	100843	22846	1.01305	229.03	24.2388	44.8927	994091	994.945	128.863	1.38332	2.50611	132.553	226.536	1.54277	25.2	51.0002	364.9	97.2031	74.3997	79.8989	24.2	32.9	171.798	6.57011	275.169	0.115271
11:46:57 AM	109	542410	101114	22702	1.01305	228.941	24.2625	44.8927	994091	994.945	135.353	1.37572	2.51987	131.702	226.46	1.5277	25.2	51	364.314	97.2006	74.3999	79.8998	24.2	32.9	170.028	6.58612	275.034	0.1064
11:46:58 AM	109	542411	10173	226805	1.01305	228.961	24.2907	44.8927	994089	994.945	131.816	1.65342	2.55425	131.602	227.744	1.54778	25.2	50.7618	364.058	97.2001	74.4	79.9	24.2	32.9	168.167	6.57191	274.742	0.1064
11:46:59 AM	109	542412	101777	226862	1.01305	229.051	24.3449	44.8927	994089	994.945	134.389	1.59886	2.54202	131.848	226.614	1.56027	25.2	50.7114	364.011	97.2	74.3206	79.8531	24.2	32.9	166.313	6.60319	274.445	0.1064
11:47:00 AM	109	542413	101658	224634	1.01305	229.175	24.3748	44.8927	994089	994.945	140.728	1.61382	2.56724	131.868	228.242	1.55196	25.2	50.7021	364.002	97.2686	74.3038	79.8098	24.2	32.9	164.472	6.63138	274.165	0
11:47:01 AM	109	542414	100883	226542	1.01305	229.276	24.3703	44.8927	994089	994.945	135.117	1.41407	2.52139	131.544	226.282	1.59544	25.2	50.7004	364	97.2942	74.3007	79.8018	24.2	32.9	162.659	6.60633	274.088	0.0798
11:47:02 AM	109	542415	101618	226363	1.01305	229.27	24.3319	44.8804	994089	994.945	131.062	1.49395	2.55883	131.254	227.105	1.52253	25.2	50.7001	363.756	97.2989	74.3001	79.8003	24.2	32.9	160.845	6.60946	274.281	0.1064
11:47:03 AM	109	542416	101315	226374	1.01305	229.233	24.2878	44.9019	994089	994.945	131.043	1.42436	2.56571	131.466	227.351	1.56717	25.2	50.7	363.222	97.2998	74.3	79.8001	24.2	32.9	158.984	6.61103	274.729	0.1064
11:47:04 AM	109	542417	101685	226052	1.01305	229.18	24.2751	44.8944	994089	994.945	137.625	1.28284	2.58405	130.893	227.61	1.52623	25.2	50.7	363.123	97.3	74.3613	79.8	24.181	32.9	157.119	6.64596	275.242	0.1064
11:47:05 AM	109	542418	101638	228458	1.01305	229.219	24.2966	44.9104	994089	994.718	135.233	1.36492	2.54661	131.129	226.241	1.47325	25.2	50.7	363.104	97.259	74.3928	79.8	24.115	32.9	155.277	6.65891	275.731	0.1064
11:47:06 AM	109	542419	100507	225887	1.01305	229.335	24.3102	44.896	994089	994.945	124.902	1.17805	2.5382	131.125	225.351	1.50954	25.2	50.7	363.101	97.2109	74.3987	79.8	24.1028	33.1	153.527	6.61715	276.081	0.026601
11:47:07 AM	109	542420	101469	225835	1.01305	229.393	24.3419	44.8933	994089	994.945	121.828	1.33445	2.55883	130.791	226.443	1.4804	25.2	50.7	363.1	97.202	74.3997	79.8	24.1005	33.1826	151.735	6.62575	276.224	0.017734
11:47:08 AM	109	542421	10138	224303	1.01305	229.438	24.3326	44.8928	994089	994.945	130.495	1.37449	2.59322	130.54	226.627	1.50821	25.2	50.643	362.598	97.2004	74.4	79.8	24.1614	33.1968	149.949	6.63313	276.279	0.1064
11:47:09 AM	109	542422	101075	227264	1.01305	229.466	24.2987	44.8838	994089	994.945	149.822	1.21064	2.51299	131.022	224.722	1.52396	25.2	50.445	362.437	97.2001	74.381	79.8	24.1519	33.1994	148.129	6.61047	276.291	0.02956
11:47:10 AM	109	542423	101675	22639	1.01305	229.503	24.3266	44.8911	994091	994.945	136.057	1.30309	2.53515	130.462	224.688	1.50442	25.2	50.4083	362.407	97.2	74.315	79.8	24.1096	33.1999	146.278	6.57103	276.148	0.1064
11:47:11 AM	109	542424	10176	222611	1.01305	229.467	24.3019	44.8924	994091	994.945	139.887	1.36264	2.60926	129.57	226.86	1.49323	25.2	50.4015	362.401	96.7373	74.3028	79.8	24.1018	33.0968	144.471	6.5481	275.921	0.076847
11:47:12 AM	109	542425	101551	222234	1.01305	229.188	24.3046	44.8927	994091	994.945	132.761	1.32677	2.61155	130.025	226.58	1.52592	25.2	50.4003	362.4	96.6254	74.3005	79.8	24.1003	32.9365	142.658	6.55273	275.464	0.144828
11:47:13 AM	109	542426	101733	226336	1.01305	228.827	24.2874	44.8927	994091	994.945	132.178	1.33311	2.55501	130.051	225.291	1.53608	25.2	50.4001	361.909	96.6047	74.3001	79.8	24.1001	32.9	140.827	6.55642	274.79	0.1064
11:47:14 AM	109	542427	101665	225168	1.01305	228.62	24.2552	44.8927	994091	994.945	138.245	1.32989	2.55119	130.01	225.513	1.56806	25.2	50.3283	361.331	96.6009	74.3	79.8	24.1013	32.9013	139.038	6.54053	274.277	0.038424
11:47:15 AM	109	542428	101259	225086	1.01305	228.601	24.2311	44.8927	994091	994.718	139.474	1.26533	2.56418	129.687	224.89	1.5791	25.2	50.3052	361.224	96.6002	74.3	79.762	24.1002	32.9002	137.21	6.51018	273.848	0.017734
11:47:16 AM	109	542429	10131	226519	1.01305	228.471	24.2219	44.8927	994091	994.945	141.3	1.25337	2.56112	129.941	224.87	1.59709	25.2	50.301	361.204	96.7139	74.3	79.63	24.1002	32.9	135.412	6.50057	273.597	0.094581
11:47:17 AM	109	542430	101411	226177	1.01305	228.338	24.2358	44.8927	994091	994.718	133.445	1.34209	2.58023	130.075	225.334	1.60994	25.2	50.3002	361.201	96.784	74.3	79.6056	24.1002	32.9	133.588	6.53251	273.358	0.085714
11:47:18 AM	109	542431	101349	22939	1.01245	228.365	24.2489	44.8868	994091	994.945	151.06	1.38577	2.49541	130.173	223.457	1.54816	25.0046	50.3	361.2	96.797	74.3	79.601	24.1002	32.9	131.749	6.5233	273.027	0.056158

11:47:19 AM	109	54243 2	1014. 3	225. 079	1.01218	228.584	24.286	44.8 916	994. 091	994.945	149.344	- 1.351 64	2.5794 6	130.0 1	225.36 7	1.58 234	24.9194	50.2063	360.6 44	96.799 5	74.3	79.600 2	24.0 387	32.9	129.9 37	6.542 2	272. 54	0.026 601
11:47:20 AM	109	54243 3	1017. 68	227. 704	1.01212	228.735	24.342 6	44.8 621	994. 091	994.945	152.412	- 1.269 36	2.5397 3	130.1 33	223.30 3	1.50 3	24.9036	50.1197	360.5 27	96.799 9	74.34 69	79.6	24.0 072	32.9	128.0 74	6.545 71	272. 133	0.085 714

APPENDIX S: BIODIESEL BLENDS TESTING – BASE DIESEL RESULTS

Speed	Torque	Corr Fact	Torque Corr	Power Corr	Humid	P Baro	P_Pre_Compressor	P_Post_Compressor	P Exh	P Oil Filter	P Cool In	P Cool Out	P_Fuel	T Air In	T Post Comp	T Exh	T Oil Sump	T Cool In	T Cool Out	T_Fuel	T_Cell	Fuel Mass	Fuel Flow	SFC	Smoke	
[rpm]	[Nm]	[ECE]	[Nm]	[kW]	[%]	[mBar]	[mBar]	[mBar]	[mBar]	[Bar]	[mBar]	[mBar]	[Bar]	[°C]	[°C]	[°C]	[°C]	[°C]	[°C]	[°C]	[°C]	[g]	[kg/h]	[g/kWh]	[FSN]	
15°BTDC - RESULTS																										
2600	273.0	1.024	279.3	76.4	49.9	990.0	997.6	959.1	11.8	5.0	69.6	498.3	1.3	26.3	108.6	483.4	105.2	75.7	80.0	28.4	41.4	404.6	17.0	227	2.20	
2400	287.9	1.023	294.5	74.3	49.7	990.0	997.8	874.6	10.8	4.9	86.1	459.0	1.3	26.2	104.3	484.9	107.4	75.6	80.0	29.2	41.3	326.3	15.9	219	1.90	
2200	317.4	1.022	323.8	74.9	49.8	990.0	997.8	823.0	14.4	4.7	93.1	413.2	1.3	25.8	100.2	500.0	107.8	75.2	80.0	28.1	41.5	370.6	15.7	214	1.60	
2000	333.9	1.021	340.6	72.0	50.3	990.0	997.9	698.5	16.3	4.5	93.3	368.9	1.2	25.4	92.6	512.1	106.7	74.7	79.9	27.6	41.5	455.2	14.9	211	1.70	
1800	344.9	1.021	351.9	66.8	50.7	990.0	997.8	615.5	10.0	4.2	100.9	335.6	1.2	25.3	86.8	513.5	105.9	74.7	80.0	27.1	41.3	456.1	13.7	209	1.40	
1600	348.2	1.021	355.4	59.8	50.8	990.0	997.7	522.7	3.4	3.9	106.5	303.3	1.3	25.3	81.3	502.3	105.0	74.3	79.9	26.6	41.3	466.4	12.1	206	1.30	
1400	332.7	1.020	340.0	50.1	50.9	990.0	997.6	406.5	2.2	3.4	112.4	274.0	1.3	25.2	73.5	477.5	103.3	74.1	79.8	26.3	41.0	520.8	10.0	203	1.30	
1200	303.7	1.020	309.8	39.2	50.9	990.0	997.4	282.0	1.0	2.8	114.8	241.3	1.3	25.1	65.5	450.1	100.9	74.0	79.8	26.5	40.7	270.0	7.6	199	1.80	
1000	249.9	1.020	253.9	27.1	51.0	990.0	997.2	127.1	4.0	2.2	111.4	209.8	1.4	25.1	56.9	398.1	97.7	74.3	79.8	27.3	40.6	555.1	5.1	192	1.40	
20°BTDC - RESULTS																										
2600	282.9	1.014	286.9	78.4	44.8	993.4	995.4	903.0	10.1	5.1	102.7	520.8	1.3	25.3	97.1	460.3	102.1	76.2	80.6	25.7	34.7	401.7	17.0	220	1.80	
2400	296.3	1.013	300.0	75.6	44.7	993.4	995.6	824.5	8.8	4.9	129.4	488.7	1.3	24.8	97.4	470.4	104.6	75.4	80.1	26.4	34.9	393.4	16.0	214	1.30	
2200	327.7	1.014	332.0	76.6	44.7	993.4	995.7	781.2	10.7	4.7	143.8	450.1	1.3	25.1	95.4	488.8	105.1	74.8	80.0	25.7	35.0	404.3	15.7	208	1.20	
2000	345.3	1.013	349.3	73.7	44.8	993.4	995.8	674.1	14.2	4.5	147.3	408.5	1.4	24.8	89.4	501.1	105.5	74.6	80.0	25.6	35.3	448.2	15.0	206	1.20	
1800	350.1	1.014	354.9	67.2	45.0	993.4	995.9	578.8	9.4	4.2	146.4	365.9	1.4	25.1	83.8	501.8	105.8	74.3	80.0	25.5	35.3	171.5	13.5	205	0.70	
1600	354.4	1.014	359.1	60.3	45.1	993.4	995.9	499.3	2.4	3.9	146.1	328.9	1.5	25.1	78.1	496.2	104.4	73.9	79.8	25.6	35.1	488.7	12.1	204	1.00	
1400	334.0	1.013	338.4	49.8	45.2	993.4	995.8	395.6	-0.1	3.4	154.9	305.3	1.5	24.9	71.4	479.1	103.3	73.7	79.9	25.6	35.1	245.1	10.2	208	1.30	
1200	313.7	1.013	317.8	40.2	45.2	993.3	995.8	301.0	0.8	3.0	159.3	280.7	1.4	24.9	64.7	456.8	101.5	73.6	79.7	25.3	35.4	505.8	8.2	207	1.40	
1000	276.0	1.014	279.7	29.7	45.1	993.4	995.8	182.9	0.7	2.4	157.6	255.5	1.3	25.1	59.1	429.6	99.9	73.4	79.8	25.4	35.4	385.8	6.2	212	1.30	

APPENDIX T: BIODIESEL BLENDS TESTING – BDW10 BLEND

Speed	Torque	Corr Fact	Torque Corr	Power Corr	Humid	P Baro	P_Pre_Compressor	P_Post_Compressor	P Exh	P Oil Filter	P Cool In	P Cool Out	P_Fuel	T Air In	T Post Comp	T Exh	T Oil Sump	T Cool In	T Cool Out	T_Fuel	T_Cell	Fuel Mass	Fuel Flow	SFC	Smoke	
[rpm]	[Nm]	[ECE]	[Nm]	[kW]	[%]	[mBar]	[mBar]	[mBar]	[mBar]	[Bar]	[mBar]	[mBar]	[Bar]	[°C]	[°C]	[°C]	[°C]	[°C]	[°C]	[°C]	[°C]	[g]	[kg/h]	[g/kWh]	[FSN]	
15°BTDC - RESULTS																										
2600	274.9	1.016	279.1	76.3	47.9	992.6	995.7	972.1	10.2	5.0	65.5	489.8	1.3	25.1	109.3	485.8	104.7	76.2	81.1	25.2	35.1	458.6	17.3	231	2.20	
2400	286.4	1.015	290.6	73.2	47.9	992.6	995.7	857.6	8.8	4.9	78.1	447.7	1.3	24.8	101.8	479.4	106.0	75.5	80.1	25.1	35.3	454.7	16.1	223	1.70	
2200	320.6	1.015	325.2	75.0	48.0	992.6	995.7	816.7	12.3	4.7	96.3	413.1	1.3	24.8	97.6	495.6	105.5	75.1	80.0	24.8	35.1	482.6	16.0	216	1.80	
2000	334.8	1.015	339.9	71.7	48.3	992.6	995.6	688.2	14.3	4.5	107.1	379.2	1.3	24.8	89.5	506.9	105.1	74.8	79.9	24.5	35.4	358.3	15.0	213	1.90	
1800	340.9	1.016	346.3	65.5	48.3	992.6	995.5	600.8	8.5	4.3	118.3	349.1	1.3	25.1	84.0	506.4	104.1	74.6	79.9	24.3	35.2	406.2	13.6	211	1.70	
1600	341.7	1.015	346.9	58.2	48.4	992.6	995.4	505.5	1.8	3.9	126.3	320.4	1.3	24.8	77.3	491.4	102.2	74.4	79.9	23.9	35.2	361.8	12.0	209	1.50	
1400	330.1	1.015	335.1	49.2	48.4	992.6	995.2	402.8	0.0	3.5	133.5	295.1	1.3	24.9	69.8	469.5	100.0	74.2	79.9	23.8	34.9	522.2	10.1	209	1.60	
1200	309.3	1.015	314.0	39.7	48.4	992.6	995.1	312.7	0.3	3.1	136.2	269.1	1.4	24.9	63.5	448.9	98.4	74.1	79.8	23.9	34.6	276.4	8.3	212	1.50	
1000	274.8	1.015	278.9	29.6	48.5	992.6	994.9	190.8	0.5	2.6	130.0	237.6	1.4	24.8	54.6	409.9	94.6	74.3	79.8	24.4	34.4	537.1	6.2	214	1.80	
20°BTDC - RESULTS																										
2600	283.7	1.014	287.8	78.6	44.9	993.4	995.7	922.6	10.5	5.0	70.5	479.9	1.4	25.3	103.8	472.9	105.4	75.8	80.6	26.2	35.2	379.5	17.2	222	1.30	
2400	296.4	1.013	300.3	75.7	44.8	993.4	995.9	827.4	9.1	4.9	101.8	456.3	1.3	25.0	99.4	473.7	108.1	75.1	80.0	26.4	35.5	271.6	16.1	216	1.00	
2200	327.1	1.013	331.2	76.4	44.9	993.3	995.9	780.1	10.7	4.7	117.3	419.7	1.3	24.8	95.9	488.5	107.5	74.7	79.9	26.3	35.5	420.4	15.9	211	1.20	
2000	343.7	1.013	348.1	73.4	45.0	993.3	995.9	669.4	14.2	4.4	121.5	379.7	1.4	24.8	89.5	499.2	106.9	74.5	80.0	25.9	35.6	463.0	15.0	207	0.90	
1800	348.4	1.014	353.2	66.9	45.2	993.3	996.0	567.8	9.6	4.2	115.1	331.0	1.4	25.1	82.1	497.3	106.0	74.2	79.9	25.6	35.8	191.1	13.7	207	1.00	
1600	349.9	1.013	354.4	59.5	45.3	993.3	995.9	492.4	2.4	3.9	122.0	302.4	1.4	24.9	77.1	491.5	104.7	74.0	79.9	25.6	35.4	462.4	12.2	207	1.00	
1400	332.4	1.013	336.7	49.5	45.3	993.3	995.9	392.7	-0.3	3.4	129.3	277.0	1.4	24.9	70.6	475.9	102.3	73.7	79.8	25.4	35.4	449.1	10.2	209	0.90	
1200	311.7	1.013	315.9	40.0	45.3	993.3	995.7	300.4	0.8	3.0	134.5	246.2	1.4	24.9	64.5	455.3	101.6	73.3	79.9	25.0	35.3	234.1	8.4	213	0.80	
1000	268.4	1.014	272.6	29.0	45.3	993.3	995.6	162.3	1.0	2.4	119.0	208.9	1.3	25.0	55.9	415.6	97.7	71.1	78.8	24.6	35.0	540.3	6.0	210	1.20	

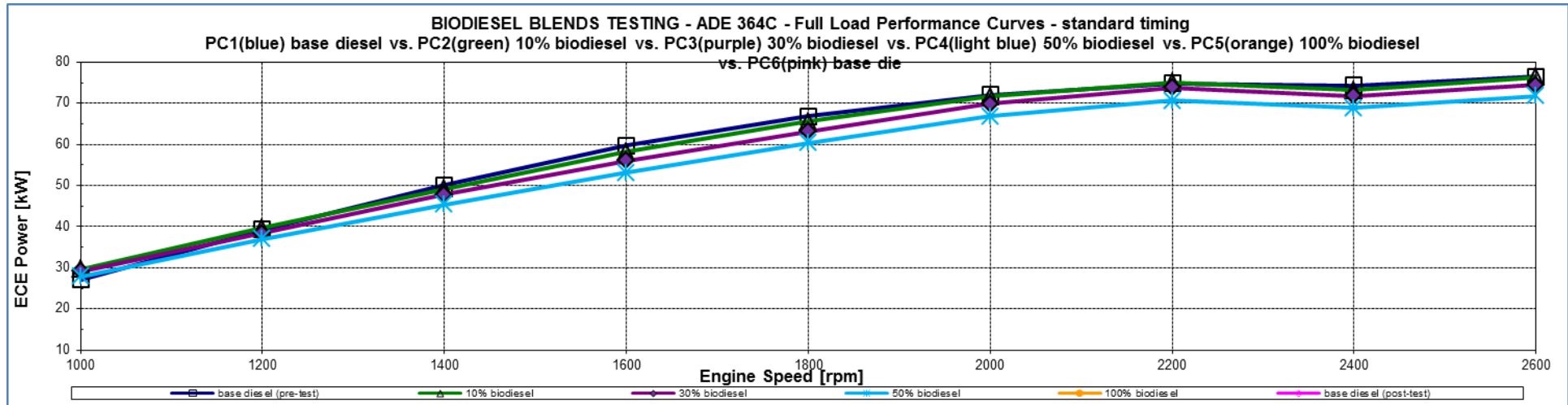
APPENDIX U: BIODIESEL BLENDS TESTING – BDW30 BLEND

Speed	Torque	Corr Fact	Torque Corr	Power Corr	Humid	P Baro	P_Pre_Compressor	P_Post_Compressor	P Exh	P Oil Filter	P Cool In	P Cool Out	P_Fuel	T Air In	T Post Comp	T Exh	T Oil Sump	T Cool In	T Cool Out	T_Fuel	T_Cell	Fuel Mass	Fuel Flow	SFC	Smoke
[rpm]	[Nm]	[ECE]	[Nm]	[KW]	[%]	[mBar]	[mBar]	[mBar]	[mBar]	[Bar]	[mBar]	[mBar]	[Bar]	[°C]	[°C]	[°C]	[°C]	[°C]	[°C]	[°C]	[°C]	[g]	[kg/h]	[g/kWh]	[FSN]
15°BTDC - RESULTS																									
2600	268.0	1.016	272.6	74.5	48.0	992.4	995.9	941.8	10.1	5.0	74.7	502.4	1.4	25.2	106.9	476.1	105.6	75.9	80.4	25.8	35.8	423.1	17.2	235	1.7
2400	280.7	1.016	285.0	71.8	48.0	992.4	996.0	836.1	8.9	4.9	88.2	460.0	1.4	25.0	99.8	471.3	106.9	75.5	80.0	26.0	36.2	196.5	16.0	226	1.4
2200	315.1	1.015	320.0	73.8	48.1	992.4	996.0	800.8	12.0	4.7	105.6	423.4	1.4	24.9	96.4	489.9	106.2	75.2	80.1	25.9	36.1	291.5	15.9	220	1.6
2000	325.9	1.015	331.2	69.8	48.3	992.4	995.9	664.2	13.9	4.5	115.0	388.9	1.4	24.9	88.8	496.8	105.2	74.9	80.0	25.6	36.1	377.5	15.0	218	1.4
1800	328.3	1.016	333.5	63.2	48.5	992.4	995.7	566.0	8.4	4.3	121.2	353.7	1.4	24.9	81.9	494.1	104.2	74.7	80.0	25.6	35.9	456.7	13.5	217	1.2
1600	328.2	1.016	333.8	56.0	48.6	992.4	995.7	478.8	1.8	4.0	127.5	322.4	1.4	24.9	75.8	478.7	102.6	74.6	79.9	25.3	35.8	398.0	11.8	215	1.4
1400	319.8	1.016	325.0	47.8	48.6	992.4	995.6	386.4	0.0	3.5	134.4	296.2	1.4	24.9	69.6	461.7	100.7	74.4	79.9	25.1	35.7	497.0	10.1	216	1.2
1200	299.0	1.015	303.7	38.5	48.6	992.3	995.5	299.2	0.6	3.1	131.8	265.7	1.5	24.8	63.2	440.7	98.8	74.3	79.8	24.8	35.5	479.6	8.2	217	1.5
1000	270.0	1.016	274.4	29.2	48.6	992.2	995.4	194.8	0.7	2.6	128.3	236.9	1.5	25.1	56.6	412.2	96.6	74.0	79.7	24.7	35.5	519.1	6.4	223	1.9
20°BTDC - RESULTS																									
2600	278.1	1.014	282.2	77.1	45.1	993.4	995.9	902.0	10.4	5.0	40.3	451.0	1.4	25.2	104.0	472.9	104.9	75.8	80.6	26.1	35.4	424.0	17.2	226	1.2
2400	288.1	1.013	292.0	73.6	45.1	993.4	995.9	799.6	8.5	4.9	70.9	424.9	1.4	24.8	98.2	467.3	107.1	75.2	80.0	27.0	35.3	327.5	15.9	219	0.8
2200	320.2	1.013	324.6	74.8	45.1	993.4	995.9	755.5	10.1	4.7	95.8	396.7	1.4	25.0	94.6	482.1	106.5	74.8	80.0	26.7	35.4	434.4	15.9	215	0.9
2000	335.1	1.013	339.6	71.6	45.3	993.4	995.9	646.9	13.7	4.5	104.3	361.1	1.4	24.8	87.0	490.9	105.7	74.7	80.0	26.6	35.4	291.0	14.9	211	1.1
1800	338.4	1.013	343.0	65.0	45.4	993.4	995.9	545.2	9.7	4.2	110.1	326.2	1.5	24.9	81.2	489.6	105.6	74.4	79.9	26.5	35.4	474.6	13.6	212	0.9
1600	340.6	1.014	345.3	58.0	45.5	993.4	995.9	473.4	2.5	3.9	116.1	295.8	1.5	25.1	76.3	483.3	104.3	74.1	79.9	26.4	35.4	224.8	12.1	211	1.0
1400	324.4	1.013	328.8	48.4	45.6	993.4	995.9	380.3	-0.7	3.4	126.4	274.8	1.5	24.9	70.0	468.9	102.5	73.8	79.8	26.1	35.4	498.6	10.3	216	0.8
1200	305.1	1.013	309.0	39.2	45.6	993.4	995.7	291.2	0.7	3.0	130.7	250.8	1.4	24.9	62.2	443.2	100.7	73.7	79.7	25.6	34.9	224.8	8.4	216	1.3
1000	265.2	1.013	269.2	28.6	45.6	993.5	995.4	169.8	0.8	2.5	131.4	220.9	1.4	24.9	54.9	408.9	97.2	73.7	79.8	25.3	34.5	176.7	6.1	218	1.6

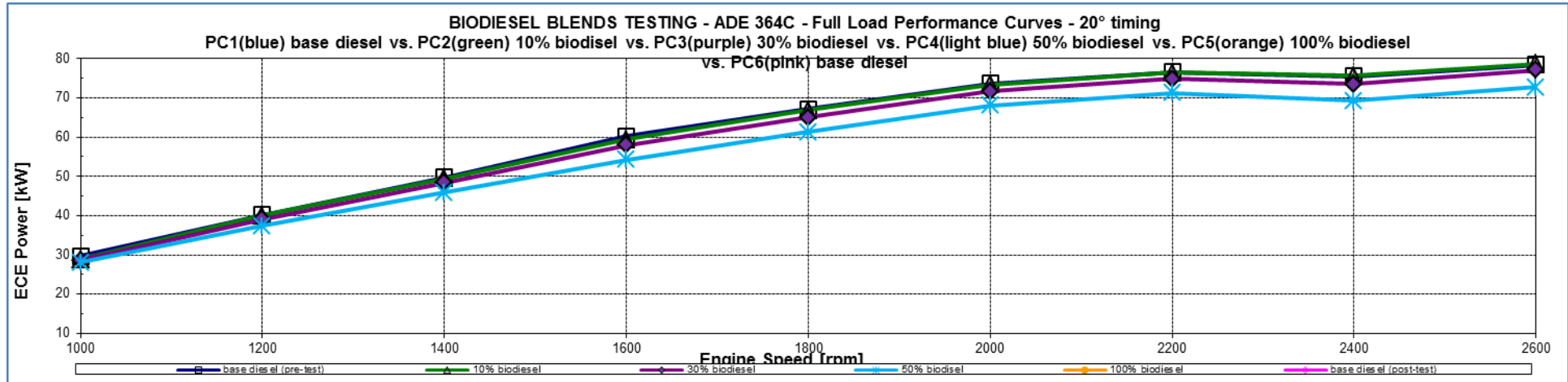
APPENDIX V: BIODIESEL BLENDS TESTING – BDW50 BLEND

Speed	Torque	Corr Fact	Torque Corr	Power Corr	Humid	P Baro	P_Pre_Compressor	P_Post_Compressor	P Exh	P Oil Filter	P Cool In	P Cool Out	P_Fuel	T Air In	T Post Comp	T Exh	T Oil Sump	T Cool In	T Cool Out	T_Fuel	T_Cell	Fuel Mass	Fuel Flow	SFC	Smoke
[rpm]	[Nm]	[ECE]	[Nm]	[KW]	[%]	[mBar]	[mBar]	[mBar]	[mBar]	[Bar]	[mBar]	[mBar]	[Bar]	[°C]	[°C]	[°C]	[°C]	[°C]	[°C]	[°C]	[°C]	[g]	[kg/h]	[g/kWh]	[FSN]
15°BTDC - RESULTS																									
2600	258.4	1.016	262.6	71.8	48.3	992.2	995.9	885.6	9.5	5.1	72.9	500.3	1.5	25.1	101.5	462.1	104.6	76.0	80.3	25.5	36.0	465.1	17.0	241	1.5
2400	269.1	1.016	273.4	68.9	48.3	992.2	996.0	794.5	8.5	4.9	89.9	460.9	1.5	24.9	97.0	461.0	105.7	75.7	80.0	25.8	36.0	405.4	15.9	234	1.3
2200	301.1	1.016	306.0	70.6	48.5	992.2	996.1	752.1	10.8	4.7	106.3	423.3	1.5	25.1	92.9	476.1	105.2	75.1	79.8	25.8	36.3	501.0	16.0	230	1.2
2000	311.9	1.016	316.8	66.8	48.7	992.2	996.0	628.4	13.5	4.5	116.3	389.5	1.5	24.8	85.2	482.9	104.4	75.1	80.0	25.5	36.4	318.7	14.7	223	1.0
1800	313.7	1.016	318.9	60.4	48.8	992.2	995.9	525.0	7.7	4.3	123.2	355.4	1.5	24.9	79.0	479.7	103.5	75.0	80.0	25.4	36.3	398.1	13.3	223	1.4
1600	311.2	1.016	316.5	53.1	48.9	992.2	995.7	443.0	2.0	4.0	125.0	320.2	1.5	24.9	72.6	461.6	101.5	74.8	79.9	25.1	35.8	382.3	11.6	221	1.3
1400	303.4	1.016	308.2	45.4	48.9	992.2	995.7	362.6	-0.4	3.6	124.8	287.2	1.5	24.8	66.4	443.8	99.5	74.7	79.8	24.9	35.9	359.7	9.8	220	1.1
1200	287.4	1.017	292.2	37.0	48.9	992.2	995.5	285.9	0.7	3.1	122.8	256.2	1.6	25.1	61.7	428.5	98.1	74.8	80.1	24.7	35.8	524.9	8.2	225	1.6
1000	257.6	1.016	261.6	27.8	48.9	992.2	995.4	176.8	0.8	2.6	118.3	226.0	1.5	24.8	55.4	400.1	95.9	74.3	79.7	24.4	35.6	362.1	6.2	226	1.6
20°BTDC - RESULTS																									
2600	262.8	1.013	266.3	72.8	45.3	993.3	995.7	844.7	9.5	5.0	61.7	470.9	1.3	24.8	99.8	456.7	105.7	76.5	81.2	29.5	34.6	307.4	16.7	233	0.7
2400	271.2	1.013	275.2	69.3	45.5	993.3	995.3	726.7	7.2	5.0	84.5	439.5	1.5	24.9	87.6	432.9	100.4	76.4	80.7	27.5	34.2	365.5	15.6	229	0.9
2200	304.9	1.013	309.0	71.3	45.4	993.3	995.4	702.5	8.6	4.8	107.1	408.2	1.5	24.9	87.9	458.7	103.0	75.2	80.1	27.0	34.3	413.5	15.6	223	0.6
2000	318.2	1.013	322.5	68.0	45.4	993.3	995.4	602.1	12.7	4.6	116.0	373.1	1.5	24.9	83.1	469.9	103.0	75.0	80.0	27.0	34.4	344.6	14.6	217	0.8
1800	318.9	1.013	323.2	61.2	45.6	993.3	995.4	500.1	9.4	4.3	116.0	331.7	1.6	24.9	76.5	470.2	103.2	74.8	79.9	26.7	34.5	392.0	13.2	218	0.7
1600	318.6	1.014	322.9	54.2	45.6	993.2	995.4	434.6	3.2	4.0	122.9	302.5	1.6	24.9	70.9	459.8	101.6	74.5	79.9	26.5	34.5	440.9	11.8	221	0.4
1400	307.5	1.014	311.6	45.9	45.7	993.2	995.4	354.4	-1.2	3.6	132.8	281.4	1.6	24.9	66.0	448.6	100.5	74.2	79.8	26.2	34.4	198.7	9.9	219	0.9
1200	290.8	1.014	294.9	37.4	45.7	993.2	995.3	274.3	0.8	3.1	138.2	258.6	1.5	24.9	60.9	431.9	99.5	74.1	79.9	25.9	34.2	427.2	8.4	228	1.0
1000	260.6	1.014	264.3	28.1	45.7	993.2	995.3	173.7	0.1	2.5	135.5	229.6	1.4	24.9	55.8	408.7	97.6	73.7	79.9	25.6	34.3	286.8	6.3	228	1.3

APPENDIX W: BIODIESEL BLENDS TESTING – POWER OUTPUT

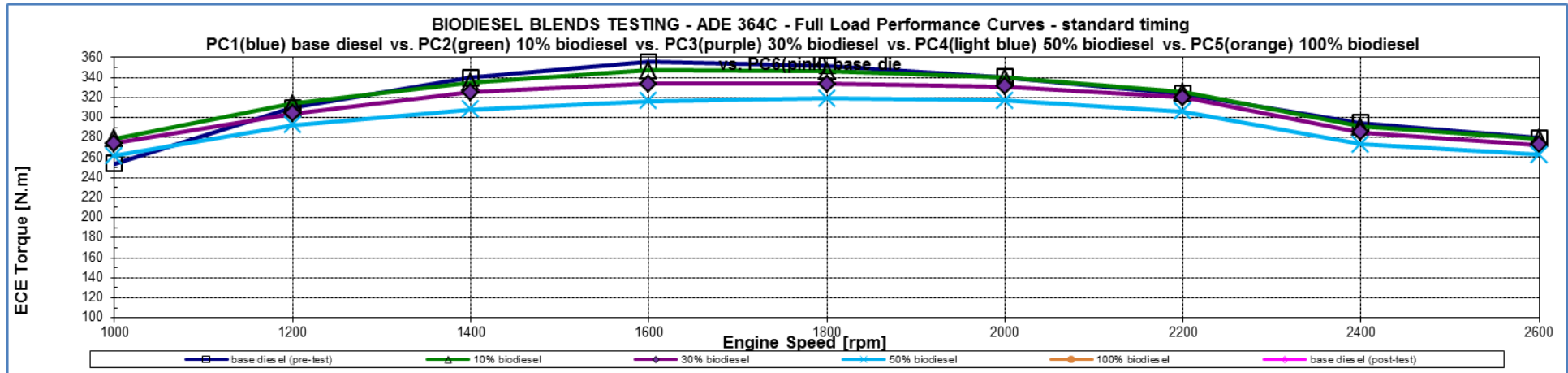


15°BTDC - RESULTS

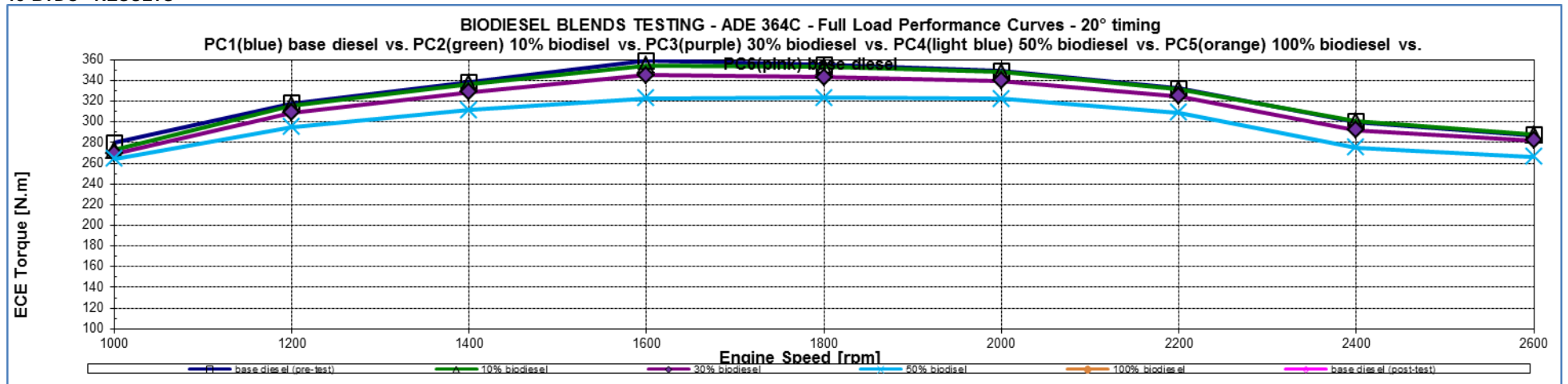


20°BTDC - RESULTS

APPENDIX X: BIODIESEL BLENDS TESTING – TORQUE

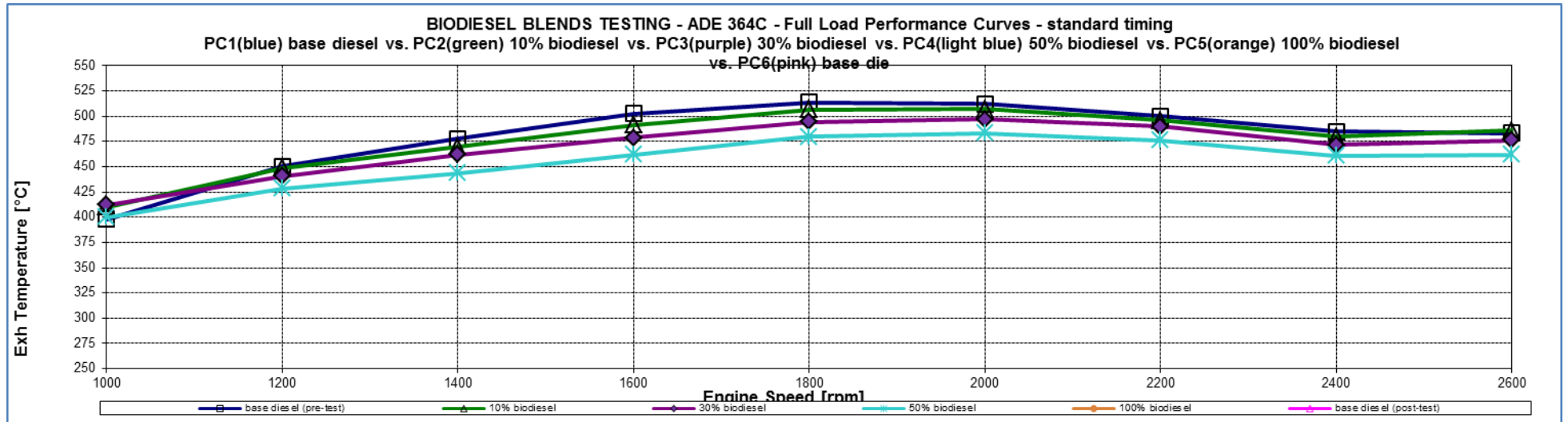


15°BTDC - RESULTS

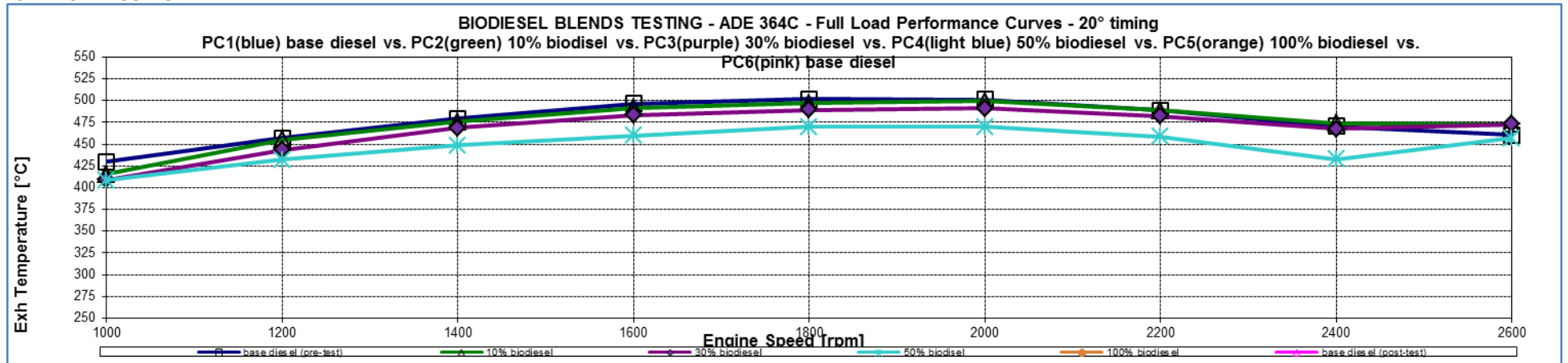


20°BTDC - RESULTS

APPENDIX Y: BIODIESEL BLENDS TESTING – EXHAUST TEMPERATURE

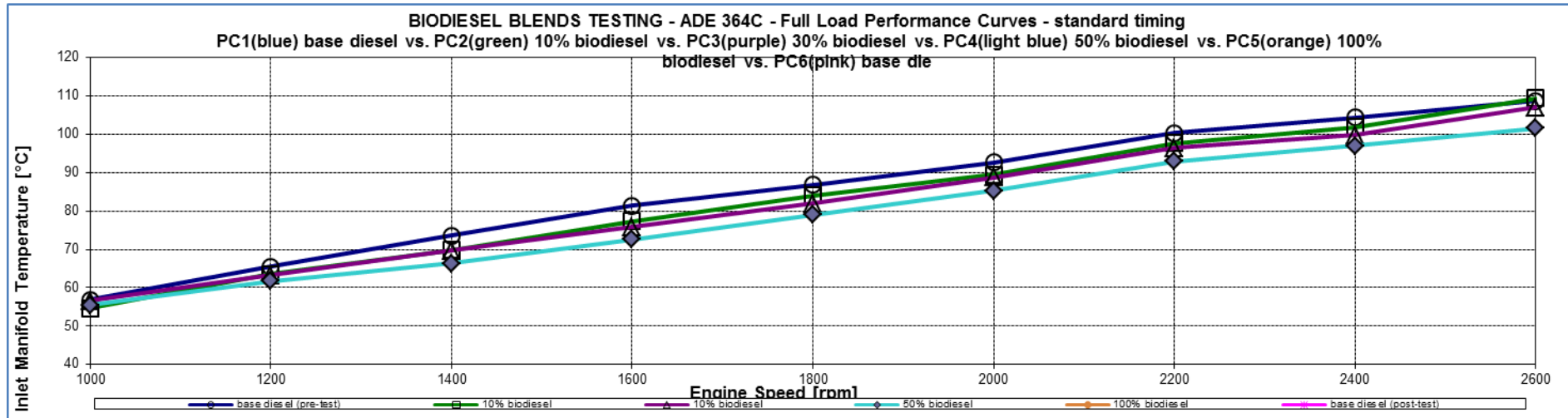


15°BTDC - RESULTS

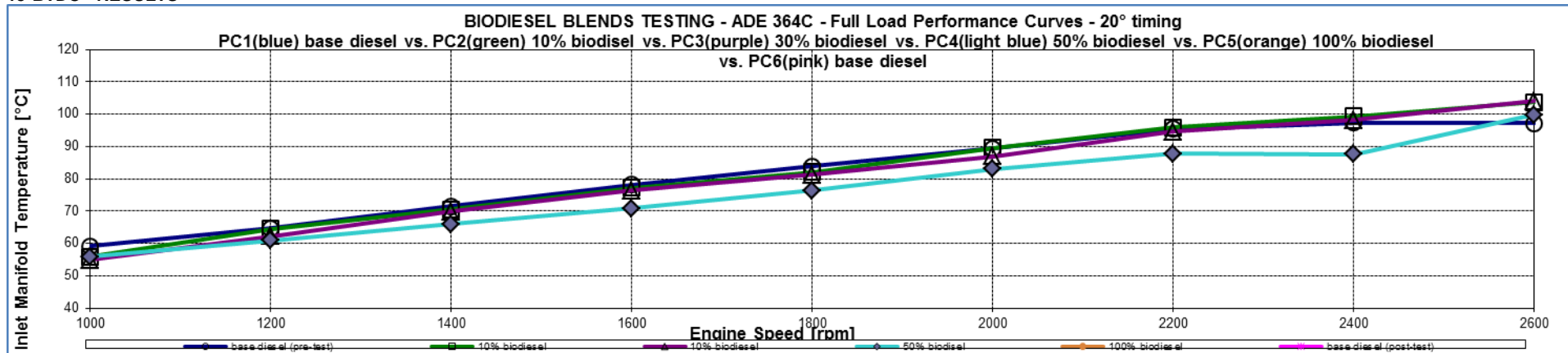


20°BTDC - RESULTS

APPENDIX Z: BIODIESEL BLENDS TESTING – INLET MANIFOLD TEMPERATURE

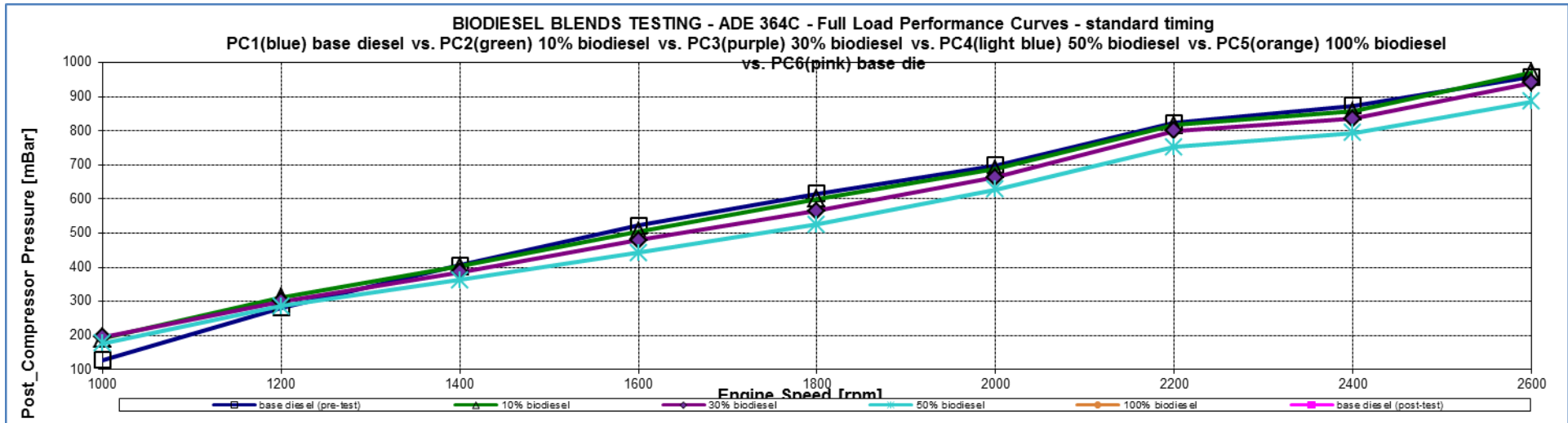


15°BTDC - RESULTS

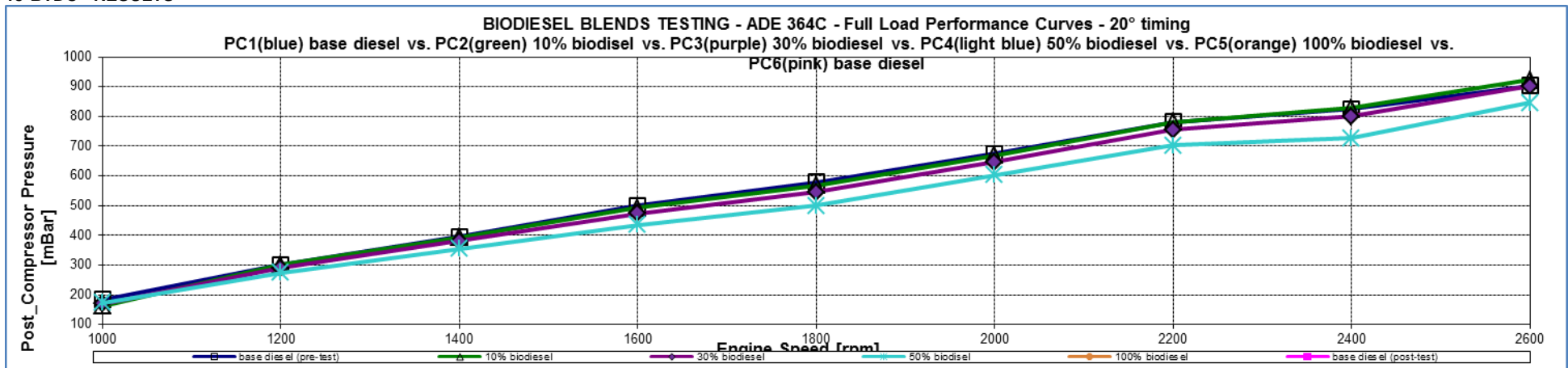


20°BTDC – RESULTS

APPENDIX AA: BIODIESEL BLENDS TESTING – POST COMPRESSOR PRESSURE

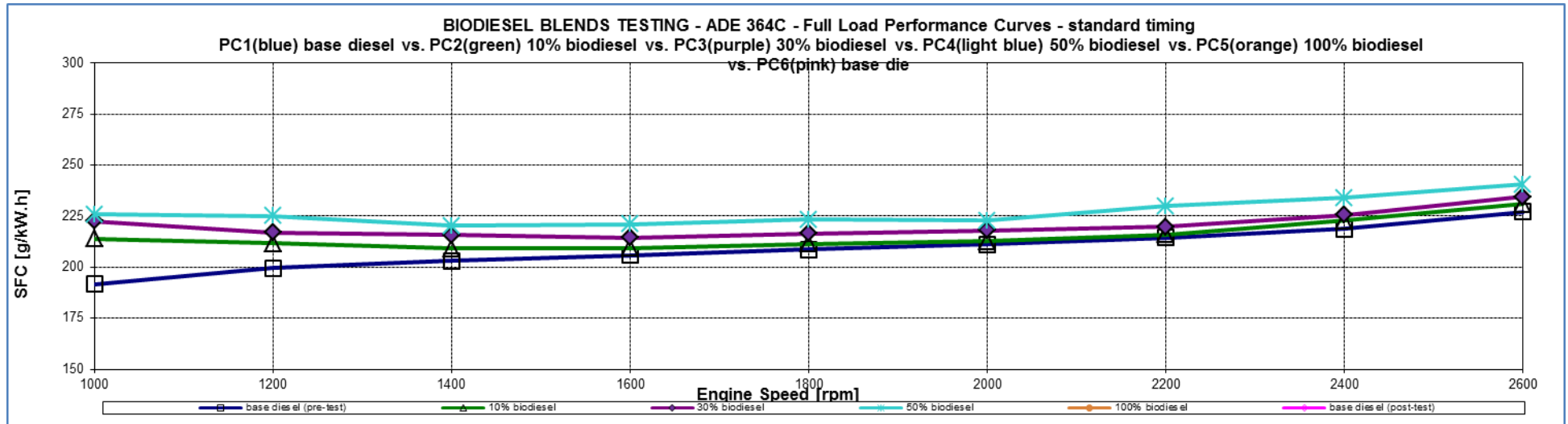


15°BTDC - RESULTS

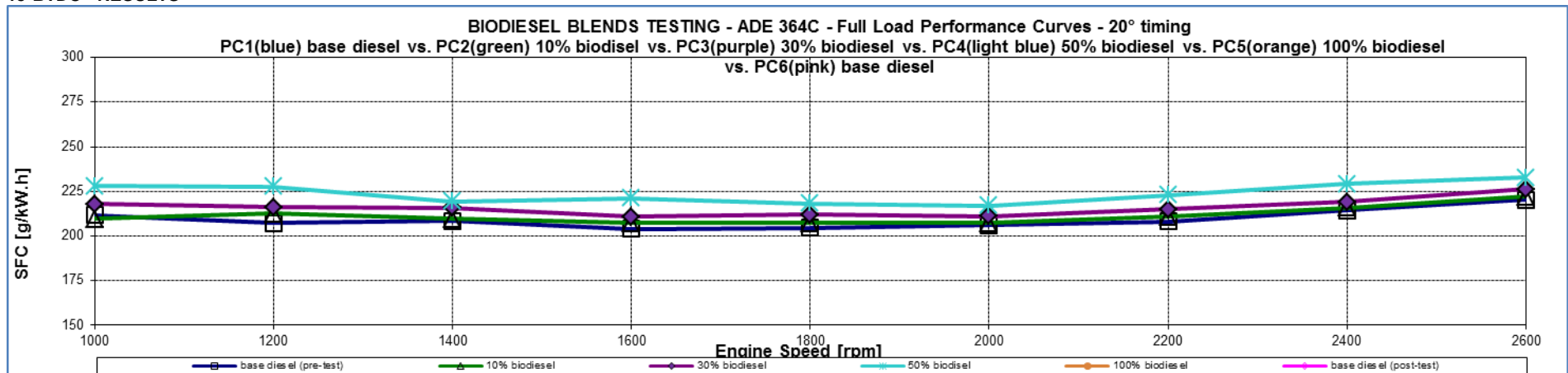


20°BTDC - RESULTS

APPENDIX AB: BIODIESEL BLENDS TESTING – SPECIFIC FUEL CONSUMPTION

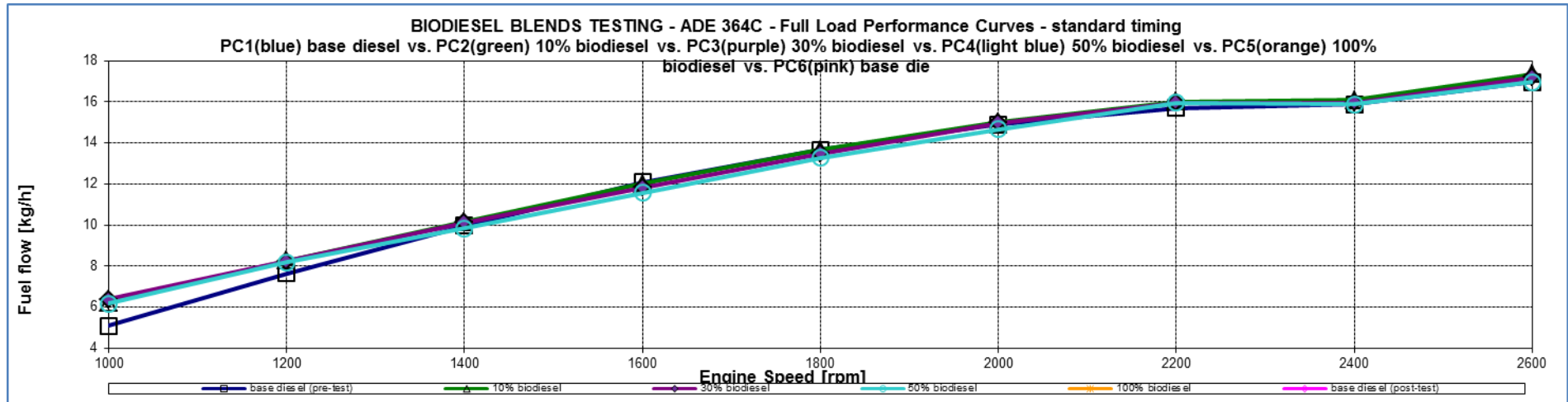


15°BTDC - RESULTS

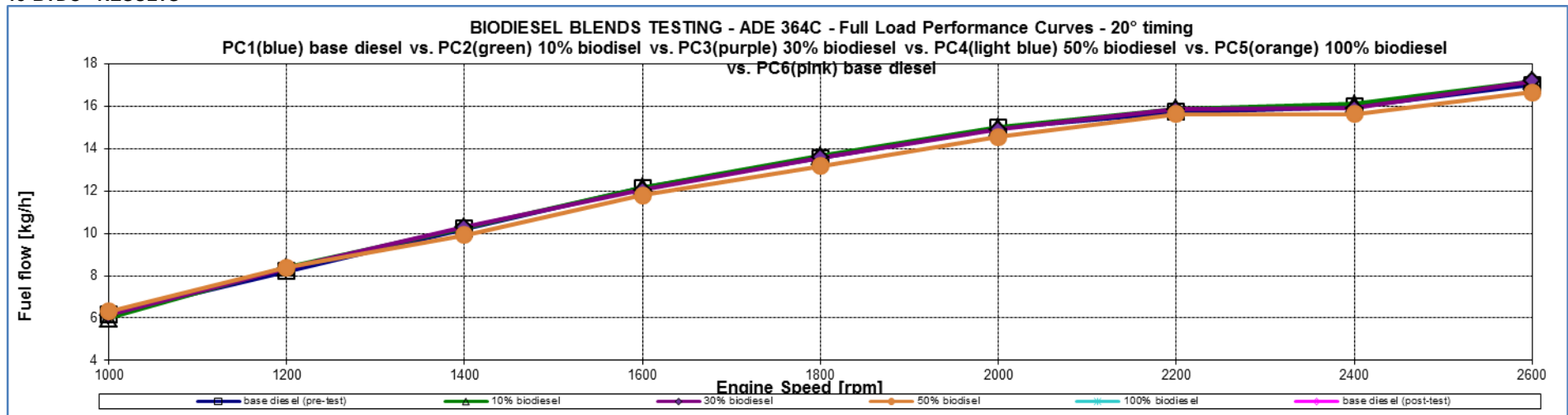


20°BTDC – RESULTS

APPENDIX AC: BIODIESEL BLENDS TESTING – FUEL FLOW

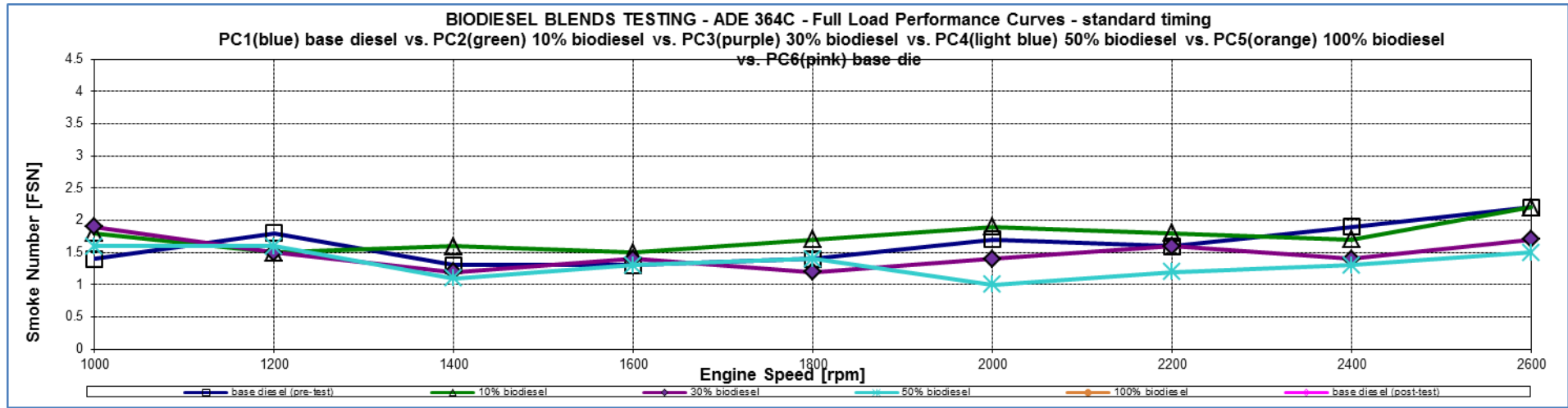


15°BTDC - RESULTS

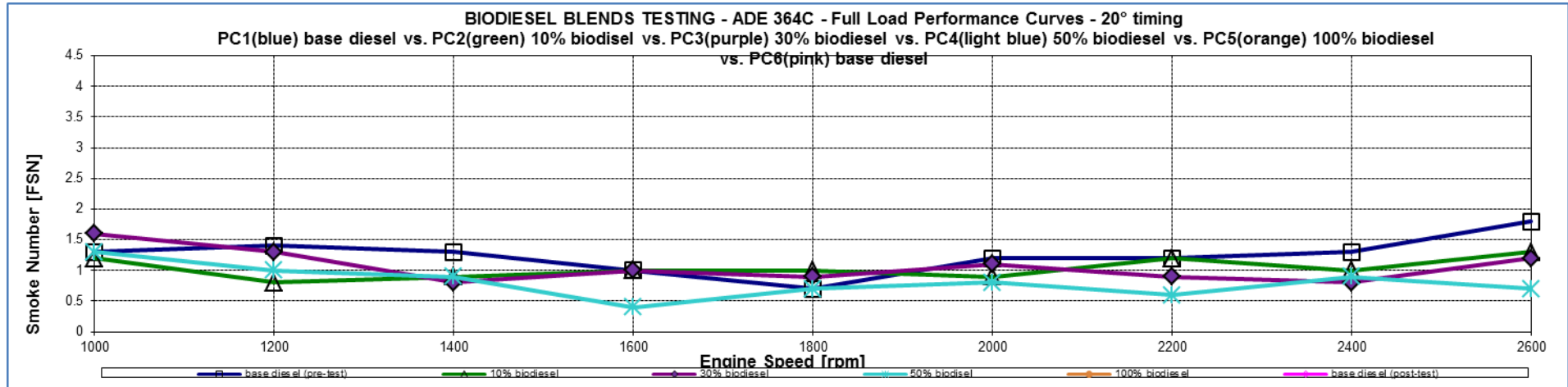


20°BTDC – RESULTS

APPENDIX AD: BIODIESEL BLENDS TESTING – SMOKE NUMBER



15°BTDC - RESULTS



20°BTDC - RESULTS

APPENDIX AE: RAW DATA – BDW30 BLEND AT 15°BTDC

Manual Log Description : Power Curve on 30% waste
 cooking oil & 70% base diesel
 Manual Log Start Date :
 2012/01/19
 Manual Log Start Time :
 01:02:03 AM

TIME	mSec	Eng_Time	Speed	Torque	~ECE_Corr_Factor	~Torque_Corr	~Power_Corr	Humidity	~P_Baro	P_Pre_Co mpressor	P_Post_Co mpressor	P_Exhaust	P_Oil_Filter	P_Cool_In	P_Cool_Out	P_Fuel	T_Air_In_Snorkel	T_Post_Co mpressor	T_Exhaust	T_Oil_Sump	T_Cool_In	T_Cool_Out	T_Fuel	T_Cell	Fuel_Mass	Fuel_Flow	~SFC	Smoke
01:02:05 AM	328	504085	2609.11	267.966	1.01635	272.781	74.5406	48.0034	992.44	995.926	943.682	10.0578	5.068	73.7918	501.77	1.37502	25.2	106.71	475.9	105.199	75.4409	80.0028	25.7	35.8034	499.854	17.2192	233.693	0.1064
01:02:06 AM	328	504088	2609.05	268.216	1.01634	272.803	74.4974	47.9804	992.438	995.926	938.482	9.9788	5.05425	74.8464	499.841	1.37585	25.2	106.783	475.9	105.2	75.7335	80.2064	25.7718	35.8006	488.572	17.1618	233.83	0.09754
01:02:07 AM	328	504089	2608.83	268.3	1.01634	272.805	74.4757	48.0024	992.437	995.926	948.991	9.96415	5.04202	74.8225	500.592	1.36472	25.2	106.797	475.9	105.526	75.7877	80.2827	25.7335	35.8001	482.703	17.1852	234.051	0.05911
01:02:08 AM	328	504090	2609.6	267.986	1.01634	272.798	74.4704	47.9801	992.434	995.926	942.563	9.96144	5.08023	75.5235	500.171	1.35937	25.2	106.799	475.9	105.586	75.7977	80.2968	25.7472	35.8	477.715	17.217	234.314	0.1064
01:02:09 AM	328	504091	2609.75	268.613	1.01634	272.775	74.4688	47.976	992.436	995.926	943.479	10.1337	5.06342	74.7486	502.716	1.37094	25.2	106.8	475.952	105.597	75.7996	80.2994	25.7712	35.8	472.812	17.2366	234.488	0.1064
01:02:10 AM	328	504092	2609.8	268.199	1.01634	272.746	74.4703	47.9753	992.437	995.926	934.1	10.0321	5.03897	73.6754	504.102	1.35655	25.2	106.8	475.991	105.6	75.7999	80.2999	25.7132	35.8	468.103	17.2853	234.619	0.1064
01:02:11 AM	328	504093	2609.71	268.496	1.01635	272.723	74.488	47.9903	992.435	995.926	948.073	10.1701	5.04126	74.1453	502.718	1.36644	25.2	106.8	475.998	105.6	76.2627	80.4375	25.7024	35.8	463.308	17.2355	234.813	0.09754
01:02:12 AM	328	504094	2609.54	268.606	1.01634	272.719	74.5113	47.9869	992.439	995.926	949.836	10.0808	5.02751	74.7192	503.917	1.38248	25.2	106.8	476	105.6	76.3746	80.6514	25.7691	35.8	458.506	17.2439	234.988	0.01182
01:02:13 AM	328	504095	2609.42	268.215	1.01633	272.708	74.5316	47.9773	992.442	995.926	935.151	10.0349	5.05883	75.8603	501.883	1.35976	25.2	106.8	476	105.6	76.3953	80.691	25.7943	35.8	453.83	17.2103	235.134	0.1064
01:02:14 AM	328	504096	2609.88	268.386	1.01633	272.673	74.5428	47.9821	992.444	995.926	946.406	9.97454	5.05043	73.4019	501.009	1.35634	25.2	106.8	476	105.6	76.3991	80.6983	25.758	35.8	449.17	17.1805	235.156	0.1064
01:02:15 AM	328	504097	2609.26	268.435	1.01633	272.641	74.5414	47.9764	992.443	995.926	938.087	9.96337	5.05425	74.6194	504.249	1.37071	25.2	106.8	476	105.6	76.3998	80.6997	25.7297	35.8	444.265	17.1583	235.017	0.1064
01:02:16 AM	328	504098	2609.32	268.678	1.01633	272.645	74.5404	47.9753	992.443	995.926	934.852	9.98607	5.02903	74.1918	500.727	1.3455	25.2	106.8	476	105.6	76.2435	80.6999	25.787	35.8	439.618	17.2812	234.815	0.200985
01:02:17 AM	328	504099	2609.85	267.947	1.01633	272.669	74.5406	47.9751	992.442	995.926	943.066	10.0822	5.05043	74.9018	503.075	1.35407	25.2	106.8	476	105.6	76.1266	80.4686	25.7976	35.8	434.79	17.1921	234.667	0.1064
01:02:18 AM	328	504100	2609.98	268.106	1.01634	272.674	74.5315	47.9751	992.438	995.926	941.438	9.98332	5.06647	75.0018	501.546	1.36623	25.2	106.8	476	105.6	76.1049	80.4127	25.7996	35.8	429.941	17.1595	234.582	0.1064
01:02:19 AM	328	504101	2609.35	267.898	1.01633	272.667	74.5143	47.9751	992.44	995.926	934.411	10.154	5.06724	74.7653	504.598	1.37907	25.2	106.8	476	105.6	76.1009	80.4024	25.7999	35.8	425.152	17.1683	234.579	0.01734
01:02:20 AM	328	504102	2609.58	268.176	1.01633	272.661	74.4893	47.9751	992.444	995.926	939.484	10.1253	5.03667	73.6919	502.007	1.38854	25.2	106.8	476.072	105.6	76.1002	80.4004	25.8	35.8	420.38	17.1728	234.589	0.106404
01:02:21 AM	328	504103	2609.16	267.765	1.01633	272.659	74.4646	47.9751	992.44	995.926	942.487	10.0188	5.04202	75.5068	501.253	1.36961	25.2	106.8	476.095	105.6	75.986	80.4001	25.8	35.8	415.672	17.1736	234.518	0.06798
01:02:22 AM	328	504104	2609.6	267.559	1.01634	272.644	74.44	47.9751	992.437	995.926	942.7	10.1179	5.04814	75.176	503.932	1.36223	25.2	106.8	476.099	105.6	75.5901	80.2957	25.8	35.8	410.996	17.1127	234.452	0.1064

01:02:23 AM	328	50410 5	2609. 1	268. 401	1.01634	272.609	74.423	47.9 751	992. 436	995.926	950.553	10.20 84	5.0236 9	75.39 8	501.22 6	1.36 809	25.2	106.8	476.1	105.67 2	75.51 67	80.217 7	25.8	35.8	406.1 63	17.09 93	234. 354	0.106 4
01:02:24 AM	328	50410 6	2609. 22	267. 781	1.01634	272.571	74.4104	47.9 751	992. 434	995.926	943.556	10.14 1	5.0298	74.49 74	502.88 3	1.38 985	25.2	106.8	476.1	105.69 5	75.50 31	80.203 3	25.8	35.8	401.3 81	17.13 21	234. 236	0.041 38
01:02:25 AM	328	50410 7	2609. 57	267. 731	1.01634	272.538	74.4084	47.9 751	992. 433	996.153	936.113	10.05 12	5.0496 6	74.85 54	501.51 2	1.36 405	25.2	106.8	476.1 69	105.69 9	75.50 06	80.200 6	25.8	35.8	396.6 71	17.14 84	234. 136	0.106 4
01:02:26 AM	328	50410 8	2608. 86	268. 112	1.01634	272.497	74.4099	47.9 751	992. 432	995.926	942.192	10.02 33	5.0534 8	73.54 02	501.40 5	1.37 386	25.2	106.995	476.2 76	105.7	75.50 01	80.200 1	25.8	35.8	391.8 8	17.11 77	234. 011	0.038 424
01:02:27 AM	328	50410 9	2609. 26	267. 813	1.01634	272.46	74.4093	47.9 751	992. 434	995.926	940.395	10.01 44	5.0427 9	75.33 06	501.19 4	1.39 593	25.2	107.081	476.2 96	105.7	75.70 59	80.21	25.8	35.8	387.0 3	17.18 5	233. 937	0.106 4
01:02:28 AM	328	50411 0	2609. 29	267. 443	1.01634	272.422	74.4052	47.9 751	992. 432	995.926	945.303	10.08 83	5.0534 8	74.87 51	502.34 8	1.39 829	25.2	107.096	476.2 99	105.7	75.78 26	80.283 3	25.8	35.8	382.2 33	17.23 6	233. 989	0.106 4
01:02:29 AM	328	50411 1	2610. 13	267. 335	1.01635	272.36	74.3829	47.9 751	992. 427	995.926	940.919	10.04 84	5.0473 7	74.24 43	504.13 9	1.36 026	25.2	107.099	476.3	105.7	75.79 68	80.296 9	25.8	35.8	377.5 35	17.20 28	234. 176	0.017 734
01:02:30 AM	328	50411 2	2609. 8	268. 078	1.01635	272.296	74.3617	47.9 751	992. 427	995.926	945.41	10.00 76	5.0397 3	73.42 78	504.43	1.39 666	25.2	107.1	476.3	105.7	75.79 94	80.299 4	25.8	35.8	372.6 95	17.17 91	234. 444	0.097 54
01:02:31 AM	328	50411 3	2609. 65	268. 08	1.01634	272.257	74.3519	47.9 751	992. 432	995.926	944.392	10.11 77	5.0366 7	74.74 66	505.21 1	1.39 109	25.2	107.1	476.3	105.7	75.79 99	80.299 9	25.8	35.8	367.9 35	17.20 02	234. 762	0.106 4
01:02:32 AM	328	50411 4	2609. 73	267. 841	1.01635	272.247	74.3588	47.9 751	992. 429	995.926	940.603	10.14 44	5.0496 6	74.94 21	502.85 3	1.39 2	25.2	107.1	476.3	105.7	75.88 19	80.3	25.8	35.8	363.1 19	17.28 24	234. 974	0.106 4
01:02:33 AM	328	50411 5	2609. 43	267. 345	1.01634	272.234	74.3763	47.9 751	992. 432	995.926	934.436	10.08 55	5.0527 2	75.27 3	502.45 8	1.38 517	25.2	107.1	476.3	105.74	75.97 81	80.365 1	25.8	35.9	358.4 03	17.34 24	235. 152	0.106 4
01:02:34 AM	328	50411 6	2609. 34	267. 46	1.01634	272.208	74.3807	47.9 751	992. 432	995.926	942.178	10.13 16	5.0450 8	76.16 29	503.42 3	1.37 022	25.2	107.1	476.3	106.03 3	75.99 59	80.393 5	25.8	35.9	353.7 08	17.28 42	235. 374	0.192 118
01:04:23 AM	328	50422 5	2405. 64	281. 171	1.01541	284.725	71.7822	47.9 745	992. 411	995.926	839.328	8.742 62	4.9083 1	86.95 21	458.32 5	1.35 519	24.8997	100.1	471.5 01	107.1	75.4	80	26	35.8	260.6 74	15.93 1	225. 106	0.106 4
01:04:24 AM	328	50422 6	2406. 13	281. 114	1.01543	284.772	71.8092	47.9 75	992. 403	995.926	842.949	8.789 72	4.9121 3	87.85 49	459.88 5	1.36 775	24.9	100.1	471.5	107.1	75.4	80	26	35.8	256.2 32	15.94 49	225. 105	0.047 291
01:04:25 AM	328	50422 7	2405. 77	281. 324	1.01543	284.821	71.8429	47.9 751	992. 397	995.926	843.236	8.765 41	4.9113 7	87.78 12	459.90 2	1.37 115	24.9	100.1	471.5	107.1	75.4	80	26	35.8	251.7 25	15.94 21	225. 105	0.106 404
01:04:26 AM	328	50422 8	2405. 78	281. 064	1.01544	284.888	71.8807	47.9 751	992. 388	996.153	836.486	8.813 03	4.9136 6	87.04 45	460.19 6	1.36 646	24.9	100.1	471.4 53	107.1	75.4	80	26	35.8	247.3 28	15.97 88	225. 111	0.026 601
01:04:27 AM	328	50422 9	2405. 72	280. 595	1.01546	284.973	71.9085	47.9 751	992. 378	995.926	838.004	8.740 45	4.9129	86.50 49	459.63 3	1.36 335	24.9	99.8847	471.4 1	107.1	75.4	80	26	35.8	242.9 75	15.99 42	225. 18	0.076 847
01:04:28 AM	328	50423 0	2405. 72	280. 889	1.01546	285.043	71.9112	47.9 751	992. 376	995.926	829.267	8.896 71	4.9113 7	87.56 63	460.51	1.36 17	24.9	99.8157	471.4 02	107.1	75.4	79.981	26	35.8	238.5 64	15.97 71	225. 272	0.106 4
01:04:29 AM	328	50423 1	2405. 59	280. 64	1.01547	285.091	71.8952	47.9 751	992. 373	995.926	835.839	8.935 85	4.9090 8	87.40 67	459.69 2	1.36 189	24.9	99.8029	471.4	106.51 4	75.4	79.915	26	35.9	234.0 85	16.00 57	225. 405	0.047 291
01:04:30 AM	328	50423 2	2405. 82	280. 393	1.01547	285.116	71.8646	47.9 751	992. 367	996.153	828.706	8.963 73	4.9174 8	87.97 1	460.43 3	1.36 292	24.9	99.8005	471.4	106.25 8	75.4	79.902 8	26	36.0	229.5 88	16.03 23	225. 604	0.026 601
01:04:31 AM	328	50423 3	2405. 71	280. 37	1.01547	285.126	71.8268	47.9 751	992. 367	995.926	838.292	8.930 21	4.9129	88.64 24	459.61 1	1.36 825	24.9	99.8001	471.3 8	106.21 1	75.4	79.900 5	26	36.0	225.2 08	15.99 59	225. 833	0.050 25
01:04:32 AM	328	50423 4	2405. 75	280. 452	1.01547	285.126	71.7937	47.9 751	992. 366	995.926	833.289	8.887 09	4.9106	87.89 01	459.69 9	1.36 982	24.9	99.8	471.2 33	106.20 2	75.4	79.900 1	26	36.0	220.7 08	16.02 15	226. 048	0.079 8
01:04:33 AM	328	50423 5	2406. 04	280. 677	1.01548	285.124	71.7669	47.9 751	992. 364	995.926	834.259	8.827 24	4.9098 4	88.12 5	458.89 3	1.36 732	24.9	99.8	471.2 06	106.2	75.4	79.9	26.0	36.0	216.2 81	16.02 57	226. 286	0.106 4
01:04:34 AM	328	50423 6	2405. 49	280. 916	1.01549	285.124	71.7546	47.9 751	992. 352	995.926	839.445	8.940 56	4.9060 2	87.85 71	459.84 5	1.36 751	24.9	99.8	471.2 01	106.39	75.4	79.974 6	26.0	36.1	211.8 38	16.02 12	226. 476	0.059 11
01:04:35 AM	328	50423 7	2405. 55	281. 022	1.01549	285.13	71.7676	47.9 751	992. 354	995.926	834.377	8.736 45	4.8999 1	87.58 29	460.76 1	1.37 247	24.9	99.8	471.2	106.80 5	75.4	79.995 3	26.0	36.2	207.4 71	15.97 93	226. 587	0.026 601
01:04:36 AM	328	50423 8	2405. 64	280. 638	1.01548	285.138	71.7944	47.9 751	992. 359	995.926	836.914	8.706 2	4.9037 3	88.09 08	460.31	1.37 607	24.9	99.8	471.2	106.88 2	75.4	79.999 1	26.0	36.2	203.0 17	15.94 26	226. 612	0.106

01:06:37 AM	328	50435 9	2201. 96	314. 852	1.01513	319.874	73.7455	48.1 232	992. 432	995.926	798.181	11.95 45	4.6966 7	106.4 31	423.81 7	1.37 415	24.8	96.4	489.8	105.90 6	75.3	80.199 2	25.9	35.9	315.7 3	15.97 47	220. 531	0.162 562
01:06:38 AM	328	50436 0	2202. 11	314. 945	1.01513	319.849	73.7359	48.1 02	992. 429	995.926	799.452	12.12 32	4.6905 6	105.9 8	423.93 2	1.38 757	24.8	96.4	489.7 28	105.90 1	75.3	80.199 9	25.9	35.9	311.1 73	16.00 38	220. 317	0.106 4
01:06:39 AM	328	50436 1	2202. 03	315	1.01513	319.825	73.7288	48.1 121	992. 425	995.926	806.354	11.94 02	4.6943 8	106.0 49	423.38 9	1.34 916	24.8	96.4	489.7 05	105.9	75.3	80.2	25.9	35.9	306.9 79	15.96 43	220. 098	0.065 025
01:06:40 AM	328	50436 2	2202. 2	315. 075	1.01513	319.801	73.7258	48.1 067	992. 427	995.926	809.977	11.87 57	4.6844 4	104.8 52	423.93 4	1.35 73	24.8	96.4	489.7 01	105.9	75.3	80.2	25.9	35.9	302.5 18	15.94 99	219. 95	0.106 404
01:06:41 AM	328	50436 3	2202. 23	315. 288	1.01513	319.795	73.7303	48.1 092	992. 429	995.926	807.756	11.95 5	4.6897 9	105.1 72	422.94 7	1.33 661	24.8	96.4	489.7	106.13 1	75.3	80.2	25.9	36.0	298.1 01	15.94 84	219. 9	0.106 4
01:06:42 AM	328	50436 4	2202. 24	315. 387	1.01514	319.81	73.7472	48.1 25	992. 432	995.926	811.426	11.90 57	4.6875 4	105.7 4	422.58 3	1.36 348	24.8	96.4	489.7	106.18 7	75.3	80.2	25.9	36.1	293.6 57	15.93 58	219. 876	0.008 867
01:06:43 AM	328	50436 5	2201. 98	315. 235	1.01514	319.83	73.7702	48.1 547	992. 432	995.926	802.21	12.18 78	4.6897 9	106.0 73	422.38 9	1.34 135	24.8	96.4	489.7 47	106.19 8	75.3	80.2	25.9	36.1	289.2 65	15.91 59	219. 766	0.076 847
01:06:44 AM	328	50436 6	2202. 04	314. 953	1.01514	319.84	73.7865	48.1 329	992. 43	995.926	801.632	12.11 03	4.6890 3	105.5 38	423.29 1	1.34 638	24.8	96.4	489.7 9	106.2	75.3	80.2	25.9	36.1	284.7 33	15.94 38	219. 601	0.106 4
01:06:45 AM	328	50436 7	2202. 06	314. 964	1.01513	319.84	73.7928	48.1 179	992. 428	995.926	801.575	12.00 84	4.6905 6	105.3 7	423.37 1	1.35 134	24.8	96.4	489.7 98	106.2	75.15 65	80.181	25.9	36.1	280.3 61	15.96 49	219. 418	0.038 424
01:06:46 AM	328	50436 8	2202. 48	315. 086	1.01513	319.836	73.7847	48.1 077	992. 432	995.926	799.517	12.06 9	4.6966 7	105.9 86	423.94 5	1.34 591	24.8	96.4	489.8	106.2	75.11 05	80.115	25.9	36.2	275.8 66	15.95 87	219. 31	0.106 4
01:06:47 AM	328	50436 9	2202. 28	315. 513	1.01514	319.841	73.777	48.1 418	992. 433	995.926	802.095	11.99 35	4.6959 5	105.9 35	422.47 1	1.36 255	24.8	96.4	489.8	106.2	75.10 19	80.102 8	25.9	36.2	271.4 53	15.91 63	219. 305	0.106 4
01:06:48 AM	328	50437 0	2201. 81	315. 168	1.01571	319.866	73.82	48.1 33	992. 43	995.926	798.311	11.91 31	4.6928 5	105.3 65	423.43 9	1.34 646	24.9838	96.4	489.8	106.2	75.10 04	80.100 5	25.9	36.2	267.1 27	15.86 32	219. 343	0.085 714
01:06:49 AM	328	50437 1	2202. 55	315. 033	1.01602	319.909	73.852	48.1 587	992. 435	995.926	806.731	11.98 22	4.6890 3	105.6 42	422.45 9	1.34 089	25.0785	96.4	490.0 44	106.2	75.10 01	80.100 1	25.9	36.2	262.7 36	15.87 06	219. 297	0.106 4
01:06:50 AM	328	50437 2	2202. 22	315. 28	1.01608	319.948	73.8634	48.1 579	992. 436	996.153	802.529	12.07 26	4.6897 9	105.7 3	422.34 1	1.33 329	25.096	96.4	490.0 9	106.2	75.1	80.1	25.9	36.2	258.3 97	15.88 39	219. 133	0.026 601
01:06:51 AM	328	50437 3	2202. 1	315. 335	1.01607	319.992	73.8614	48.1 334	992. 446	995.926	792.46	12.20 27	4.6890 3	105.8 72	424.1 792	1.33 792	25.0993	96.4	490.0 98	106.2	75.1	80.1	25.9	36.2	253.8 69	15.87 44	218. 885	0.106 4
01:06:52 AM	328	50437 4	2202. 09	315. 486	1.01608	320.045	73.8625	48.1 381	992. 444	995.926	802.081	12.01 59	4.6920 8	105.8 39	423.41 5	1.33 303	25.0999	96.4	490.1	106.2	75.1	80.1	25.9	36.2	249.5 09	15.90 18	218. 624	0.038 424
01:06:53 AM	328	50437 5	2202. 05	314. 836	1.01608	320.098	73.8641	48.1 501	992. 446	995.926	799.186	11.93 17	4.6966 7	105.8 86	424.43 1	1.34 474	25.1	96.4	490.1	106.2	75.1	80.1	25.9	36.2	245.0 76	15.84 91	218. 494	0.047 291
01:06:54 AM	328	50437 6	2202. 39	315. 247	1.01609	320.132	73.8691	48.1 722	992. 443	995.926	797.633	12.14 51	4.6913 2	105.3 83	423.27 7	1.35 991	25.1	96.4	490.0 35	106.2	75.1	80.1	25.9	36.2	240.6 11	15.81 23	218. 405	0.106 4
01:06:55 AM	328	50437 7	2201. 33	315. 411	1.01609	320.152	73.8692	48.1 636	992. 443	995.926	801.485	12.03 66	4.6905 6	105.7 7	423.33 7	1.33 468	25.1	96.4	490.0 06	106.2	75.1	80.1	25.9	36.2	236.1 93	15.88 18	218. 352	0.106 4
01:06:56 AM	328	50437 8	2202. 06	315. 179	1.01608	320.169	73.8626	48.1 497	992. 445	996.153	801.614	12.11 9	4.6890 3	105.4 62	423.97 9	1.33 874	25.1	96.4	490.0 01	106.2	75.1	80.059 1	25.9	36.2	231.6 78	15.91 82	218. 3	0.106 4
01:06:57 AM	328	50437 9	2202. 06	314. 989	1.01609	320.195	73.861	48.1 557	992. 438	996.153	792.195	12.14 55	4.6905 6	106.1 75	422.20 1	1.33 97	25.1	96.4	490	106.13 1	75.1	80.010 9	25.9	36.2	227.3 09	15.90 14	218. 257	0.106 4
01:08:31 AM	328	50447 3	2013. 74	326. 192	1.01546	331.662	69.8869	48.2 268	992. 456	995.926	670.085	13.93 91	4.5003 1	114.7 81	389.99 4	1.38 196	24.9	89.3015	497.6	105.29 2	74.9	80.085 6	25.7	36.1	437.5 05	15.08 84	218. 719	0
01:08:32 AM	328	50447 4	2014. 16	326. 366	1.01547	331.611	69.8851	48.2 704	992. 458	996.153	660.771	13.85 68	4.5018 3	114.6 94	389.58	1.37 755	24.9	89.3003	497.6	105.21 7	74.9	80.097 3	25.7	36.1	433.3 9	15.08 39	218. 834	0.106 4
01:08:33 AM	328	50447 5	2014. 09	326. 209	1.01548	331.56	69.8833	48.2 724	992. 456	995.926	665.78	13.83 57	4.5003 1	114.8 98	387.70 8	1.37 984	24.9	89.3001	497.4 36	105.20 3	74.9	80.099 5	25.6 9	36.1	429.2 67	15.06 25	218. 971	0.088 67
01:08:34 AM	328	50447 6	2014. 41	325. 94	1.01548	331.517	69.876	48.2 788	992. 454	995.926	662.986	13.91 8	4.5071 8	114.2 3	387.97	1.35 482	24.9	89.1565	497.2 44	105.20 1	74.9	80.099 9	25.6 167	36.1	425.1 63	15.04 98	219. 07	0.011 82
01:08:35 AM	328	50447 7	2014. 12	326. 302	1.01548	331.474	69.8694	48.2 673	992. 452	995.926	668.252	14.00 02	4.5026 6	113.9 61	387.11 6	1.37 099	24.9	89.1105	497.2 08	105.2	74.9	80.062	25.6 802	36.1	420.9 49	15.04 74	219. 106	0.038 424

01:08:36 AM	328	50447 8	2014. 21	326. 181	1.01548	331.431	69.8616	48.2 678	992. 449	995.926	669.797	13.89 02	4.5079 5	113.9 91	387.69 8	1.38 012	24.9	89.1019	497.2 02	105.26 1	74.9	79.93	25.6 312	36.1	416.7 53	15.04 89	219. 044	0.106 4
01:08:37 AM	328	50447 9	2014. 28	326. 381	1.01549	331.382	69.8589	48.2 697	992. 447	995.926	657.73	13.78 52	4.5026	114.3 93	387.44	1.36 61	24.9	89.1004	497.2	105.29 3	74.9	79.905 6	25.6 058	36.1	412.6 33	15.05 31	218. 939	0.020 69
01:08:38 AM	328	50448 0	2013. 96	326. 382	1.01549	331.333	69.864	48.2 783	992. 447	995.926	669.584	13.93 8	4.4972 5	114.3 65	389.10 8	1.37 805	24.9	89.1001	497.2	105.29 9	74.9	79.901	25.6 011	36.1	408.4 45	15.05 39	218. 849	0.038 424
01:08:39 AM	328	50448 1	2014. 02	326. 22	1.01549	331.301	69.8738	48.2 625	992. 447	995.926	665.722	13.84 09	4.4957 2	115.1 44	388.60 6	1.37 333	24.9	88.9772	497.0 37	105.3	74.9	79.900 2	25.6 002	36.1	404.3 47	15.02 12	218. 788	0.026 601
01:08:40 AM	328	50448 2	2014. 35	326. 126	1.01549	331.285	69.8813	48.2 77	992. 448	995.926	668.818	13.89 18	4.4964 9	115.6 96	388.62 4	1.38 848	24.9	88.8328	497.0 07	105.3	74.81 81	79.9	25.6 815	36.1	400.1 18	14.91 64	218. 708	0.106 4
01:08:41 AM	328	50448 3	2013. 96	326	1.01549	331.271	69.8758	48.2 797	992. 447	995.926	660.57	13.82 29	4.5041 3	115.9 85	389.83 6	1.37 959	24.9	88.8061	497.0 01	105.3	74.72 19	79.9	25.6 966	36.1	396.0 43	14.96 39	218. 525	0.106 4
01:08:42 AM	328	50448 4	2014. 15	325. 906	1.01549	331.251	69.8625	48.2 802	992. 447	995.926	667.456	13.82 51	4.5056 5	115.9 34	390.47 7	1.36 358	24.9	88.8011	497	105.3	74.70 41	79.9	25.6 381	36.1	391.9 41	14.89 64	218. 24	0.076 847
01:08:43 AM	328	50448 5	2014. 13	325. 995	1.01549	331.231	69.8475	48.2 803	992. 445	995.926	661.931	13.77 31	4.4995 4	115.8 57	391.62 7	1.38 256	24.9	88.8002	497	105.3	74.70 08	79.9	25.6 539	36.1	387.7 73	14.88 94	217. 812	0.065 025
01:08:44 AM	328	50448 6	2014. 16	326. 387	1.01549	331.214	69.8397	48.2 803	992. 445	995.926	663.397	13.92 36	4.5056 5	116.0 37	390.73 5	1.40 222	24.9	88.8	496.8 16	105.3	74.70 01	79.9	25.6 915	36.1	383.5 34	14.92 18	217. 424	0.106 4
01:08:45 AM	328	50448 7	2014. 2	326. 016	1.01549	331.207	69.8422	48.2 803	992. 447	995.926	663.214	13.87 04	4.5010 7	115.6 22	388.22 8	1.37 797	24.9	88.7229	496.7 22	105.3	74.7	79.9	25.6 984	36.1	379.5 1	14.98 53	217. 12	0.106 4
01:08:46 AM	328	50448 8	2013. 8	325. 547	1.01549	331.199	69.8458	48.2 977	992. 449	995.926	661.468	13.92 91	4.5026	115.5 81	389.58 4	1.37 513	24.9	88.7042	496.7 04	105.3	74.86 29	79.9	25.6 226	36.1	375.3 51	14.96 26	216. 976	0.106 4
01:08:47 AM	328	50448 9	2014. 13	325. 611	1.01549	331.174	69.8356	48.2 835	992. 447	995.7	670.125	13.83 44	4.4987 8	115.0 53	389.49 6	1.38 658	24.9	88.7008	496.7 01	105.23 1	74.89 31	79.9	25.6 042	36.1	371.1 57	14.93 94	217. 036	0.085 714
01:08:48 AM	328	50449 0	2014. 31	325. 686	1.0155	331.132	69.8075	48.2 965	992. 445	995.926	666.168	13.77 49	4.5071 8	114.1 76	387.60 4	1.37 318	24.9	88.7001	496.7	105.20 6	74.89 87	79.9	25.6 62	36.1	367.0 79	14.97 52	217. 209	0.106 4
01:08:49 AM	328	50449 1	2014. 18	325. 48	1.0155	331.089	69.7716	48.2 833	992. 445	995.926	669.724	13.81 56	4.5018 3	115.2 08	388.86 5	1.36 793	24.9	88.7	496.5 97	105.20 1	74.89 98	79.9	25.6 52	36.1	362.9 77	14.90 33	217. 425	0.106 4
01:08:50 AM	328	50449 2	2014. 18	325. 775	1.0155	331.039	69.7463	48.2 96	992. 447	995.926	663.988	13.83 53	4.4964 9	115.1 59	389.43	1.38 501	24.9	88.5162	496.4 36	105.2	74.9	79.9	25.6 096	36.1	358.8 15	14.95 59	217. 547	0.106 4
01:08:51 AM	328	50449 3	2014. 11	325. 8	1.0155	330.989	69.7397	48.3 019	992. 445	995.926	663.281	13.89 08	4.5033 6	114.7 89	388.79 1	1.37 146	24.9	88.4215	496.4 07	105.2	74.95 69	79.9	25.6 018	36.1	354.6 95	14.92 91	217. 603	0.106 4
01:08:52 AM	328	50449 4	2014. 26	325. 796	1.0155	330.945	69.7496	48.3 05	992. 445	995.926	663.31	13.75 52	4.5026	114.3 62	389.86 3	1.36 98	24.9	88.404	496.4 01	105.15 9	74.99 2	80.062 9	25.6 003	36.1	350.5 34	14.92 04	217. 581	0.106 4
01:08:53 AM	328	50449 5	2014. 32	325. 815	1.01551	330.917	69.7669	48.3 038	992. 439	995.926	659.216	13.79 8	4.5018 3	114.3 58	389.01 6	1.37 941	24.9	88.4007	496.4	105.11 1	74.99 85	80.093 1	25.6 001	36.1	346.4 44	14.94 18	217. 476	0.038 424
01:08:54 AM	328	50449 6	2014. 08	325. 656	1.01551	330.896	69.7783	48.2 945	992. 439	995.926	662.818	14.06 66	4.5102 4	114.9 35	387.37 6	1.35 142	24.9	88.4001	496.4	105.10 2	74.99 97	80.098 7	25.6	36.1	342.3 95	14.92 74	217. 433	0.106 4
01:08:55 AM	328	50449 7	2014. 15	325. 391	1.01552	330.874	69.7818	48.3 268	992. 436	995.926	654.645	13.96 97	4.5064 2	114.4 12	389.03 4	1.37 535	24.9	88.4	496.4	105.1	74.99 99	80.099 8	25.6	36.1	338.1 98	14.89 71	217. 348	0.106 4
01:08:56 AM	328	50449 8	2013. 94	325. 174	1.01551	330.838	69.7673	48.3 114	992. 437	995.926	658.883	13.85 12	4.5125 3	114.6 96	388.30 2	1.37 358	24.9	88.4	496.4	105.1	75	80.1	25.6	36.1	334.0 17	14.89 75	217. 274	0.106 4
01:08:57 AM	328	50449 9	2014. 04	325. 45	1.01553	330.778	69.7403	48.3 44	992. 437	995.926	659.495	13.80 25	4.5117 7	114.7 61	389.97 4	1.37 356	24.9	88.4	496.4	105.1	75	80.1	25.6	36.1	329.9 46	14.89 02	217. 228	0.008 867
01:08:58 AM	328	50450 0	2013. 92	325. 531	1.01554	330.712	69.7139	48.3 599	992. 434	995.926	669.899	13.84 64	4.5041 3	115.7 86	388.98 1	1.38 264	24.9	88.4	496.4	105.25 9	75	80.1	25.6	36.1	325.9 06	14.86 51	217. 133	0.056 158
01:08:59 AM	328	50450 1	2013. 92	325. 226	1.01553	330.662	69.6966	48.3 444	992. 432	995.926	666.772	13.77 71	4.5064 2	115.6 52	387.45 3	1.38 207	24.9	88.4	496.4	105.29 2	75	80.1	25.6	36.1	321.7 29	14.88 53	217. 046	0.106 4
01:09:00 AM	328	50450 2	2014. 1	325. 242	1.01554	330.638	69.6908	48.3 499	992. 433	995.926	660.811	13.88 1	4.5018 3	115.1 67	389.51 4	1.36 6	24.9	88.4	496.3 53	105.29 9	75	80.1	25.6	36.1	317.5 99	14.89 96	216. 976	0.106 4

01:10:17 AM	328	50457 9	1808. 92	328. 797	1.01558	333.311	63.2427	48.4 94	992. 448	995.7	572.612	8.586 16	4.2550 4	122.4 93	354.24 9	1.44 137			494.7 08	104.6	74.77 29	80	25.6	35.9	510.9 38	13.49 44	216. 896	0.106 4
01:10:18 AM	328	50458 0	1809. 14	328. 599	1.01557	333.381	63.2544	48.4 939	992. 449	995.926	579.177	8.584 64	4.2588 6	121.8 98	353.88 4	1.41 992			494.7 02	104.6	74.71 35	80	25.6	35.9	507.2 51	13.47 64	216. 76	0.106 4
01:10:19 AM	328	50458 1	1808. 93	328. 808	1.01558	333.457	63.2589	48.4 975	992. 446	995.7	571.61	8.288 22	4.2542 8	122.1 43	355.47 9	1.43 722			494.7	104.27 4	74.70 25	80	25.6	35.9	503.4 34	13.48 36	216. 651	0.026 601
01:10:20 AM	328	50458 2	1809. 05	328. 436	1.01557	333.525	63.2523	48.4 946	992. 451	995.926	564.872	8.190 49	4.2565 7	121.0 32	354.99 9	1.43 427			494.7	104.21 4	74.70 05	80	25.6	35.9	499.7 05	13.47 52	216. 596	0.056 158
01:10:21 AM	328	50458 3	1808. 84	328. 151	1.01557	333.589	63.2396	48.4 94	992. 449	995.7	559.191	8.155 71	4.2558 1	121.0 78	352.84	1.42 532			494.5 96	104.20 3	74.70 01	80	25.6	35.9	495.9 49	13.48 25	216. 556	0.106 4
01:10:22 AM	328	50458 4	1809. 07	328. 308	1.01558	333.643	63.215	48.5 099	992. 449	995.7	549.427	8.162 74	4.2596 3	121.5 35	353.52 3	1.43 209			494.5 18	104.2	74.7	80	25.6	35.9	492.1 88	13.48 82	216. 532	0.106 4
01:10:23 AM	328	50458 5	1808. 68	328. 352	1.01558	333.684	63.1886	48.4 969	992. 447	995.7	549.663	8.271 18	4.2603 9	121.4 14	353.40 1	1.43 559			494.5 03	104.2	74.62 54	80	25.6	35.9	488.4 29	13.47 29	216. 553	0.041 38
01:10:24 AM	328	50458 6	1808. 94	328. 499	1.01558	333.701	63.1699	48.4 945	992. 447	995.7	549.055	8.358 28	4.2558 1	121.6 25	353.73 8	1.42 303			494.5 01	104.26 5	74.60 47	80	25.6	35.9	484.6 91	13.48 66	216. 594	0.050 25
01:10:25 AM	328	50458 7	1808. 77	328. 416	1.01558	333.706	63.1628	48.4 94	992. 443	995.7	552.393	8.232 45	4.2657 4	121.3 29	354.60 4	1.42 441			494.5	104.29 4	74.60 09	80	25.6	35.8 206	481.0 02	13.49 65	216. 67	0.106 4
01:10:26 AM	328	50458 8	1808. 73	328. 305	1.01559	333.697	63.1651	48.5 085	992. 438	995.926	559.646	8.387 07	4.2596 3	121.0 7	353.83 2	1.41 674			494.4 7	104.29 9	74.60 02	80	25.6	35.8 038	477.3 04	13.51 11	216. 748	0.065 025
01:10:27 AM	328	50458 9	1808. 55	328. 298	1.0156	333.677	63.1696	48.5 283	992. 438	995.7	562.776	8.406 23	4.2626 8	121.2 19	354.30 2	1.41 93			494.2 5	104.3	74.6	80	25.6	35.8 007	473.5 5	13.52 13	216. 82	0.106 4
01:10:28 AM	328	50459 0	1809. 04	328. 519	1.01559	333.644	63.1681	48.5 113	992. 436	995.7	560.528	8.212 31	4.2619 2	120.7 34	354.26 4	1.41 712			494.2 09	104.3	74.6	80	25.6	35.8 001	469.7 49	13.52 3	216. 937	0.106 4
01:10:29 AM	328	50459 1	1808. 9	328. 527	1.0156	333.617	63.1685	48.5 149	992. 436	995.7	559.333	8.349 47	4.2596 3	120.8 37	354.16 6	1.42 514			494.2 02	104.28 1	74.6	79.850 8	25.6	35.8	465.9 82	13.52 69	217. 056	0.056 158
01:10:30 AM	328	50459 2	1808. 91	328. 553	1.01559	333.588	63.175	48.5 033	992. 44	995.7	566.396	8.334 87	4.2581 1	121.4 98	353.76 3	1.42 954			494.2	104.21 5	74.6	79.809 4	25.6	35.8 522	462.2 62	13.51 41	217. 198	0.106 4
01:10:31 AM	328	50459 3	1808. 54	328. 518	1.01559	333.568	63.1883	48.5 205	992. 444	995.7	575.282	8.548 31	4.2649 8	120.9 43	352.46 1	1.43 293			494.2	104.20 3	74.6	79.801 7	25.6	35.8 911	458.5 21	13.5 292	217. 292	0.106 4
01:10:32 AM	328	50459 4	1808. 95	328. 034	1.01559	333.548	63.1944	48.5 082	992. 444	995.926	580.324	8.615 39	4.2611 6	121.9 11	352.60 2	1.42 498			494.0 05	104.20 1	74.6	79.800 3	25.6	35.8 984	454.8 55	13.47 1	217. 3	0.106 4
01:10:33 AM	328	50459 5	1809. 12	328. 38	1.01558	333.525	63.1908	48.5 07	992. 444	995.7	572.182	8.357 06	4.2588 6	121.0 74	353.62 3	1.43 269			493.9 19	104.2	74.61	79.800 1	25.6	35.8 997	451.1 16	13.44 57	217. 204	0.106 4
01:10:34 AM	328	50459 6	1808. 74	328. 401	1.01558	333.508	63.1773	48.4 963	992. 445	995.7	577.66	8.500 61	4.2611 6	120.7 95	354.86 6	1.44 906			493.9 04	104.2	74.68 33	79.893 7	25.6	35.8 999	447.3 77	13.44 62	217. 009	0.106 4
01:10:35 AM	328	50459 7	1808. 91	328. 409	1.01558	333.513	63.1662	48.4 998	992. 445	995.926	579.487	8.539 81	4.2626 8	120.5 86	353.27 5	1.43 766			493.9 01	104.2	74.69 69	79.980 3	25.6	35.9	443.6 47	13.48 15	216. 784	0.076 847
01:10:36 AM	328	50459 8	1808. 28	327. 812	1.01558	333.522	63.1584	48.5 066	992. 445	995.7	580.782	8.589 28	4.2642 1	121.5 17	354.15 5	1.43 795			493.9	104.2	74.69 94	79.996 4	25.6	35.9	439.9 18	13.47 14	216. 604	0.106 4
01:10:37 AM	328	50459 9	1808. 89	328. 233	1.01559	333.507	63.1494	48.5 343	992. 445	995.7	577.624	8.513 43	4.2565 7	120.9 68	352.67 5	1.42 439			493.8 19	104.2	74.69 99	79.999 3	25.6	35.9	436.2 57	13.41 3	216. 491	0.106 4
01:10:38 AM	328	50460 0	1808. 87	328. 181	1.01558	333.481	63.1385	48.5 323	992. 449	995.7	581.416	8.608 93	4.2611 6	120.9 37	353.65 4	1.43 207			493.6 41	104.2	74.7	79.999 9	25.6	35.9	432.5 36	13.43 24	216. 431	0.097 54
01:10:39 AM	328	50460 1	1809. 41	328. 677	1.01557	333.461	63.1293	48.5 054	992. 454	995.7	574.344	8.490 66	4.2611 6	120.9 49	353.89 3	1.42 82			493.6 08	104.2	74.7	80	25.6	35.9	428.7 9	13.42 23	216. 385	0.106 4
01:10:40 AM	328	50460 2	1808. 99	328. 237	1.01558	333.466	63.1379	48.5 112	992. 449	995.926	575.492	8.527 94	4.2626 8	121.2 37	353.45 3	1.43 603			493.6 01	104.2	74.7	80	25.6	35.9	425.0 19	13.38 73	216. 279	0.011 82
01:10:41 AM	328	50460 3	1808. 45	328. 44	1.01558	333.477	63.1558	48.5 152	992. 452	995.7	579.047	8.450 42	4.2672 7	121.4 38	352.29 3	1.43 228			493.6	104.2	74.7	80	25.6	35.9	421.3 26	13.42 32	216. 093	0.047 291

01:10:42 AM	328	50460 4	1808. 58	327. 808	1.01558	333.475	63.1711	48.5 294	992. 452	995.7	560.059	8.349 29	4.2634 5	120.7 43	353.07 9	1.42 853			24.9	81.6001	493.6	104.2	74.7	80	25.6	35.9	417.5 94	13.42 13	215. 912	0.106 4
01:10:43 AM	328	50460 5	1808. 51	327. 958	1.01558	333.443	63.1636	48.5 2	992. 452	995.7	552.156	8.141 61	4.2665	120.6 7	352.69 2	1.43 227			24.9	81.6	493.5 21	104.2	74.7	80	25.6	35.9	413.8 29	13.46 76	215. 762	0.017 734
01:10:44 AM	328	50460 6	1808. 81	327. 947	1.01557	333.394	63.14	48.5 006	992. 452	995.7	555.66	8.087 33	4.2657 4	121.0 57	353.14 8	1.43 243			24.9	81.6	493.5 04	104.2	74.7	80	25.6	35.9	410.1 15	13.45 46	215. 763	0.076 847
01:10:45 AM	328	50460 7	1808. 69	327. 903	1.01558	333.35	63.1097	48.5 038	992. 449	995.7	550.304	8.207 84	4.2611 6	121.5 83	353.48 9	1.44 4			24.9	81.6	493.5 01	104.2	74.7	80	25.6	35.9	406.4 54	13.41 54	215. 909	0.268 966
01:10:46 AM	328	50460 8	1808. 8	327. 937	1.01557	333.316	63.0888	48.4 957	992. 449	995.7	550.127	8.125 63	4.2680 3	119.6 94	353.18 7	1.41 8			24.9	81.6	493.5	104.2	74.73 8	80	25.6	35.9	402.7 15	13.42 6	216. 087	0.106 4
01:11:57 AM	328	50467 9	1601. 33	329. 497	1.0156	334.61	56.2235	48.5 446	992. 44	995.7	480.436	1.609 32	3.9310 8	127.5 06	321.96	1.41 527			24.9	76.2038	479.9 04	102.9	74.5	79.931 2	25.4	35.7	445.6 33	11.82 02	214. 213	0.106 4
01:11:58 AM	328	50468 0	1603. 06	328. 347	1.01561	334.628	56.2005	48.5 676	992. 443	995.7	478.751	1.726 02	3.9440 7	127.3 39	322.94 1	1.42 746			24.9	76.2007	479.9 01	103.03 7	74.5	79.824 3	25.4	35.7	442.3 04	11.84 92	213. 967	0.106 4
01:11:59 AM	328	50468 1	1602. 97	328. 888	1.01561	334.592	56.1635	48.5 719	992. 445	995.7	476.143	1.669 63	3.9555 3	127.2 6	322.08 2	1.42 635			24.9	76.2001	479.9	103.08 8	74.5	79.804 5	25.4	35.7	439.0 41	11.84 26	213. 914	0.251 232
01:12:00 AM	328	50468 2	1603. 223	328. 223	1.01561	334.528	56.1139	48.5 83	992. 445	995.7	480.576	1.786 78	3.9494 2	127.5 37	322.35 2	1.42 384			24.9	76.2	479.7 86	103.09 8	74.5	79.800 8	25.4	35.7	435.7 27	11.86 89	214. 002	0.106 4
01:12:01 AM	328	50468 3	1603. 08	327. 65	1.01561	334.457	56.06	48.5 664	992. 443	995.398	471.975	1.673 44	3.9524 8	127.5 82	321.88 5	1.42 997			24.9	76.1478	479.3 9	103.1	74.5	79.800 2	25.4	35.7	432.5 12	11.81 51	214. 186	0.050 25
01:12:02 AM	328	50468 4	1602. 77	327. 687	1.0156	334.365	56.0086	48.5 576	992. 445	995.7	474.399	1.743 42	3.9509 5	127.8 6	322.25 6	1.43 117			24.9	76.1089	479.3 17	103.1	74.5	79.8	25.4	35.7	429.2 36	11.85 74	214. 389	0.047 291
01:12:03 AM	328	50468 5	1603. 19	327. 662	1.0156	334.258	55.9565	48.5 56	992. 445	995.398	472.024	1.781 17	3.9563	127.4 67	322.29 2	1.42 352			24.9	76.1016	479.3 03	102.93 6	74.5	79.877 1	25.4	35.7	425.9 59	11.87 72	214. 622	0.106 4
01:12:04 AM	328	50468 6	1603. 15	327. 99	1.01561	334.145	55.9172	48.5 702	992. 445	995.7	478.748	1.788 16	3.9501 8	127.6 58	323.04 6	1.43 951			24.9	76.1003	479.3 01	102.74 4	74.5	79.895 8	25.4	35.7	422.6 08	11.92 2	214. 885	0.065 025
01:12:05 AM	328	50468 7	1603. 05	328. 157	1.01561	334.02	55.8954	48.5 826	992. 445	995.7	475.144	1.715 57	3.9517 1	127.5 61	322.83 2	1.44 212			24.9	76.1001	479.3	102.70 8	74.5	79.899 2	25.4	35.7	419.2 68	11.91 41	215. 185	0.026 601
01:12:06 AM	328	50468 8	1602. 88	328. 192	1.01561	333.887	55.9011	48.5 69	992. 439	995.7	482.882	1.812 71	3.9524 8	127.1 65	322.58 5	1.46 379			24.9	76.043	478.8 88	102.70 1	74.5	79.899 9	25.4	35.7	416.0 05	11.85 26	215. 533	0.106 4
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01:12:08 AM	328	50469 0	1602. 9	327. 975	1.01561	333.632	55.94	48.5 849	992. 446	995.7	480.252	1.736 79	3.9494 2	127.8 01	322.25 6	1.43 546			24.9	75.8083	478.7 06	102.7	74.58 33	79.843	25.4	35.8	409.4 9	11.84 91	215. 891	0.097 54
01:12:09 AM	328	50469 1	1602. 62	327. 913	1.01561	333.497	55.9447	48.5 828	992. 444	995.398	480.212	1.797 33	3.9524 8	127.3 47	322.57 3	1.42 577			24.9	75.8015	478.7 01	102.46 9	74.59 69	79.808	25.3 206	35.8	406.2 39	11.84 92	215. 748	0.106 4
01:12:10 AM	328	50469 2	1603. 12	327. 847	1.01561	333.353	55.9345	48.5 767	992. 446	995.7	486.098	1.791 16	3.9585 9	127.1 4	322.29 6	1.43 298			24.9	75.8003	478.7	102.41 3	74.59 94	79.801 5	25.3 038	35.8	402.9 65	11.80 83	215. 476	0.017 734
01:12:11 AM	328	50469 3	1603. 4	328. 571	1.01561	333.251	55.9266	48.5 838	992. 446	995.7	478.093	1.820 14	3.9555 3	127.1 09	322.22 2	1.42 988			24.9	75.8001	478.5 36	102.40 2	74.59 99	79.800 3	25.3 007	35.8	399.7 19	11.77 43	215. 191	0.079 8
01:12:12 AM	328	50469 4	1603. 11	328. 843	1.01561	333.203	55.9317	48.5 725	992. 446	995.7	484.037	1.730 87	3.9563	127.0 77	321.78 2	1.40 862			24.9	75.6565	478.3 44	102.4	74.6	79.8	25.3 411	35.8	396.4 57	11.77 96	214. 921	0.079 8
01:12:13 AM	328	50469 5	1603. 43	328. 851	1.01562	333.204	55.96	48.5 739	992. 44	995.7	478.452	1.640 58	3.9532 4	127.5 45	323.19	1.42 427			24.9	75.6105	478.3 08	102.4	74.6	79.82	25.3 791	35.8	393.1 44	11.77 47	214. 641	0.106 4
01:12:14 AM	328	50469 6	1603. 52	328. 769	1.01563	333.239	55.9979	48.5 833	992. 433	995.7	486.17	1.734 84	3.9570 6	127.6 19	321.81 8	1.42 152			24.9	75.6019	478.3 02	102.4	74.6	79.966 6	25.3 147	35.8	389.8 34	11.76 78	214. 316	0.106 4
01:12:15 AM	328	50469 7	1603. 38	328. 997	1.01563	333.312	56.0359	48.5 851	992. 432	995.7	476.908	1.779 58	3.9555 3	127.4 71	322.59 4	1.44 456			24.9	75.6004	478.3	102.4	74.6	79.993 8	25.3 027	35.8	386.4 92	11.71 95	213. 935	0.106 4
01:12:16 AM	328	50469 8	1603. 27	328. 926	1.01563	333.411	56.0626	48.5 697	992. 432	995.7	473.966	1.760 34	3.9593 5	128.2 94	322.34 1	1.43 399			24.9	75.6001	478.3	102.4	74.6	79.998 9	25.3 005	35.8	383.2 86	11.79 51	213. 558	0.106 404
01:12:17 AM	328	50469 9	1603. 08	328. 848	1.01563	333.506	56.0766	48.5 759	992. 432	995.7	481.365	1.861 05	3.9578 2	127.9	322.30 3	1.43 325			24.9	75.5656	478.2 21	102.4	74.6	79.999 8	25.3 001	35.8	379.9 73	11.82 24	213. 322	0.106

01:13:37 AM	328	50477 9	1404. 65	318. 926	1.01573	324.989	47.7622	48.5 855	992. 351	995.398	389.256	0.119 07	3.5314 8	134.5 88	295.74 2	1.39 233	24.9003	69.6024	461.4 03	100.39 5	74.4	79.9	25.1	35.4 001	495.7 27	10.10 17	215. 503	0.106 4
01:13:38 AM	328	50478 0	1404. 61	319. 5	1.01574	324.938	47.7355	48.5 855	992. 345	995.398	391.158	0.044 65	3.5246	134.4 93	296.21	1.42 582	24.9001	69.6004	461.4 01	100.15 5	74.4	79.9	25.1	35.6 059	492.7 86	10.05 84	215. 492	0.106 4
01:13:39 AM	328	50478 1	1404. 86	319. 416	1.01573	324.894	47.7165	48.5 794	992. 346	995.7	387.356	0.196 02	3.5261 3	134.0 75	295.12 3	1.41 37	24.9	69.6001	461.4	100.11	74.4	79.9	25.1	35.6 826	490.0 05	10.10 51	215. 43	0.065 025
01:13:40 AM	328	50478 2	1404. 77	319. 826	1.01574	324.852	47.7128	48.5 843	992. 342	995.7	390.672	0.167 973	3.5345 4	134.4 85	296.04 8	1.42	24.9	69.5187	461.1 02	100.10 2	74.4	79.9	25.1	35.6 968	487.2 28	10.09 13	215. 373	0.056 158
01:13:41 AM	328	50478 3	1404. 68	320. 167	1.01575	324.818	47.7286	48.5 853	992. 338	995.398	393.875	0.143 432	3.5330 1	134.2 38	296.99 6	1.42 38	24.9	69.3405	461.0 19	100.1	74.4	79.9	25.1	35.6 994	484.3 62	10.05 62	215. 128	0.106 4
01:13:42 AM	328	50478 4	1404. 71	320. 242	1.01576	324.802	47.7593	48.5 854	992. 33	995.7	387.431	0.166 04	3.5314 8	133.9 35	295.31 7	1.42 27	24.9	69.3075	461.0 03	100.1	74.4	79.9	25.1	35.6 999	481.5 35	10.09 55	214. 836	0.011 82
01:13:43 AM	328	50478 5	1404. 39	319. 757	1.01577	324.813	47.7926	48.5 855	992. 323	995.7	390.039	0.073 21	3.5437	134.0 42	295.17 2	1.41 699	24.9	69.3014	461.0 01	100.50 7	74.4	79.9	25.1	35.7	478.7 33	10.12 21	214. 636	0.094 581
01:13:44 AM	328	50478 6	1404. 09	319. 203	1.01577	324.811	47.806	48.5 855	992. 323	995.7	385.834	0.059 107	3.5307 2	133.9 58	295.42 4	1.41 034	24.9	69.3003	461	100.58 3	74.4	79.9	25.1	35.7	475.9 74	10.09 31	214. 468	0.088 67
01:13:45 AM	328	50478 7	1404. 53	319. 241	1.01577	324.759	47.7961	48.5 855	992. 32	995.398	381.682	0.305 93	3.5299 5	133.9 56	295.88 4	1.40 694	24.9	69.3	460.6 01	100.59 7	74.4	79.9	25.1	35.7	473.2 14	10.08 97	214. 442	0.106 4
01:13:46 AM	328	50478 8	1404. 66	319. 385	1.01578	324.682	47.7646	48.5 855	992. 316	995.398	381.786	0.100 855	3.5345 4	133.7 47	295.62 2	1.40 193	24.9	69.2254	460.3 56	100.59 9	74.4	79.9	25.1	35.7	470.4 13	10.07 79	214. 538	0.056 158
01:13:47 AM	328	50478 9	1405. 04	319. 849	1.01577	324.631	47.7361	48.5 855	992. 324	995.7	381.751	0.282 59	3.5414 1	133.8 08	296.16	1.41 251	24.9	69.2047	460.3 1	100.6	74.4	79.9	25.1	35.7	467.5 58	10.04 35	214. 583	0.106 4
01:13:48 AM	328	50479 0	1405. 13	319. 868	1.01577	324.615	47.7263	48.5 855	992. 321	995.7	392.449	0.052 208	3.5383 6	133.8 88	296.29 2	1.40 995	24.9	69.2009	460.3 02	100.66 1	74.4	79.9	25.0 656	464.7 37	10.16 08	214. 63	0.106 4	
01:13:49 AM	328	50479 1	1404. 55	319. 698	1.01575	324.626	47.7374	48.5 855	992. 334	995.7	385.839	0.108 099	3.5345 4	133.7 38	295.98 3	1.39 225	24.9	69.2002	460.3 3	100.69 3	74.4	79.9	25.0 122	462.0 556	10.15 14	214. 9	0.076 847	
01:13:50 AM	328	50479 2	1404. 74	319. 913	1.01574	324.664	47.7604	48.5 855	992. 344	995.398	382.624	0.356 85	3.5360 6	133.9 11	296.20 1	1.41 357	24.9	69.2	460.2 6	100.69 9	74.4	79.9	25.0 023	459.1 103	10.04 4	214. 782	0.106 4	
01:13:51 AM	328	50479 3	1404. 88	319. 783	1.01575	324.709	47.7747	48.5 855	992. 337	995.398	388.636	0.279 19	3.5429 4	133.6 73	296.29 8	1.41 305	24.9	69.0957	459.9 67	100.7	74.4	79.9	25.0 004	459.0 019	10.13 54	214. 06	0.106 4	
01:15:01 AM	328	50486 3	1209. 86	299. 428	1.01549	304.105	38.5277	48.5 855	992. 292	995.398	300.851	0.366 463	3.0409 5	133.1 4	267.34 1	1.49 3	24.8	63.7968	442.5 6	99.100 3	74.1	79.700 2	24.8	35.4 019	512.7 7	8.199 3	216. 754	0.106 4
01:15:02 AM	328	50486 4	1209. 79	299. 263	1.01547	304.088	38.5281	48.5 855	992. 303	995.398	302.499	0.609 723	3.0432 5	132.9 77	266.68 8	1.51 947	24.8	63.6365	442.4 3	99.100 1	74.1	79.7	24.8	35.4 004	510.5 34	8.192 31	216. 555	0.106 4
01:15:03 AM	328	50486 5	1210. 11	299. 063	1.01547	304.065	38.5194	48.5 855	992. 308	995.7	306.499	0.775 605	3.0440 1	132.7 19	267.08 1	1.53 327	24.8	63.6068	442.4 05	99.07	74.1	79.765 1	24.8	35.4 001	508.0 88	8.243 54	216. 57	0.020 69
01:15:04 AM	328	50486 6	1210. 02	299. 44	1.01547	304.047	38.5122	48.5 855	992. 308	995.7	303.17	0.528 533	3.0417 2	132.3 54	267.29 4	1.52 599	24.8	63.6013	442.4 01	98.85	74.1	79.793 5	24.8	35.4 937	505.8 68	8.217 85	216. 708	0.106 4
01:15:05 AM	328	50486 7	1209. 65	299. 133	1.01546	304.035	38.506	48.5 831	992. 314	995.398	294.908	0.608 633	3.0424 8	131.8 46	266.21 6	1.48 332	24.8	63.6002	442.4 3	98.809 3	74.1	79.798 8	24.8	35.5 803	503.6 14	8.183 64	216. 71	0.029 56
01:15:06 AM	328	50486 8	1209. 94	299. 074	1.01545	304.021	38.4998	48.5 85	992. 319	995.7	293.944	0.351 413	3.0501 2	132.8 09	265.92 9	1.49 561	24.8	63.6	441.8 31	98.801 7	74.1	79.799 8	24.8	35.5 964	501.2 47	8.246 56	216. 719	0.065 025
01:15:07 AM	328	50486 9	1209. 39	299. 002	1.01544	304.001	38.4927	48.5 854	992. 327	995.7	307.192	0.357 529	3.0508 5	132.5 11	267.16 6	1.51 195	24.8	63.5254	441.4 8	98.800 3	74.1	79.8	24.8	35.5 993	498.9 9	8.188 55	216. 729	0.106 4
01:15:08 AM	328	50487 0	1210. 08	299. 192	1.01543	303.964	38.486	48.5 855	992. 335	995.7	294.662	0.340 04	3.0440 1	131.9 39	266.30 3	1.50 637	24.8	63.5047	441.4 15	98.800 1	73.94 12	79.731 2	24.8	35.5 999	496.7 38	8.178 2	216. 649	0.056 158
01:15:09 AM	328	50487 1	1209. 32	299. 284	1.01543	303.929	38.4837	48.5 855	992. 333	995.398	300.202	0.396 756	3.0432 5	132.0 77	265.59 4	1.50 166	24.8	63.5009	441.4 03	98.8	73.90 76	79.624 3	24.8	35.6	494.4 71	8.183 83	216. 594	0.106 4
01:15:10 AM	328	50487 2	1209. 41	299. 043	1.01543	303.904	38.4811	48.5 855	992. 336	995.7	303.671	0.491 757	3.0524 1	131.9 67	265.51	1.49 641	24.8	63.5002	441.4 01	98.8	73.90 14	79.604 5	24.8	35.6	492.2 76	8.133 47	216. 503	0.106 4

01:15:11 AM	328	50487 3	1209. 4	298. 796	1.01544	303.888	38.4812	48.5 855	992. 334	995.7	297.363	0.517 101	3.0524 1	131.6 49	265.75 4	1.56 107	24.8	63.5	441.3 5	98.8	73.90 03	79.600 8	24.8	35.6	489.8 57	8.153 68	216. 148	0.011 82
01:15:12 AM	328	50487 4	1209. 79	298. 781	1.01544	303.854	38.4746	48.5 855	992. 332	995.7	298.335	0.282 233	3.0539 4	131.8 04	266.13 4	1.51 321	24.8	63.3291	440.9 83	98.8	73.9	79.600 2	24.8	35.6	487.6 34	8.244 76	215. 872	0.026 601
01:15:13 AM	328	50487 5	1209. 64	298. 822	1.01542	303.809	38.4625	48.5 855	992. 341	995.398	293.295	0.622 887	3.0531 8	131.3 68	265.84	1.50 976	24.8	63.2239	440.9 15	98.8	74.07 09	79.6	24.8	35.6	485.3 29	8.245 5	215. 764	0.056 158
01:15:14 AM	328	50487 6	1208. 87	298. 45	1.01543	303.763	38.445	48.5 855	992. 338	995.398	299.933	0.639 322	3.0547 1	131.4 97	265.31 3	1.52 393	24.8	63.2044	440.9 03	98.903 2	74.17 61	79.674 6	24.8	35.6	483.0 24	8.224 24	215. 839	0.106 4
01:15:15 AM	328	50487 7	1209. 41	298. 277	1.01544	303.712	38.4297	48.5 855	992. 327	995.398	292.195	0.614 364	3.0531 8	131.6 83	265.29 3	1.52 015	24.8	63.2008	440.9 01	99.063 5	74.19 56	79.695 3	24.8	35.4 775	480.6 81	8.274 74	216. 352	0.065 025
01:15:16 AM	328	50487 8	1209. 42	299. 069	1.01545	303.657	38.4174	48.5 855	992. 32	995.398	307.423	0.541 433	3.0493 6	131.8 72	265.05 6	1.54 674	24.8	63.2002	440.9	99.093 2	74.19 92	79.699 1	24.8	35.4 144	478.3 5	8.256 89	217. 013	0.047 291
01:15:17 AM	328	50487 9	1208. 96	298. 286	1.01546	303.602	38.3985	48.5 855	992. 316	995.398	295.619	0.692 553	3.057	131.3 91	265.52 3	1.54 252	24.8	63.2	440.3 51	99.098 7	74.19 98	79.699 8	24.8	35.4 027	476.2 32	8.155 28	217. 5	0
01:15:18 AM	328	50488 0	1209. 68	298. 416	1.01546	303.551	38.3993	48.5 855	992. 311	995.7	296.436	0.796 172	3.0623 5	131.3 58	265.08 3	1.51 228	24.8	63.0371	440.1 47	99.099 8	74.23 8	79.7	24.8	35.4 005	473.8 74	8.189 79	217. 781	0.106 4
01:15:19 AM	328	50488 1	1209. 68	299. 159	1.01546	303.502	38.4015	48.5 855	992. 309	995.398	299.415	0.630 754	3.0592 9	131.7 45	264.73 7	1.48 656	24.8	63.0069	440.1 09	99.1	74.37	79.804 3	24.8	35.4 001	471.6 3	8.254 85	217. 734	0.106 4
01:15:20 AM	328	50488 2	1209. 55	298. 394	1.01547	303.467	38.4002	48.5 855	992. 302	995.7	305.03	0.618 555	3.0592 9	131.8 37	264.53 7	1.48 955	24.8	63.0013	440.1 02	98.801 7	74.39 44	79.882 3	24.8	35.4	469.4 56	8.249 28	217. 507	0.020 69
01:15:21 AM	328	50488 3	1209. 58	298. 82	1.01548	303.442	38.4101	48.5 855	992. 296	995.7	296.809	0.587 899	3.0707 5	131.9 41	265.22 6	1.51 198	24.8	63.0002	440.1	98.718 8	74.39 9	79.896 7	24.8	35.4	466.9 94	8.353 9	217. 42	0.144 828
01:15:22 AM	328	50488 4	1209. 91	298. 935	1.01549	303.41	38.4174	48.5 904	992. 294	995.398	298.071	0.584 194	3.0646 4	131.7 35	264.54 8	1.51 972	24.8	63	439.8 13	98.703 5	74.39 98	79.899 4	24.8	35.4	464.7 74	8.290 27	217. 694	0.106 4
01:15:23 AM	328	50488 5	1210. 09	299. 219	1.01548	303.385	38.4302	48.5 864	992. 294	995.398	294.115	0.701 441	3.0631 1	131.6 66	265.78 6	1.50 164	24.8	62.9349	439.4 77	98.700 6	74.4	79.899 9	24.8	35.4	462.5 27	8.251 23	218. 148	0.026 601
01:15:24 AM	328	50488 6	1210. 72	299. 116	1.01549	303.381	38.4498	48.5 856	992. 288	995.398	306.439	0.572 784	3.0699 9	131.3 84	265.83 2	1.46 867	24.8	62.9065	439.4 14	98.700 1	74.59 54	79.9	24.8	35.4	460.2 46	8.196 18	218. 585	0.038 424
01:15:25 AM	328	50488 7	1208. 91	299. 776	1.01549	303.408	38.4716	48.5 855	992. 287	995.7	290.735	0.673 135	3.057	131.6 56	264.53 4	1.50 447	24.8	62.9012	439.4 03	98.543 5	74.68 06	79.9	24.8	35.4	457.9 21	8.210 71	218. 676	0.106 4
01:15:26 AM	328	50488 8	1209. 79	299. 062	1.0155	303.451	38.4871	48.5 855	992. 283	995.398	297.119	0.518 739	3.0646 4	131.1 99	264.95 9	1.50 823	24.8	62.9002	439.4	98.426 6	74.69 64	79.9	24.8	35.4	455.6 1	8.286 87	218. 3	0.106 4
01:15:27 AM	328	50488 9	1210. 21	299. 223	1.0155	303.49	38.5003	48.5 855	992. 279	995.7	308.635	0.593 595	3.0707 5	131.1 9	264.94 5	1.49 495	24.8	62.9	439.4	98.404 9	74.69 93	79.9	24.8	35.4	453.2 31	8.309 01	217. 847	0.144 828
01:15:28 AM	328	50489 0	1209. 12	299. 205	1.0155	303.54	38.5055	48.5 855	992. 278	995.398	295.367	0.616 175	3.0631 1	131.2 93	265.58 5	1.46 877	24.8	62.8312	439.1 62	98.400 9	74.69 99	79.9	24.8	35.4	451.0 2	8.325 43	217. 587	0.038 424
01:15:29 AM	328	50489 1	1210. 54	299. 188	1.01551	303.591	38.5055	48.5 855	992. 275	995.398	302.701	0.627 759	3.0638 8	130.9 61	265.12 4	1.54 226	24.8	62.7243	439.1 11	98.400 2	74.7	79.9	24.8	35.4	448.7 58	8.248 93	217. 748	0.106 4
01:15:30 AM	328	50489 2	1209. 96	299. 107	1.01551	303.634	38.4972	48.5 855	992. 273	995.398	292.936	0.341 851	3.0722 8	130.4 97	264.85 1	1.53 705	24.8	62.7045	439.1 02	98.43	74.7	80.037 2	24.8	35.4	446.3 56	8.255 97	218. 136	0.106 4
01:16:38 AM	359	50496 0	1011. 64	270. 065	1.01651	274.201	29.1959	48.5 855	992. 242	995.398	186.252	0.753 604	2.5313 3	130.1	237.58	1.57 415	25.1	57.2006	414.7 01	96.927	74.1	79.8	35.4	24.7 348	544.7 32	6.419 89	224	0.115 271
01:16:39 AM	359	50496 1	1014. 95	268. 775	1.01651	274.238	29.1797	48.5 855	992. 242	995.398	196.812	0.681 916	2.5641 8	129.6 81	238.54 4	1.43 744	25.1	57.2001	414.7	96.905	74.1	79.8	35.4	24.7 879	542.9 23	6.413 38	223. 773	0.026 601
01:16:40 AM	359	50496 2	1015. 98	269. 268	1.01651	274.251	29.163	48.5 855	992. 242	995.398	196.292	0.713 153	2.5634 2	129.3 83	238.38 6	1.54 612	25.1	57.17	413.9 82	96.900 9	74.1	79.8	35.4	24.7 184	541.1 29	6.420 04	223. 627	0.106 4
01:16:41 AM	359	50496 3	1012. 66	269. 799	1.01651	274.239	29.1138	48.5 855	992. 242	995.398	197.423	0.732 444	2.5580 7	129.6 18	238.03 7	1.44 446	25.1	56.95	413.7 52	96.900 2	74.1	79.8	35.4	24.7 034	539.3 74	6.400 55	223. 622	0.065 025
01:16:42 AM	359	50496 4	1015. 07	270. 901	1.01651	274.248	29.1096	48.5 855	992. 242	995.398	186.205	0.539 574	2.5550 1	129.0 33	237.61 6	1.49 85	25.1	56.9093	413.7 1	96.9	74.1	79.8	35.4	24.7 006	537.6 19	6.358 7	223. 707	0.017 734

01:16:43 AM	359	50496 5	1015.64	270.118	1.01651	274.269	29.1189	48.5855	992.237	995.398	194.872	0.629215	2.56494	129.128	238.443	1.4671	25.1	56.9017	413.702	96.8254	74.1	79.8	24.7001	35.4	535.901	6.33549	223.631	0.1064
01:16:44 AM	359	50496 6	1013.74	270.741	1.01651	274.286	29.143	48.5855	992.237	995.398	196.167	0.645825	2.54966	129.071	236.552	1.48282	25.1	56.9003	413.7	96.8047	74.1	79.8	24.7	35.4	534.111	6.33119	223.312	0.1064
01:16:45 AM	359	50496 7	1017.48	270.097	1.01651	274.299	29.1908	48.5855	992.238	995.398	208.796	0.757217	2.53897	128.912	236.782	1.56396	25.1	56.9001	413.332	96.8009	74.1	79.8	24.7	35.4	532.344	6.37151	222.652	0.230542
01:16:46 AM	359	50496 8	1012	269.38	1.01651	274.315	29.1995	48.5855	992.238	995.398	191.204	0.730672	2.55578	129.141	236.818	1.47891	25.1	56.7697	412.898	96.8002	74.1	79.8	24.7	35.4	530.601	6.3623	221.926	0.1064
01:16:47 AM	359	50496 9	1015.89	268.989	1.01651	274.297	29.1882	48.5855	992.238	995.398	202.523	0.664625	2.5787	128.796	237.406	1.50398	25.1	56.7129	412.818	96.8	74.1	79.8	24.7	35.4	528.833	6.37633	221.457	0.1064
01:16:48 AM	359	50497 0	1016.78	268.833	1.0165	274.261	29.1729	48.5728	992.238	995.398	202.608	0.699013	2.58175	129.116	237.632	1.52398	25.1	56.7024	412.803	96.8	74.1	79.8	24.7	35.4	527.08	6.35763	221.32	0.192118
01:16:49 AM	359	50497 1	1015.94	268.632	1.01651	274.215	29.1314	48.5831	992.238	995.398	199.362	0.573481	2.58863	128.639	238.062	1.49214	25.1	56.7004	412.801	96.8	74.1	79.8	24.7	35.4	525.29	6.35291	221.5	0.076847
01:16:50 AM	359	50497 2	1016.06	270.087	1.01651	274.181	29.1313	48.585	992.238	995.7	208.002	0.513864	2.56036	128.398	237.354	1.49007	25.1	56.7001	412.8	96.8	74.1	79.8	24.7	35.4	523.54	6.33652	221.753	0.1064
01:16:51 AM	359	50497 3	1015.93	269.526	1.01651	274.133	29.1246	48.5854	992.238	995.398	183.259	0.624451	2.58328	128.119	237.266	1.46765	25.1	56.6729	412.029	96.8	74.1	79.8	24.7	35.4	521.825	6.31586	221.845	0.1064
01:16:52 AM	359	50497 4	1015.92	270.489	1.01651	274.147	29.1362	48.5855	992.238	995.398	199.467	0.644942	2.57641	128.516	237.36	1.51967	25.1	56.6135	411.842	96.8	74.0591	79.8	24.7	35.4	519.976	6.35689	221.713	0.076847
01:16:53 AM	359	50497 5	1014.03	270.197	1.01651	274.238	29.154	48.5855	992.238	995.398	184.064	0.64874	2.58099	128.223	236.802	1.44308	25.1	56.6025	411.808	96.78	74.0109	79.6697	24.6349	35.4	518.237	6.37627	221.469	0.1064
01:16:54 AM	359	50497 6	1015.5	270.253	1.01651	274.335	29.1754	48.5855	992.238	995.398	184.35	0.649443	2.58099	127.993	236.298	1.50782	25.1	56.6005	411.801	96.6334	74.002	79.6129	24.6065	35.4	516.499	6.39311	221.286	0.1064
01:16:55 AM	359	50497 7	1015.56	271.194	1.01651	274.389	29.2044	48.5855	992.238	995.398	194.171	0.494783	2.57946	127.794	236.88	1.48541	25.1	56.6001	411.8	96.6062	74.0004	79.6024	24.6012	35.5803	514.703	6.38556	221.284	0.133005
01:16:56 AM	359	50497 8	1017.81	269.891	1.01651	274.424	29.2068	48.5855	992.238	995.398	181.267	0.700253	2.59092	127.522	236.618	1.41777	25.1	56.6	411.487	96.6011	74.001	79.6004	24.6002	35.5964	512.959	6.39075	221.516	0.1064
01:16:57 AM	359	50497 9	1014.93	270.585	1.01651	274.456	29.2377	48.5855	992.236	995.398	204.22	0.658989	2.55807	127.95	235.779	1.54924	25.1	56.3686	411.253	96.6002	74	79.6001	24.6	35.5993	511.171	6.40017	221.793	0.1064
01:16:58 AM	359	50498 0	1015.78	269.709	1.01651	274.495	29.2393	48.5855	992.238	995.398	202.768	0.524237	2.58863	127.968	236.875	1.50019	25.1	56.3127	411.21	96.6	74	79.6	24.6	35.5999	509.422	6.40191	222.041	0.008867
01:16:59 AM	359	50498 1	1016.71	270.112	1.01651	274.53	29.2282	48.5855	992.238	995.398	196.551	0.651151	2.59169	127.373	236.343	1.48738	25.1	56.3024	411.202	96.4046	74	79.6	24.6	35.6	507.654	6.40223	222.216	0.026601
01:17:00 AM	359	50498 2	1012.89	271.52	1.01651	274.608	29.2248	48.5855	992.238	995.398	202.687	0.64989	2.54584	127.982	235.148	1.56973	25.1	56.3004	411.2	96.3194	74	79.6	24.6	35.6	505.86	6.40973	222.337	0.1064
01:17:01 AM	359	50498 3	1013.1	268.379	1.01606	274.703	29.1761	48.5855	992.238	995.7	194.893	0.862676	2.60544	127.312	236.358	1.42443	24.9565	56.3001	411.048	96.3036	74	79.6	24.6	35.6	504.139	6.4213	222.534	0.1064
01:17:02 AM	359	50498 4	1013.83	269.876	1.01591	274.758	29.1678	48.5855	992.238	995.398	190.345	0.746649	2.57182	127.506	235.384	1.52812	24.9105	56.1861	410.52	96.3007	74	79.6	24.6	35.6	502.335	6.41759	222.776	0.1064
01:17:03 AM	359	50498 5	1014.89	269.681	1.01588	274.765	29.1462	48.5855	992.238	995.398	183.934	0.669576	2.5871	127.468	236.482	1.44992	24.9019	56.116	410.422	96.3001	74	79.6	24.6	35.6	500.566	6.41473	223.051	0.0798
01:17:04 AM	359	50498 6	1017.93	271.884	1.01587	274.767	29.1543	48.5855	992.238	995.398	193.219	0.653304	2.55883	127.36	235.896	1.3837	24.9004	56.103	410.404	96.3	74	79.6	24.6	35.6	498.787	6.44068	223.349	0.1064
01:17:05 AM	359	50498 7	1020.56	270.558	1.01587	274.777	29.1826	48.5855	992.238	995.398	187.413	0.650289	2.59016	127.221	235.693	1.54373	24.9001	56.1005	410.401	96.3	74	79.6	24.6	35.6	497.014	6.40942	223.535	0.1064
01:17:06 AM	359	50498 8	1016.9	270.604	1.01587	274.788	29.2075	48.5855	992.238	995.398	191.452	0.544449	2.59322	127.209	236.388	1.43169	24.9	56.1001	410.4	96.3	74	79.6	24.6	35.6	495.227	6.42712	223.582	0.017734
01:17:07 AM	359	50498 9	1015.59	270.753	1.01587	274.805	29.2469	48.5855	992.238	995.398	202.211	0.56795	2.59092	127.129	235.083	1.48454	24.9	56.09	410.041	96.3	74	79.6	24.6	35.6	493.472	6.42467	223.52	0.02956

01:18:42 AM	359	50508 4	1603. 87	278. 711	1.0156	282.241	47.4279	48.6 75	992. 233	995.7	377.878	3.231 57	4.2344 1	107.5 79	300.61 5	1.44 097	24.8	62.8	421.3	95.8	75.85 42	80.1	24.1	35.4	235.3 12	10.09 83	215. 737	0.008 867
01:18:43 AM	359	50508 5	1604. 47	278. 812	1.01559	282.252	47.4489	48.6 523	992. 233	995.398	376.069	3.295 09	4.2435 8	106.9 09	302.43 1	1.43 265	24.8	62.8	421.3	95.8	75.97 3	80.168 6	24.1	35.4	232.5 35	10.16 11	216. 026	0.017 734
01:18:44 AM	359	50508 6	1604. 28	278. 426	1.01559	282.272	47.4768	48.6 724	992. 233	995.398	377.568	3.388 14	4.2382 3	106.6 7	301.45 5	1.44 229	24.8	62.8	421.3	96.044 4	75.99 5	80.194 2	24.1	35.5 229	229.7 64	10.09 46	216. 286	0.106 4
01:18:45 AM	359	50508 7	1604. 5	278. 386	1.01559	282.307	47.5016	48.6 553	992. 231	995.398	384.533	3.541 23	4.2443 5	107.0 91	301.64 1	1.45 578	24.8	62.8	421.3	96.089 7	75.99 91	80.198 9	24.1	35.6 672	226.9	10.11 49	216. 43	0.106 4
01:18:46 AM	359	50508 8	1604. 71	278. 669	1.0156	282.362	47.5149	48.6 73	992. 231	995.398	375.367	3.404 98	4.2412 9	107.3 84	302.30 2	1.44 688	24.8	62.8	421.5 61	96.098 1	75.99 98	80.199 8	24.1	35.6 939	224.1 77	10.08 25	216. 434	0.008 867
01:18:47 AM	359	50508 9	1604. 19	279. 136	1.0156	282.442	47.5246	48.6 763	992. 233	995.398	379.776	3.509 74	4.2435 8	107.1 81	301.51 8	1.45 334	24.8	62.9435	421.7 56	96.099 6	76	80.2	24.1	35.6 989	221.3 91	10.10 79	216. 315	0.056 158
01:18:48 AM	359	50509 0	1604. 82	279. 457	1.0156	282.546	47.5413	48.6 769	992. 231	995.398	378.392	3.376 61	4.239	107.4 24	301.01 8	1.44 623	24.8	62.9895	421.7 92	96.099 9	75.84 57	80.2	24.1	35.6 998	218.5 86	10.12 57	216. 101	0.106 4
01:18:49 AM	359	50509 1	1604. 78	279. 451	1.01559	282.659	47.5747	48.6 623	992. 231	995.398	382.874	3.483 58	4.2428 2	107.4 02	301.64 9	1.43 593	24.8	62.9981	421.7 98	95.774 3	75.80 85	80.2	24.1	35.7	215.7 79	10.10 44	215. 961	0.085 714
01:18:50 AM	359	50509 2	1604. 36	279. 115	1.0156	282.777	47.619	48.6 74	992. 231	995.398	382.265	3.509 88	4.2405 3	107.4 97	301.99 8	1.45 895	24.8	62.9996	421.8	95.635 9	75.80 17	80.2	24.1	35.7 771	213.0 04	10.09 02	215. 806	0.106 4
01:18:51 AM	359	50509 3	1603. 94	279. 008	1.0156	282.888	47.646	48.6 854	992. 233	995.398	382.99	3.405 12	4.2412 9	107.4 2	302.63 8	1.47 137	24.8	62.9999	421.8	95.607 4	75.80 04	80.2	24.1	35.7 953	210.2 32	10.08 73	215. 688	0.106 4
01:18:52 AM	359	50509 4	1604. 38	278. 49	1.01559	282.993	47.6505	48.6 672	992. 233	995.398	379.322	3.597 94	4.2504 6	107.8 51	302.11 1	1.43 728	24.8	63.0468	422.4 52	95.601 4	75.80 01	80.2	24.1	35.7 991	207.4 87	10.07 65	215. 55	0.106 4
01:18:53 AM	359	50509 5	1604. 55	278. 841	1.0156	283.07	47.6328	48.6 752	992. 233	995.398	376.448	3.358 35	4.2412 9	107.3 69	302.73 6	1.45 844	24.8	63.0901	422.5 73	95.600 3	75.8	80.2	24.1	35.7 998	204.6 29	10.08 94	215. 351	0.106 4
01:18:54 AM	359	50509 6	1603. 96	278. 073	1.0156	283.126	47.5971	48.6 767	992. 233	995.398	376.675	3.399 37	4.2397 6	108.0 04	302.11 5	1.45 11	24.8	63.0982	422.5 95	95.6	75.8	80.2	24.1	35.8	201.8 79	10.10 74	215. 232	0.106 4
01:18:55 AM	359	50509 7	1604. 1	278. 097	1.01559	283.146	47.5619	48.6 629	992. 233	995.398	377.497	3.358 87	4.2443 5	107.7 99	302.65 7	1.44 373	24.8	63.0997	422.5 99	95.6	75.8	80.2	24.1	35.6 775	199.1 58	10.08 63	215. 216	0.106 4
01:18:56 AM	359	50509 8	1604. 41	278. 254	1.01559	283.13	47.5245	48.6 57	992. 235	995.398	380.596	3.451 33	4.2435 8	107.7 42	302.60 2	1.44 363	24.8	63.0999	422.6	95.6	75.8	80.2	24.1	35.6 144	196.2 94	10.07 84	215. 296	0.106 4
01:18:57 AM	359	50509 9	1604. 64	278. 645	1.01559	283.097	47.4932	48.6 733	992. 235	995.398	380.043	3.352 39	4.239	108.1 53	302.62 2	1.45 733	24.8	63.1	422.7 37	95.6	75.8	80.2	24.1	35.6 027	193.4 2	10.09 89	215. 486	0.106 4
01:18:58 AM	359	50510 0	1604. 34	278. 721	1.01559	283.086	47.483	48.6 763	992. 237	995.398	379.565	3.417 67	4.2435 8	108.2 65	301.84 3	1.44 837	24.8	63.1815	422.7 88	95.6	75.8	80.2	24.1	35.6 005	190.6 88	10.07 12	215. 646	0.106 4
01:18:59 AM	359	50510 1	1604. 65	279. 206	1.01559	283.105	47.492	48.6 729	992. 236	995.398	369.32	3.352 04	4.2435 8	107.9 91	303.13	1.43 773	24.8	63.1966	422.7 98	95.6	75.8	80.147 8	24.1	35.6 001	187.9 32	10.16 59	215. 741	0.106 4
01:19:00 AM	359	50510 2	1604. 11	279. 15	1.01558	283.134	47.531	48.6 6	992. 237	995.398	375.363	3.266 08	4.2443 5	107.6 66	302.20 2	1.45 785	24.8	63.1994	422.8	95.6	75.8	80.108 9	24.1	35.6	185.0 8	10.14 23	215. 88	0.106 4
01:19:01 AM	359	50510 3	1605. 2	279. 149	1.01558	283.148	47.5759	48.6 52	992. 237	995.7	370.84	3.276 41	4.2512 2	108.3 27	302.37 2	1.44 06	24.8	63.1999	422.8	95.6	75.8	80.101 6	24.1	35.6	182.2 89	10.13 8	215. 983	0.106 4
01:19:02 AM	359	50510 4	1604. 43	279. 336	1.01558	283.138	47.6117	48.6 487	992. 236	995.398	379.818	3.494 11	4.2451 1	108.2 17	301.61 3	1.45 003	24.8	63.2	422.9 38	95.6	75.8	80.100 3	24.1	35.6	179.5 25	10.10 38	216. 098	0.106 4
01:19:03 AM	359	50510 5	1604. 54	279. 177	1.01558	283.126	47.6389	48.6 571	992. 236	995.398	381.274	3.300 92	4.2474	107.9 91	302.38 2	1.44 439	24.8	63.2	423.1 51	95.6	75.8	80.100 1	24.1	35.6	176.7 46	10.14 56	216. 163	0.106 4
01:19:04 AM	359	50510 6	1604. 37	279. 357	1.01559	283.129	47.6494	48.6 642	992. 236	995.398	376.782	3.357 07	4.2443 5	108.3 5	303.79 1	1.43 121	24.8	63.2	423.1 91	95.6	75.8	80.1	24.1	35.6	173.9 81	10.08 9	216. 11	0.011 82
01:19:05 AM	359	50510 7	1604. 52	278. 922	1.01558	283.15	47.6482	48.6 406	992. 236	995.398	375.148	3.276 65	4.2443 5	108.0 84	302.25 8	1.43 445	24.8	63.2	423.1 98	95.704 3	75.8	80.1	24.1	35.6	171.1 93	10.12 11	215. 97	0.106 4
01:19:06 AM	359	50510 8	1604. 04	279. 69	1.01558	283.173	47.6408	48.6 322	992. 236	995.398	369.235	3.293 7	4.2474	107.9 68	303.78 7	1.46 145	24.8	63.2	423.2	95.782 3	75.8	80.1	24.1	35.6	168.3 14	10.13 4	215. 826	0.106 4

01:21:50 AM	359	50527 2	2015. 19	238. 582	1.01585	242.565	51.2653	48.5 252	992. 241	995.7	450.799	8.677 88	4.7509 2	102.8 25	375.55 1	1.41 927	24.9	69.3	414.9	97.073 4	76.1	80	24.3 837	35.9	236.6 19	11.16 2	221. 234	0.106 4
01:21:51 AM	359	50527 3	2014. 68	237. 817	1.01584	242.601	51.2702	48.5 196	992. 241	995.7	447.337	9.000 66	4.7455 7	103.3 41	374.86 2	1.40 593	24.9	69.3	414.9	97.095 1	76.1	80	24.3 199	35.9	233.5 62	11.14 1	221. 065	0.076 847
01:21:52 AM	359	50527 4	2015. 81	236. 903	1.01585	242.578	51.2154	48.5 232	992. 241	995.7	443.522	8.917 02	4.7547 4	102.9 86	375.96 8	1.40 767	24.9	69.3	414.7 46	97.099 1	76.1	80	24.3 037	35.9	230.5 1	11.05 15	220. 954	0.106 4
01:21:53 AM	359	50527 5	2015. 64	237. 845	1.01584	242.495	51.1223	48.5 129	992. 241	995.7	439.4	8.913 18	4.7516 8	102.7 75	375.96 2	1.42 465	24.9	69.3	414.7 08	97.099 8	76.1	80	24.3 007	35.9	227.3 65	11.09 4	220. 921	0.162 562
01:21:54 AM	359	50527 6	2015. 57	237. 871	1.01584	242.394	51.0313	48.5 077	992. 241	995.7	447.157	8.935 65	4.7524 5	102.8 6	375.97	1.43 394	24.9	69.3	414.7 02	97.1	76.1	80	24.3 001	35.9	224.2 69	11.09 36	220. 936	0.106 4
01:21:55 AM	359	50527 7	2015. 26	238. 419	1.01584	242.305	50.9871	48.5 11	992. 241	995.7	445.204	8.841 52	4.7471	103.0 09	375.22 7	1.41 55	24.9	69.3	414.7	97.258 8	76.1	80	24.3	35.8 478	221.1 49	11.07 74	220. 956	0.106 4
01:21:56 AM	359	50527 8	2014. 75	237. 488	1.01583	242.239	50.9821	48.4 971	992. 241	995.398	445.395	8.804 65	4.7486 2	102.9 85	377.09 5	1.41 981	24.9	69.3	414.7	97.292 4	76.1	80	24.3	35.8 089	218.0 93	11.07 73	220. 894	0.041 38
01:21:57 AM	359	50527 9	2015. 62	237. 274	1.01583	242.177	50.994	48.5 102	992. 245	995.7	445.332	8.903 81	4.7478 6	103.6 14	377.69 1	1.40 02	24.9	69.3	414.7	97.298 6	76.1	80	24.3	35.8 016	215.1 1	11.07 78	220. 879	0.106 4
01:21:58 AM	359	50528 0	2016. 22	238. 312	1.01583	242.121	50.9962	48.5 172	992. 246	995.7	447.305	9.137 03	4.7509 2	103.9 17	376.93 7	1.42 005	24.9	69.3	414.7	97.299 7	76.1	80	24.3	35.8 003	211.9 69	11.10 56	220. 809	0.106 4
01:21:59 AM	359	50528 1	2015. 62	238. 461	1.01583	242.069	50.9862	48.5 081	992. 246	995.398	453.852	9.086 85	4.7440 4	104.5 24	376.31 8	1.41 258	24.9	69.3	414.7	97.299 9	76.1	80	24.3	35.8 001	208.8 82	11.09 45	220. 802	0
01:22:00 AM	359	50528 2	2015. 68	238. 437	1.01583	242.021	51.0005	48.5 122	992. 245	995.7	450.394	8.791 19	4.7509 2	103.8 08	376.71 2	1.40 151	24.9	69.3	414.7	97.169 7	76.1	80	24.3	35.8	205.8 2	11.04 86	220. 832	0.011 82
01:23:13 AM	375	50535 5	2407. 17	167. 842	1.01679	168.217	42.9865	48.4 939	992. 238	995.7	500.696	3.606 85	5.1191 9	84.59 11	454.99 3	1.41 476	25.2	72.4409	381.1 63	98.9	76.5	79.800 1	24.8	35.9	503.2 25	10.66 42	247. 553	0.106 4
01:23:14 AM	390	50535 6	2407. 35	168. 159	1.01679	169.364	42.9965	48.4 939	992. 238	995.7	498.613	3.685 9	5.1230 1	84.69 1	456.66 3	1.41 476	25.2	72.4891	381.2 75	98.9	76.54 1	79.8	24.8	35.9	500.2 83	10.67 52	248. 977	0.076 847
01:23:15 AM	375	50535 7	2407. 74	168. 23	1.01679	169.953	43.0094	48.4 939	992. 238	995.398	496.161	3.610 45	5.1253 1	83.92 43	456.10 2	1.40 811	25.2	72.498	381.2 95	98.92	76.58 91	79.865 1	24.8 815	35.9	497.3 25	10.64 44	250. 273	0.038 424
01:23:16 AM	390	50535 8	2405. 67	168. 452	1.01679	170.198	43.0311	48.4 939	992. 238	995.7	499.662	3.612 97	5.1291 3	84.86 33	455.52 8	1.42 065	25.2	72.4996	381.2 99	99.066 6	76.59 8	79.893 5	24.8 966	35.9	494.3 41	10.63 04	251. 159	0.047 291
01:23:17 AM	375	50535 9	2406. 16	168. 72	1.01679	170.346	43.0629	48.4 971	992. 238	995.7	502.085	3.691 45	5.1375 3	84.03 05	456.32 9	1.41 365	25.2	72.4999	381.3	99.093 8	76.59 96	79.898 8	24.8 994	35.9	491.3 98	10.65 66	251. 588	0.162 562
01:23:18 AM	375	50536 0	2407. 47	168. 846	1.01679	170.485	43.1079	48.4 945	992. 238	995.7	504.147	3.845 31	5.1344 7	84.59 75	453.73 9	1.41 828	25.2	72.5	381.5 28	99.098 9	76.59 99	79.899 8	24.8 999	35.9	488.4 31	10.69 84	251. 619	0.106 4
01:23:19 AM	375	50536 1	2407. 94	169. 068	1.01679	170.632	43.1591	48.4 94	992. 238	995.7	497.042	3.811 53	5.1306 5	84.96 18	456.15	1.41 216	25.2	72.6588	381.6 68	99.099 8	76.6	79.9	24.9	35.9	485.4 65	10.73 03	251. 481	0.106 4
01:23:20 AM	375	50536 2	2407. 83	169. 492	1.01679	170.782	43.2164	48.4 939	992. 238	995.7	501.096	3.599 02	5.1291 3	84.71 53	455.28 1	1.41 002	25.2	72.6924	381.6 94	99.1	76.67 94	79.940 9	24.9	35.9	482.4 82	10.72 26	251. 403	0.050 25
01:23:21 AM	390	50536 3	2407. 53	169. 553	1.01679	170.943	43.2798	48.4 939	992. 238	995.7	502.508	4.006 81	5.1184 3	85.09 84	454.45 2	1.40 938	25.2	72.6986	381.6 99	99.165 1	76.69 62	79.989 1	24.9	35.8 9	479.4 94	10.69 35	251. 434	0.059 11
01:23:22 AM	375	50536 4	2409. 09	168. 866	1.01679	171.108	43.3437	48.4 939	992. 238	995.926	496.891	3.978 39	5.1268 3	85.58 99	456.43 1	1.41 715	25.2	72.6997	381.7	99.193 5	76.69 93	79.998	24.9	35.8 167	476.5 04	10.71 02	251. 476	0.106 4
01:23:23 AM	390	50536 5	2407. 73	168. 875	1.01679	171.252	43.3855	48.4 939	992. 238	995.7	503.852	4.025 47	5.1306 5	86.02 19	455.89 5	1.42 657	25.2	72.7	381.6 9	99.198 8	76.69 99	79.999 6	24.9	35.8 031	473.5 04	10.73 36	251. 453	0.106 4
01:23:24 AM	375	50536 6	2408. 11	168. 95	1.01679	171.353	43.3897	48.4 939	992. 238	995.7	503.57	3.822 5	5.1337 1	85.10 65	456.29 9	1.42 089	25.2	72.7569	381.6 17	99.199 8	76.7	79.999 9	24.9	35.8 006	470.5 16	10.71 55	251. 327	0.106 4
01:23:25 AM	375	50536 7	2406. 88	169. 598	1.01679	171.456	43.3721	48.4 911	992. 238	995.7	498.498	3.779 92	5.1428 8	86.26 48	455.61 8	1.42 94	25.2	72.792	381.6 03	99.2	76.7	80	24.9	35.8 001	467.4 74	10.71 79	251. 189	0.038 424
01:23:26 AM	375	50536 8	2407. 32	169. 078	1.01679	171.58	43.3543	48.4 934	992. 238	995.7	506.172	3.620 18	5.1321 8	85.92 91	456.84 2	1.41 326	25.2	72.7985	381.6 01	99.281 9	76.7	80	24.9	35.8	464.5 96	10.78 21	251. 21	0.106 4

01:23:27 AM	375	505369	2405.4	169.464	1.01679	171.707	43.3523	48.4938	992.238	995.7	500.998	3.59032	5.12683	85.952	457.711	1.41418	25.2	72.7997	381.6	99.3781	76.7	80	24.9	35.8651	461.609	10.7554	251.392	0.1064
01:23:28 AM	390	505370	2406.79	169.44	1.01631	171.815	43.3491	48.4939	992.238	995.7	503.227	3.90052	5.1276	87.1174	456.533	1.41358	25.0435	72.7999	381.6	99.3959	76.7	80	24.9	35.8935	458.641	10.7509	251.622	0.1064
01:23:29 AM	375	505371	2405.45	169.07	1.01592	171.899	43.3499	48.4939	992.238	995.7	504.25	3.81165	5.12454	87.7058	457.63	1.42169	24.9266	72.82	381.806	99.3992	76.7	80	24.9	35.8988	455.605	10.7522	251.854	0.06798
01:23:30 AM	390	505372	2406.55	169.575	1.01585	171.961	43.3441	48.4866	992.238	995.7	501.654	3.48554	5.12683	87.3591	456.926	1.41739	24.9049	72.9666	381.883	99.3999	76.7	80	24.9	35.8998	452.653	10.7679	252.001	0.0798
01:23:31 AM	375	505373	2408.42	170.025	1.01583	172.015	43.3531	48.4926	992.243	995.398	508.454	3.61105	5.12607	86.7447	459.778	1.41064	24.9009	72.9938	381.897	99.4	76.7	80	24.9	35.9	449.747	10.7765	252.064	0.017734
01:23:32 AM	375	505374	2408.2	170.018	1.01583	172.074	43.382	48.4937	992.245	995.7	506.942	3.91134	5.12607	86.4953	458.195	1.41706	24.9002	72.9989	381.899	99.2508	76.7	80	24.9	35.8794	446.757	10.7554	252.102	0.026601
01:23:33 AM	375	505375	2409.77	169.674	1.01582	172.132	43.4272	48.488	992.246	995.398	503.943	3.82136	5.12072	87.1315	458.367	1.41794	24.9	72.9998	381.9	99.2094	76.7	80	24.9	35.8962	443.808	10.767	252.054	0.124138
01:23:34 AM	375	505376	2409.32	169.988	1.01583	172.164	43.4795	48.4928	992.246	995.7	502.002	3.62948	5.12683	86.7713	457.589	1.41769	24.9	73	381.806	99.2017	76.7	80	24.9	35.8023	440.812	10.7706	251.934	0.1064
01:23:35 AM	390	505377	2407.32	170.321	1.01583	172.192	43.5165	48.4937	992.246	995.7	508.52	3.77378	5.11766	86.6801	457.21	1.41598	24.9	73.0686	381.72	99.2003	76.7	80	24.9	35.848	437.821	10.7762	251.744	0.065025
01:23:36 AM	375	505378	2406.55	170.343	1.01583	172.256	43.5435	48.4939	992.246	995.7	507.154	3.69469	5.12072	87.2394	459.453	1.42015	24.9	73.0942	381.704	99.2001	76.8372	80	24.9	35.8904	434.797	10.7584	251.533	0.124138
01:23:37 AM	390	505379	2407.28	170.082	1.01581	172.34	43.5595	48.4628	992.246	995.7	508.625	3.9403	5.12149	87.3758	459.016	1.42125	24.9	73.0989	381.701	99.4278	76.8884	80	24.9	35.8982	431.8	10.7811	251.36	0.026601
01:23:38 AM	375	505380	2406.64	170.322	1.01582	172.42	43.5736	48.4881	992.248	995.7	507.18	3.81994	5.11919	88.329	456.544	1.41584	24.9	73.0998	381.7	99.5681	76.8978	80	24.9	35.8771	428.878	10.7958	251.245	0.1064
01:23:39 AM	375	505381	2406.73	170.6	1.01581	172.486	43.5977	48.4737	992.251	995.7	503.893	3.836	5.12149	87.5358	458.579	1.43045	24.9	73.1	381.7	99.5941	76.8996	80	24.9	35.8958	425.835	10.7685	251.196	0.1064
01:23:40 AM	375	505382	2408.88	170.518	1.01582	172.555	43.6071	48.4843	992.251	995.7	505.469	4.03481	5.11919	87.3416	458.371	1.42601	24.9	73.1542	381.779	99.5989	76.8999	80	25	35.8992	422.818	10.7665	251.155	0.038424
01:23:41 AM	375	505383	2404.93	170.477	1.01582	172.638	43.6195	48.4921	992.251	995.7	508.621	3.43718	5.11614	87.6119	457.956	1.41832	24.9	73.273	381.796	99.5998	76.9	80	25	35.8999	419.935	10.7442	251.115	0.1064
01:23:42 AM	390	505384	2407.29	170.546	1.01582	172.726	43.6292	48.4936	992.253	995.7	511.237	3.85025	5.11996	87.1459	459.197	1.40958	24.9	73.295	381.799	99.467	76.9	80	25	35.9	416.943	10.7403	250.986	0.1064

APPENDIX AF: RAW DATA – BDW50 BLEND AT 15°BTDC

Manual Log Description : Power Curve on 50% waste
 cooking oil & 50% base diesel
 Manual Log Start Date :
 2012/01/19
 Manual Log Start Time :
 01:02:03 AM

TIME	mSec	Eng_Time	Speed	Torque	~ECE_Corr_Factor	~Torque_Corr	~Power_Corr	Humidity	~P_Baro	P_Pre_Co_mpressor	P_Post_Co_mpressor	P_Exhaust	P_Oil_Filter	P_Cool_In	P_Cool_Out	P_Fuel	T_Air_In_Snorkel	T_Post_Co_mpressor	T_Exhaust	T_Oil_Sump	T_Cool_In	T_Cool_Out	T_Fuel	T_Cell	Fuel_Mass	Fuel_Flow	~SFC	Smoke
01:02:05 AM	328	504085	2609.11	267.966	1.01635	272.781	74.5406	48.0034	992.44	995.926	943.682	10.0578	5.068	73.7918	501.77	1.37502	25.2	106.71	475.9	105.199	75.4409	80.0028	25.7	35.8034	499.854	17.2192	233.693	0.1064
01:02:06 AM	328	504088	2609.05	268.216	1.01634	272.803	74.4974	47.9804	992.438	995.926	938.482	9.9788	5.05425	74.8464	499.841	1.37585	25.2	106.783	475.9	105.2	75.7335	80.2064	25.7718	35.8006	488.572	17.1618	233.83	0.09754
01:02:07 AM	328	504089	2608.83	268.3	1.01634	272.805	74.4757	48.0024	992.437	995.926	948.991	9.96415	5.04202	74.8225	500.592	1.36472	25.2	106.797	475.9	105.526	75.7877	80.2827	25.7335	35.8001	482.703	17.1852	234.051	0.05911
01:02:08 AM	328	504090	2609.6	267.986	1.01634	272.798	74.4704	47.9801	992.434	995.926	942.563	9.96144	5.08023	75.5235	500.171	1.35937	25.2	106.799	475.9	105.586	75.7977	80.2968	25.7472	35.8	477.715	17.217	234.314	0.1064
01:02:09 AM	328	504091	2609.75	268.613	1.01634	272.775	74.4688	47.976	992.436	995.926	943.479	10.1337	5.06342	74.7486	502.716	1.37094	25.2	106.8	475.952	105.597	75.7996	80.2994	25.7712	35.8	472.812	17.2366	234.488	0.1064
01:02:10 AM	328	504092	2609.8	268.199	1.01634	272.746	74.4703	47.9753	992.437	995.926	934.1	10.0321	5.03897	73.6754	504.102	1.35655	25.2	106.8	475.991	105.6	75.7999	80.2999	25.7132	35.8	468.103	17.2853	234.619	0.1064
01:02:11 AM	328	504093	2609.71	268.496	1.01635	272.723	74.488	47.9903	992.435	995.926	948.073	10.1701	5.04126	74.1453	502.718	1.36644	25.2	106.8	475.998	105.6	76.2627	80.4375	25.7024	35.8	463.308	17.2355	234.813	0.09754
01:02:12 AM	328	504094	2609.54	268.606	1.01634	272.719	74.5113	47.9869	992.439	995.926	949.836	10.0808	5.02751	74.7192	503.917	1.38248	25.2	106.8	476	105.6	76.3746	80.6514	25.7691	35.8	458.506	17.2439	234.988	0.01182
01:02:13 AM	328	504095	2609.42	268.215	1.01633	272.708	74.5316	47.9773	992.442	995.926	935.151	10.0349	5.05883	75.0683	501.883	1.35976	25.2	106.8	476	105.6	76.3953	80.691	25.7943	35.8	453.83	17.2103	235.134	0.1064
01:02:14 AM	328	504096	2609.88	268.386	1.01633	272.673	74.5428	47.9821	992.444	995.926	946.406	9.97454	5.05043	73.4019	501.009	1.35634	25.2	106.8	476	105.6	76.3991	80.6983	25.758	35.8	449.17	17.1805	235.156	0.1064
01:02:15 AM	328	504097	2609.26	268.435	1.01633	272.641	74.5414	47.9764	992.443	995.926	938.087	9.96337	5.05425	74.6194	504.249	1.37071	25.2	106.8	476	105.6	76.3998	80.6997	25.7297	35.8	444.265	17.1583	235.017	0.1064
01:02:16 AM	328	504098	2609.32	268.678	1.01633	272.645	74.5404	47.9753	992.443	995.926	934.852	9.98607	5.02903	74.1918	500.727	1.3455	25.2	106.8	476	105.6	76.2435	80.6999	25.787	35.8	439.618	17.2812	234.815	0.200985
01:02:17 AM	328	504099	2609.85	267.947	1.01633	272.669	74.5406	47.9751	992.442	995.926	943.066	10.0822	5.05043	74.9018	503.075	1.35407	25.2	106.8	476	105.6	76.1266	80.4686	25.7976	35.8	434.79	17.1921	234.667	0.1064
01:02:18 AM	328	504100	2609.98	268.106	1.01634	272.674	74.5315	47.9751	992.438	995.926	941.438	9.98332	5.06647	75.0018	501.546	1.36623	25.2	106.8	476	105.6	76.1049	80.4127	25.7996	35.8	429.941	17.1595	234.582	0.1064
01:02:19 AM	328	504101	2609.35	267.898	1.01633	272.667	74.5143	47.9751	992.44	995.926	934.411	10.154	5.06724	74.7653	504.598	1.37907	25.2	106.8	476	105.6	76.1009	80.4024	25.7999	35.8	425.152	17.1683	234.579	0.01734
01:02:20 AM	328	504102	2609.58	268.176	1.01633	272.661	74.4893	47.9751	992.444	995.926	939.484	10.1253	5.03667	73.6919	502.007	1.38854	25.2	106.8	476.072	105.6	76.1002	80.4004	25.8	35.8	420.38	17.1728	234.589	0.106404
01:02:21 AM	328	504103	2609.16	267.765	1.01633	272.659	74.4646	47.9751	992.44	995.926	942.487	10.0188	5.04202	75.5068	501.253	1.36961	25.2	106.8	476.095	105.6	75.986	80.4001	25.8	35.8	415.672	17.1736	234.518	0.06798
01:02:22 AM	328	504104	2609.6	267.559	1.01634	272.644	74.44	47.9751	992.437	995.926	942.7	10.1179	5.04814	75.176	503.932	1.36223	25.2	106.8	476.099	105.6	75.5901	80.2957	25.8	35.8	410.996	17.1127	234.452	0.1064

01:02:23 AM	328	50410 5	2609. 1	268. 401	1.01634	272.609	74.423	47.9 751	992. 436	995.926	950.553	10.20 84	5.0236 9	75.39 8	501.22 6	1.36 809	25.2	106.8	476.1	105.67 2	75.51 67	80.217 7	25.8	35.8	406.1 63	17.09 93	234. 354	0.106 4
01:02:24 AM	328	50410 6	2609. 22	267. 781	1.01634	272.571	74.4104	47.9 751	992. 434	995.926	943.556	10.14 1	5.0298	74.49 74	502.88 3	1.38 985	25.2	106.8	476.1	105.69 5	75.50 31	80.203 3	25.8	35.8	401.3 81	17.13 21	234. 236	0.041 38
01:02:25 AM	328	50410 7	2609. 57	267. 731	1.01634	272.538	74.4084	47.9 751	992. 433	996.153	936.113	10.05 12	5.0496 6	74.85 54	501.51 2	1.36 405	25.2	106.8	476.1 69	105.69 9	75.50 06	80.200 6	25.8	35.8	396.6 71	17.14 84	234. 136	0.106 4
01:02:26 AM	328	50410 8	2608. 86	268. 112	1.01634	272.497	74.4099	47.9 751	992. 432	995.926	942.192	10.02 33	5.0534 8	73.54 02	501.40 5	1.37 386	25.2	106.995	476.2 76	105.7	75.50 01	80.200 1	25.8	35.8	391.8 8	17.11 77	234. 011	0.038 424
01:02:27 AM	328	50410 9	2609. 26	267. 813	1.01634	272.46	74.4093	47.9 751	992. 434	995.926	940.395	10.01 44	5.0427 9	75.33 06	501.19 4	1.39 593	25.2	107.081	476.2 96	105.7	75.70 59	80.21	25.8	35.8	387.0 3	17.18 5	233. 937	0.106 4
01:02:28 AM	328	50411 0	2609. 29	267. 443	1.01634	272.422	74.4052	47.9 751	992. 432	995.926	945.303	10.08 83	5.0534 8	74.87 51	502.34 8	1.39 829	25.2	107.096	476.2 99	105.7	75.78 26	80.283 3	25.8	35.8	382.2 33	17.23 6	233. 989	0.106 4
01:02:29 AM	328	50411 1	2610. 13	267. 335	1.01635	272.36	74.3829	47.9 751	992. 427	995.926	940.919	10.04 84	5.0473 7	74.24 43	504.13 9	1.36 026	25.2	107.099	476.3	105.7	75.79 68	80.296 9	25.8	35.8	377.5 35	17.20 28	234. 176	0.017 734
01:02:30 AM	328	50411 2	2609. 8	268. 078	1.01635	272.296	74.3617	47.9 751	992. 427	995.926	945.41	10.00 76	5.0397 3	73.42 78	504.43	1.39 666	25.2	107.1	476.3	105.7	75.79 94	80.299 4	25.8	35.8	372.6 95	17.17 91	234. 444	0.097 54
01:02:31 AM	328	50411 3	2609. 65	268. 08	1.01634	272.257	74.3519	47.9 751	992. 432	995.926	944.392	10.11 77	5.0366 7	74.74 66	505.21 1	1.39 109	25.2	107.1	476.3	105.7	75.79 99	80.299 9	25.8	35.8	367.9 35	17.20 02	234. 762	0.106 4
01:02:32 AM	328	50411 4	2609. 73	267. 841	1.01635	272.247	74.3588	47.9 751	992. 429	995.926	940.603	10.14 44	5.0496 6	74.94 21	502.85 3	1.39 2	25.2	107.1	476.3	105.7	75.88 19	80.3	25.8	35.8	363.1 19	17.28 24	234. 974	0.106 4
01:02:33 AM	328	50411 5	2609. 43	267. 345	1.01634	272.234	74.3763	47.9 751	992. 432	995.926	934.436	10.08 55	5.0527 2	75.27 3	502.45 8	1.38 517	25.2	107.1	476.3	105.74	75.97 81	80.365 1	25.8	35.9	358.4 03	17.34 24	235. 152	0.106 4
01:02:34 AM	328	50411 6	2609. 34	267. 46	1.01634	272.208	74.3807	47.9 751	992. 432	995.926	942.178	10.13 16	5.0450 8	76.16 29	503.42 3	1.37 022	25.2	107.1	476.3	106.03 3	75.99 59	80.393 5	25.8	35.9	353.7 08	17.28 42	235. 374	0.192 118
01:04:23 AM	328	50422 5	2405. 64	281. 171	1.01541	284.725	71.7822	47.9 745	992. 411	995.926	839.328	8.742 62	4.9083 1	86.95 21	458.32 5	1.35 519	24.8997	100.1	471.5 01	107.1	75.4	80	26	35.8	260.6 74	15.93 1	225. 106	0.106 4
01:04:24 AM	328	50422 6	2406. 13	281. 114	1.01543	284.772	71.8092	47.9 75	992. 403	995.926	842.949	8.789 72	4.9121 3	87.85 49	459.88 5	1.36 775	24.9	100.1	471.5	107.1	75.4	80	26	35.8	256.2 32	15.94 49	225. 105	0.047 291
01:04:25 AM	328	50422 7	2405. 77	281. 324	1.01543	284.821	71.8429	47.9 751	992. 397	995.926	843.236	8.765 41	4.9113 7	87.78 12	459.90 2	1.37 115	24.9	100.1	471.5	107.1	75.4	80	26	35.8	251.7 25	15.94 21	225. 105	0.106 404
01:04:26 AM	328	50422 8	2405. 78	281. 064	1.01544	284.888	71.8807	47.9 751	992. 388	996.153	836.486	8.813 03	4.9136 6	87.04 45	460.19 6	1.36 646	24.9	100.1	471.4 53	107.1	75.4	80	26	35.8	247.3 28	15.97 88	225. 111	0.026 601
01:04:27 AM	328	50422 9	2405. 72	280. 595	1.01546	284.973	71.9085	47.9 751	992. 378	995.926	838.004	8.740 45	4.9129	86.50 49	459.63 3	1.36 335	24.9	99.8847	471.4 1	107.1	75.4	80	26	35.8	242.9 75	15.99 42	225. 18	0.076 847
01:04:28 AM	328	50423 0	2405. 72	280. 889	1.01546	285.043	71.9112	47.9 751	992. 376	995.926	829.267	8.896 71	4.9113 7	87.56 63	460.51	1.36 17	24.9	99.8157	471.4 02	107.1	75.4	79.981	26	35.8	238.5 64	15.97 71	225. 272	0.106 4
01:04:29 AM	328	50423 1	2405. 59	280. 64	1.01547	285.091	71.8952	47.9 751	992. 373	995.926	835.839	8.935 85	4.9090 8	87.40 67	459.69 2	1.36 189	24.9	99.8029	471.4	106.51 4	75.4	79.915	26	35.9	234.0 85	16.00 57	225. 405	0.047 291
01:04:30 AM	328	50423 2	2405. 82	280. 393	1.01547	285.116	71.8646	47.9 751	992. 367	996.153	828.706	8.963 73	4.9174 8	87.97 1	460.43 3	1.36 292	24.9	99.8005	471.4	106.25 8	75.4	79.902 8	26	36.0	229.5 88	16.03 23	225. 604	0.026 601
01:04:31 AM	328	50423 3	2405. 71	280. 37	1.01547	285.126	71.8268	47.9 751	992. 367	995.926	838.292	8.930 21	4.9129	88.64 24	459.61 1	1.36 825	24.9	99.8001	471.3 8	106.21 1	75.4	79.900 5	26	36.0	225.2 92	15.99 59	225. 833	0.050 25
01:04:32 AM	328	50423 4	2405. 75	280. 452	1.01547	285.126	71.7937	47.9 751	992. 366	995.926	833.289	8.887 09	4.9106	87.89 01	459.69 9	1.36 982	24.9	99.8	471.2 33	106.20 2	75.4	79.900 1	26	36.0	220.7 08	16.02 15	226. 048	0.079 8
01:04:33 AM	328	50423 5	2406. 04	280. 677	1.01548	285.124	71.7669	47.9 751	992. 364	995.926	834.259	8.827 24	4.9098 4	88.12 5	458.89 3	1.36 732	24.9	99.8	471.2 06	106.2	75.4	79.9	26.0	36.0	216.2 81	16.02 57	226. 286	0.106 4
01:04:34 AM	328	50423 6	2405. 49	280. 916	1.01549	285.124	71.7546	47.9 751	992. 352	995.926	839.445	8.940 56	4.9060 2	87.85 71	459.84 5	1.36 751	24.9	99.8	471.2 01	106.39	75.4	79.974 6	26.0	36.1	211.8 38	16.02 12	226. 476	0.059 11
01:04:35 AM	328	50423 7	2405. 55	281. 022	1.01549	285.13	71.7676	47.9 751	992. 354	995.926	834.377	8.736 45	4.8999 1	87.58 29	460.76 1	1.37 247	24.9	99.8	471.2	106.80 5	75.4	79.995 3	26.0	36.2	207.4 71	15.97 93	226. 587	0.026 601
01:04:36 AM	328	50423 8	2405. 64	280. 638	1.01548	285.138	71.7944	47.9 751	992. 359	995.926	836.914	8.706 2	4.9037 3	88.09 08	460.31	1.37 607	24.9	99.8	471.2	106.88 2	75.4	79.999 1	26.0	36.2	203.0 17	15.94 26	226. 612	0.106

01:06:37 AM	328	50435 9	2201. 96	314. 852	1.01513	319.874	73.7455	48.1 232	992. 432	995.926	798.181	11.95 45	4.6966 7	106.4 31	423.81 7	1.37 415	24.8	96.4	489.8	105.90 6	75.3	80.199 2	25.9	35.9	315.7 3	15.97 47	220. 531	0.162 562
01:06:38 AM	328	50436 0	2202. 11	314. 945	1.01513	319.849	73.7359	48.1 02	992. 429	995.926	799.452	12.12 32	4.6905 6	105.9 8	423.93 2	1.38 757	24.8	96.4	489.7 28	105.90 1	75.3	80.199 9	25.9	35.9	311.1 73	16.00 38	220. 317	0.106 4
01:06:39 AM	328	50436 1	2202. 03	315	1.01513	319.825	73.7288	48.1 121	992. 425	995.926	806.354	11.94 02	4.6943 8	106.0 49	423.38 9	1.34 916	24.8	96.4	489.7 05	105.9	75.3	80.2	25.9	35.9	306.9 79	15.96 43	220. 098	0.065 025
01:06:40 AM	328	50436 2	2202. 2	315. 075	1.01513	319.801	73.7258	48.1 067	992. 427	995.926	809.977	11.87 57	4.6844 4	104.8 52	423.93 4	1.35 73	24.8	96.4	489.7 01	105.9	75.3	80.2	25.9	35.9	302.5 18	15.94 99	219. 95	0.106 404
01:06:41 AM	328	50436 3	2202. 23	315. 288	1.01513	319.795	73.7303	48.1 092	992. 429	995.926	807.756	11.95 5	4.6897 9	105.1 72	422.94 7	1.33 661	24.8	96.4	489.7	106.13 1	75.3	80.2	25.9	36.0	298.1 01	15.94 84	219. 9	0.106 4
01:06:42 AM	328	50436 4	2202. 24	315. 387	1.01514	319.81	73.7472	48.1 25	992. 432	995.926	811.426	11.90 57	4.6875 4	105.7 4	422.58 3	1.36 348	24.8	96.4	489.7	106.18 7	75.3	80.2	25.9	36.1	293.6 57	15.93 58	219. 876	0.008 867
01:06:43 AM	328	50436 5	2201. 98	315. 235	1.01514	319.83	73.7702	48.1 547	992. 432	995.926	802.21	12.18 78	4.6897 9	106.0 73	422.38 9	1.34 135	24.8	96.4	489.7 47	106.19 8	75.3	80.2	25.9	36.1	289.2 65	15.91 59	219. 766	0.076 847
01:06:44 AM	328	50436 6	2202. 04	314. 953	1.01514	319.84	73.7865	48.1 329	992. 43	995.926	801.632	12.11 03	4.6890 3	105.5 38	423.29 1	1.34 638	24.8	96.4	489.7 9	106.2	75.3	80.2	25.9	36.1	284.7 33	15.94 38	219. 601	0.106 4
01:06:45 AM	328	50436 7	2202. 06	314. 964	1.01513	319.84	73.7928	48.1 179	992. 428	995.926	801.575	12.00 84	4.6905 6	105.3 7	423.37 1	1.35 134	24.8	96.4	489.7 98	106.2	75.15 65	80.181	25.9	36.1	280.3 61	15.96 49	219. 418	0.038 424
01:06:46 AM	328	50436 8	2202. 48	315. 086	1.01513	319.836	73.7847	48.1 077	992. 432	995.926	799.517	12.06 9	4.6966 7	105.9 86	423.94 5	1.34 591	24.8	96.4	489.8	106.2	75.11 05	80.115	25.9	36.2	275.8 66	15.95 87	219. 31	0.106 4
01:06:47 AM	328	50436 9	2202. 28	315. 513	1.01514	319.841	73.777	48.1 418	992. 433	995.926	802.095	11.99 35	4.6959 5	105.9 35	422.47 1	1.36 255	24.8	96.4	489.8	106.2	75.10 19	80.102 8	25.9	36.2	271.4 53	15.91 63	219. 305	0.106 4
01:06:48 AM	328	50437 0	2201. 81	315. 168	1.01571	319.866	73.82	48.1 33	992. 43	995.926	798.311	11.91 31	4.6928 5	105.3 65	423.43 9	1.34 646	24.9838	96.4	489.8	106.2	75.10 04	80.100 5	25.9	36.2	267.1 27	15.86 32	219. 343	0.085 714
01:06:49 AM	328	50437 1	2202. 55	315. 033	1.01602	319.909	73.852	48.1 587	992. 435	995.926	806.731	11.98 22	4.6890 3	105.6 42	422.45 9	1.34 089	25.0785	96.4	490.0 44	106.2	75.10 01	80.100 1	25.9	36.2	262.7 36	15.87 06	219. 297	0.106 4
01:06:50 AM	328	50437 2	2202. 22	315. 28	1.01608	319.948	73.8634	48.1 579	992. 436	996.153	802.529	12.07 26	4.6897 9	105.7 3	422.34 1	1.33 329	25.096	96.4	490.0 9	106.2	75.1	80.1	25.9	36.2	258.3 97	15.88 39	219. 133	0.026 601
01:06:51 AM	328	50437 3	2202. 1	315. 335	1.01607	319.992	73.8614	48.1 334	992. 446	995.926	792.46	12.20 27	4.6890 3	105.8 72	424.1 792	1.33 792	25.0993	96.4	490.0 98	106.2	75.1	80.1	25.9	36.2	253.8 69	15.87 44	218. 885	0.106 4
01:06:52 AM	328	50437 4	2202. 09	315. 486	1.01608	320.045	73.8625	48.1 381	992. 444	995.926	802.081	12.01 59	4.6920 8	105.8 39	423.41 5	1.33 303	25.0999	96.4	490.1	106.2	75.1	80.1	25.9	36.2	249.5 09	15.90 18	218. 624	0.038 424
01:06:53 AM	328	50437 5	2202. 05	314. 836	1.01608	320.098	73.8641	48.1 501	992. 446	995.926	799.186	11.93 17	4.6966 7	105.8 86	424.43 1	1.34 474	25.1	96.4	490.1	106.2	75.1	80.1	25.9	36.2	245.0 76	15.84 91	218. 494	0.047 291
01:06:54 AM	328	50437 6	2202. 39	315. 247	1.01609	320.132	73.8691	48.1 722	992. 443	995.926	797.633	12.14 51	4.6913 2	105.3 83	423.27 7	1.35 991	25.1	96.4	490.0 35	106.2	75.1	80.1	25.9	36.2	240.6 11	15.81 23	218. 405	0.106 4
01:06:55 AM	328	50437 7	2201. 33	315. 411	1.01609	320.152	73.8692	48.1 636	992. 443	995.926	801.485	12.03 66	4.6905 6	105.7 7	423.33 7	1.33 468	25.1	96.4	490.0 06	106.2	75.1	80.1	25.9	36.2	236.1 93	15.88 18	218. 352	0.106 4
01:06:56 AM	328	50437 8	2202. 06	315. 179	1.01608	320.169	73.8626	48.1 497	992. 445	996.153	801.614	12.11 9	4.6890 3	105.4 62	423.97 9	1.33 874	25.1	96.4	490.0 01	106.2	75.1	80.059 1	25.9	36.2	231.6 78	15.91 82	218. 3	0.106 4
01:06:57 AM	328	50437 9	2202. 06	314. 989	1.01609	320.195	73.861	48.1 557	992. 438	996.153	792.195	12.14 55	4.6905 6	106.1 75	422.20 1	1.33 97	25.1	96.4	490	106.13 1	75.1	80.010 9	25.9	36.2	227.3 09	15.90 14	218. 257	0.106 4
01:08:31 AM	328	50447 3	2013. 74	326. 192	1.01546	331.662	69.8869	48.2 268	992. 456	995.926	670.085	13.93 91	4.5003 1	114.7 81	389.99 4	1.38 196	24.9	89.3015	497.6	105.29 2	74.9	80.085 6	25.7	36.1	437.5 05	15.08 84	218. 719	0
01:08:32 AM	328	50447 4	2014. 16	326. 366	1.01547	331.611	69.8851	48.2 704	992. 458	996.153	660.771	13.85 68	4.5018 3	114.6 94	389.58	1.37 755	24.9	89.3003	497.6	105.21 7	74.9	80.097 3	25.7	36.1	433.3 9	15.08 39	218. 834	0.106 4
01:08:33 AM	328	50447 5	2014. 09	326. 209	1.01548	331.56	69.8833	48.2 724	992. 456	995.926	665.78	13.83 57	4.5003 1	114.8 98	387.70 8	1.37 984	24.9	89.3001	497.4 36	105.20 3	74.9	80.099 5	25.6 9	36.1	429.2 67	15.06 25	218. 971	0.088 67
01:08:34 AM	328	50447 6	2014. 41	325. 94	1.01548	331.517	69.876	48.2 788	992. 454	995.926	662.986	13.91 8	4.5071 8	114.2 3	387.97	1.35 482	24.9	89.1565	497.2 44	105.20 1	74.9	80.099 9	25.6 167	36.1	425.1 63	15.04 98	219. 07	0.011 82
01:08:35 AM	328	50447 7	2014. 12	326. 302	1.01548	331.474	69.8694	48.2 673	992. 452	995.926	668.252	14.00 02	4.5026 6	113.9 61	387.11 6	1.37 099	24.9	89.1105	497.2 08	105.2	74.9	80.062	25.6 802	36.1	420.9 49	15.04 74	219. 106	0.038 424

01:08:36 AM	328	50447 8	2014. 21	326. 181	1.01548	331.431	69.8616	48.2 678	992. 449	995.926	669.797	13.89 02	4.5079 5	113.9 91	387.69 8	1.38 012	24.9	89.1019	497.2 02	105.26 1	74.9	79.93	25.6 312	36.1	416.7 53	15.04 89	219. 044	0.106 4
01:08:37 AM	328	50447 9	2014. 28	326. 381	1.01549	331.382	69.8589	48.2 697	992. 447	995.926	657.73	13.78 52	4.5026	114.3 93	387.44	1.36 61	24.9	89.1004	497.2	105.29 3	74.9	79.905 6	25.6 058	36.1	412.6 33	15.05 31	218. 939	0.020 69
01:08:38 AM	328	50448 0	2013. 96	326. 382	1.01549	331.333	69.864	48.2 783	992. 447	995.926	669.584	13.93 8	4.4972 5	114.3 65	389.10 8	1.37 805	24.9	89.1001	497.2	105.29 9	74.9	79.901	25.6 011	36.1	408.4 45	15.05 39	218. 849	0.038 424
01:08:39 AM	328	50448 1	2014. 02	326. 22	1.01549	331.301	69.8738	48.2 625	992. 447	995.926	665.722	13.84 09	4.4957 2	115.1 44	388.60 6	1.37 333	24.9	88.9772	497.0 37	105.3	74.9	79.900 2	25.6 002	36.1	404.3 47	15.02 12	218. 788	0.026 601
01:08:40 AM	328	50448 2	2014. 35	326. 126	1.01549	331.285	69.8813	48.2 77	992. 448	995.926	668.818	13.89 18	4.4964 9	115.6 96	388.62 4	1.38 848	24.9	88.8328	497.0 07	105.3	74.81 81	79.9	25.6 815	36.1	400.1 18	14.91 64	218. 708	0.106 4
01:08:41 AM	328	50448 3	2013. 96	326	1.01549	331.271	69.8758	48.2 797	992. 447	995.926	660.57	13.82 29	4.5041 3	115.9 85	389.83 6	1.37 959	24.9	88.8061	497.0 01	105.3	74.72 19	79.9	25.6 966	36.1	396.0 43	14.96 39	218. 525	0.106 4
01:08:42 AM	328	50448 4	2014. 15	325. 906	1.01549	331.251	69.8625	48.2 802	992. 447	995.926	667.456	13.82 51	4.5056 5	115.9 34	390.47 7	1.36 358	24.9	88.8011	497	105.3	74.70 41	79.9	25.6 381	36.1	391.9 41	14.89 64	218. 24	0.076 847
01:08:43 AM	328	50448 5	2014. 13	325. 995	1.01549	331.231	69.8475	48.2 803	992. 445	995.926	661.931	13.77 31	4.4995 4	115.8 57	391.62 7	1.38 256	24.9	88.8002	497	105.3	74.70 08	79.9	25.6 539	36.1	387.7 73	14.88 94	217. 812	0.065 025
01:08:44 AM	328	50448 6	2014. 16	326. 387	1.01549	331.214	69.8397	48.2 803	992. 445	995.926	663.397	13.92 36	4.5056 5	116.0 37	390.73 5	1.40 222	24.9	88.8	496.8 16	105.3	74.70 01	79.9	25.6 915	36.1	383.5 34	14.92 18	217. 424	0.106 4
01:08:45 AM	328	50448 7	2014. 2	326. 016	1.01549	331.207	69.8422	48.2 803	992. 447	995.926	663.214	13.87 04	4.5010 7	115.6 22	388.22 8	1.37 797	24.9	88.7229	496.7 22	105.3	74.7	79.9	25.6 984	36.1	379.5 1	14.98 53	217. 12	0.106 4
01:08:46 AM	328	50448 8	2013. 8	325. 547	1.01549	331.199	69.8458	48.2 977	992. 449	995.926	661.468	13.92 91	4.5026	115.5 81	389.58 4	1.37 513	24.9	88.7042	496.7 04	105.3	74.86 29	79.9	25.6 226	36.1	375.3 51	14.96 26	216. 976	0.106 4
01:08:47 AM	328	50448 9	2014. 13	325. 611	1.01549	331.174	69.8356	48.2 835	992. 447	995.7	670.125	13.83 44	4.4987 8	115.0 53	389.49 6	1.38 658	24.9	88.7008	496.7 01	105.23 1	74.89 31	79.9	25.6 042	36.1	371.1 57	14.93 94	217. 036	0.085 714
01:08:48 AM	328	50449 0	2014. 31	325. 686	1.0155	331.132	69.8075	48.2 965	992. 445	995.926	666.168	13.77 49	4.5071 8	114.1 76	387.60 4	1.37 318	24.9	88.7001	496.7	105.20 6	74.89 87	79.9	25.6 62	36.1	367.0 79	14.97 52	217. 209	0.106 4
01:08:49 AM	328	50449 1	2014. 18	325. 48	1.0155	331.089	69.7716	48.2 833	992. 445	995.926	669.724	13.81 56	4.5018 3	115.2 08	388.86 5	1.36 793	24.9	88.7	496.5 97	105.20 1	74.89 98	79.9	25.6 52	36.1	362.9 77	14.90 33	217. 425	0.106 4
01:08:50 AM	328	50449 2	2014. 18	325. 775	1.0155	331.039	69.7463	48.2 96	992. 447	995.926	663.988	13.83 53	4.4964 9	115.1 59	389.43	1.38 501	24.9	88.5162	496.4 36	105.2	74.9	79.9	25.6 096	36.1	358.8 15	14.95 59	217. 547	0.106 4
01:08:51 AM	328	50449 3	2014. 11	325. 8	1.0155	330.989	69.7397	48.3 019	992. 445	995.926	663.281	13.89 08	4.5033 6	114.7 89	388.79 1	1.37 146	24.9	88.4215	496.4 07	105.2	74.95 69	79.9	25.6 018	36.1	354.6 95	14.92 91	217. 603	0.106 4
01:08:52 AM	328	50449 4	2014. 26	325. 796	1.0155	330.945	69.7496	48.3 05	992. 445	995.926	663.31	13.75 52	4.5026	114.3 62	389.86 3	1.36 98	24.9	88.404	496.4 01	105.15 9	74.99 2	80.062 9	25.6 003	36.1	350.5 34	14.92 04	217. 581	0.106 4
01:08:53 AM	328	50449 5	2014. 32	325. 815	1.01551	330.917	69.7669	48.3 038	992. 439	995.926	659.216	13.79 8	4.5018 3	114.3 58	389.01 6	1.37 941	24.9	88.4007	496.4	105.11 1	74.99 85	80.093 1	25.6 001	36.1	346.4 44	14.94 18	217. 476	0.038 424
01:08:54 AM	328	50449 6	2014. 08	325. 656	1.01551	330.896	69.7783	48.2 945	992. 439	995.926	662.818	14.06 66	4.5102 4	114.9 35	387.37 6	1.35 142	24.9	88.4001	496.4	105.10 2	74.99 97	80.098 7	25.6	36.1	342.3 95	14.92 74	217. 433	0.106 4
01:08:55 AM	328	50449 7	2014. 15	325. 391	1.01552	330.874	69.7818	48.3 268	992. 436	995.926	654.645	13.96 97	4.5064 2	114.4 12	389.03 4	1.37 535	24.9	88.4	496.4	105.1	74.99 99	80.099 8	25.6	36.1	338.1 98	14.89 71	217. 348	0.106 4
01:08:56 AM	328	50449 8	2013. 94	325. 174	1.01551	330.838	69.7673	48.3 114	992. 437	995.926	658.883	13.85 12	4.5125 3	114.6 96	388.30 2	1.37 358	24.9	88.4	496.4	105.1	75	80.1	25.6	36.1	334.0 17	14.89 75	217. 274	0.106 4
01:08:57 AM	328	50449 9	2014. 04	325. 45	1.01553	330.778	69.7403	48.3 44	992. 437	995.926	659.495	13.80 25	4.5117 7	114.7 61	389.97 4	1.37 356	24.9	88.4	496.4	105.1	75	80.1	25.6	36.1	329.9 46	14.89 02	217. 228	0.008 867
01:08:58 AM	328	50450 0	2013. 92	325. 531	1.01554	330.712	69.7139	48.3 599	992. 434	995.926	669.899	13.84 64	4.5041 3	115.7 86	388.98 1	1.38 264	24.9	88.4	496.4	105.25 9	75	80.1	25.6	36.1	325.9 06	14.86 51	217. 133	0.056 158
01:08:59 AM	328	50450 1	2013. 92	325. 226	1.01553	330.662	69.6966	48.3 444	992. 432	995.926	666.772	13.77 71	4.5064 2	115.6 52	387.45 3	1.38 207	24.9	88.4	496.4	105.29 2	75	80.1	25.6	36.1	321.7 29	14.88 53	217. 046	0.106 4
01:09:00 AM	328	50450 2	2014. 1	325. 242	1.01554	330.638	69.6908	48.3 499	992. 433	995.926	660.811	13.88 1	4.5018 3	115.1 67	389.51 4	1.36 6	24.9	88.4	496.3 53	105.29 9	75	80.1	25.6	36.1	317.5 99	14.89 96	216. 976	0.106 4

01:10:17 AM	328	50457 9	1808. 92	328. 797	1.01558	333.311	63.2427	48.4 94	992. 448	995.7	572.612	8.586 16	4.2550 4	122.4 93	354.24 9	1.44 137			494.7 08	104.6	74.77 29	80	25.6	35.9	510.9 38	13.49 44	216. 896	0.106 4
01:10:18 AM	328	50458 0	1809. 14	328. 599	1.01557	333.381	63.2544	48.4 939	992. 449	995.926	579.177	8.584 64	4.2588 6	121.8 98	353.88 4	1.41 992			494.7 02	104.6	74.71 35	80	25.6	35.9	507.2 51	13.47 64	216. 76	0.106 4
01:10:19 AM	328	50458 1	1808. 93	328. 808	1.01558	333.457	63.2589	48.4 975	992. 446	995.7	571.61	8.288 22	4.2542 8	122.1 43	355.47 9	1.43 722			494.7	104.27 4	74.70 25	80	25.6	35.9	503.4 34	13.48 36	216. 651	0.026 601
01:10:20 AM	328	50458 2	1809. 05	328. 436	1.01557	333.525	63.2523	48.4 946	992. 451	995.926	564.872	8.190 49	4.2565 7	121.0 32	354.99 9	1.43 427			494.7	104.21 4	74.70 05	80	25.6	35.9	499.7 05	13.47 52	216. 596	0.056 158
01:10:21 AM	328	50458 3	1808. 84	328. 151	1.01557	333.589	63.2396	48.4 94	992. 449	995.7	559.191	8.155 71	4.2558 1	121.0 78	352.84	1.42 532			494.5 96	104.20 3	74.70 01	80	25.6	35.9	495.9 49	13.48 25	216. 556	0.106 4
01:10:22 AM	328	50458 4	1809. 07	328. 308	1.01558	333.643	63.215	48.5 099	992. 449	995.7	549.427	8.162 74	4.2596 3	121.5 35	353.52 3	1.43 209			494.5 18	104.2	74.7	80	25.6	35.9	492.1 88	13.48 82	216. 532	0.106 4
01:10:23 AM	328	50458 5	1808. 68	328. 352	1.01558	333.684	63.1886	48.4 969	992. 447	995.7	549.663	8.271 18	4.2603 9	121.4 14	353.40 1	1.43 559			494.5 03	104.2	74.62 54	80	25.6	35.9	488.4 29	13.47 29	216. 553	0.041 38
01:10:24 AM	328	50458 6	1808. 94	328. 499	1.01558	333.701	63.1699	48.4 945	992. 447	995.7	549.055	8.358 28	4.2558 1	121.6 25	353.73 8	1.42 303			494.5 01	104.26 5	74.60 47	80	25.6	35.9	484.6 91	13.48 66	216. 594	0.050 25
01:10:25 AM	328	50458 7	1808. 77	328. 416	1.01558	333.706	63.1628	48.4 94	992. 443	995.7	552.393	8.232 45	4.2657 4	121.3 29	354.60 4	1.42 441			494.5	104.29 4	74.60 09	80	25.6	35.8 206	481.0 02	13.49 65	216. 67	0.106 4
01:10:26 AM	328	50458 8	1808. 73	328. 305	1.01559	333.697	63.1651	48.5 085	992. 438	995.926	559.646	8.387 07	4.2596 3	121.0 7	353.83 2	1.41 674			494.4 7	104.29 9	74.60 02	80	25.6	35.8 038	477.3 04	13.51 11	216. 748	0.065 025
01:10:27 AM	328	50458 9	1808. 55	328. 298	1.0156	333.677	63.1696	48.5 283	992. 438	995.7	562.776	8.406 23	4.2626 8	121.2 19	354.30 2	1.41 93			494.2 5	104.3	74.6	80	25.6	35.8 007	473.5 5	13.52 13	216. 82	0.106 4
01:10:28 AM	328	50459 0	1809. 04	328. 519	1.01559	333.644	63.1681	48.5 113	992. 436	995.7	560.528	8.212 31	4.2619 2	120.7 34	354.26 4	1.41 712			494.2 09	104.3	74.6	80	25.6	35.8 001	469.7 49	13.52 3	216. 937	0.106 4
01:10:29 AM	328	50459 1	1808. 9	328. 527	1.0156	333.617	63.1685	48.5 149	992. 436	995.7	559.333	8.349 47	4.2596 3	120.8 37	354.16 6	1.42 514			494.2 02	104.28 1	74.6	79.850 8	25.6	35.8	465.9 82	13.52 69	217. 056	0.056 158
01:10:30 AM	328	50459 2	1808. 91	328. 553	1.01559	333.588	63.175	48.5 033	992. 44	995.7	566.396	8.334 87	4.2581 1	121.4 98	353.76 3	1.42 954			494.2	104.21 5	74.6	79.809 4	25.6	35.8 522	462.2 62	13.51 41	217. 198	0.106 4
01:10:31 AM	328	50459 3	1808. 54	328. 518	1.01559	333.568	63.1883	48.5 205	992. 444	995.7	575.282	8.548 31	4.2649 8	120.9 43	352.46 1	1.43 293			494.2	104.20 3	74.6	79.801 7	25.6	35.8 911	458.5 21	13.5 292	217. 292	0.106 4
01:10:32 AM	328	50459 4	1808. 95	328. 034	1.01559	333.548	63.1944	48.5 082	992. 444	995.926	580.324	8.615 39	4.2611 6	121.9 11	352.60 2	1.42 498			494.0 05	104.20 1	74.6	79.800 3	25.6	35.8 984	454.8 55	13.47 1	217. 3	0.106 4
01:10:33 AM	328	50459 5	1809. 12	328. 38	1.01558	333.525	63.1908	48.5 07	992. 444	995.7	572.182	8.357 06	4.2588 6	121.0 74	353.62 3	1.43 269			493.9 19	104.2	74.61	79.800 1	25.6	35.8 997	451.1 16	13.44 57	217. 204	0.106 4
01:10:34 AM	328	50459 6	1808. 74	328. 401	1.01558	333.508	63.1773	48.4 963	992. 445	995.7	577.66	8.500 61	4.2611 6	120.7 95	354.86 6	1.44 906			493.9 04	104.2	74.68 33	79.893 7	25.6	35.8 999	447.3 77	13.44 62	217. 009	0.106 4
01:10:35 AM	328	50459 7	1808. 91	328. 409	1.01558	333.513	63.1662	48.4 998	992. 445	995.926	579.487	8.539 81	4.2626 8	120.5 86	353.27 5	1.43 766			493.9 01	104.2	74.69 69	79.980 3	25.6	35.9	443.6 47	13.48 15	216. 784	0.076 847
01:10:36 AM	328	50459 8	1808. 28	327. 812	1.01558	333.522	63.1584	48.5 066	992. 445	995.7	580.782	8.589 28	4.2642 1	121.5 17	354.15 5	1.43 795			493.9	104.2	74.69 94	79.996 4	25.6	35.9	439.9 18	13.47 14	216. 604	0.106 4
01:10:37 AM	328	50459 9	1808. 89	328. 233	1.01559	333.507	63.1494	48.5 343	992. 445	995.7	577.624	8.513 43	4.2565 7	120.9 68	352.67 5	1.42 439			493.8 19	104.2	74.69 99	79.999 3	25.6	35.9	436.2 57	13.41 3	216. 491	0.106 4
01:10:38 AM	328	50460 0	1808. 87	328. 181	1.01558	333.481	63.1385	48.5 323	992. 449	995.7	581.416	8.608 93	4.2611 6	120.9 37	353.65 4	1.43 207			493.6 41	104.2	74.7	79.999 9	25.6	35.9	432.5 36	13.43 24	216. 431	0.097 54
01:10:39 AM	328	50460 1	1809. 41	328. 677	1.01557	333.461	63.1293	48.5 054	992. 454	995.7	574.344	8.490 66	4.2611 6	120.9 49	353.89 3	1.42 82			493.6 08	104.2	74.7	80	25.6	35.9	428.7 9	13.42 23	216. 385	0.106 4
01:10:40 AM	328	50460 2	1808. 99	328. 237	1.01558	333.466	63.1379	48.5 112	992. 449	995.926	575.492	8.527 94	4.2626 8	121.2 37	353.45 3	1.43 603			493.6 01	104.2	74.7	80	25.6	35.9	425.0 19	13.38 73	216. 279	0.011 82
01:10:41 AM	328	50460 3	1808. 45	328. 44	1.01558	333.477	63.1558	48.5 152	992. 452	995.7	579.047	8.450 42	4.2672 7	121.4 38	352.29 3	1.43 228			493.6	104.2	74.7	80	25.6	35.9	421.3 26	13.42 32	216. 093	0.047 291

01:12:18 AM	328	50470 0	1603. 21	328. 509	1.01562	333.58	56.0795	48.5 685	992. 437	995.7	479.924	1.865 13	3.9608 8	127.3 37	322.18 4	1.42 423	24.9	75.5122	478.2 04	102.4	74.63 44	80	25.3	35.8	376.7 18	11.81 2	213. 223	0.106 4
01:12:19 AM	328	50470 1	1602. 93	328. 279	1.01562	333.626	56.0729	48.5 712	992. 433	995.7	475.456	1.898 47	3.9578 2	127.2 39	322.75 1	1.43 49	24.9	75.5023	478.2 01	102.42	74.68 78	80	25.3	35.8	373.3 62	11.79 29	213. 299	0.076 847
01:12:20 AM	328	50470 2	1602. 74	327. 893	1.01563	333.644	56.0498	48.5 828	992. 43	995.7	480.58	2.079 64	3.9631 7	127.3 69	322.50 8	1.42 846	24.9	75.5004	478.2	102.56 7	74.69 77	80	25.3	35.8	370.1 33	11.78 89	213. 507	0.106 4
01:12:21 AM	328	50470 3	1602. 61	327. 357	1.01563	333.641	56.0102	48.5 85	992. 433	995.7	482.267	1.726 53	3.9608 8	127.6 25	322.95 9	1.43 969	24.9	75.5001	478.2	102.59 4	74.69 96	80	25.3	35.8	366.8 71	11.85 81	213. 71	0.106 4
01:12:22 AM	328	50470 4	1602. 86	327. 016	1.01564	333.616	55.9557	48.5 854	992. 421	995.7	480.544	1.778 04	3.9547 7	126.8 88	322.94 5	1.43 31	24.9	75.5	477.8 94	102.59 9	74.69 99	80	25.3	35.8	363.5 62	11.89 35	213. 988	0
01:12:23 AM	328	50470 5	1602. 72	327. 409	1.01564	333.57	55.8945	48.5 854	992. 423	995.7	479.188	1.830 34	3.9639 4	127.4 63	321.62 2	1.44 305	24.9	75.3458	477.7 36	102.6	74.7	80	25.3	35.8	360.2 92	11.88 54	214. 347	0.079 8
01:12:24 AM	328	50470 6	1603. 35	327. 382	1.01565	333.506	55.8424	48.5 855	992. 417	995.7	479.277	1.769 22	3.9662 3	127.4 23	322.28 2	1.42 806	24.9	75.3085	477.7 07	102.6	74.62 29	80	25.3	35.8	357.0 38	11.83 3	214. 822	0.106 4
01:12:25 AM	328	50470 7	1603. 27	327. 783	1.01565	333.424	55.8173	48.5 806	992. 417	995.7	478.733	1.780 56	3.9639 4	127.5 52	321.91 7	1.41 917	24.9	75.3016	477.7 01	102.6	74.60 42	80	25.3	35.9	353.7 37	11.87 97	215. 301	0.106 4
01:12:26 AM	328	50470 8	1602. 86	327. 599	1.01565	333.335	55.8162	48.5 771	992. 417	995.7	472.468	1.793 17	3.9662 3	127.6 78	321.77 9	1.41 974	24.9	75.3003	477.7	102.6	74.60 08	80	25.3	35.8	350.5 33	11.81 1	215. 698	0.056 158
01:13:22 AM	328	50476 4	1404. 46	320. 46	1.01571	325.518	47.8531	48.5 855	992. 369	995.7	392.315	0.243 277	3.5077 9	135.3 5	297.4	1.43 088	24.9	70.1775	463.3 85	101.4	74.5	80	25.1	35.7	537.6 54	10.24 95	218. 481	0.153 695
01:13:23 AM	328	50476 5	1404. 252	320. 252	1.01571	325.526	47.8587	48.5 855	992. 365	995.7	386.577	0.041 064	3.5131 4	135.2 12	297.46	1.44 635	24.9	70.1144	463.3 16	101.4	74.5	80	25.1	35.7	534.8 42	10.26 14	218. 462	0.183 251
01:13:24 AM	328	50476 6	1404. 45	319. 539	1.01571	325.508	47.8639	48.5 855	992. 369	995.7	387.581	0.253 918	3.5169 6	135.5 4	296.87 7	1.42 803	24.9	70.1027	463.3 03	101.4	74.5	80	25.1	35.8	532.1 03	10.16	218. 221	0.041 38
01:13:25 AM	328	50476 7	1404. 34	319. 927	1.0157	325.46	47.8511	48.5 855	992. 375	995.7	385.235	0.001 498	3.5230 7	135.0 17	296.15 7	1.43 392	24.9	70.1005	463.3 01	101.4	74.5	80	25.1	35.8	529.2 76	10.12 36	217. 808	0.008 867
01:13:26 AM	328	50476 8	1404. 94	319. 861	1.01569	325.398	47.8216	48.5 794	992. 382	995.398	383.255	0.088 79	3.5230 7	135.0 63	296.48 3	1.43 892	24.9	70.1001	463.3	101.26 5	74.5	80.077 1	25.1	35.8	526.4 5	10.21 09	217. 338	0.200 985
01:13:27 AM	328	50476 9	1404. 24	320. 032	1.01569	325.349	47.8009	48.5 843	992. 382	995.398	384.422	0.133 001	3.5162	135.0 44	296.66	1.41 621	24.9	70.1	463.3	100.96 8	74.5	80.095 8	25.1	35.8	523.7	10.15 26	216. 838	0.106 4
01:13:28 AM	328	50477 0	1404. 65	320. 016	1.01589	325.307	47.8021	48.5 853	992. 381	995.7	385.181	0.263 873	3.5192 5	135.1 41	296.18 6	1.40 272	24.9688	70.1	463.3	100.91 3	74.5	80.099 2	25.1	35.8	520.9 8	10.10 76	216. 396	0.106 4
01:13:29 AM	328	50477 1	1404. 58	319. 675	1.01624	325.268	47.8212	48.5 854	992. 39	995.398	389.766	0.049 08	3.5192 5	135.0 25	296.96 5	1.39 721	25.0757	70.1	462.5 45	100.90 2	74.5	80.099 9	25.1	35.8	518.1 88	10.07 48	216. 097	0.047 291
01:13:30 AM	328	50477 2	1404. 82	319. 554	1.01631	325.214	47.827	48.5 855	992. 389	995.7	384.322	0.323 34	3.5215 5	134.5 55	296.66 5	1.41 327	25.0955	69.8556	462.2 64	100.9	74.5	80.1	25.1	35.8	515.3 34	10.12 05	215. 745	0.106 4
01:13:31 AM	328	50477 3	1405. 06	320. 32	1.01633	325.166	47.827	48.5 855	992. 383	995.7	378.346	0.022 73	3.5276 6	134.9 7	296.15 9	1.42 89	25.0992	69.8103	462.2 12	100.9	74.41 85	79.995 7	25.1	35.8	512.3 58	10.18 34	215. 404	0.106 4
01:13:32 AM	328	50477 4	1404. 45	320. 041	1.01634	325.161	47.8256	48.5 855	992. 373	995.398	388.162	0.285 38	3.5230 7	134.7 26	295.86 2	1.41 368	25.0998	69.8019	462.2 02	100.67 6	74.40 34	79.917 7	25.1	35.7	509.6 34	10.15 49	215. 215	0.212 808
01:13:33 AM	328	50477 5	1404. 42	319. 725	1.01635	325.179	47.8288	48.5 855	992. 369	995.7	385.367	0.150 663	3.5246	134.5 87	295.51 1	1.43 897	25.1	69.8004	462.2	100.61 4	74.40 06	79.903 3	25.1	35.4	506.7 3	10.12 05	215. 161	0.106 4
01:13:34 AM	328	50477 6	1404. 54	319. 976	1.01585	325.157	47.8107	48.5 855	992. 373	995.398	380.948	0.294 42	3.5238 4	134.4 27	296.45 3	1.42 988	24.9457	69.8001	461.8 72	100.60 3	74.40 01	79.900 6	25.1	35.4	503.9 31	10.12 92	215. 282	0.008 867
01:13:35 AM	328	50477 7	1404. 36	319. 513	1.01574	325.101	47.8004	48.5 855	992. 365	995.398	383.087	0.179 12	3.5261 3	134.0 07	296.10 4	1.41 678	24.9085	69.6697	461.4 88	100.6	74.4	79.900 1	25.1	35.4	501.2 33	10.13 14	215. 446	0.106 4
01:13:36 AM	328	50477 8	1404. 37	319. 29	1.01572	325.045	47.7882	48.5 855	992. 36	995.398	386.943	0.149 19	3.5230 7	133.9 14	295.95	1.42 281	24.9016	69.6129	461.4 16	100.6	74.4	79.9	25.1	35.4	498.3 88	10.17 11	215. 484	0.106 4

01:13:37 AM	328	50477 9	1404. 65	318. 926	1.01573	324.989	47.7622	48.5 855	992. 351	995.398	389.256	0.119 07	3.5314 8	134.5 88	295.74 2	1.39 233	24.9003	69.6024	461.4 03	100.39 5	74.4	79.9	25.1	35.4 001	495.7 27	10.10 17	215. 503	0.106 4
01:13:38 AM	328	50478 0	1404. 61	319. 5	1.01574	324.938	47.7355	48.5 855	992. 345	995.398	391.158	0.044 65	3.5246	134.4 93	296.21	1.42 582	24.9001	69.6004	461.4 01	100.15 5	74.4	79.9	25.1	35.6 059	492.7 86	10.05 84	215. 492	0.106 4
01:13:39 AM	328	50478 1	1404. 86	319. 416	1.01573	324.894	47.7165	48.5 794	992. 346	995.7	387.356	0.196 02	3.5261 3	134.0 75	295.12 3	1.41 37	24.9	69.6001	461.4	100.11	74.4	79.9	25.1	35.6 826	490.0 05	10.10 51	215. 43	0.065 025
01:13:40 AM	328	50478 2	1404. 77	319. 826	1.01574	324.852	47.7128	48.5 843	992. 342	995.7	390.672	0.167 973	3.5345 4	134.4 85	296.04 8	1.42	24.9	69.5187	461.1 02	100.10 2	74.4	79.9	25.1	35.6 968	487.2 28	10.09 13	215. 373	0.056 158
01:13:41 AM	328	50478 3	1404. 68	320. 167	1.01575	324.818	47.7286	48.5 853	992. 338	995.398	393.875	0.143 432	3.5330 1	134.2 38	296.99 6	1.42 38	24.9	69.3405	461.0 19	100.1	74.4	79.9	25.1	35.6 994	484.3 62	10.05 62	215. 128	0.106 4
01:13:42 AM	328	50478 4	1404. 71	320. 242	1.01576	324.802	47.7593	48.5 854	992. 33	995.7	387.431	0.166 04	3.5314 8	133.9 35	295.31 7	1.42 27	24.9	69.3075	461.0 03	100.1	74.4	79.9	25.1	35.6 999	481.5 35	10.09 55	214. 836	0.011 82
01:13:43 AM	328	50478 5	1404. 39	319. 757	1.01577	324.813	47.7926	48.5 855	992. 323	995.7	390.039	0.073 21	3.5437	134.0 42	295.17 2	1.41 699	24.9	69.3014	461.0 01	100.50 7	74.4	79.9	25.1	35.7	478.7 33	10.12 21	214. 636	0.094 581
01:13:44 AM	328	50478 6	1404. 09	319. 203	1.01577	324.811	47.806	48.5 855	992. 323	995.7	385.834	0.059 107	3.5307 2	133.9 58	295.42 4	1.41 034	24.9	69.3003	461	100.58 3	74.4	79.9	25.1	35.7	475.9 74	10.09 31	214. 468	0.088 67
01:13:45 AM	328	50478 7	1404. 53	319. 241	1.01577	324.759	47.7961	48.5 855	992. 32	995.398	381.682	0.305 93	3.5299 5	133.9 56	295.88 4	1.40 694	24.9	69.3	460.6 01	100.59 7	74.4	79.9	25.1	35.7	473.2 14	10.08 97	214. 442	0.106 4
01:13:46 AM	328	50478 8	1404. 66	319. 385	1.01578	324.682	47.7646	48.5 855	992. 316	995.398	381.786	0.100 855	3.5345 4	133.7 47	295.62 2	1.40 193	24.9	69.2254	460.3 56	100.59 9	74.4	79.9	25.1	35.7	470.4 13	10.07 79	214. 538	0.056 158
01:13:47 AM	328	50478 9	1405. 04	319. 849	1.01577	324.631	47.7361	48.5 855	992. 324	995.7	381.751	0.282 59	3.5414 1	133.8 08	296.16	1.41 251	24.9	69.2047	460.3 1	100.6	74.4	79.9	25.1	35.7	467.5 58	10.04 35	214. 583	0.106 4
01:13:48 AM	328	50479 0	1405. 13	319. 868	1.01577	324.615	47.7263	48.5 855	992. 321	995.7	392.449	0.052 208	3.5383 6	133.8 88	296.29 2	1.40 995	24.9	69.2009	460.3 02	100.66 1	74.4	79.9	25.0 656	464.7 37	10.16 08	214. 63	0.106 4	
01:13:49 AM	328	50479 1	1404. 55	319. 698	1.01575	324.626	47.7374	48.5 855	992. 334	995.7	385.839	0.108 099	3.5345 4	133.7 38	295.98 3	1.39 225	24.9	69.2002	460.3 3	100.69 3	74.4	79.9	25.0 122	462.0 556	10.15 14	214. 726	0.076 847	
01:13:50 AM	328	50479 2	1404. 74	319. 913	1.01574	324.664	47.7604	48.5 855	992. 344	995.398	382.624	0.356 85	3.5360 6	133.9 11	296.20 1	1.41 357	24.9	69.2	460.2 6	100.69 9	74.4	79.9	25.0 023	459.1 103	10.04 4	214. 782	0.106 4	
01:13:51 AM	328	50479 3	1404. 88	319. 783	1.01575	324.709	47.7747	48.5 855	992. 337	995.398	388.636	0.279 19	3.5429 4	133.6 73	296.29 8	1.41 305	24.9	69.0957	459.9 67	100.7	74.4	79.9	25.0 004	459.0 019	10.13 54	214. 06	0.106 4	
01:15:01 AM	328	50486 3	1209. 86	299. 428	1.01549	304.105	38.5277	48.5 855	992. 292	995.398	300.851	0.366 463	3.0409 5	133.1 4	267.34 1	1.49 3	24.8	63.7968	442.5 6	99.100 3	74.1	79.700 2	24.8	35.4 019	512.7 7	8.199 3	216. 754	0.106 4
01:15:02 AM	328	50486 4	1209. 79	299. 263	1.01547	304.088	38.5281	48.5 855	992. 303	995.398	302.499	0.609 723	3.0432 5	132.9 77	266.68 8	1.51 947	24.8	63.6365	442.4 3	99.100 1	74.1	79.7	24.8	35.4 004	510.5 34	8.192 31	216. 555	0.106 4
01:15:03 AM	328	50486 5	1210. 11	299. 063	1.01547	304.065	38.5194	48.5 855	992. 308	995.7	306.499	0.775 605	3.0440 1	132.7 19	267.08 1	1.53 327	24.8	63.6068	442.4 05	99.07	74.1	79.765 1	24.8	35.4 001	508.0 88	8.243 54	216. 57	0.020 69
01:15:04 AM	328	50486 6	1210. 02	299. 44	1.01547	304.047	38.5122	48.5 855	992. 308	995.7	303.17	0.528 533	3.0417 2	132.3 54	267.29 4	1.52 599	24.8	63.6013	442.4 01	98.85	74.1	79.793 5	24.8	35.4 937	505.8 68	8.217 85	216. 708	0.106 4
01:15:05 AM	328	50486 7	1209. 65	299. 133	1.01546	304.035	38.506	48.5 831	992. 314	995.398	294.908	0.608 633	3.0424 8	131.8 46	266.21 6	1.48 332	24.8	63.6002	442.4 3	98.809 3	74.1	79.798 8	24.8	35.5 803	503.6 14	8.183 64	216. 71	0.029 56
01:15:06 AM	328	50486 8	1209. 94	299. 074	1.01545	304.021	38.4998	48.5 85	992. 319	995.7	293.944	0.351 413	3.0501 2	132.8 09	265.92 9	1.49 561	24.8	63.6	441.8 31	98.801 7	74.1	79.799 8	24.8	35.5 964	501.2 47	8.246 56	216. 719	0.065 025
01:15:07 AM	328	50486 9	1209. 39	299. 002	1.01544	304.001	38.4927	48.5 854	992. 327	995.7	307.192	0.357 529	3.0508 5	132.5 11	267.16 6	1.51 195	24.8	63.5254	441.4 8	98.800 3	74.1	79.8	24.8	35.5 993	498.9 9	8.188 55	216. 729	0.106 4
01:15:08 AM	328	50487 0	1210. 08	299. 192	1.01543	303.964	38.486	48.5 855	992. 335	995.7	294.662	0.340 04	3.0440 1	131.9 39	266.30 3	1.50 637	24.8	63.5047	441.4 15	98.800 1	73.94 12	79.731 2	24.8	35.5 999	496.7 38	8.178 2	216. 649	0.056 158
01:15:09 AM	328	50487 1	1209. 32	299. 284	1.01543	303.929	38.4837	48.5 855	992. 333	995.398	300.202	0.396 756	3.0432 5	132.0 77	265.59 4	1.50 166	24.8	63.5009	441.4 03	98.8	73.90 76	79.624 3	24.8	35.6	494.4 71	8.183 83	216. 594	0.106 4
01:15:10 AM	328	50487 2	1209. 41	299. 043	1.01543	303.904	38.4811	48.5 855	992. 336	995.7	303.671	0.491 757	3.0524 1	131.9 67	265.51	1.49 641	24.8	63.5002	441.4 01	98.8	73.90 14	79.604 5	24.8	35.6	492.2 76	8.133 47	216. 503	0.106 4

01:15:11 AM	328	50487 3	1209. 4	298. 796	1.01544	303.888	38.4812	48.5 855	992. 334	995.7	297.363	0.517 101	3.0524 1	131.6 49	265.75 4	1.56 107	24.8	63.5	441.3 5	98.8	73.90 03	79.600 8	24.8	35.6	489.8 57	8.153 68	216. 148	0.011 82
01:15:12 AM	328	50487 4	1209. 79	298. 781	1.01544	303.854	38.4746	48.5 855	992. 332	995.7	298.335	0.282 233	3.0539 4	131.8 04	266.13 4	1.51 321	24.8	63.3291	440.9 83	98.8	73.9	79.600 2	24.8	35.6	487.6 34	8.244 76	215. 872	0.026 601
01:15:13 AM	328	50487 5	1209. 64	298. 822	1.01542	303.809	38.4625	48.5 855	992. 341	995.398	293.295	0.622 887	3.0531 8	131.3 68	265.84	1.50 976	24.8	63.2239	440.9 15	98.8	74.07 09	79.6	24.8	35.6	485.3 29	8.245 5	215. 764	0.056 158
01:15:14 AM	328	50487 6	1208. 87	298. 45	1.01543	303.763	38.445	48.5 855	992. 338	995.398	299.933	0.639 322	3.0547 1	131.4 97	265.31 3	1.52 393	24.8	63.2044	440.9 03	98.903 2	74.17 61	79.674 6	24.8	35.6	483.0 24	8.224 24	215. 839	0.106 4
01:15:15 AM	328	50487 7	1209. 41	298. 277	1.01544	303.712	38.4297	48.5 855	992. 327	995.398	292.195	0.614 364	3.0531 8	131.6 83	265.29 3	1.52 015	24.8	63.2008	440.9 01	99.063 5	74.19 56	79.695 3	24.8	35.4 775	480.6 81	8.274 74	216. 352	0.065 025
01:15:16 AM	328	50487 8	1209. 42	299. 069	1.01545	303.657	38.4174	48.5 855	992. 32	995.398	307.423	0.541 433	3.0493 6	131.8 72	265.05 6	1.54 674	24.8	63.2002	440.9 01	99.093 2	74.19 92	79.699 1	24.8	35.4 144	478.3 5	8.256 89	217. 013	0.047 291
01:15:17 AM	328	50487 9	1208. 96	298. 286	1.01546	303.602	38.3985	48.5 855	992. 316	995.398	295.619	0.692 553	3.057	131.3 91	265.52 3	1.54 252	24.8	63.2	440.3 51	99.098 7	74.19 98	79.699 8	24.8	35.4 027	476.2 32	8.155 28	217. 5	0
01:15:18 AM	328	50488 0	1209. 68	298. 416	1.01546	303.551	38.3993	48.5 855	992. 311	995.7	296.436	0.796 172	3.0623 5	131.3 58	265.08 3	1.51 228	24.8	63.0371	440.1 47	99.099 8	74.23 8	79.7	24.8	35.4 005	473.8 74	8.189 79	217. 781	0.106 4
01:15:19 AM	328	50488 1	1209. 68	299. 159	1.01546	303.502	38.4015	48.5 855	992. 309	995.398	299.415	0.630 754	3.0592 9	131.7 45	264.73 7	1.48 656	24.8	63.0069	440.1 09	99.1	74.37	79.804 3	24.8	35.4 001	471.6 3	8.254 85	217. 734	0.106 4
01:15:20 AM	328	50488 2	1209. 55	298. 394	1.01547	303.467	38.4002	48.5 855	992. 302	995.7	305.03	0.618 555	3.0592 9	131.8 37	264.53 7	1.48 955	24.8	63.0013	440.1 02	98.801 7	74.39 44	79.882 3	24.8	35.4	469.4 56	8.249 28	217. 507	0.020 69
01:15:21 AM	328	50488 3	1209. 58	298. 82	1.01548	303.442	38.4101	48.5 855	992. 296	995.7	296.809	0.587 899	3.0707 5	131.9 41	265.22 6	1.51 198	24.8	63.0002	440.1 01	98.718 8	74.39 9	79.896 7	24.8	35.4	466.9 94	8.353 9	217. 42	0.144 828
01:15:22 AM	328	50488 4	1209. 91	298. 935	1.01549	303.41	38.4174	48.5 904	992. 294	995.398	298.071	0.584 194	3.0646 4	131.7 35	264.54 8	1.51 972	24.8	63	439.8 13	98.703 5	74.39 98	79.899 4	24.8	35.4	464.7 74	8.290 27	217. 694	0.106 4
01:15:23 AM	328	50488 5	1210. 09	299. 219	1.01548	303.385	38.4302	48.5 864	992. 294	995.398	294.115	0.701 441	3.0631 1	131.6 66	265.78 6	1.50 164	24.8	62.9349	439.4 77	98.700 6	74.4	79.899 9	24.8	35.4	462.5 27	8.251 23	218. 148	0.026 601
01:15:24 AM	328	50488 6	1210. 72	299. 116	1.01549	303.381	38.4498	48.5 856	992. 288	995.398	306.439	0.572 784	3.0699 9	131.3 84	265.83 2	1.46 867	24.8	62.9065	439.4 14	98.700 1	74.59 54	79.9	24.8	35.4	460.2 46	8.196 18	218. 585	0.038 424
01:15:25 AM	328	50488 7	1208. 91	299. 776	1.01549	303.408	38.4716	48.5 855	992. 287	995.7	290.735	0.673 135	3.057	131.6 56	264.53 4	1.50 447	24.8	62.9012	439.4 03	98.543 5	74.68 06	79.9	24.8	35.4	457.9 21	8.210 71	218. 676	0.106 4
01:15:26 AM	328	50488 8	1209. 79	299. 062	1.0155	303.451	38.4871	48.5 855	992. 283	995.398	297.119	0.518 739	3.0646 4	131.1 99	264.95 9	1.50 823	24.8	62.9002	439.4 01	98.426 6	74.69 64	79.9	24.8	35.4	455.6 1	8.286 87	218. 3	0.106 4
01:15:27 AM	328	50488 9	1210. 21	299. 223	1.0155	303.49	38.5003	48.5 855	992. 279	995.7	308.635	0.593 595	3.0707 5	131.1 9	264.94 5	1.49 495	24.8	62.9	439.4 01	98.404 9	74.69 93	79.9	24.8	35.4	453.2 31	8.309 01	217. 847	0.144 828
01:15:28 AM	328	50489 0	1209. 12	299. 205	1.0155	303.54	38.5055	48.5 855	992. 278	995.398	295.367	0.616 175	3.0631 1	131.2 93	265.58 5	1.46 877	24.8	62.8312	439.1 62	98.400 9	74.69 99	79.9	24.8	35.4	451.0 2	8.325 43	217. 587	0.038 424
01:15:29 AM	328	50489 1	1210. 54	299. 188	1.01551	303.591	38.5055	48.5 855	992. 275	995.398	302.701	0.627 759	3.0638 8	130.9 61	265.12 4	1.54 226	24.8	62.7243	439.1 11	98.400 2	74.7	79.9	24.8	35.4	448.7 58	8.248 93	217. 748	0.106 4
01:15:30 AM	328	50489 2	1209. 96	299. 107	1.01551	303.634	38.4972	48.5 855	992. 273	995.398	292.936	0.341 851	3.0722 8	130.4 97	264.85 1	1.53 705	24.8	62.7045	439.1 02	98.43	74.7	80.037 2	24.8	35.4	446.3 56	8.255 97	218. 136	0.106 4
01:16:38 AM	359	50496 0	1011. 64	270. 065	1.01651	274.201	29.1959	48.5 855	992. 242	995.398	186.252	0.753 604	2.5313 3	130.1	237.58	1.57 415	25.1	57.2006	414.7 01	96.927	74.1	79.8	24.7 348	35.4	544.7 32	6.419 89	224	0.115 271
01:16:39 AM	359	50496 1	1014. 95	268. 775	1.01651	274.238	29.1797	48.5 855	992. 242	995.398	196.812	0.681 916	2.5641 8	129.6 81	238.54 4	1.43 744	25.1	57.2001	414.7 01	96.905	74.1	79.8	24.7 879	35.4	542.9 23	6.413 38	223. 773	0.026 601
01:16:40 AM	359	50496 2	1015. 98	269. 268	1.01651	274.251	29.163	48.5 855	992. 242	995.398	196.292	0.713 153	2.5634 2	129.3 83	238.38 6	1.54 612	25.1	57.17	413.9 82	96.900 9	74.1	79.8	24.7 184	35.4	541.1 29	6.420 04	223. 627	0.106 4
01:16:41 AM	359	50496 3	1012. 66	269. 799	1.01651	274.239	29.1138	48.5 855	992. 242	995.398	197.423	0.732 444	2.5580 7	129.6 18	238.03 7	1.44 446	25.1	56.95	413.7 52	96.900 2	74.1	79.8	24.7 034	35.4	539.3 74	6.400 55	223. 622	0.065 025
01:16:42 AM	359	50496 4	1015. 07	270. 901	1.01651	274.248	29.1096	48.5 855	992. 242	995.398	186.205	0.539 574	2.5550 1	129.0 33	237.61 6	1.49 85	25.1	56.9093	413.7 1	96.9	74.1	79.8	24.7 006	35.4	537.6 19	6.358 7	223. 707	0.017 734

01:16:43 AM	359	50496 5	1015.64	270.118	1.01651	274.269	29.1189	48.5855	992.237	995.398	194.872	0.629215	2.56494	129.128	238.443	1.4671	25.1	56.9017	413.702	96.8254	74.1	79.8	24.7001	35.4	535.901	6.33549	223.631	0.1064
01:16:44 AM	359	50496 6	1013.74	270.741	1.01651	274.286	29.143	48.5855	992.237	995.398	196.167	0.645825	2.54966	129.071	236.552	1.48282	25.1	56.9003	413.7	96.8047	74.1	79.8	24.7	35.4	534.111	6.33119	223.312	0.1064
01:16:45 AM	359	50496 7	1017.48	270.097	1.01651	274.299	29.1908	48.5855	992.238	995.398	208.796	0.757217	2.53897	128.912	236.782	1.56396	25.1	56.9001	413.332	96.8009	74.1	79.8	24.7	35.4	532.344	6.37151	222.652	0.230542
01:16:46 AM	359	50496 8	1012	269.38	1.01651	274.315	29.1995	48.5855	992.238	995.398	191.204	0.730672	2.55578	129.141	236.818	1.47891	25.1	56.7697	412.898	96.8002	74.1	79.8	24.7	35.4	530.601	6.3623	221.926	0.1064
01:16:47 AM	359	50496 9	1015.89	268.989	1.01651	274.297	29.1882	48.5855	992.238	995.398	202.523	0.664625	2.5787	128.796	237.406	1.50398	25.1	56.7129	412.818	96.8	74.1	79.8	24.7	35.4	528.833	6.37633	221.457	0.1064
01:16:48 AM	359	50497 0	1016.78	268.833	1.0165	274.261	29.1729	48.5728	992.238	995.398	202.608	0.699013	2.58175	129.116	237.632	1.52398	25.1	56.7024	412.803	96.8	74.1	79.8	24.7	35.4	527.08	6.35763	221.32	0.192118
01:16:49 AM	359	50497 1	1015.94	268.632	1.01651	274.215	29.1314	48.5831	992.238	995.398	199.362	0.573481	2.58863	128.639	238.062	1.49214	25.1	56.7004	412.801	96.8	74.1	79.8	24.7	35.4	525.29	6.35291	221.5	0.076847
01:16:50 AM	359	50497 2	1016.06	270.087	1.01651	274.181	29.1313	48.585	992.238	995.7	208.002	0.513864	2.56036	128.398	237.354	1.49007	25.1	56.7001	412.8	96.8	74.1	79.8	24.7	35.4	523.54	6.33652	221.753	0.1064
01:16:51 AM	359	50497 3	1015.93	269.526	1.01651	274.133	29.1246	48.5854	992.238	995.398	183.259	0.624451	2.58328	128.119	237.266	1.46765	25.1	56.6729	412.029	96.8	74.1	79.8	24.7	35.4	521.825	6.31586	221.845	0.1064
01:16:52 AM	359	50497 4	1015.92	270.489	1.01651	274.147	29.1362	48.5855	992.238	995.398	199.467	0.644942	2.57641	128.516	237.36	1.51967	25.1	56.6135	411.842	96.8	74.0591	79.8	24.7	35.4	519.976	6.35689	221.713	0.076847
01:16:53 AM	359	50497 5	1014.03	270.197	1.01651	274.238	29.154	48.5855	992.238	995.398	184.064	0.64874	2.58099	128.223	236.802	1.44308	25.1	56.6025	411.808	96.78	74.0109	79.6697	24.6349	35.4	518.237	6.37627	221.469	0.1064
01:16:54 AM	359	50497 6	1015.5	270.253	1.01651	274.335	29.1754	48.5855	992.238	995.398	184.35	0.649443	2.58099	127.993	236.298	1.50782	25.1	56.6005	411.801	96.6334	74.002	79.6129	24.6065	35.4	516.499	6.39311	221.286	0.1064
01:16:55 AM	359	50497 7	1015.56	271.194	1.01651	274.389	29.2044	48.5855	992.238	995.398	194.171	0.494783	2.57946	127.794	236.88	1.48541	25.1	56.6001	411.8	96.6062	74.0004	79.6024	24.6012	35.5803	514.703	6.38556	221.284	0.133005
01:16:56 AM	359	50497 8	1017.81	269.891	1.01651	274.424	29.2068	48.5855	992.238	995.398	181.267	0.700253	2.59092	127.522	236.618	1.41777	25.1	56.6	411.487	96.6011	74.001	79.6004	24.6002	35.5964	512.959	6.39075	221.516	0.1064
01:16:57 AM	359	50497 9	1014.93	270.585	1.01651	274.456	29.2377	48.5855	992.236	995.398	204.22	0.658989	2.55807	127.95	235.779	1.54924	25.1	56.3686	411.253	96.6002	74	79.6001	24.6	35.5993	511.171	6.40017	221.793	0.1064
01:16:58 AM	359	50498 0	1015.78	269.709	1.01651	274.495	29.2393	48.5855	992.238	995.398	202.768	0.524237	2.58863	127.968	236.875	1.50019	25.1	56.3127	411.21	96.6	74	79.6	24.6	35.5999	509.422	6.40191	222.041	0.008867
01:16:59 AM	359	50498 1	1016.71	270.112	1.01651	274.53	29.2282	48.5855	992.238	995.398	196.551	0.651151	2.59169	127.373	236.343	1.48738	25.1	56.3024	411.202	96.4046	74	79.6	24.6	35.6	507.654	6.40223	222.216	0.026601
01:17:00 AM	359	50498 2	1012.89	271.52	1.01651	274.608	29.2248	48.5855	992.238	995.398	202.687	0.64989	2.54584	127.982	235.148	1.56973	25.1	56.3004	411.2	96.3194	74	79.6	24.6	35.6	505.86	6.40973	222.337	0.1064
01:17:01 AM	359	50498 3	1013.1	268.379	1.01606	274.703	29.1761	48.5855	992.238	995.7	194.893	0.862676	2.60544	127.312	236.358	1.42443	24.9565	56.3001	411.048	96.3036	74	79.6	24.6	35.6	504.139	6.4213	222.534	0.1064
01:17:02 AM	359	50498 4	1013.83	269.876	1.01591	274.758	29.1678	48.5855	992.238	995.398	190.345	0.746649	2.57182	127.506	235.384	1.52812	24.9105	56.1861	410.52	96.3007	74	79.6	24.6	35.6	502.335	6.41759	222.776	0.1064
01:17:03 AM	359	50498 5	1014.89	269.681	1.01588	274.765	29.1462	48.5855	992.238	995.398	183.934	0.669576	2.5871	127.468	236.482	1.44992	24.9019	56.116	410.422	96.3001	74	79.6	24.6	35.6	500.566	6.41473	223.051	0.0798
01:17:04 AM	359	50498 6	1017.93	271.884	1.01587	274.767	29.1543	48.5855	992.238	995.398	193.219	0.653304	2.55883	127.36	235.896	1.3837	24.9004	56.103	410.404	96.3	74	79.6	24.6	35.6	498.787	6.44068	223.349	0.1064
01:17:05 AM	359	50498 7	1020.56	270.558	1.01587	274.777	29.1826	48.5855	992.238	995.398	187.413	0.650289	2.59016	127.221	235.693	1.54373	24.9001	56.1005	410.401	96.3	74	79.6	24.6	35.6	497.014	6.40942	223.535	0.1064
01:17:06 AM	359	50498 8	1016.9	270.604	1.01587	274.788	29.2075	48.5855	992.238	995.398	191.452	0.544449	2.59322	127.209	236.388	1.43169	24.9	56.1001	410.4	96.3	74	79.6	24.6	35.6	495.227	6.42712	223.582	0.017734
01:17:07 AM	359	50498 9	1015.59	270.753	1.01587	274.805	29.2469	48.5855	992.238	995.398	202.211	0.56795	2.59092	127.129	235.083	1.48454	24.9	56.09	410.041	96.3	74	79.6	24.6	35.6	493.472	6.42467	223.52	0.02956

01:18:42 AM	359	50508 4	1603. 87	278. 711	1.0156	282.241	47.4279	48.6 75	992. 233	995.7	377.878	3.231 57	4.2344 1	107.5 79	300.61 5	1.44 097	24.8	62.8	421.3	95.8	75.85 42	80.1	24.1	35.4	235.3 12	10.09 83	215. 737	0.008 867
01:18:43 AM	359	50508 5	1604. 47	278. 812	1.01559	282.252	47.4489	48.6 523	992. 233	995.398	376.069	3.295 09	4.2435 8	106.9 09	302.43 1	1.43 265	24.8	62.8	421.3	95.8	75.97 3	80.168 6	24.1	35.4	232.5 35	10.16 11	216. 026	0.017 734
01:18:44 AM	359	50508 6	1604. 28	278. 426	1.01559	282.272	47.4768	48.6 724	992. 233	995.398	377.568	3.388 14	4.2382 3	106.6 7	301.45 5	1.44 229	24.8	62.8	421.3	96.044 4	75.99 5	80.194 2	24.1	35.5 229	229.7 64	10.09 46	216. 286	0.106 4
01:18:45 AM	359	50508 7	1604. 5	278. 386	1.01559	282.307	47.5016	48.6 553	992. 231	995.398	384.533	3.541 23	4.2443 5	107.0 91	301.64 1	1.45 578	24.8	62.8	421.3	96.089 7	75.99 91	80.198 9	24.1	35.6 672	226.9	10.11 49	216. 43	0.106 4
01:18:46 AM	359	50508 8	1604. 71	278. 669	1.0156	282.362	47.5149	48.6 73	992. 231	995.398	375.367	3.404 98	4.2412 9	107.3 84	302.30 2	1.44 688	24.8	62.8	421.5 61	96.098 1	75.99 98	80.199 8	24.1	35.6 939	224.1 77	10.08 25	216. 434	0.008 867
01:18:47 AM	359	50508 9	1604. 19	279. 136	1.0156	282.442	47.5246	48.6 763	992. 233	995.398	379.776	3.509 74	4.2435 8	107.1 81	301.51 8	1.45 334	24.8	62.9435	421.7 56	96.099 6	76	80.2	24.1	35.6 989	221.3 91	10.10 79	216. 315	0.056 158
01:18:48 AM	359	50509 0	1604. 82	279. 457	1.0156	282.546	47.5413	48.6 769	992. 231	995.398	378.392	3.376 61	4.239	107.4 24	301.01 8	1.44 623	24.8	62.9895	421.7 92	96.099 9	75.84 57	80.2	24.1	35.6 998	218.5 86	10.12 57	216. 101	0.106 4
01:18:49 AM	359	50509 1	1604. 78	279. 451	1.01559	282.659	47.5747	48.6 623	992. 231	995.398	382.874	3.483 58	4.2428 2	107.4 02	301.64 9	1.43 593	24.8	62.9981	421.7 98	95.774 3	75.80 85	80.2	24.1	35.7	215.7 79	10.10 44	215. 961	0.085 714
01:18:50 AM	359	50509 2	1604. 36	279. 115	1.0156	282.777	47.619	48.6 74	992. 231	995.398	382.265	3.509 88	4.2405 3	107.4 97	301.99 8	1.45 895	24.8	62.9996	421.8	95.635 9	75.80 17	80.2	24.1	35.7 771	213.0 04	10.09 02	215. 806	0.106 4
01:18:51 AM	359	50509 3	1603. 94	279. 008	1.0156	282.888	47.646	48.6 854	992. 233	995.398	382.99	3.405 12	4.2412 9	107.4 2	302.63 8	1.47 137	24.8	62.9999	421.8	95.607 4	75.80 04	80.2	24.1	35.7 953	210.2 32	10.08 73	215. 688	0.106 4
01:18:52 AM	359	50509 4	1604. 38	278. 49	1.01559	282.993	47.6505	48.6 672	992. 233	995.398	379.322	3.597 94	4.2504 6	107.8 51	302.11 1	1.43 728	24.8	63.0468	422.4 52	95.601 4	75.80 01	80.2	24.1	35.7 991	207.4 87	10.07 65	215. 55	0.106 4
01:18:53 AM	359	50509 5	1604. 55	278. 841	1.0156	283.07	47.6328	48.6 752	992. 233	995.398	376.448	3.358 35	4.2412 9	107.3 69	302.73 6	1.45 844	24.8	63.0901	422.5 73	95.600 3	75.8	80.2	24.1	35.7 998	204.6 29	10.08 94	215. 351	0.106 4
01:18:54 AM	359	50509 6	1603. 96	278. 073	1.0156	283.126	47.5971	48.6 767	992. 233	995.398	376.675	3.399 37	4.2397 6	108.0 04	302.11 5	1.45 11	24.8	63.0982	422.5 95	95.6	75.8	80.2	24.1	35.8	201.8 79	10.10 74	215. 232	0.106 4
01:18:55 AM	359	50509 7	1604. 1	278. 097	1.01559	283.146	47.5619	48.6 629	992. 233	995.398	377.497	3.358 87	4.2443 5	107.7 99	302.65 7	1.43 343	24.8	63.0997	422.5 99	95.6	75.8	80.2	24.1	35.6 775	199.1 58	10.08 63	215. 216	0.106 4
01:18:56 AM	359	50509 8	1604. 41	278. 254	1.01559	283.13	47.5245	48.6 57	992. 235	995.398	380.596	3.451 33	4.2435 8	107.7 42	302.60 2	1.44 363	24.8	63.0999	422.6	95.6	75.8	80.2	24.1	35.6 144	196.2 94	10.07 84	215. 296	0.106 4
01:18:57 AM	359	50509 9	1604. 64	278. 645	1.01559	283.097	47.4932	48.6 733	992. 235	995.398	380.043	3.352 39	4.239	108.1 53	302.62 2	1.45 733	24.8	63.1	422.7 37	95.6	75.8	80.2	24.1	35.6 027	193.4 2	10.09 89	215. 486	0.106 4
01:18:58 AM	359	50510 0	1604. 34	278. 721	1.01559	283.086	47.483	48.6 763	992. 237	995.398	379.565	3.417 67	4.2435 8	108.2 65	301.84 3	1.44 837	24.8	63.1815	422.7 88	95.6	75.8	80.2	24.1	35.6 005	190.6 88	10.07 12	215. 646	0.106 4
01:18:59 AM	359	50510 1	1604. 65	279. 206	1.01559	283.105	47.492	48.6 729	992. 236	995.398	369.32	3.352 04	4.2435 8	107.9 91	303.13	1.43 773	24.8	63.1966	422.7 98	95.6	75.8	80.147 8	24.1	35.6 001	187.9 32	10.16 59	215. 741	0.106 4
01:19:00 AM	359	50510 2	1604. 11	279. 15	1.01558	283.134	47.531	48.6 6	992. 237	995.398	375.363	3.266 08	4.2443 5	107.6 66	302.20 2	1.45 785	24.8	63.1994	422.8	95.6	75.8	80.108 9	24.1	35.6	185.0 8	10.14 23	215. 88	0.106 4
01:19:01 AM	359	50510 3	1605. 2	279. 149	1.01558	283.148	47.5759	48.6 52	992. 237	995.7	370.84	3.276 41	4.2512 2	108.3 27	302.37 2	1.44 06	24.8	63.1999	422.8	95.6	75.8	80.101 6	24.1	35.6	182.2 89	10.13 8	215. 983	0.106 4
01:19:02 AM	359	50510 4	1604. 43	279. 336	1.01558	283.138	47.6117	48.6 487	992. 236	995.398	379.818	3.494 11	4.2451 1	108.2 17	301.61 3	1.45 003	24.8	63.2	422.9 38	95.6	75.8	80.100 3	24.1	35.6	179.5 25	10.10 38	216. 098	0.106 4
01:19:03 AM	359	50510 5	1604. 54	279. 177	1.01558	283.126	47.6389	48.6 571	992. 236	995.398	381.274	3.300 92	4.2474	107.9 91	302.38 2	1.44 439	24.8	63.2	423.1 51	95.6	75.8	80.100 1	24.1	35.6	176.7 46	10.14 56	216. 163	0.106 4
01:19:04 AM	359	50510 6	1604. 37	279. 357	1.01559	283.129	47.6494	48.6 642	992. 236	995.398	376.782	3.357 07	4.2443 5	108.3 5	303.79 1	1.43 121	24.8	63.2	423.1 91	95.6	75.8	80.1	24.1	35.6	173.9 81	10.08 9	216. 11	0.011 82
01:19:05 AM	359	50510 7	1604. 52	278. 922	1.01558	283.15	47.6482	48.6 406	992. 236	995.398	375.148	3.276 65	4.2443 5	108.0 84	302.25 8	1.43 445	24.8	63.2	423.1 98	95.704 3	75.8	80.1	24.1	35.6	171.1 93	10.12 11	215. 97	0.106 4
01:19:06 AM	359	50510 8	1604. 04	279. 69	1.01558	283.173	47.6408	48.6 322	992. 236	995.398	369.235	3.293 7	4.2474	107.9 68	303.78 7	1.46 145	24.8	63.2	423.2	95.782 3	75.8	80.1	24.1	35.6	168.3 14	10.13 4	215. 826	0.106 4

01:21:50 AM	359	50527 2	2015. 19	238. 582	1.01585	242.565	51.2653	48.5 252	992. 241	995.7	450.799	8.677 88	4.7509 2	102.8 25	375.55 1	1.41 927	24.9	69.3	414.9	97.073 4	76.1	80	24.3 837	35.9	236.6 19	11.16 2	221. 234	0.106 4
01:21:51 AM	359	50527 3	2014. 68	237. 817	1.01584	242.601	51.2702	48.5 196	992. 241	995.7	447.337	9.000 66	4.7455 7	103.3 41	374.86 2	1.40 593	24.9	69.3	414.9	97.095 1	76.1	80	24.3 199	35.9	233.5 62	11.14 1	221. 065	0.076 847
01:21:52 AM	359	50527 4	2015. 81	236. 903	1.01585	242.578	51.2154	48.5 232	992. 241	995.7	443.522	8.917 02	4.7547 4	102.9 86	375.96 8	1.40 767	24.9	69.3	414.7 46	97.099 1	76.1	80	24.3 037	35.9	230.5 1	11.05 15	220. 954	0.106 4
01:21:53 AM	359	50527 5	2015. 64	237. 845	1.01584	242.495	51.1223	48.5 129	992. 241	995.7	439.4	8.913 18	4.7516 8	102.7 75	375.96 2	1.42 465	24.9	69.3	414.7 08	97.099 8	76.1	80	24.3 007	35.9	227.3 65	11.09 4	220. 921	0.162 562
01:21:54 AM	359	50527 6	2015. 57	237. 871	1.01584	242.394	51.0313	48.5 077	992. 241	995.7	447.157	8.935 65	4.7524 5	102.8 6	375.97	1.43 394	24.9	69.3	414.7 02	97.1	76.1	80	24.3 001	35.9	224.2 69	11.09 36	220. 936	0.106 4
01:21:55 AM	359	50527 7	2015. 26	238. 419	1.01584	242.305	50.9871	48.5 11	992. 241	995.7	445.204	8.841 52	4.7471	103.0 09	375.22 7	1.41 55	24.9	69.3	414.7	97.258 8	76.1	80	24.3	35.8 478	221.1 49	11.07 74	220. 956	0.106 4
01:21:56 AM	359	50527 8	2014. 75	237. 488	1.01583	242.239	50.9821	48.4 971	992. 241	995.398	445.395	8.804 65	4.7486 2	102.9 85	377.09 5	1.41 981	24.9	69.3	414.7	97.292 4	76.1	80	24.3	35.8 089	218.0 93	11.07 73	220. 894	0.041 38
01:21:57 AM	359	50527 9	2015. 62	237. 274	1.01583	242.177	50.994	48.5 102	992. 245	995.7	445.332	8.903 81	4.7478 6	103.6 14	377.69 1	1.40 02	24.9	69.3	414.7	97.298 6	76.1	80	24.3	35.8 016	215.1 1	11.07 78	220. 879	0.106 4
01:21:58 AM	359	50528 0	2016. 22	238. 312	1.01583	242.121	50.9962	48.5 172	992. 246	995.7	447.305	9.137 03	4.7509 2	103.9 17	376.93 7	1.42 005	24.9	69.3	414.7	97.299 7	76.1	80	24.3	35.8 003	211.9 69	11.10 56	220. 809	0.106 4
01:21:59 AM	359	50528 1	2015. 62	238. 461	1.01583	242.069	50.9862	48.5 081	992. 246	995.398	453.852	9.086 85	4.7440 4	104.5 24	376.31 8	1.41 258	24.9	69.3	414.7	97.299 9	76.1	80	24.3	35.8 001	208.8 82	11.09 45	220. 802	0
01:22:00 AM	359	50528 2	2015. 68	238. 437	1.01583	242.021	51.0005	48.5 122	992. 245	995.7	450.394	8.791 19	4.7509 2	103.8 08	376.71 2	1.40 151	24.9	69.3	414.7	97.169 7	76.1	80	24.3	35.8	205.8 2	11.04 86	220. 832	0.011 82
01:23:13 AM	375	50535 5	2407. 17	167. 842	1.01679	168.217	42.9865	48.4 939	992. 238	995.7	500.696	3.606 85	5.1191 9	84.59 11	454.99 3	1.41 476	25.2	72.4409	381.1 63	98.9	76.5	79.800 1	24.8	35.9	503.2 25	10.66 42	247. 553	0.106 4
01:23:14 AM	390	50535 6	2407. 35	168. 159	1.01679	169.364	42.9965	48.4 939	992. 238	995.7	498.613	3.685 9	5.1230 1	84.69 1	456.66 3	1.41 476	25.2	72.4891	381.2 75	98.9	76.54 1	79.8	24.8	35.9	500.2 83	10.67 52	248. 977	0.076 847
01:23:15 AM	375	50535 7	2407. 74	168. 23	1.01679	169.953	43.0094	48.4 939	992. 238	995.398	496.161	3.610 45	5.1253 1	83.92 43	456.10 2	1.40 811	25.2	72.498	381.2 95	98.92	76.58 91	79.865 1	24.8 815	35.9	497.3 25	10.64 44	250. 273	0.038 424
01:23:16 AM	390	50535 8	2405. 67	168. 452	1.01679	170.198	43.0311	48.4 939	992. 238	995.7	499.662	3.612 97	5.1291 3	84.86 33	455.52 8	1.42 065	25.2	72.4996	381.2 99	99.066 6	76.59 8	79.893 5	24.8 966	35.9	494.3 41	10.63 04	251. 159	0.047 291
01:23:17 AM	375	50535 9	2406. 16	168. 72	1.01679	170.346	43.0629	48.4 971	992. 238	995.7	502.085	3.691 45	5.1375 3	84.03 05	456.32 9	1.41 365	25.2	72.4999	381.3	99.093 8	76.59 96	79.898 8	24.8 994	35.9	491.3 98	10.65 66	251. 588	0.162 562
01:23:18 AM	375	50536 0	2407. 47	168. 846	1.01679	170.485	43.1079	48.4 945	992. 238	995.7	504.147	3.845 31	5.1344 7	84.59 75	453.73 9	1.41 828	25.2	72.5	381.5 28	99.098 9	76.59 99	79.899 8	24.8 999	35.9	488.4 31	10.69 84	251. 619	0.106 4
01:23:19 AM	375	50536 1	2407. 94	169. 068	1.01679	170.632	43.1591	48.4 94	992. 238	995.7	497.042	3.811 53	5.1306 5	84.96 18	456.15	1.41 216	25.2	72.6588	381.6 68	99.099 8	76.6	79.9	24.9	35.9	485.4 65	10.73 03	251. 481	0.106 4
01:23:20 AM	375	50536 2	2407. 83	169. 492	1.01679	170.782	43.2164	48.4 939	992. 238	995.7	501.096	3.599 02	5.1291 3	84.71 53	455.28 1	1.41 002	25.2	72.6924	381.6 94	99.1	76.67 94	79.940 9	24.9	35.9	482.4 82	10.72 26	251. 403	0.050 25
01:23:21 AM	390	50536 3	2407. 53	169. 553	1.01679	170.943	43.2798	48.4 939	992. 238	995.7	502.508	4.006 81	5.1184 3	85.09 84	454.45 2	1.40 938	25.2	72.6986	381.6 99	99.165 1	76.69 62	79.989 1	24.9	35.8 9	479.4 94	10.69 35	251. 434	0.059 11
01:23:22 AM	375	50536 4	2409. 09	168. 866	1.01679	171.108	43.3437	48.4 939	992. 238	995.926	496.891	3.978 39	5.1268 3	85.58 99	456.43 1	1.41 715	25.2	72.6997	381.7	99.193 5	76.69 93	79.998	24.9	35.8 167	476.5 04	10.71 02	251. 476	0.106 4
01:23:23 AM	390	50536 5	2407. 73	168. 875	1.01679	171.252	43.3855	48.4 939	992. 238	995.7	503.852	4.025 47	5.1306 5	86.02 19	455.89 5	1.42 657	25.2	72.7	381.6 9	99.198 8	76.69 99	79.999 6	24.9	35.8 031	473.5 04	10.73 36	251. 453	0.106 4
01:23:24 AM	375	50536 6	2408. 11	168. 95	1.01679	171.353	43.3897	48.4 939	992. 238	995.7	503.57	3.822 5	5.1337 1	85.10 65	456.29 9	1.42 089	25.2	72.7569	381.6 17	99.199 8	76.7	79.999 9	24.9	35.8 006	470.5 16	10.71 55	251. 327	0.106 4
01:23:25 AM	375	50536 7	2406. 88	169. 598	1.01679	171.456	43.3721	48.4 911	992. 238	995.7	498.498	3.779 92	5.1428 8	86.26 48	455.61 8	1.42 94	25.2	72.792	381.6 03	99.2	76.7	80	24.9	35.8 001	467.4 74	10.71 79	251. 189	0.038 424
01:23:26 AM	375	50536 8	2407. 32	169. 078	1.01679	171.58	43.3543	48.4 934	992. 238	995.7	506.172	3.620 18	5.1321 8	85.92 91	456.84 2	1.41 326	25.2	72.7985	381.6 01	99.281 9	76.7	80	24.9	35.8	464.5 96	10.78 21	251. 21	0.106 4

01:23:27 AM	375	505369	24054	169464	1.01679	171.707	43.3523	48.4938	992.238	995.7	500.998	3.59032	5.12683	85.952	457.711	1.41418	25.2	72.7997	381.6	99.3781	76.7	80	24.9	35.8651	461.609	10.7554	251.392	0.1064
01:23:28 AM	390	505370	240679	16944	1.01631	171.815	43.3491	48.4939	992.238	995.7	503.227	3.90052	5.1276	87.1174	456.533	1.41358	25.0435	72.7999	381.6	99.3959	76.7	80	24.9	35.8935	458.641	10.7509	251.622	0.1064
01:23:29 AM	375	505371	240545	16907	1.01592	171.899	43.3499	48.4939	992.238	995.7	504.25	3.81165	5.12454	87.7058	457.63	1.42169	24.9266	72.82	381.806	99.3992	76.7	80	24.9	35.8988	455.605	10.7522	251.854	0.06798
01:23:30 AM	390	505372	240655	169575	1.01585	171.961	43.3441	48.4866	992.238	995.7	501.654	3.48554	5.12683	87.3591	456.926	1.41739	24.9049	72.9666	381.883	99.3999	76.7	80	24.9	35.8998	452.653	10.7679	252.001	0.0798
01:23:31 AM	375	505373	240842	170025	1.01583	172.015	43.3531	48.4926	992.243	995.398	508.454	3.61105	5.12607	86.7447	459.778	1.41064	24.9009	72.9938	381.897	99.4	76.7	80	24.9	35.9	449.747	10.7765	252.064	0.017734
01:23:32 AM	375	505374	24082	170018	1.01583	172.074	43.382	48.4937	992.245	995.7	506.942	3.91134	5.12607	86.4953	458.195	1.41706	24.9002	72.9989	381.899	99.2508	76.7	80	24.9	35.8794	446.757	10.7554	252.102	0.026601
01:23:33 AM	375	505375	240977	169674	1.01582	172.132	43.4272	48.488	992.246	995.398	503.943	3.82136	5.12072	87.1315	458.367	1.41794	24.9	72.9998	381.9	99.2094	76.7	80	24.9	35.8962	443.808	10.767	252.054	0.124138
01:23:34 AM	375	505376	240932	169988	1.01583	172.164	43.4795	48.4928	992.246	995.7	502.002	3.62948	5.12683	86.7713	457.589	1.41769	24.9	73	381.806	99.2017	76.7	80	24.9	35.838	440.812	10.7706	251.934	0.1064
01:23:35 AM	390	505377	240732	170321	1.01583	172.192	43.5165	48.4937	992.246	995.7	508.52	3.77378	5.11766	86.6801	457.21	1.41598	24.9	73.0686	381.72	99.2003	76.7	80	24.9	35.848	437.821	10.7762	251.744	0.065025
01:23:36 AM	375	505378	240655	170343	1.01583	172.256	43.5435	48.4939	992.246	995.7	507.154	3.69469	5.12072	87.2394	459.453	1.42015	24.9	73.0942	381.704	99.2001	76.8372	80	24.9	35.8904	434.7001	10.7584	251.533	0.124138
01:23:37 AM	390	505379	240728	170082	1.01581	172.34	43.5595	48.4628	992.246	995.7	508.625	3.9403	5.12149	87.3758	459.016	1.42125	24.9	73.0989	381.701	99.4278	76.8884	80	24.9	35.8982	431.8	10.7811	251.36	0.026601
01:23:38 AM	375	505380	240664	170322	1.01582	172.42	43.5736	48.4881	992.248	995.7	507.18	3.81994	5.11919	88.329	456.544	1.41584	24.9	73.0998	381.7	99.5681	76.8978	80	24.9	35.8997	428.878	10.7958	251.245	0.1064
01:23:39 AM	375	505381	240673	1706	1.01581	172.486	43.5977	48.4737	992.251	995.7	503.893	3.836	5.12149	87.5358	458.579	1.43045	24.9	73.1	381.7	99.5941	76.8996	80	24.9	35.8999	425.835	10.7885	251.196	0.1064
01:23:40 AM	375	505382	240888	170518	1.01582	172.555	43.6071	48.4843	992.251	995.7	505.469	4.03481	5.11919	87.3416	458.371	1.42601	24.9	73.1542	381.779	99.5989	76.8999	80	25	35.8992	422.818	10.7665	251.155	0.038424
01:23:41 AM	375	505383	240493	170477	1.01582	172.638	43.6195	48.4921	992.251	995.7	508.621	3.43718	5.11614	87.6119	457.956	1.41832	24.9	73.273	381.796	99.5998	76.9	80	25	35.8999	419.935	10.7442	251.115	0.1064
01:23:42 AM	390	505384	240729	170546	1.01582	172.726	43.6292	48.4936	992.253	995.7	511.237	3.85025	5.11996	87.1459	459.197	1.40958	24.9	73.295	381.799	99.467	76.9	80	25	35.9	416.943	10.7403	250.986	0.1064
01:41:55 AM	93	506047	261047	258755	1.01639	262.659	71.6883	48.286	992.238	996.153	888.845	9.39679	5.08634	72.6182	497.971	1.46854	25.1	101.054	461.782	104.2	75.9999	80.2999	25.3891	35.9	533.405	17.0631	243.252	0.065025
01:41:56 AM	93	506048	261084	25875	1.01639	262.601	71.7257	48.2753	992.238	995.926	881.996	9.47083	5.08863	71.7567	497.947	1.48454	25.1	101.092	461.797	104.2	76.1542	80.3542	25.398	35.9	528.531	17.0367	242.91	0.06798
01:41:57 AM	93	506049	261064	258977	1.01639	262.573	71.7784	48.2794	992.239	995.926	881.527	9.63233	5.09551	72.6945	499.077	1.47736	25.1	101.098	461.799	104.2	76.1915	80.473	25.3996	35.9	523.787	17.0847	242.492	0.1064
01:41:58 AM	93	506050	261056	259138	1.01638	262.573	71.8447	48.2645	992.239	995.926	891.562	9.66405	5.07182	72.604	497.627	1.47357	25.1	101.1	461.8	104.2	76.1984	80.495	25.3999	35.9	519.133	17.0675	242.074	0.1064
01:41:59 AM	93	506051	261021	258282	1.01639	262.594	71.8959	48.2794	992.239	995.926	883.641	9.48679	5.08557	71.8455	499.075	1.48737	25.1	101.1	461.81	104.2	76.1997	80.4991	25.4	35.9	514.33	17.0601	241.708	0.038424
01:42:00 AM	93	506052	260982	258662	1.01639	262.604	71.9148	48.2876	992.236	995.926	889.025	9.58284	5.08787	72.9366	498.249	1.49843	25.1	101.241	461.883	104.2	76.1999	80.4998	25.4	35.9	509.598	17.0446	241.439	0.05025
01:42:01 AM	93	506053	261009	258551	1.0164	262.609	71.8979	48.2979	992.236	995.926	890.05	9.46411	5.07717	73.0973	497.998	1.49505	25.1	101.37	461.897	104.2	76.0861	80.5	25.4	35.9	504.873	17.0523	241.283	0.05911
01:42:02 AM	93	506054	261052	25825	1.0164	262.619	71.861	48.3074	992.236	995.926	881.585	9.4683	5.07564	72.7978	499.645	1.49099	25.1	101.395	461.899	104.308	76.016	80.3508	25.4	35.9	500.147	17.0432	241.197	0.1064
01:42:03 AM	93	506055	261026	258359	1.01639	262.642	71.8222	48.2963	992.236	995.926	880.037	9.40512	5.07411	72.5577	500.196	1.4943	25.1	101.399	461.9	104.546	76.003	80.3094	25.4	36.0303	495.468	17.0626	241.192	0.1064

01:42:04 AM	93	50605 6	2610. 31	258. 298	1.01639	262.668	71.7953	48.2 943	992. 236	995.926	880.539	9.447 28	5.0649 5	72.30 76	502.23	1.48 038	25.1	101.4	461.9	104.59	76.00 05	80.301 7	25.4	36.0 871	490.8 85	17.01 11	241. 233	0.106 4
01:42:05 AM	93	50605 7	2609. 75	257. 985	1.0164	262.695	71.7811	48.2 931	992. 236	995.926	882.815	9.477 18	5.0542 5	72.78 01	499.19 2	1.49 519	25.1	101.4	462.0 37	104.59 8	76.00 01	80.300 3	25.4 469	36.0 976	486.1 51	16.99 96	241. 26	0.065 025
01:42:06 AM	93	50605 8	2610. 56	257. 761	1.01639	262.705	71.7539	48.2 85	992. 236	995.926	884.984	9.406 76	5.0832 8	72.18 25	501.98 9	1.50 313	25.1	101.4	462.0 88	104.6	76	80.300 1	25.4 712	36.0 996	481.4 23	17.03	241. 256	0.076 847
01:42:07 AM	93	50605 9	2610. 64	257. 998	1.01639	262.693	71.7174	48.2 772	992. 236	995.926	886.589	9.393 72	5.0886 3	72.04	499.45 7	1.49 904	25.1	101.4	462.0 98	104.6	75.67 41	80.143 5	25.4 132	36.0 999	476.7 41	16.99 91	241. 247	0.047 291
01:42:08 AM	93	50606 0	2610. 32	258. 287	1.0164	262.663	71.6913	48.2 938	992. 236	995.926	880.264	9.625 75	5.0672 4	73.10 84	499.12	1.48 574	25.1	101.4	462.1	104.67 2	75.61 37	80.026 6	25.4 024	36.1	472.1 29	16.95	241. 185	0.056 158
01:42:09 AM	93	50606 1	2610. 55	258. 477	1.01639	262.633	71.6871	48.2 828	992. 236	995.926	887.091	9.542 56	5.0832 8	72.43 86	502.83 5	1.47 991	25.1	101.4	462.1	104.69 5	75.60 25	80.004 9	25.4 005	36.1	467.4 78	16.92 08	241. 105	0.106 4
01:42:10 AM	93	50606 2	2610. 45	258. 138	1.01639	262.595	71.7076	48.2 807	992. 236	995.926	882.871	9.418 88	5.0871	71.86 03	500.09 1	1.49 724	25.1	101.4	462.1	104.69 9	75.60 05	80.000 9	25.4 523	36.1	462.7 49	16.90 37	240. 95	0.106 4
01:42:11 AM	93	50606 3	2610. 36	258. 45	1.01639	262.541	71.7373	48.2 838	992. 236	995.926	883.286	9.535 37	5.0787	72.90 59	500.71 1	1.49 462	25.1	101.53	462.1	104.7	75.60 01	80.000 2	25.4 912	36.1	458.0 44	16.90 44	240. 633	0.047 291
01:42:12 AM	93	50606 4	2610. 61	258. 612	1.01639	262.493	71.7595	48.2 657	992. 236	995.926	887.998	9.643 1	5.0825 2	73.30 44	501.38 2	1.49 061	25.1	101.587	462.1	104.7	75.74 35	80.01	25.4 984	36.1	453.3 53	16.88 89	240. 272	0.106 4
01:42:13 AM	93	50606 5	2610. 3	258. 332	1.01639	262.476	71.7758	48.2 931	992. 236	995.926	893.323	9.665 8	5.0748 8	73.63 3	500.45 5	1.50 002	25.1	101.598	462.1	104.65 3	75.78 95	80.083 3	25.4 997	36.1	448.6 63	16.88 19	239. 862	0.106 4
01:42:14 AM	93	50606 6	2610. 2	258. 215	1.0164	262.477	71.7887	48.2 985	992. 236	995.926	886.75	9.696 05	5.0664 7	73.21 84	500.18 6	1.48 833	25.1	101.6	462.1	104.61	75.79 81	80.096 9	25.4 999	36.1	444.0 04	16.87 43	239. 518	0.106 4
01:42:15 AM	93	50606 7	2610. 34	257. 995	1.0164	262.47	71.7921	48.2 982	992. 236	995.926	881.189	9.682 91	5.0840 5	73.64 14	501.30 8	1.49 205	25.1	101.6	462.1	104.60 2	75.79 96	80.099 4	25.5	36.1	439.2 94	16.92 23	239. 296	0.008 867
01:42:16 AM	93	50606 8	2610. 57	258. 362	1.01639	262.45	71.7792	48.2 745	992. 236	995.926	878.504	9.747 88	5.0848 1	72.82 14	500.39 7	1.48 927	25.1	101.634	462.1 75	104.6	75.79 99	80.099 9	25.5	36.1	434.6 12	16.91 57	239. 201	0.065 025
01:42:17 AM	93	50606 9	2610. 66	258. 305	1.01639	262.436	71.7577	48.2 947	992. 236	995.926	895.015	9.553 2	5.0787	72.88 98	501.55 6	1.47 502	25.1	101.688	462.1 95	104.6	75.90 32	80.1	25.5	36.1	430.0 14	16.85 72	239. 191	0.106 4
01:42:18 AM	93	50607 0	2610. 3	258. 266	1.0164	262.441	71.7454	48.3 079	992. 236	995.926	886.57	9.432 59	5.0771 7	72.55 5	500.24 5	1.47 263	25.1	101.698	462.1 99	104.6	76.06 35	80.283 8	25.5	36.1	425.3 74	16.86 21	239. 228	0.106 4
01:42:19 AM	93	50607 1	2610. 27	258. 466	1.0164	262.471	71.7511	48.3 01	992. 236	995.926	882.798	9.534 72	5.0855 7	73.32 89	501.98 2	1.47 507	25.1	101.7	462.2	104.84 4	76.09 32	80.378 5	25.5	36.0 063	420.6 81	16.90 24	239. 257	0.050 25
01:42:20 AM	93	50607 2	2610. 42	258. 371	1.01639	262.512	71.7665	48.2 901	992. 238	995.926	882.349	9.484 17	5.0596	73.37 36	502.05 6	1.49 582	25.1	101.7	462.2	104.89	76.09 87	80.396	25.5	35.9 197	415.8 8	16.89 59	239. 226	0.106 4
01:42:21 AM	93	50607 3	2610. 21	258. 655	1.0164	262.542	71.7852	48.2 962	992. 238	995.926	891.687	9.718 02	5.0756 4	73.67 66	499.60 3	1.49 333	25.1	101.7	462.3 04	104.89 8	76.09 98	80.399 3	25.5	35.9 036	411.1 84	16.92 54	239. 169	0.097 54
01:42:22 AM	93	50607 4	2610. 51	258. 668	1.01639	262.562	71.8007	48.2 832	992. 238	995.926	890.951	9.762 66	5.0695 3	74.17 3	502.13 3	1.48 937	25.1	101.775	462.3 82	104.9	76.1	80.399 9	25.5 41	35.9 007	406.5 5	16.92 4	239. 162	0.079 8
01:42:23 AM	93	50607 5	2610. 75	258. 61	1.01639	262.586	71.8167	48.2 808	992. 238	995.926	888.995	9.670 83	5.0802 3	74.54 43	502.43 7	1.48 283	25.1	101.795	462.3 97	104.9	76.1	80.365 6	25.5 701	35.9 001	401.8 92	16.90 21	239. 209	0.106 4
01:42:24 AM	93	50607 6	2610. 38	259. 167	1.0164	262.619	71.8412	48.3 1	992. 238	995.926	886.328	9.442 65	5.0573	74.18 46	501.19 3	1.47 982	25.1	101.799	462.3 99	105.03 7	76.1	80.312 2	25.5 13	35.9	397.2 64	16.89 43	239. 273	0.065 025
01:43:24 AM	93	50613 6	2406. 87	269. 373	1.01576	273.018	68.8023	48.3 009	992. 236	995.926	796.908	8.494 47	4.9327 6	88.93 85	460.90 2	1.50 352	24.9	97.3099	461.2 07	105.7	75.60 43	80	25.8	36.1 003	469.2 4	15.88 52	234. 661	0.106 4
01:43:25 AM	93	50613 7	2406. 45	269. 38	1.01576	273.069	68.8421	48.2 924	992. 236	996.153	804.84	8.449 46	4.9327 6	88.79 87	462.71 5	1.50 385	24.9	97.3018	461.2 01	105.77 6	75.68 23	80	25.8	36.1 001	464.8 35	15.89 82	234. 579	0.008 867
01:43:26 AM	93	50613 8	2406. 4	269. 337	1.01575	273.126	68.8865	48.2 664	992. 236	995.926	795.02	8.478 53	4.9358 2	89.39 63	460.85	1.49 694	24.9	97.3003	461.2	106.04	75.69 67	80	25.8	35.9 775	460.5 24	15.85 06	234. 428	0.017 734
01:43:27 AM	93	50613 9	2406. 74	269. 312	1.01576	273.158	68.9234	48.2 86	992. 236	995.926	795.803	8.479 59	4.9358 2	88.62 91	460.25 7	1.50 371	24.9	97.3001	461.2	106.08 9	75.69 94	80	25.8	35.9 144	456.1 01	15.84 21	234. 249	0.088 67
01:43:28 AM	93	50614 0	2406. 76	269. 664	1.01575	273.173	68.9458	48.2 723	992. 236	995.926	789.085	8.577 88	4.9388 8	89.61 29	462.07 6	1.50 146	24.9	97.3	461.2	106.09 8	75.69 99	80	25.8	35.9 027	451.6 37	15.86 97	234. 086	0.106

01:43:29 AM	93	50614 1	2406. 82	269. 831	1.01576	273.209	68.9644	48.2 828	992. 236	995.926	791.909	8.425 74	4.9358 2	90.42 41	460.14 1	1.51 054	24.9	97.1371	461.2	106.1	75.7	80	25.8	35.9 005	447.2 01	15.88 23	233. 9	0.106 4
01:43:30 AM	93	50614 2	2406. 46	269. 491	1.01576	273.275	68.9821	48.2 847	992. 236	996.153	796.065	8.407	4.9404	90.67 46	461.66 4	1.50 974	24.9	97.1069	461.2	106.1	75.7	80	25.8	35.9 001	442.8 27	15.89 48	233. 745	0.076 847
01:43:31 AM	93	50614 3	2406. 7	269. 404	1.01576	273.351	68.9971	48.2 86	992. 236	995.926	793.539	8.446 96	4.9350 5	89.13 7	459.41 8	1.50 552	24.9	97.1013	461.2	105.81 3	75.7	80	25.8	35.9	438.5 03	15.89 71	233. 701	0.133 005
01:43:32 AM	93	50614 4	2406. 27	269. 807	1.01576	273.428	69.0066	48.2 956	992. 238	996.153	803.708	8.480 85	4.9358 2	89.26 38	461.77 6	1.49 448	24.9	97.1002	461.2	105.72 1	75.7	80	25.8	35.9	434.0 28	15.88 4	233. 711	0.026 601
01:43:33 AM	93	50614 5	2406. 41	269. 652	1.01575	273.506	69.0075	48.2 693	992. 238	995.926	790.826	8.481 17	4.9281 8	89.76 85	460.67 1	1.49 32	24.9	97.1	461.1 66	105.70 4	75.7	80	25.8	35.9	429.6 22	15.89 51	233. 777	0.026 601
01:43:34 AM	93	50614 6	2406. 49	269. 452	1.01575	273.588	69.0081	48.2 822	992. 238	996.153	797.08	8.554 47	4.9289 4	90.10 52	460.57 7	1.49 79	24.9	97.1	461.1 12	105.70 1	75.7	80	25.8	35.9	425.2 11	15.97 35	233. 885	0.088 67
01:43:35 AM	93	50614 7	2406. 37	269. 174	1.01575	273.653	69.0039	48.2 806	992. 238	995.926	793.482	8.508 22	4.932	90.15 73	460.5	1.49 426	24.9	97.1	461.1 02	105.7	75.7	80	25.8	35.9	420.8 62	15.87 06	233. 984	0.079 8
01:43:36 AM	93	50614 8	2406. 62	269. 088	1.01577	273.692	68.9924	48.3 175	992. 238	995.926	794.502	8.531 38	4.9350 5	89.94 15	460.61 5	1.50 51	24.9	97.1	461.1	105.41 9	75.7	80	25.7	35.9	416.4 05	15.87 37	234. 062	0.106 4
01:43:37 AM	93	50614 9	2406. 44	268. 953	1.01577	273.7	68.9649	48.3 254	992. 238	995.926	793.469	8.511 21	4.9350 5	90.03 42	463.41 4	1.51 227	24.9	97.1	461.1	105.15 9	75.7	80	25.7	35.9	411.9 56	15.94 79	234. 147	0.106 404
01:43:38 AM	93	50615 0	2406. 55	269. 253	1.01576	273.685	68.9296	48.3 064	992. 238	995.926	793.073	8.583 74	4.9304 7	89.62 44	460.75 8	1.49 698	24.9	97.1	461.1	105.11 1	75.7	80	25.7	35.9	407.5 97	15.89 34	234. 22	0.106 4
01:43:39 AM	93	50615 1	2406. 79	269. 265	1.01577	273.665	68.9068	48.3 153	992. 238	996.153	795.071	8.599 87	4.9342 9	89.60 54	460.95 3	1.50 375	24.9	97.0187	461.0 23	105.10 2	75.7	80	25.7	35.9	403.2 11	15.87 92	234. 264	0.106 4
01:43:40 AM	93	50615 2	2406. 79	269. 343	1.01576	273.655	68.9019	48.2 957	992. 238	996.153	793.949	8.600 17	4.9373 5	89.66 3	459.84 4	1.51 412	24.9	96.8405	461.0 04	105.1	75.7	80	25.7	35.9	398.7 34	15.86 11	234. 329	0.047 291
01:43:41 AM	93	50615 3	2406. 82	269. 083	1.01576	273.651	68.9139	48.3 007	992. 238	996.153	791.786	8.494 23	4.9365 8	90.13 85	459.80 9	1.51 037	24.9	96.8075	461.0 01	105.1	75.7	80	25.7	35.9	394.3 87	15.87 11	234. 316	0.106 4
01:43:42 AM	93	50615 4	2406. 76	269. 308	1.01576	273.633	68.929	48.3 042	992. 238	996.153	794.537	8.605 37	4.9358 2	90.07 91	460.64 4	1.50 438	24.9	96.8014	461	105.58 9	75.7	80	25.7	35.9	390	15.84 54	234. 217	0.106 4
01:43:43 AM	93	50615 5	2406. 45	269. 598	1.01577	273.607	68.9423	48.3 14	992. 238	995.926	799.446	8.531 19	4.9358 2	90.44 88	460.50 8	1.51 067	24.9	96.8003	461	105.67 9	75.7	80	25.7	36.0	385.5 62	15.86 33	234. 054	0.162 562
01:43:44 AM	93	50615 6	2406. 79	269. 187	1.01576	273.594	68.9493	48.3 022	992. 236	996.153	802.336	8.542 92	4.9312 3	90.38 46	459.71 5	1.49 658	24.9	96.8	461	105.69 6	75.7	80	25.7	36.0	381.1 94	15.86 13	233. 864	0.106 4
01:43:45 AM	93	50615 7	2406. 04	268. 812	1.01577	273.579	68.9488	48.3 199	992. 236	995.926	794.925	8.614 39	4.9381 1	89.79 21	461.57 4	1.51 01	24.9	96.8	461	105.69 9	75.7	80	25.7	36.0	376.8 64	15.87 82	233. 728	0.106 4
01:43:46 AM	93	50615 8	2406. 72	268. 29	1.01577	273.532	68.9262	48.3 1	992. 234	995.926	793.074	8.627 64	4.9335 3	90.77 48	461.94 9	1.52 048	24.9	96.8	461	105.7	75.7	80	25.7	36.0	372.3 46	15.88 27	233. 69	0.050 25
01:43:47 AM	93	50615 9	2407. 24	268. 495	1.01577	273.454	68.8782	48.3 002	992. 234	995.926	792.914	8.568 57	4.9327 6	89.98 26	462	1.51 326	24.9	96.8	461	105.76 1	75.7	80	25.8	36.1	367.9 48	15.86 49	233. 765	0.106 4
01:43:48 AM	93	50616 0	2406. 47	268. 909	1.01576	273.38	68.821	48.2 863	992. 234	996.153	789.097	8.391 37	4.9388 8	90.23 42	461.38 8	1.49 817	24.9	96.8	461	105.79 3	75.7	80	25.8	36.1	363.6 82	15.88 29	233. 905	0.017 734
01:43:49 AM	93	50616 1	2406. 68	268. 589	1.01578	273.337	68.7851	48.3 41	992. 234	996.153	788.566	8.385 91	4.9373 5	90.83 95	459.87 7	1.49 737	24.9	96.8	461	105.79 9	75.7	80	25.8	36.1	359.3 31	15.86 53	234. 114	0.026 601
01:43:50 AM	93	50616 2	2406. 31	268. 896	1.01578	273.311	68.7795	48.3 339	992. 234	996.153	791.322	8.533 49	4.9297 1	90.71 35	459.42 7	1.50 028	24.9	96.7478	460.7 56	105.8	75.7	80	25.8	36.1	354.8 86	15.84 18	234. 269	0.106 4
01:43:51 AM	93	50616 3	2406. 29	268. 968	1.01577	273.285	68.7895	48.3 009	992. 234	995.926	788.313	8.612 65	4.9289 4	90.76 31	461.16 5	1.49 914	24.9	96.7089	460.7 1	105.8	75.7	80	25.8	36.1	350.5 25	15.86 67	234. 33	0.017 734
01:43:52 AM	93	50616 4	2406. 46	268. 237	1.01577	273.252	68.8004	48.3 19	992. 234	995.926	794.261	8.505 05	4.9312 3	90.49 58	460.47 7	1.51 341	24.9	96.7016	460.7 02	105.8	75.7	80	25.8	36.1	346.0 61	15.86 65	234. 331	0.047 291
01:43:53 AM	93	50616 5	2406. 44	268. 303	1.01577	273.194	68.7885	48.3 02	992. 234	996.153	796.428	8.550 37	4.9327 6	89.46 92	460.35 3	1.49 507	24.9	96.7003	460.7	105.8	75.7	80	25.8	36.1	341.7 67	15.83 9	234. 253	0.076 847

01:45:35 AM	93	50626 7	2202. 63	300. 8	1.01645	305.635	70.5406	48.4 931	992. 236	996.153	751.996	10.88 51	4.7211 2	106.3 82	424.16 9	1.46 715	25.0907	92.9	475.7 8	105.3	75	79.6	25.8	36.3 996	565.0 89	16.22 71	227. 431	0.106 4
01:45:36 AM	93	50626 8	2202. 71	300. 372	1.01647	305.62	70.5264	48.4 827	992. 236	996.153	748.986	10.81 31	4.7226 5	107.1 08	422.58 3	1.46 273	25.0983	92.9	475.7 96	105.3	75.22 37	79.657	25.8	36.3 999	560.6 29	16.19 13	228. 98	0.088 67
01:45:37 AM	93	50626 9	2203. 27	300. 568	1.01647	305.6	70.5061	48.4 918	992. 238	995.926	754.449	11.00 19	4.7287 6	107.4 99	421.83	1.49 064	25.0997	92.9	475.7 99	105.3	75.28 59	79.855	25.8	36.4	556.1 22	16.17 48	230. 854	0.056 158
01:45:38 AM	93	50627 0	2203. 18	301. 147	1.01647	305.594	70.4936	48.4 935	992. 238	996.153	755.611	10.95 75	4.7241 7	107.2 04	423.16 8	1.48 479	25.0999	92.9	475.8	105.3	75.29 74	79.891 7	25.8	36.4	551.6 72	16.08 03	232. 239	0.106 4
01:45:39 AM	93	50627 1	2203. 13	301. 182	1.01647	305.617	70.5019	48.4 938	992. 238	996.153	750.524	11.03 7	4.7211 2	107.1 29	425.17 7	1.46 556	25.1	92.9	475.8	105.3	75.29 95	79.898 5	25.8	36.4	547.2 86	16.01 96	233. 039	0.106 4
01:45:40 AM	93	50627 2	2203. 15	301. 304	1.01647	305.658	70.5374	48.4 939	992. 238	996.153	746.305	10.82 53	4.7203 5	106.0 4	423.34 7	1.47 834	25.1	92.9	475.8 81	105.3	75.29 99	79.899 7	25.8	36.4	542.9 49	16.04 96	233. 053	0.076 847
01:45:41 AM	93	50627 3	2203. 05	301. 358	1.01647	305.702	70.5817	48.4 968	992. 238	996.153	749.3	10.71 85	4.7211 2	106.4 06	423.33 1	1.47 666	25.1	92.9	475.8 97	105.3	75.3	79.899 9	25.8	36.4	538.4 81	16.04 53	232. 536	0.094 581
01:45:42 AM	93	50627 4	2203. 24	301. 189	1.01647	305.747	70.6192	48.4 944	992. 241	996.153	751.046	10.69 18	4.7249 4	106.4 15	425.25	1.47 787	25.1	92.9	475.8 99	105.26	75.3	79.9	25.8	36.4	534.0 36	15.98 35	231. 891	0.106 4
01:45:43 AM	93	50627 5	2203. 26	301. 304	1.01647	305.797	70.6418	48.4 94	992. 241	995.926	752.825	10.81 61	4.7241 7	106.3 4	424.30 2	1.48 542	25.1	92.9	475.9	105.13	75.3	79.9	25.8	36.3 478	529.5 87	15.97 84	231. 274	0.212 808
01:45:44 AM	93	50627 6	2203. 3	301. 404	1.01647	305.851	70.6498	48.4 939	992. 241	996.153	754.559	10.88 39	4.7302 9	106.5 45	424.91 9	1.48 552	25.1	92.9	475.9	105.10 6	75.3	79.9	25.8	36.3 089	525.1 5	15.95 96	230. 819	0.106 4
01:45:45 AM	93	50627 7	2203. 11	301. 532	1.01647	305.913	70.6589	48.4 939	992. 241	995.926	758.796	10.82 04	4.7226 5	105.7 34	422.92 1	1.50 457	25.1	92.9	476.0 3	105.10 1	75.3	79.9	25.8	36.3 016	520.7 56	15.97 421	230. 421	0.106 4
01:45:46 AM	93	50627 8	2203. 08	301. 363	1.01647	305.975	70.6685	48.4 939	992. 241	995.926	758.549	10.84 9	4.7195 9	106.2 87	423.92 9	1.49 011	25.1	92.9	476.0 87	105.1	75.3	79.9	25.8	36.3 003	516.3 09	15.98 52	230. 153	0.115 271
01:45:47 AM	93	50627 9	2203. 28	301. 497	1.01647	306.026	70.6782	48.4 939	992. 241	995.926	758.87	10.89 05	4.7241 7	106.2 46	423.30 6	1.50 859	25.1	92.9	476.0 98	105.1	75.06 18	79.853 1	25.8	36.3 001	511.8 41	15.96 54	229. 931	0.059 11
01:45:48 AM	93	50628 0	2203. 25	301. 533	1.01648	306.085	70.6874	48.5 057	992. 241	996.153	750.683	10.78 07	4.7257 7	106.6 32	424.44 7	1.49 829	25.1	92.9	476.1	105.1	75.01 14	79.809 8	25.8	36.3	507.4 61	15.91 02	229. 75	0.106 4
01:45:49 AM	93	50628 1	2202. 9	300. 973	1.01648	306.155	70.6909	48.5 199	992. 238	995.926	748.066	10.82 88	4.7241 7	106.1 27	423.38 3	1.45 689	25.1	92.9	476.1	105.1	75.00 21	79.801 8	25.8	36.3 718	503.2 08	15.95 72	229. 631	0.106 4
01:45:50 AM	93	50628 2	2203. 04	300. 584	1.01648	306.216	70.6808	48.5 18	992. 238	996.153	748.084	10.72 5	4.7234 1	106.4 39	424.56 2	1.46 949	25.1	92.9	476.1 19	105.1	75.00 04	79.800 3	25.8	36.3 948	498.8 44	15.91 01	229. 523	0.065 025
01:45:51 AM	93	50628 3	2203. 4	300. 828	1.01648	306.236	70.6473	48.4 984	992. 238	996.153	746.333	10.61 43	4.7279 9	106.2 59	422.58 4	1.49 289	25.1	92.9	476.1 85	105.1	75.00 01	79.800 1	25.8	36.3 99	494.3 38	15.91 61	229. 379	0.106 4
01:45:52 AM	93	50628 4	2203. 44	301. 2	1.01647	306.219	70.6054	48.4 947	992. 238	996.153	752.633	10.72 17	4.7226 5	106.8 76	423.32 2	1.49 584	25.1	92.9	476.1 97	105.1	75.06 51	79.8	25.8	36.3 998	489.9 21	15.90 25	229. 272	0.106 4
01:45:53 AM	93	50628 5	2203. 15	301. 197	1.01647	306.201	70.5789	48.4 941	992. 238	995.926	752.002	10.78 01	4.7165 3	106.8 96	422.33 4	1.46 868	25.1	92.9	476.1 99	105.18 2	75.09 35	79.8	25.9	36.3	485.6 02	15.91 34	229. 212	0.097 54
01:45:54 AM	93	50628 6	2202. 95	301. 214	1.01647	306.196	70.5795	48.5 031	992. 238	996.153	754.086	10.83 11	4.7195 9	106.3 25	423.25 7	1.47 815	25.1	92.9	476.2	105.27 8	75.09 88	79.8	25.9	36.3	481.1 57	15.90 26	229. 17	0.106 4
01:45:55 AM	93	50628 7	2203. 085	301. 085	1.01648	306.193	70.6009	48.5 104	992. 236	996.153	751.594	10.86 91	4.7188 3	106.1	423.19 9	1.45 45	25.1	92.9	476.2	105.29 6	75.09 98	79.8	25.9	36.3	476.8 61	15.88 3	229. 141	0.088 67
01:45:56 AM	93	50628 8	2202. 93	300. 991	1.01648	306.182	70.6197	48.5 137	992. 236	995.926	755.22	10.66 23	4.7241 7	105.9 66	422.3	1.46 477	25.1	92.9	476.2 75	105.29 9	75.1	79.8	25.9	36.3	472.5 07	15.83 03	229. 047	0.088 67
01:45:57 AM	93	50628 9	2202. 78	300. 59	1.01649	306.161	70.6185	48.5 28	992. 236	995.926	755.736	10.71 46	4.7134 8	105.5 21	423.46 8	1.46 598	25.1	92.9	476.2 95	105.3	75.1	79.8	25.8	36.3 729	468.1 24	15.85 58	228. 891	0.106 4
01:45:58 AM	93	50629 0	2203. 552	300. 552	1.0165	306.117	70.5951	48.5 558	992. 236	995.926	746.576	10.75 39	4.7234 1	105.6 62	422.17 2	1.47 392	25.1	92.9	476.2 99	105.3	75.1	79.8	25.8	36.3 135	463.6 58	15.87 22	228. 7	0.106 4
01:45:59 AM	93	50629 1	2203. 2	301	1.01649	306.057	70.5623	48.5 157	992. 236	996.153	751.796	10.73 81	4.7203 5	105.8 13	422.60 2	1.46 286	25.1	92.9	476.3	105.14 1	75.1	79.8	25.8	36.3 271	459.3 3	15.87 53	228. 542	0.065 025

01:46:00 AM	93	50629 2	2203. 3	301. 001	1.01649	306.005	70.539	48.5 18	992. 236	996.153	749.742	10.70 82	4.7218 8	105.1 68	422.23 5	1.48 946		25.1	92.9	476.3	105.10 8	75.1	79.8	25.8 005	36.3 865	454.9 08	15.86 46	228. 471	0.106 4
01:46:01 AM	93	50629 3	2203. 1	301. 289	1.01649	305.963	70.5395	48.5 319	992. 236	996.153	750.242	10.97 28	4.7150 1	105.3 76	421.60 6	1.47 303	25.1	92.9	476.2 18	105.10 1	75.1	79.8	25.8 001	36.3 975	450.4 36	15.86 51	228. 51	0.106 4	
01:46:02 AM	93	50629 4	2203. 39	301. 458	1.01648	305.942	70.5641	48.5 033	992. 236	996.153	754.347	10.88 31	4.7165 3	105.4 39	421.79 1	1.47 475	25.1	92.7508	476.1 22	105.1	75.1	79.8	25.8 995	36.3 995	446.0 44	15.91 24	228. 574	0.017 734	
01:46:03 AM	93	50629 5	2203. 27	301. 467	1.01648	305.961	70.6084	48.5 132	992. 236	995.926	746.898	10.89 34	4.7241 7	105.8 94	424.23 5	1.45 745	25.1	92.7094	476.1 04	105.1	75.02 82	79.8	25.8 999	36.3 999	441.7 97	15.92 07	228. 642	0.106 4	
01:46:04 AM	93	50629 6	2203. 11	301. 417	1.01648	306.015	70.6529	48.5 099	992. 236	995.926	755.684	10.79 74	4.7249 4	105.7 83	423.90 6	1.48 492	25.1	92.7017	476.1 01	105.38 5	75.00 52	79.8	25.8 999	36.4	437.3 17	15.89 01	228. 679	0.047 291	
01:47:26 AM	93	50637 8	2014. 99	312. 335	1.01557	317.199	66.8866	48.6 157	992. 234	995.926	630.541	13.52 24	4.5278 1	116.3 16	389.93 8	1.46 845	24.8	85.6002	483.1	104.30 8	75.19 84	79.997 5	25.5	36.4	377.7 96	14.62 64	222. 985	0.038 424	
01:47:27 AM	93	50637 9	2014. 47	312. 515	1.01558	317.178	66.8804	48.6 465	992. 234	996.153	625.748	13.71 7	4.5270 5	116.5 87	388.87 8	1.48 509	24.8	85.6	483.1	104.30 1	75.19 97	79.999 5	25.5	36.4	373.6 59	14.62 84	222. 822	0.106 4	
01:47:28 AM	93	50638 0	2014. 6	311. 922	1.01559	317.155	66.8877	48.6 54	992. 236	996.153	629.363	13.52 71	4.5346 9	115.8 9	390.19 2	1.49 1	24.8	85.5063	483.1	104.3	75.19 99	79.999 9	25.5	36.4	369.6 36	14.64 63	222. 676	0.106 4	
01:47:29 AM	93	50638 1	2014. 81	311. 754	1.01557	317.128	66.8935	48.6 134	992. 236	995.926	627.851	13.49 41	4.5293 4	116.8 21	389.78 1	1.49 005	24.8	85.4197	483.1	104.3	75.10 63	80	25.5	36.4	365.5 56	14.63 22	222. 502	0.008 867	
01:47:30 AM	93	50638 2	2014. 7	311. 861	1.01558	317.093	66.8845	48.6 493	992. 236	996.153	630.355	13.53 07	4.5247 6	115.9 44	388.73 9	1.47 825	24.8	85.4036	483.1	104.35 7	75.01 97	80	25.5	36.4	361.4 84	14.63 81	222. 336	0.094 581	
01:47:31 AM	93	50638 3	2014. 62	312. 065	1.01558	317.064	66.8664	48.6 588	992. 236	995.926	631.665	13.71 86	4.5354 5	115.6 88	389.66 6	1.46 566	24.8	85.4007	483.1	104.55 5	75.00 36	80	25.5	36.2 861	357.4 65	14.67 37	222. 278	0.106 4	
01:47:32 AM	93	50638 4	2014. 38	311. 879	1.01559	317.048	66.848	48.6 625	992. 236	995.926	627.602	13.71 67	4.5285 8	115.7 58	388.94 2	1.48 943	24.8	85.4001	483.1	104.59 2	75.00 07	80	25.5	36.2 16	353.3 48	14.65 84	222. 306	0.106 4	
01:47:33 AM	93	50638 5	2014. 86	311. 961	1.01559	317.022	66.8377	48.6 629	992. 236	996.153	627.711	13.75 31	4.5385 1	116.0 36	388.94 7	1.47 919	24.8	85.4	483.0 39	104.59 8	75.00 01	80	25.5	36.2 03	349.2 62	14.67 88	222. 408	0.153 695	
01:47:34 AM	93	50638 6	2014. 78	311. 894	1.01559	316.986	66.8346	48.6 744	992. 236	996.153	625.786	13.49 1	4.5385 1	116.3 64	387.21 6	1.47 997	24.8	85.3206	483.0 07	104.6	75	80	25.5	36.2 005	345.1 3	14.65 56	222. 585	0.106 4	
01:47:35 AM	93	50638 7	2014. 74	311. 947	1.01559	316.946	66.839	48.6 591	992. 238	995.926	626.035	13.49 13	4.5400 4	116.3 73	388.67 5	1.49 69	24.8	85.3038	483.0 01	104.6	75	80	25.5	36.2 001	341.0 5	14.66 89	222. 71	0.106 4	
01:47:36 AM	93	50638 8	2014. 93	311. 97	1.01558	316.924	66.8456	48.6 654	992. 238	996.153	631.68	13.48 11	4.5285 8	116.8 29	388.80 6	1.48 458	24.8	85.3007	483	104.6	75	80	25.5	36.2 38	337.0 54	14.71 25	222. 815	0.106 4	
01:47:37 AM	93	50638 9	2015. 134	312. 134	1.01559	316.916	66.8504	48.6 73	992. 238	995.926	624.025	13.56 5	4.5324	116.0 78	389.87 9	1.49 494	24.8	85.3001	483	104.6	75	80	25.5	36.3 7	332.9 47	14.73 78	222. 928	0.047 291	
01:47:38 AM	93	50639 0	2015. 03	311. 626	1.01558	316.916	66.8588	48.6 523	992. 238	995.926	624.651	13.46 02	4.5331 6	116.0 81	390.32 2	1.49 641	24.8	85.3	483	104.6	75	80	25.5	36.3 944	328.8 5	14.72 06	223. 04	0.106 4	
01:47:39 AM	93	50639 1	2014. 68	311. 564	1.01559	316.896	66.8543	48.6 724	992. 238	995.926	627.621	13.47 42	4.5324	115.9 63	390.16 7	1.48 801	24.8	85.243	483	104.6	75	80	25.5	36.3 99	324.8 31	14.71 62	223. 221	0.047 291	
01:47:40 AM	93	50639 2	2015. 22	311. 658	1.01559	316.853	66.8368	48.6 762	992. 238	995.926	629.107	13.33 62	4.5354 5	116.5 49	389.54 7	1.51 436	24.8	85.208	483	104.6	75	80	25.5	36.3 998	320.6 52	14.75 43	223. 43	0.106 4	
01:47:41 AM	93	50639 3	2014. 71	311. 944	1.01559	316.802	66.8176	48.6 769	992. 238	996.153	630.895	13.62 71	4.5316 3	116.5 17	389.13 3	1.51 954	24.8	85.2015	483	104.45 9	75	80	25.5	36.4	316.5 23	14.76 36	223. 641	0.008 867	
01:47:42 AM	93	50639 4	2014. 6	311. 696	1.01559	316.776	66.8029	48.6 77	992. 238	996.153	628.395	13.73 65	4.5346 9	116.2 64	389.29 1	1.51 143	24.8	85.2003	483	104.33	75	80	25.5	36.4	312.5 29	14.71 58	223. 822	0.183 251	
01:47:43 AM	93	50639 5	2014. 74	311. 763	1.01559	316.769	66.7994	48.6 77	992. 238	995.926	627.76	13.69 51	4.5408	116.4 47	388.88 5	1.46 706	24.8	85.2001	483	104.30 5	75	80	25.5	36.4	308.5 46	14.73 23	223. 967	0.088 67	
01:47:44 AM	93	50639 6	2014. 92	311. 621	1.01559	316.753	66.8003	48.6 77	992. 238	995.926	631.723	13.53 78	4.5339 2	116.6 24	390.76 9	1.49 872	24.8	85.1458	482.8 46	104.30 1	75	80	25.5	36.4	304.5 76	14.72 21	224. 057	0	
01:47:45 AM	93	50639 7	2015. 07	311. 814	1.0156	316.731	66.8024	48.6 939	992. 238	996.153	630.737	13.40 06	4.5446 2	116.0 5	389.53 9	1.49 173	24.8	85.027	482.8 08	104.3	75	80	25.5	36.4	300.4 74	14.67 67	224. 055	0.050 25	
01:47:46 AM	93	50639 8	2014. 65	311. 841	1.0156	316.713	66.8019	48.6 901	992. 237	996.153	628.9	13.50 23	4.5331 6	116.3 83	388.36 7	1.49 399	24.8	85.005	482.8 02	104.3	75	80	25.5	36.4	296.3 72	14.65 11	223. 943	0.124 138	

01:47:47 AM	93	50639 9	2014. 92	311. 412	1.0156	316.692	66.7984	48.6 884	992. 236	995.926	626.695	13.46 86	4.5308 7	116.8 68	389.99 6	1.48 595	24.8	85.0009	482.8	104.3	75.08 13	80	25.5	36.4	292.2 91	14.64 46	223. 749	0.106 4
01:47:48 AM	93	50640 0	2015. 02	311. 349	1.0156	316.658	66.7923	48.6 913	992. 234	995.926	627.337	13.55 37	4.5438 6	116.2 5	389.80 2	1.46 878	24.8	85.0002	482.8	104.3	75.25 95	80.057	25.5	36.4	288.2 82	14.60 64	223. 47	0.056 158
01:47:49 AM	93	50640 1	2015. 23	311. 554	1.0156	316.612	66.7783	48.6 944	992. 234	996.153	627.26	13.55 53	4.5430 9	116.7 08	390.13 7	1.46 591	24.8	85	482.8	104.14 6	75.29 25	80.092	25.5	36.4	284.2 79	14.58 35	223. 139	0.076 847
01:47:50 AM	93	50640 2	2015. 17	311. 817	1.0156	316.567	66.7684	48.6 908	992. 234	995.926	634.122	13.50 4	4.5408	117.1 01	390.14 6	1.47 806	24.8	85	482.8	104.10 8	75.29 86	80.098 5	25.5	36.4	280.1 19	14.59 95	222. 829	0.106 4
01:47:51 AM	93	50640 3	2015. 14	311. 925	1.01585	316.543	66.7855	48.7 07	992. 234	995.926	632.248	13.57 09	4.5362 2	116.2 14	391.13 3	1.49 427	24.8794	85	482.7 66	104.10 2	75.29 97	80.099 7	25.5	36.4	276.0 08	14.60 73	222. 526	0.008 867
01:47:52 AM	93	50640 4	2015. 15	311. 7	1.01591	316.549	66.804	48.7 083	992. 234	995.926	624.341	13.47 41	4.5400 4	115.7 96	390.18 7	1.49 159	24.8962	85	482.7 12	104.1	75.29 99	80.1	25.5	36.4	271.9 67	14.61 47	222. 276	0.017 734
01:47:53 AM	93	50640 5	2015. 4	312. 073	1.01593	316.571	66.8277	48.7 296	992. 234	995.926	630.248	13.64 35	4.5377 4	115.3 06	390.02 3	1.47 273	24.8993	85	482.7 02	104.1	75.09 41	80.081	25.5	36.4	267.9 34	14.60 88	222. 134	0.106 4
01:47:54 AM	93	50640 6	2015. 28	312. 124	1.01593	316.598	66.8515	48.7 177	992. 234	995.926	631.242	13.44 51	4.5385 1	116.1 45	389.40 8	1.49 005	24.8999	85	482.7	104.15 2	75.01 74	80.015	25.5	36.4	263.7 71	14.60 87	222. 056	0.085 714
01:47:55 AM	93	50640 7	2015. 06	312. 289	1.01593	316.63	66.872	48.7 063	992. 234	996.153	621.323	13.41 66	4.5308 7	117.0 31	389.51 3	1.49 029	24.9	85	482.7	104.19 1	75.00 32	80.002 8	25.5	36.4	259.6 89	14.64 65	222. 014	0.106 4
01:49:04 AM	93	50647 6	1809. 41	313. 885	1.01596	319.179	60.4743	48.8 202	992. 236	995.926	536.226	7.902 7	4.2924 8	123.9 62	357.09 8	1.50 331	24.9	79.403	480.4 01	103.6	75.09 28	80	25.5	36.2	451.4 45	13.35 21	223. 615	0.106 4
01:49:05 AM	93	50647 7	1809. 87	313. 86	1.01597	319.157	60.4649	48.8 224	992. 235	995.926	533.271	7.869 88	4.2970 7	124.0 73	355.03 6	1.49 076	24.9	79.4006	480.4	103.6	75.09 87	80	25.5	36.2 651	447.8 28	13.32 3	223. 828	0.094 581
01:49:06 AM	93	50647 8	1809. 29	314. 11	1.01596	319.14	60.4545	48.8 034	992. 235	995.926	534.677	7.756 95	4.2879 9	124.0 95	356.12	1.49 482	24.9	79.4001	480.4	103.6	75.09 98	80	25.5	36.2 935	444.1 09	13.29 72	224. 028	0.106 4
01:49:07 AM	93	50647 9	1809. 29	314. 106	1.01598	319.133	60.4512	48.8 372	992. 235	995.926	529.44	7.617 33	4.2886 6	124.2 42	356.66 3	1.50 367	24.9	79.39	480.2 57	103.6	75.1	80	25.5	36.2 988	440.4 45	13.29 23	224. 089	0.106 4
01:49:08 AM	93	50648 0	1809. 55	313. 87	1.01597	319.12	60.4514	48.8 273	992. 235	996.153	538.965	7.861 58	4.2901 9	123.8 4	355.15 6	1.50 398	24.9	79.3167	480.2 1	103.6	75.04 58	80	25.5	36.2 998	436.7 37	13.29 63	224. 021	0.115 271
01:49:09 AM	93	50648 1	1809. 68	313. 902	1.01597	319.098	60.4527	48.8 347	992. 235	995.926	526.787	7.663	4.2940 1	124.1 02	355.40 6	1.50 1	24.9	79.3031	480.2 02	103.6	74.92 7	80	25.5	36.3	433.1 08	13.29 52	223. 848	0.056 158
01:49:10 AM	93	50648 2	1809. 58	314. 123	1.01597	319.084	60.4549	48.8 275	992. 235	995.926	523.506	7.632 02	4.2955 4	123.9 63	356.16 2	1.51 06	24.9	79.3006	480.2	103.6	74.90 5	80	25.5	36.3	429.3 9	13.24 72	223. 65	0.106 4
01:49:11 AM	93	50648 3	1809. 79	314. 245	1.01597	319.085	60.4586	48.8 256	992. 234	995.926	518.974	7.652 09	4.2901 9	123.6 94	357.05 2	1.49 796	24.9	79.3001	480.2	103.6	74.90 09	80	25.4 185	36.3	425.7 21	13.27 36	223. 45	0
01:49:12 AM	93	50648 4	1809. 54	314. 162	1.01598	319.089	60.4626	48.8 373	992. 234	995.926	522.961	7.669 73	4.2985 9	124.2 24	356.04 3	1.50 428	24.9	79.3	480.0 43	103.6	74.90 02	80	25.4 034	36.3	421.9 66	13.27 11	223. 305	0.106 4
01:49:13 AM	93	50648 5	1809. 22	314. 015	1.01597	319.088	60.4686	48.8 229	992. 234	995.926	521.134	7.518 55	4.2985 9	124.0 56	355.80 4	1.50 175	24.9	79.1565	479.9 27	103.6	74.9	80	25.4 006	36.3	418.2 97	13.25 52	223. 147	0.106 4
01:49:14 AM	93	50648 6	1809. 38	313. 818	1.01597	319.079	60.4716	48.8 323	992. 234	995.926	523.168	7.472 61	4.2978 3	123.3 85	356.80 5	1.51 813	24.9	79.1105	479.9 05	103.6	75.04 35	80	25.4 001	36.3	414.5 74	13.29 34	223. 02	0.106 4
01:49:15 AM	93	50648 7	1809. 43	313. 996	1.01597	319.063	60.4626	48.8 278	992. 234	995.926	520.987	7.555 54	4.2955 4	123.0 72	356.88 5	1.50 302	24.9	79.1019	479.9 01	103.6	75.08 95	80	25.4	36.3	410.9 15	13.33 48	222. 998	0.106 4
01:49:16 AM	93	50648 8	1809. 77	314. 083	1.01598	319.047	60.4507	48.8 446	992. 234	995.926	516.469	7.544 11	4.2955 4	122.9 43	356.18 1	1.51 47	24.9	79.1004	479.9	103.6	75.09 81	80	25.4	36.3	407.1 52	13.32 62	223. 074	0.106 4
01:49:17 AM	93	50648 9	1809. 42	314. 154	1.01599	319.041	60.4444	48.8 606	992. 234	995.926	522.842	7.500 43	4.3008 9	123.6 81	355.78 3	1.51 611	24.9	79.1001	479.9	103.6	75.09 96	80	25.4	36.3	403.5 24	13.28 65	223. 279	0
01:49:18 AM	93	50649 0	1809. 23	313. 73	1.01598	319.05	60.4446	48.8 39	992. 234	995.926	514.679	7.572 96	4.3024 1	123.1 88	354.74 8	1.50 089	24.9	79.0591	479.6 62	103.6	75.09 99	80	25.4	36.3	399.8 81	13.31 34	223. 504	0.017 734
01:49:19 AM	93	50649 1	1809. 66	313. 377	1.01596	319.044	60.4429	48.8 157	992. 234	996.153	515.601	7.506 73	4.2970 7	123.2 47	354.64 2	1.50 704	24.9	79.0109	479.6 11	103.6	75.00 63	80	25.4	36.3	396.2 38	13.28 42	223. 66	0.106 4
01:49:20 AM	93	50649 2	1809. 94	313. 815	1.01597	319.012	60.4326	48.8 101	992. 234	995.926	510.539	7.578 05	4.2985 9	122.9 79	354.86 3	1.50 37	24.9	79.002	479.6 02	103.57	74.91 97	80	25.4	36.3	392.5 62	13.29 6	223. 692	0.008 867

01:49:21 AM	93	50649 3	1808. 01	314. 221	1.01597	318.979	60.4133	48.8 357	992. 234	995.926	513.448	7.589 52	4.2932 5	122.8 15	354.46 8	1.50 961	24.9	79.0004	479.6	103.35	74.90 36	80	25.4	36.3 57	388.9 1	13.24 92	223. 648	0.047 291
01:49:22 AM	93	50649 4	1809. 35	313. 392	1.01598	318.963	60.3984	48.8 368	992. 234	995.926	511.797	7.565 86	4.3001 2	122.4 95	355.65 3	1.50 036	24.9	79.0001	479.6	103.30 9	74.90 07	80	25.4	36.3 92	385.2 69	13.26 64	223. 551	0.106 4
01:49:23 AM	93	50649 5	1808. 22	313. 606	1.01597	318.937	60.3887	48.8 229	992. 234	995.926	512.194	7.543 73	4.2848 4	122.3 23	354.78 3	1.51 214	24.9	79	479.4 05	103.30 2	74.90 01	80	25.4	36.3 985	381.5 35	13.25 91	223. 44	0.008 867
01:49:24 AM	93	50649 6	1809. 38	313. 085	1.01598	318.879	60.369	48.8 42	992. 236	995.926	523.07	7.669 99	4.2963	122.2 78	355.53 9	1.50 631	24.9	78.8412	479.3 19	103.3	74.9	80	25.4	36.3 997	377.8 68	13.25 3	223. 345	0.056 158
01:49:25 AM	93	50649 7	1809. 71	313. 232	1.01596	318.802	60.3495	48.8 131	992. 236	995.926	525.152	7.838 06	4.3008 9	122.7 52	355.32 8	1.50 811	24.9	78.8076	479.3 04	103.3	74.9	80	25.4	36.3 999	374.2 04	13.21 08	223. 244	0.106 4
01:49:26 AM	93	50649 8	1809. 78	313. 478	1.01597	318.724	60.3235	48.8 346	992. 236	995.926	523.16	7.682 66	4.2993 6	122.6 04	354.31	1.51 857	24.9	78.8014	479.3 01	103.3	74.9	80	25.4	36.3 9	370.4 88	13.21 41	223. 156	0.106 4
01:49:27 AM	93	50649 9	1809. 72	313. 342	1.01598	318.668	60.3127	48.8 512	992. 236	996.153	525.367	7.675 36	4.3024 1	122.7 64	355	1.51 553	24.9	78.8003	479.3	103.3	74.9	80	25.4	36.3 167	366.9 07	13.22 7	223. 064	0.041 38
01:49:28 AM	93	50650 0	1809. 61	313. 23	1.01597	318.624	60.3164	48.8 285	992. 236	995.926	519.248	7.717 55	4.2993 6	122.8 73	353.73 7	1.52 064	24.9	78.8	479.2 43	103.3	74.9	80	25.4	36.3 031	363.1 67	13.20 58	222. 949	0.106 4
01:49:29 AM	93	50650 1	1809. 62	313. 186	1.01596	318.575	60.3208	48.8 192	992. 236	995.926	522.173	7.713 58	4.2970 7	122.3 45	355.54 8	1.50 905	24.9	78.7388	479.0 45	103.3	74.9	80	25.4	36.3 006	359.5 86	13.20 8	222. 797	0.106 4
01:49:30 AM	93	50650 2	1809. 63	313. 137	1.01597	318.506	60.3203	48.8 389	992. 236	995.926	537.482	7.926 97	4.3001 2	122.5 5	354.79 1	1.50 927	24.9	78.7072	479.0 08	103.3	74.9	80	25.4	36.3 001	355.9 88	13.21 85	222. 676	0.106 4
01:49:31 AM	93	50650 3	1809. 75	312. 866	1.01597	318.432	60.311	48.8 295	992. 236	995.926	544.075	7.978 81	4.3016 5	122.4 51	352.75 2	1.50 933	24.9	78.7013	479.0 02	103.20 6	74.9	80	25.4	36.3	352.2 92	13.21 77	222. 604	0.106 4
01:49:32 AM	93	50650 4	1809. 61	313. 077	1.01597	318.372	60.2943	48.8 254	992. 236	995.926	540.043	7.942 74	4.2978 3	122.0 93	354.21 7	1.50 572	24.9	78.7002	479	103.12	74.9	80	25.3 9	36.3	348.6 37	13.21 81	222. 574	0.050 25
01:49:33 AM	93	50650 5	1809. 18	312. 933	1.01598	318.32	60.2765	48.8 561	992. 236	995.926	541.712	8.038 74	4.2993 6	122.5 75	354.55 5	1.52 197	24.9	78.7	479	103.10 4	74.9	80	25.3 167	36.3	344.9 36	13.19 63	222. 62	0.106 4
01:51:05 AM	93	50659 7	1603. 18	311. 538	1.01598	317.024	53.2547	48.8 502	992. 234	995.7	439.923	1.861 93	3.9922 1	125.5 64	321.25 8	1.51 853	24.9	73.0011	463.0 01	101.75 7	74.8	79.9	25.2	35.9	428.7 95	11.54 46	220. 992	0.106 4
01:51:06 AM	93	50659 8	1602. 8	310. 91	1.01599	316.966	53.218	48.8 757	992. 234	995.7	451.101	2.313 25	3.9906 8	125.2 29	320.39	1.52 565	24.9	73.0002	463	101.87 3	74.8	79.9	25.2	35.8 229	425.6 42	11.55 5	220. 753	0.059 11
01:51:07 AM	93	50659 9	1603. 35	310. 937	1.01598	316.888	53.1682	48.8 579	992. 234	995.7	446.019	1.721 99	3.9983 2	125.3 46	320.35 8	1.52 26	24.9	73	463	101.89 5	74.8	79.9	25.2	35.8 042	422.4 49	11.55 13	220. 615	0.017 734
01:51:08 AM	93	50660 0	1603. 44	311. 641	1.01599	316.809	53.124	48.8 694	992. 234	995.7	446.102	1.917 96	3.9906 8	125.8 24	320.12 6	1.52 521	24.9	72.9591	462.5 11	101.89 9	74.8	79.9	25.2	35.8 008	419.2 28	11.51 7	220. 593	0.124 138
01:51:09 AM	93	50660 1	1603. 28	311. 746	1.01599	316.757	53.0946	48.8 609	992. 234	995.7	452.562	2.028 13	3.9960 3	125.6 86	320.14 8	1.52 741	24.9	72.9109	462.4 21	101.9	74.8	79.9	25.2	35.8 001	416.0 35	11.50 87	220. 652	0.106 4
01:51:10 AM	93	50660 2	1603. 68	311. 36	1.01599	316.728	53.0934	48.8 638	992. 235	995.926	446.804	1.833 93	4.0006 1	125.5 66	321.33 2	1.52 958	24.9	72.902	462.4 04	101.93 8	74.8	79.9	25.2	35.8	412.7 96	11.54 34	220. 694	0.124 138
01:51:11 AM	93	50660 3	1603. 88	311. 22	1.01598	316.697	53.1113	48.8 436	992. 234	995.926	445.785	1.928 63	3.9983 2	125.6 19	320.20 4	1.52 166	24.9	72.9004	462.4 01	102.07	74.8	79.9	25.2	35.8 522	409.5 93	11.53 4	220. 686	0.106 4
01:51:12 AM	93	50660 4	1603. 89	311. 281	1.01599	316.658	53.1297	48.8 644	992. 232	995.7	441.898	1.776 02	3.9983 2	124.7 67	320.76 8	1.51 81	24.9	72.9001	462.4 4	102.09 4	74.8	79.9	25.2	35.8 911	406.3 75	11.52 95	220. 61	0.038 424
01:51:13 AM	93	50660 5	1603. 94	311. 439	1.01599	316.603	53.1375	48.8 612	992. 232	995.7	438.908	1.964 76	3.9975 6	125.4 02	320.25 3	1.51 502	24.9	72.9	462.1 15	102.09 9	74.8	79.9	25.2	35.8 984	403.1 98	11.54 28	220. 531	0.106 4
01:51:14 AM	93	50660 6	1604. 29	311. 58	1.01599	316.536	53.1349	48.8 712	992. 233	995.926	435.807	1.738 2	3.9983 2	125.1 16	320.74 8	1.53 864	24.9	72.7412	461.9 4	102.1	74.8	79.9	25.2	35.8 997	399.9 36	11.56 28	220. 52	0.106 4
01:51:15 AM	93	50660 7	1603. 66	311. 888	1.01599	316.477	53.1357	48.8 69	992. 229	995.7	439.712	1.901 83	4.0059 6	125.0 89	319.55 7	1.52 377	24.9	72.7076	461.9 07	102.1	74.8	79.9	25.2	35.8 997	396.7 87	11.55 78	220. 573	0.106 4
01:51:16 AM	93	50660 8	1603. 79	311. 443	1.01599	316.441	53.15	48.8 643	992. 229	995.7	440.292	1.965 43	4.0090 2	124.9 27	321.15 1	1.53 567	24.9	72.7014	461.9 01	101.74 1	74.8	79.9	25.2	35.8 9	393.5 67	11.52 28	220. 66	0.106 4

01:51:17 AM	93	506609	1603.97	311.178	1.01599	316.416	53.1666	48.8687	992.229	995.7	443.579	1.90463	4.00672	124.821	320.829	1.52513	24.9	72.7003	461.9	101.626	74.8	79.9	25.2	35.8167	390.317	11.5453	220.708	0.02069
01:51:18 AM	93	506610	1603.8	311.283	1.016	316.386	53.1676	48.8805	992.229	995.7	439.145	1.89632	4.0052	124.87	319.632	1.5268	24.9	72.7001	461.765	101.605	74.8	79.9	25.2	35.8031	387.13	11.584	220.714	0.1064
01:51:19 AM	93	506611	1603.95	311.37	1.016	316.371	53.1566	48.8729	992.229	995.7	447.252	1.92047	4.00214	125.319	320.405	1.52075	24.9	72.6431	461.468	101.601	74.8	79.9	25.1729	35.8006	383.957	11.5739	220.722	0.1064
01:51:20 AM	93	506612	1603.79	311.139	1.016	316.385	53.1385	48.8874	992.226	995.7	442.851	1.67361	4.00214	125.043	320.001	1.52311	24.9	72.608	461.413	101.6	74.8	79.9	25.1135	35.8001	380.74	11.5619	220.764	0.085714
01:51:21 AM	93	506613	1603.96	310.864	1.01601	316.399	53.1204	48.89	992.227	995.7	442.514	2.03472	4.0052	124.848	320.139	1.52915	24.9	72.6015	461.402	101.428	74.8	79.9	25.1025	35.8	377.487	11.5724	220.918	0.1064
01:51:22 AM	93	506614	1604.03	310.934	1.01601	316.376	53.1084	48.8905	992.227	995.7	441.234	2.27393	4.00367	124.919	320.214	1.52149	24.9	72.6003	461.4	101.161	74.8	79.9	25.1005	35.8	374.27	11.5753	221.11	0.076847
01:51:23 AM	93	506615	1604.37	311.064	1.01601	316.328	53.0956	48.8862	992.224	995.7	444.026	2.13652	4.0052	124.225	320.737	1.54197	24.9	72.6001	461.4	101.111	74.8	79.9	25.1001	35.8	371.002	11.5823	221.254	0.115271
01:51:24 AM	93	506616	1604.03	311.139	1.016	316.292	53.0846	48.8898	992.229	995.7	439.326	1.91761	4.00672	125.023	319.804	1.53996	24.9	72.562	461.102	101.102	74.8	79.9	25.1	35.8	367.852	11.5876	221.391	0.1064
01:51:25 AM	93	506617	1604.29	311.369	1.016	316.277	53.0813	48.8905	992.229	995.7	444.395	1.93595	4.00214	125.169	320.107	1.53138	24.9	72.43	461.019	101.1	74.8	79.9	25.1	35.8	364.656	11.5625	221.481	0.02069
01:51:26 AM	93	506618	1604.25	311.721	1.016	316.275	53.0931	48.8906	992.229	995.7	442.037	2.10095	4.00978	124.882	319.768	1.52319	24.9	72.4056	461.003	101.1	74.8	79.9	25.1	35.8	361.448	11.5759	221.527	0.1064
01:51:27 AM	93	506619	1603.66	311.637	1.016	316.28	53.1143	48.8906	992.23	995.7	438.432	2.04839	4.01131	124.579	320.939	1.53954	24.9	72.401	461.001	101.259	74.8	79.9	25.1	35.8	358.236	11.596	221.556	0.1064
01:51:28 AM	93	506620	1604.15	310.866	1.016	316.27	53.1342	48.8907	992.231	995.7	441.802	1.99235	4.01131	124.967	320.334	1.52553	24.9	72.4002	461	101.292	74.8	79.9	25.1	35.8	355.072	11.5762	221.525	0.1064
01:51:29 AM	93	506621	1604.03	310.978	1.016	316.236	53.14	48.8871	992.229	995.7	446.381	2.02359	4.00825	124.869	319.541	1.53326	24.9	72.4	460.836	101.299	74.8	79.9	25.1	35.8	351.857	11.5784	221.465	0.1064
01:51:30 AM	93	506622	1604.34	311.606	1.016	316.198	53.1331	48.8739	992.226	995.7	447.649	2.33949	4.00825	124.93	320.707	1.52422	24.9	72.3314	460.644	101.3	74.8	79.9	25.1	35.8	348.675	11.5955	221.445	0.1064
01:51:31 AM	93	506623	1604.27	311.071	1.016	316.19	53.1236	48.8826	992.226	995.7	446.107	2.13511	4.01513	124.646	320.128	1.51995	24.9	72.3058	460.608	101.3	74.8	79.9	25.1	35.8	345.467	11.5663	221.451	0.026601
01:51:32 AM	93	506624	1603.6	310.806	1.01601	316.189	53.1145	48.8843	992.225	995.7	439.539	2.1605	4.00902	124.274	319.517	1.5445	24.9	72.3011	460.602	100.958	74.8	79.9	25.1	35.8	342.309	11.5538	221.465	0.1064
01:51:33 AM	93	506625	1604.08	310.632	1.01601	316.169	53.1028	48.8895	992.225	995.7	442.413	2.02839	4.01207	123.613	318.797	1.52996	24.9	72.3002	460.6	100.748	74.8	79.9	25.1	35.8	339.121	11.5198	221.452	0.02956
01:51:34 AM	93	506626	1604.06	310.64	1.016	316.137	53.0832	48.8778	992.225	995.7	435.53	1.95068	4.01666	124.738	318.479	1.52729	24.9	72.3	460.6	100.709	74.8	79.9	25.1	35.8	335.866	11.5248	221.348	0.056158
01:53:00 AM	93	506712	1405.77	303.317	1.0157	308.152	45.3559	48.9068	992.218	995.7	362.023	0.13387	3.59795	126.236	288.585	1.54471	24.8	66.7001	444.9	99.3972	74.6997	79.8	24.959	35.9	399.191	9.89767	220.851	0.153695
01:53:01 AM	93	506713	1405.73	303.323	1.0157	308.143	45.3479	48.908	992.22	995.7	365.911	0.24327	3.59719	125.651	288.229	1.53144	24.8	66.7	444.574	99.3995	74.6999	79.8	24.9109	35.9	396.473	9.87656	220.893	0.1064
01:53:02 AM	93	506714	1405.56	303.032	1.0157	308.136	45.3372	48.9006	992.22	995.7	360.09	0.45188	3.59948	126.238	288.618	1.5377	24.8	66.6185	444.432	99.3999	74.7	79.8	24.902	35.9	393.787	9.81579	221.032	0.1064
01:53:03 AM	93	506715	1405.52	302.926	1.0157	308.121	45.3345	48.9111	992.223	995.7	362.188	0.130117	3.60254	125.728	289.101	1.53283	24.8	66.6034	444.406	99.4	74.7	79.8	24.9004	35.9	391.068	9.83761	221.122	0.094581
01:53:04 AM	93	506716	1405.52	302.898	1.0157	308.092	45.3325	48.915	992.219	995.7	361.703	0.13412	3.60101	125.725	288.049	1.52981	24.8	66.6006	444.401	99.4	74.7	79.8	24.9001	35.9	388.308	9.84656	221.061	0.1064
01:53:05 AM	93	506717	1405.65	303.074	1.0157	308.056	45.3267	48.8987	992.218	995.7	364.922	0.31666	3.6033	125.685	287.753	1.51808	24.8	66.6001	444.4	99.4	74.771	79.8819	24.9	35.9	385.548	9.86891	220.878	0.153695
01:53:06 AM	93	506718	1405.5	303.227	1.0157	308.013	45.3164	48.9099	992.221	995.7	364.245	0.67776	3.59872	125.77	287.434	1.51791	24.8	66.6	444.4	99.8559	74.7958	79.9781	24.9	35.9	382.824	9.88994	220.712	0.1064

01:53:07 AM	93	50671 9	1405. 37	302. 869	1.01571	307.979	45.31	48.9 133	992. 218	995.7	364.395	0.640 33	3.6010 1	125.1 57	287.89 4	1.52 318	24.8	66.6	444.4	100.05 5	74.79 92	79.995 9	24.9	35.9	380.1 69	9.853 21	220. 743	0.076 847
01:53:08 AM	93	50672 0	1405. 4	303. 059	1.01592	307.96	45.3187	48.9 114	992. 219	995.7	360.598	0.694 53	3.5933 7	125.3 66	287.75 6	1.51 482	24.8686	66.6	444.3 05	100.09 2	74.79 99	79.999 3	24.9	35.9	377.3 94	9.845 08	220. 87	0.106 4
01:53:09 AM	93	50672 1	1405. 68	303. 078	1.01601	307.943	45.32	48.9 443	992. 223	995.7	362.799	0.829 4	3.5979 5	125.8 89	287.75	1.51 187	24.8942	66.5478	443.9 75	100.09 8	74.8	79.999 9	24.9	35.9	374.7 28	9.821 44	221. 034	0.106 4
01:53:10 AM	93	50672 2	1405. 7	303. 37	1.01602	307.923	45.3201	48.9 147	992. 219	995.7	363.861	0.525 56	3.5994 8	125.3 77	288.05	1.51 474	24.8989	66.5089	443.9 14	100.1	74.69 57	80	24.9	35.9	372.0 12	9.819 6	221. 052	0.106 4
01:53:11 AM	93	50672 3	1405. 81	303. 4	1.01603	307.912	45.324	48.9 192	992. 22	995.7	358.477	0.548 08	3.6002 4	125.1 13	287.91 5	1.51 788	24.8998	66.5016	443.9 03	99.910 2	74.61 77	79.845 7	24.9	35.9	369.2 67	9.814 32	220. 866	0.106 4
01:53:12 AM	93	50672 4	1405. 63	303. 478	1.01603	307.925	45.3353	48.9 107	992. 216	995.7	366.516	0.124 12	3.6055 9	125.1 57	287.90 2	1.52 246	24.9	66.5003	443.9	99.494 6	74.60 33	79.808 5	24.9	35.9	366.4 95	9.822 05	220. 619	0.106 4
01:53:13 AM	93	50672 5	1405. 67	303. 674	1.01588	307.95	45.3461	48.8 944	992. 218	995.7	368.72	0.491 71	3.6002 4	124.5 78	287.14 2	1.52 238	24.8531	66.5001	443.9	99.417 5	74.60 06	79.801 6	24.9	35.9	363.7 4	9.828 55	220. 333	0.106 4
01:53:14 AM	93	50672 6	1405. 72	303. 607	1.01574	307.972	45.3587	48.9 035	992. 218	995.7	354.701	0.191 54	3.6048 3	124.4 26	287.17 7	1.51 732	24.8098	66.5	443.6 94	99.403 2	74.60 01	79.800 3	24.9	35.9	360.9 91	9.827 26	220. 131	0.162 562
01:53:15 AM	93	50672 7	1405. 83	303. 735	1.01571	307.998	45.3748	48.9 195	992. 221	995.7	354.053	0.419 7	3.6055 9	124.4 25	287.38 2	1.50 197	24.8018	66.3371	443.6 17	99.400 6	74.6	79.800 1	24.9	35.9	358.3 88	9.806 35	220. 011	0.106 4
01:53:16 AM	93	50672 8	1405. 78	303. 586	1.01571	308.036	45.3869	48.9 219	992. 221	995.7	364.656	0.238 06	3.6124 7	124.8 21	286.27 8	1.52 451	24.8003	66.3069	443.6 03	99.400 1	74.6	79.8	24.9	35.9	355.5 75	9.791 95	219. 925	0.026 601
01:53:17 AM	93	50672 9	1405. 91	303. 93	1.01569	308.081	45.3978	48.9 071	992. 227	995.7	365.955	0.315 76	3.6094 1	124.2 81	285.84 8	1.50 599	24.8001	66.3013	443.6 01	99.4	74.6	79.8	24.8	35.9	352.8 99	9.810 29	219. 811	0.133 005
01:53:18 AM	93	50673 0	1405. 66	304. 197	1.0157	308.142	45.4113	48.9 214	992. 223	995.7	362.989	0.137 77	3.614	124.6 8	286.92 6	1.50 48	24.8	66.3002	443.6	99.4	74.6	79.8	24.8	35.9	350.2 45	9.819 77	219. 662	0.106 4
01:53:19 AM	93	50673 1	1405. 93	303. 801	1.0157	308.216	45.4249	48.9 226	992. 223	995.398	365.778	0.598 7	3.6094 1	124.1 69	287.26 7	1.49 428	24.8	66.3	443.5 18	99.4	74.6	79.8	24.8	35.9	347.4 43	9.812 12	219. 498	0.106 4
01:53:20 AM	93	50673 2	1405. 82	303. 804	1.0157	308.289	45.4365	48.9 084	992. 221	995.7	362.1	0.663 66	3.614	124.3 55	287.23 3	1.49 634	24.8	66.1697	443.4 22	99.4	74.6	79.8	24.8	35.9	344.6 84	9.824 21	219. 391	0.124 138
01:53:21 AM	93	50673 3	1405. 71	303. 566	1.01571	308.352	45.4416	48.9 169	992. 218	995.7	362.361	0.308 12	3.6155 3	124.7 71	286.77 7	1.48 636	24.8	66.1129	443.4 04	99.4	74.6	79.8	24.8	35.9	341.9 79	9.826 46	219. 369	0.106 4
01:53:22 AM	93	50673 4	1406. 11	303. 763	1.01571	308.406	45.4392	48.9 243	992. 216	995.7	364.484	0.635 74	3.6124 7	124.1 33	286.67 7	1.50 223	24.8	66.1024	443.4 01	99.4	74.6	79.8	24.8	35.9	339.2 88	9.826 87	219. 403	0.041 38
01:53:23 AM	93	50673 5	1405. 75	303. 797	1.01571	308.449	45.4292	48.9 339	992. 218	995.7	362.274	0.591 14	3.6124 7	123.8 51	286.81 6	1.52 585	24.8	66.1004	443.4	99.4	74.6	79.8	24.8	35.9	336.4 37	9.844 57	219. 494	0.056 158
01:53:24 AM	93	50673 6	1405. 49	303. 961	1.01571	308.485	45.4198	48.9 309	992. 218	995.7	358.834	0.565 63	3.6170 5	124.2 36	285.52	1.51	24.8	66.1001	443.4	99.4	74.6	79.8	24.8	35.9	333.7 04	9.887 93	219. 647	0.106 4
01:53:25 AM	93	50673 7	1405. 67	303. 401	1.01571	308.515	45.4169	48.9 196	992. 218	995.7	363.762	0.589 51	3.6178 2	123.8 79	286.01 2	1.50 205	24.8	66.1	443.0 27	99.4	74.6	79.8	24.8	35.9	330.9 97	9.843 23	219. 859	0.106 4
01:53:26 AM	93	50673 8	1405. 41	303. 016	1.01572	308.529	45.4092	48.9 161	992. 213	995.7	360.888	0.409 47	3.6185 8	124.1 11	286.60 7	1.50 983	24.8	66.1	442.9 24	99.4	74.63 44	79.8	24.8	35.9	328.2 68	9.851 49	220. 092	0.153 695
01:53:27 AM	93	50673 9	1405. 37	303. 075	1.01571	308.512	45.3934	48.9 112	992. 213	995.7	361.085	0.696 78	3.6132 3	123.5 73	287.11 6	1.51 595	24.8	66.1	442.9 04	99.4	74.68 78	79.865 1	24.8	35.9	325.5 61	9.817 36	220. 299	0.144 828
01:53:28 AM	93	50674 0	1405. 76	303. 547	1.01573	308.471	45.3702	48.9 213	992. 207	995.7	359.788	0.440 65	3.6117 1	124.1 03	285.95 9	1.51 243	24.8	66.1	442.9 01	99.4	74.69 77	79.893 5	24.8	35.9	322.8 33	9.877 47	220. 419	0.106 4
01:53:29 AM	93	50674 1	1405. 82	303. 402	1.01572	308.435	45.3477	48.9 101	992. 207	995.7	366.759	0.718 27	3.6155 3	123.8 93	285.21 3	1.49 812	24.8	66.1	442.9	99.4	74.69 96	79.898 8	24.8	35.9	320.0 52	9.895 06	220. 499	0.076 847
01:54:26 AM	93	50679 8	1208. 68	287. 798	1.01602	292.259	37.0838	48.9 268	992. 227	995.7	285.784	0.686 459	3.0868	125.0 1	257.83 1	1.57 075	24.9009	62.2042	430.2 09	98.6	74.7	80.1	24.7	35.8	557.8 84	8.241 14	225. 876	0.008 867

01:54:27 AM	93	50679 9	1211.08	286.889	1.01603	292.276	37.0847	48.9512	992.225	995.7	289.718	0.772436	3.09979	124.425	258.862	1.58876	24.9002	62.2008	430.202	98.4046	74.7	80.1	24.7	35.8	555.62	8.24087	225.722	0.056158
01:54:28 AM	93	50680 0	1210.75	286.793	1.01603	292.271	37.0618	48.9471	992.225	995.7	283.85	0.797951	3.09749	124.607	258.456	1.61707	24.9	62.2001	430.2	98.3194	74.7	80.1	24.7	35.8	553.318	8.24599	225.667	0.1064
01:54:29 AM	93	50680 1	1211.02	286.901	1.01648	292.225	37.0435	48.9288	992.224	995.7	289.47	0.610313	3.09597	124.044	257.871	1.60086	25.0435	62.2	429.929	98.3036	74.7	80.1	24.7	35.8	551.048	8.23212	225.777	0.1064
01:54:30 AM	93	50680 2	1210.47	287.365	1.01663	292.182	37.0181	48.9159	992.223	995.398	288.113	0.565497	3.09291	124.234	257.302	1.58142	25.0895	62.0291	429.335	98.3007	74.7	80.1	24.7	35.8	548.763	8.20867	225.924	0.133005
01:54:31 AM	93	50680 3	1210.75	287.256	1.01667	292.171	37.0003	48.9421	992.219	995.398	280.07	0.715851	3.09749	124.095	257.145	1.60788	25.0981	61.9239	429.225	98.3001	74.7	80.1	24.7	35.8	546.51	8.21839	226.054	0.038424
01:54:32 AM	93	50680 4	1209.69	287.922	1.01666	292.182	37.0035	48.9023	992.22	995.7	286.199	0.623636	3.09215	123.928	257.204	1.60053	25.0996	61.9044	429.205	98.2181	74.7	80.1	24.7	35.8	544.223	8.25308	226.108	0.133005
01:54:33 AM	93	50680 5	1210.81	287.355	1.01666	292.195	37.0173	48.9031	992.221	995.7	280.717	0.548681	3.10208	123.467	256.507	1.58806	25.0999	61.9008	429.201	98.1219	74.7	80.1	24.7	35.8	541.92	8.22241	226.083	0.144828
01:54:34 AM	93	50680 6	1210.05	287.619	1.01667	292.2	37.0343	48.9333	992.219	995.7	282.191	0.753164	3.09597	123.669	256.596	1.63957	25.1	61.9002	429.2	98.1041	74.7	80.1	24.7	35.8	539.732	8.18984	225.999	0.1064
01:54:35 AM	93	50680 7	1210.59	287.49	1.01667	292.191	37.0481	48.9255	992.219	995.398	287.968	0.895988	3.1059	123.519	256.822	1.58841	25.1	61.89	428.77	98.1008	74.7	80.1	24.7	35.8	537.408	8.19082	225.879	0.017734
01:54:36 AM	93	50680 8	1210.96	287.533	1.01668	292.172	37.0576	48.9413	992.221	995.7	287.872	0.800314	3.10131	123.17	256.787	1.58571	25.1	61.8167	428.631	98.1009	74.719	80.1	24.7	35.8	535.16	8.18617	225.693	0.065025
01:54:37 AM	93	50680 9	1210.64	287.819	1.01667	292.15	37.0658	48.9475	992.223	995.398	279.573	0.74683	3.09367	123.257	256.719	1.60986	25.1	61.8031	428.606	98.1	74.785	80.1	24.7	35.8	532.877	8.16768	225.373	0.1064
01:54:38 AM	93	50681 0	1211.07	287.038	1.01667	292.126	37.0612	48.9435	992.22	995.7	285.339	0.731578	3.11278	122.99	256.722	1.627	25.1	61.8006	428.601	97.9508	74.7972	80.1	24.7	35.8	530.592	8.16563	225.029	0.02956
01:54:39 AM	93	50681 1	1209.86	287.443	1.01667	292.107	37.055	48.925	992.222	995.7	284.612	0.7166	3.10055	122.982	256.477	1.59563	25.1	61.8001	428.6	97.9094	74.7995	80.1	24.7	35.8	528.322	8.17106	224.697	0.1064
01:54:40 AM	93	50681 2	1211.35	286.818	1.01667	292.107	37.0568	48.9429	992.222	995.398	295.255	0.752037	3.11125	122.872	256.07	1.61071	25.1	61.8	428.413	97.9017	74.7999	80.1	24.7	35.8	526.035	8.17162	224.42	0.02069
01:54:41 AM	93	50681 3	1209.74	287.295	1.01667	292.129	37.0483	48.9369	992.222	995.398	284.206	0.709048	3.10895	122.77	256.201	1.61361	25.1	61.6697	428.239	97.9003	74.8	80.1	24.7	35.8	523.788	8.17317	224.268	0.1064
01:54:42 AM	93	50681 4	1211.13	288.297	1.01666	292.156	37.0509	48.9271	992.223	995.7	279.487	0.794172	3.08374	122.563	255.448	1.61985	25.1	61.6129	428.207	97.9001	74.8	80.09	24.7	35.8	521.502	8.16563	224.213	0.1064
01:54:43 AM	93	50681 5	1211.02	286.935	1.01666	292.189	37.0419	48.915	992.223	995.398	289.878	0.935071	3.10972	121.862	256.019	1.58111	25.1	61.6024	428.201	97.9	74.8	80.0167	24.7	35.8	519.258	8.16811	224.187	0.05025
01:54:44 AM	93	50681 6	1210.96	287.489	1.01666	292.202	37.0394	48.925	992.224	995.398	292.6	0.722621	3.10284	121.943	255.589	1.5904	25.1	61.6004	428.2	97.9	74.8	80.0031	24.7794	35.8	516.959	8.19426	224.215	0.02069
01:54:45 AM	93	50681 7	1211.18	287.75	1.01666	292.199	37.0445	48.917	992.225	995.7	286.272	0.687798	3.11354	122.038	256.093	1.61034	25.1	61.6001	428.2	97.9	74.8	80.0006	24.7962	35.8	514.661	8.21023	224.289	0.1064
01:54:46 AM	93	50681 8	1210.73	288.731	1.01666	292.217	37.0674	48.9298	992.223	995.7	283.736	0.758142	3.07992	122.246	255.59243	1.63243	25.1	61.5656	427.882	97.9	74.8	80.0001	24.7993	35.8	512.363	8.18732	224.374	0.1064
01:54:47 AM	93	50681 9	1210.77	286.998	1.01667	292.251	37.0823	48.9361	992.225	995.7	286.53	0.85122	3.1143	121.96	255.774	1.58475	25.1	61.5122	427.815	97.9	74.8	80	24.7999	35.8	510.135	8.21915	224.501	0.02069
01:54:48 AM	93	50682 0	1208.6	287.807	1.01666	292.266	37.0859	48.9181	992.224	995.398	284.964	0.777961	3.1059	121.775	255.157	1.63312	25.1	61.5023	427.803	97.92	74.8	80	24.8	35.8	507.855	8.18393	224.647	0.1064
01:54:49 AM	93	50682 1	1208.93	287.158	1.01666	292.249	37.0718	48.9006	992.223	995.398	286.88	0.756555	3.10437	121.612	254.431	1.58792	25.1	61.5004	427.801	98.0666	74.8	80	24.8	35.8	505.575	8.17168	224.713	0.1064
01:54:50 AM	93	50682 2	1210.85	286.993	1.01665	292.215	37.0431	48.9969	992.225	995.398	286.663	0.722021	3.12118	121.516	254.531	1.5878	25.1	61.5001	427.8	98.0938	74.8	80	24.8	35.8	503.317	8.15781	224.74	0.1064
01:54:51 AM	93	50682 3	1210.32	286.866	1.01665	292.18	37.0121	48.8918	992.228	995.398	284.997	0.773897	3.12806	121.392	254.308	1.60421	25.1	61.5	427.458	98.0989	74.8	80	24.8	35.8	501.065	8.1657	224.688	0.153695

01:54:52 AM	93	50682 4	1210. 71	286. 902	1.01665	292.139	36.9987	48.9 023	992. 228	995.398	281.87	0.782 969	3.1211 8	121.7 78	254.77 6	1.59 95	25.1	61.3412	427.2 48	98.099 8	74.8	80	24.8	35.8	498.7 94	8.157 4	224. 575	0.124 138
01:54:53 AM	93	50682 5	1210. 89	287. 327	1.01664	292.119	37.0013	48.9 02	992. 229	995.398	292.326	0.813 357	3.1219 4	121.4 08	255.22	1.62 539	25.1	61.3076	427.2 09	98.1	74.8	80	24.8	35.8	496.4 58	8.170 39	224. 471	0.106 4
01:54:54 AM	93	50682 6	1211. 232	287. 232	1.01665	292.104	37.0014	48.9 06	992. 228	995.7	281.544	0.785 002	3.1219 4	121.0 83	254.52 6	1.62 47	25.1	61.3014	427.2 02	97.825 5	74.8	80	24.8	35.7 8	494.2 08	8.189 74	224. 379	0.106 4
01:54:55 AM	93	50682 7	1209. 01	287. 943	1.01665	292.1	37.0112	48.9 116	992. 228	995.398	288.636	0.732 256	3.1081 9	121.2 03	253.61 4	1.60 19	25.1	61.3003	427.2	97.723 3	74.8	80	24.8	35.6	491.9 54	8.166 42	224. 368	0.056 158
01:55:54 AM	93	50688 6	1020. 74	253. 987	1.01608	261.823	27.7964	48.8 857	992. 165	995.398	175.758	0.803 955	2.6367 7	119.4 68	228.93 6	1.51 589	24.9	55.9266	402.3 4	96.400 1	74.10 43	79.5	24.4 367	35.6 001	387.0 58	6.165 76	225. 95	0.106 4
01:55:55 AM	93	50688 7	1017. 85	260. 054	1.01608	261.708	27.7935	48.8 876	992. 17	995.398	176.69	0.878 618	2.5298	119.9 48	226.38 1	1.56 643	24.9	55.9049	402.3 07	96.345 8	74.18 23	79.5	24.4 068	35.6	385.3 03	6.133 72	225. 738	0.106 4
01:55:56 AM	93	50688 8	1019. 22	258. 833	1.01607	261.623	27.835	48.8 901	992. 175	995.398	167.707	0.871 309	2.5565 4	119.7 61	227.69 4	1.49 241	24.9	55.9009	402.3 01	96.227	74.19 67	79.5	24.4 013	35.6	383.5 42	6.160 86	225. 62	0.106 4
01:55:57 AM	93	50688 9	1019. 64	260. 867	1.01607	261.554	27.9033	48.8 905	992. 178	995.398	179.936	0.769 647	2.4954 1	119.8 48	224.80 4	1.57 96	24.9	55.9002	402.3	96.205	74.19 94	79.5	24.4 002	35.6	381.8 1	6.181 35	225. 357	0.106 4
01:55:58 AM	93	50689 0	1015. 08	255. 955	1.01607	261.545	27.9439	48.8 75	992. 172	995.398	178.672	0.868 617	2.5664 7	119.5 67	226.66 2	1.54 32	24.9	55.9	401.7 79	96.200 9	74.19 99	79.5	24.4	35.6	380.0 93	6.208 64	224. 929	0.065 025
01:55:59 AM	93	50689 1	1014. 44	256. 935	1.01607	261.527	27.9303	48.8 751	992. 17	995.398	186.954	0.616 646	2.5809 9	119.4 16	227.57 5	1.54 79	24.9	55.8206	401.5 52	96.200 2	74.2	79.5	24.4	35.6	378.3 61	6.230 88	224. 676	0.133 005
01:56:00 AM	93	50689 2	1015. 14	257. 344	1.01608	261.507	27.8661	48.8 878	992. 168	995.398	170.163	0.860 308	2.5733 5	119.4 8	227.09 1	1.47 355	24.9	55.8038	401.5 1	96.2	74.2	79.593 7	24.4	35.6	376.6 71	6.218 27	224. 847	0.106 4
01:56:01 AM	93	50689 3	1016. 05	255. 256	1.01608	261.511	27.7848	48.8 901	992. 169	995.398	176.524	0.880 001	2.6130 8	119.2 28	228.00 1	1.52 828	24.9	55.8007	401.5 02	96.125 4	74.2	79.680 3	24.4	35.6 271	374.9 73	6.183 22	225. 45	0.106 4
01:56:02 AM	93	50689 4	1014. 08	256. 508	1.01608	261.565	27.7594	48.8 906	992. 17	995.398	190.898	0.801 128	2.5901 6	118.9 62	226.55 9	1.52 935	24.9	55.8001	401.5	96.104 7	74.2	79.696 4	24.4	35.6 865	373.2 45	6.184 5	226. 24	0.162 562
01:56:03 AM	93	50689 5	1018. 47	257. 745	1.01608	261.57	27.7791	48.8 906	992. 167	995.398	179.404	0.734 689	2.5725 9	119.3 46	226.82 3	1.51 127	24.9	55.8	401.1 56	96.100 9	74.2	79.699 3	24.4	35.6 975	371.5 16	6.185 73	226. 768	0.106 4
01:56:04 AM	93	50689 6	1009. 2	258. 766	1.01607	261.523	27.7835	48.8 906	992. 174	995.398	179.963	0.780 592	2.5649 4	119.0 25	225.56 6	1.51 883	24.9	55.6162	400.6 22	96.100 2	74.2	79.699 9	24.4	35.6 995	369.8 06	6.169 83	226. 838	0.106 4
01:56:05 AM	93	50689 7	1016. 67	256. 218	1.01607	261.485	27.7729	48.8 907	992. 174	995.398	176.768	0.689 091	2.6176 7	118.3 31	227.27 9	1.49 536	24.9	55.5215	400.5 23	96.1	74.26 51	79.7	24.4	35.6 999	368.0 85	6.201 61	226. 618	0.106 4
01:56:06 AM	93	50689 8	1018. 45	257. 079	1.01607	261.536	27.8227	48.8 907	992. 176	995.398	166.92	0.839 895	2.6153 7	118.2 28	226.97 2	1.58 175	24.9	55.504	400.5 04	95.959 4	74.29 35	79.7	24.4	35.7	366.3 49	6.212 4	226. 326	0.029 56
01:56:07 AM	93	50689 9	1014. 44	258. 99	1.01608	261.626	27.8273	48.8 907	992. 17	995.398	172.69	0.684 865	2.5924 5	117.9 57	225.83 4	1.53 233	24.9	55.5007	400.5 01	95.829 5	74.29 88	79.7	24.4	35.7	364.6 49	6.167 44	226. 151	0.085 714
01:56:08 AM	93	50690 0	1015. 5	257. 483	1.01591	261.723	27.8638	48.8 973	992. 168	995.398	172.076	0.832 229	2.5832 8	118.6 27	226.31 4	1.56 819	24.843	55.5001	400.5	95.805 5	74.29 98	79.7	24.4	35.7	362.9 45	6.180 2	226. 054	0.106 4
01:56:09 AM	93	50690 1	1014. 41	258. 338	1.01579	261.787	27.8959	48.8 919	992. 166	995.398	166.031	1.032 9	2.5412 6	118.6 67	224.66 6	1.56 7	24.808	55.4181	399.8 06	95.801	74.3	79.7	24.4	35.7	361.2 45	6.162 07	225. 858	0.106 4
01:56:10 AM	93	50690 2	1013. 78	256. 456	1.01577	261.727	27.8811	48.8 909	992. 165	995.398	173.424	0.830 932	2.5649 4	118.4 25	225.86 7	1.48 878	24.8015	55.3219	399.6 38	95.800 2	74.36 88	79.7	24.4	35.7	359.5 67	6.158 65	225. 591	0.162 562
01:56:11 AM	93	50690 3	1012. 26	256. 584	1.01576	261.638	27.8684	48.8 907	992. 165	995.7	184.845	0.970 834	2.5695 3	118.0 83	224.96 6	1.57 577	24.8003	55.3041	399.6 07	95.79	74.47 57	79.7	24.3 43	35.7	357.8 48	6.173 46	225. 22	0.106 4
01:56:12 AM	93	50690 4	1018. 92	256. 436	1.01577	261.544	27.8201	48.8 932	992. 166	995.398	168.028	0.665 046	2.6092 6	117.5 79	226.38 6	1.48 261	24.8001	55.3008	399.6 01	95.716 7	74.49 55	79.7	24.3 08	35.5 594	356.1 14	6.187 06	225. 03	0.106 4
01:56:13 AM	93	50690 5	1018. 26	258. 339	1.01576	261.509	27.7898	48.9 029	992. 167	995.398	187.263	0.626 676	2.5817 5	117.6 99	226.25 1	1.57 406	24.8	55.3001	399.6	95.703 1	74.49 92	79.7	24.3 015	35.4 295	354.4 06	6.181 95	225. 057	0.106 4
01:56:14 AM	93	50690 6	1017. 55	260. 53	1.01577	261.503	27.7782	48.8 948	992. 165	995.398	187.755	0.702 362	2.5183 4	118.0 43	224.51 9	1.56 362	24.8	55.3	399.0 31	95.700 6	74.49 98	79.7	24.3 003	35.4 055	352.6 55	6.191 23	225. 319	0

01:56:15 AM	93	50690 7	1018.59	256.584	1.01577	261.568	27.822	48.9028	992.169	995.398	187.7	0.685295	2.58557	117.614	226.06	1.51372	24.8	55.0763	398.68	95.7001	74.5	79.7	24.3001	35.401	350.965	6.20056	225.667	0.1064
01:56:16 AM	93	50690 8	1022.51	257.116	1.01577	261.64	27.8578	48.9152	992.163	995.398	171.836	0.814273	2.5978	117.314	226.098	1.49092	24.8	55.0141	398.615	95.7	74.5	79.7688	24.3	35.4002	349.266	6.18127	225.846	0.124138
01:56:17 AM	93	50690 9	1021.03	254.596	1.01578	261.641	27.8748	48.9099	992.161	995.398	177.566	0.585364	2.62301	117.393	225.915	1.53567	24.8	55.0026	398.603	95.7	74.5	79.8757	24.3	35.43	347.527	6.1771	225.847	0.1064
01:56:18 AM	93	50691 0	1020.06	258.764	1.01578	261.591	27.8633	48.908	992.159	995.398	185.223	0.780004	2.57182	117.206	224.847	1.52561	24.8	55.0005	398.6	95.7	74.5	79.8955	24.3	35.65	345.829	6.20238	225.727	0.1064
01:56:19 AM	93	50691 1	1006.2	260.389	1.01577	261.526	27.8169	48.8939	992.162	995.398	172.984	0.843603	2.52521	117.73	223.239	1.47446	24.8	55.0001	398.41	95.7	74.5	79.8992	24.3	35.6907	344.131	6.18905	225.68	0.076847
01:56:20 AM	93	50691 2	1014.38	257.634	1.01576	261.48	27.7557	48.8912	992.167	995.7	182.294	0.758811	2.59322	117.002	224.598	1.51102	24.8	54.9478	397.75	95.7	74.5	79.8998	24.3	35.6983	342.383	6.18657	225.807	0.094581
01:56:21 AM	93	50691 3	1021.68	257.947	1.01577	261.41	27.7626	48.9045	992.163	995.398	174.323	0.865888	2.60315	116.816	225.379	1.50634	24.8	54.9089	397.628	95.7	74.5	79.9	24.3	35.6997	340.62	6.20961	226.109	0.026601
01:56:22 AM	93	50691 4	1026.72	257.614	1.0158	261.336	27.8068	48.9649	992.162	995.398	168.421	0.747539	2.6062	116.241	225.297	1.4966	24.8	54.9016	397.605	95.6187	74.5	79.9	24.3	35.6999	338.919	6.21388	226.361	0.1064
01:56:23 AM	93	50691 5	1022.77	257.764	1.01578	261.376	27.8954	48.9333	992.164	995.398	164.028	0.74915	2.58175	116.688	223.386	1.55569	24.8	54.9003	397.601	95.4405	74.5	79.9	24.3	35.5162	337.16	6.20895	226.424	0.133005
01:57:27 AM	109	50697 9	1608.91	274.728	1.01522	278.181	46.9748	49.0711	992.147	995.398	371.063	3.99223	4.28943	90.7452	285.97	1.53553	24.6	60.9968	411.897	95.0043	76.0942	80.1	24	35.7	172.636	10.2357	222.559	0.1064
01:57:28 AM	109	50698 0	1609.73	275.488	1.01522	278.256	47.0035	49.0733	992.15	995.398	370.687	3.89996	4.28484	91.1376	286.05	1.52198	24.6	60.9994	411.899	95.0823	76.0989	80.1	24	35.7746	169.775	10.2258	222.033	0.106404
01:57:29 AM	109	50698 1	1609.32	276.14	1.01522	278.37	47.0332	49.0682	992.148	995.398	366.348	3.79743	4.2856	91.6156	286.784	1.54309	24.6	60.9999	411.9	95.0967	76.0998	80.1	24	35.7953	166.909	10.2885	221.646	0.162562
01:57:30 AM	109	50698 2	1609.43	276.081	1.01522	278.525	47.0789	49.0727	992.145	995.398	376.334	3.7852	4.28408	91.4307	287.201	1.53463	24.6	61.0344	412.853	95.0994	76.1	80.1	24	35.7991	163.978	10.259	221.382	0.1064
01:57:31 AM	109	50698 3	1609.39	276.151	1.01523	278.718	47.1301	49.0736	992.143	995.398	376.732	3.86081	4.28179	91.4574	286.792	1.51356	24.6	61.0878	413.054	95.0999	76.1	80.1	24	35.7998	161.256	10.2536	221.201	0.026601
01:57:32 AM	109	50698 4	1608.84	276.092	1.01523	278.927	47.1806	49.0737	992.141	995.398	372.042	3.82935	4.28331	91.221	286.749	1.51997	24.6	61.0977	413.092	95.1	76.1	80.1	24	35.8	158.404	10.2125	221.054	0.1064
01:57:33 AM	109	50698 5	1608.52	276.051	1.01523	279.146	47.2178	49.0626	992.136	995.398	368.609	3.91187	4.27873	91.5466	285.578	1.52722	24.6	61.0996	413.098	95.1	76.1	80.1	24	35.8	155.535	10.2267	220.822	0.1064
01:57:34 AM	109	50698 6	1608.58	275.402	1.01524	279.348	47.2277	49.0668	992.133	995.398	368.793	3.85762	4.28102	91.2222	286.403	1.51374	24.6	61.0999	413.1	95.1	76.1	80.1	24	35.8	152.752	10.2467	220.526	0.1064
01:57:35 AM	109	50698 7	1608.62	275.052	1.01524	279.503	47.2066	49.0584	992.13	995.398	367.603	3.79495	4.28331	91.3217	287.209	1.50792	24.6	61.1	413.529	95.1	76.1	80.1	24	35.8	149.892	10.2668	220.3	0.1064
01:57:36 AM	109	50698 8	1608.39	275.634	1.01524	279.607	47.1712	49.0709	992.133	995.398	376.647	3.75042	4.27949	91.9737	286.498	1.51214	24.6	61.2542	413.75	95.1	76.1	80.1	24	35.8	147.037	10.2571	220.196	0.09754
01:57:37 AM	109	50698 9	1608.8	275.593	1.01525	279.69	47.1358	49.0732	992.127	995.398	372.257	3.82978	4.28484	92.194	287.052	1.50644	24.6	61.2915	413.791	95.1	75.9412	80.1	24	35.8	144.156	10.2688	220.317	0.1064
01:57:38 AM	109	50699 0	1608.51	275.547	1.01524	279.767	47.1134	49.0737	992.132	995.398	369.535	3.7973	4.27873	92.1161	286.305	1.51501	24.6	61.2984	413.798	95.1	75.9076	80.1	24	35.8	141.291	10.2918	220.585	0.01182
01:57:39 AM	109	50699 1	1608.52	275.264	1.01524	279.824	47.1073	49.0642	992.133	995.398	372.324	3.81357	4.28179	92.292	287.206	1.51424	24.6	61.2997	413.8	95.1	75.9014	80.1	24	35.8	138.455	10.2397	220.915	0.056158
01:57:40 AM	109	50699 2	1609.15	274.709	1.01546	279.862	47.1179	49.072	992.133	995.398	371.21	3.90631	4.28026	93.0268	287.295	1.51891	24.6718	61.2999	413.914	95.1	75.903	80.1	24	35.8	135.63	10.2148	221.118	0.1064
01:57:41 AM	109	50699 3	1609.39	274.721	1.01554	279.872	47.1139	49.0624	992.133	995.7	373.6	3.91572	4.28484	92.8989	287.295	1.5065	24.6948	61.4139	414.31	95.1	75.9	80.1	24	35.8	132.809	10.2101	221.147	0.1064
01:57:42 AM	109	50699 4	1609.2	274.597	1.01555	279.833	47.089	49.0653	992.135	995.171	368.464	3.94754	4.28637	92.5308	286.856	1.51525	24.699	61.484	414.383	95.1	76.0139	80.1	24	35.8	129.922	10.2503	221.03	0.05911

01:57:43 AM	109	50699 5	1609. 46	274. 453	1.01555	279.742	47.0559	49.0 722	992. 14	995.398	377.545	4.024 8	4.2894 3	92.19 3	286.59 2	1.51 064	24.6998	61.497	414.3 97	94.962 4	76.08 4	80.1	24	35.8	127.1 25	10.23 03	220. 852	0.106 4
01:57:44 AM	109	50699 6	1608. 88	274. 653	1.01554	279.624	47.025	49.0 735	992. 148	995.398	372.802	3.858 55	4.2810 2	92.41 53	287.19 5	1.51 74	24.7	61.4995	414.3 99	94.748 6	76.09 7	80.1	24	35.8	124.3 05	10.22 07	220. 758	0.106 4
01:57:45 AM	109	50699 7	1608. 67	274. 946	1.01552	279.501	46.9988	49.0 352	992. 15	995.398	369.577	3.749 57	4.2833 1	92.64 46	287.32 1	1.54 42	24.7	61.4999	414.4	94.709	76.09 94	80.1	24	35.8	121.3 55	10.23 9	220. 783	0.065 025
01:57:46 AM	109	50699 8	1608. 46	275. 128	1.01552	279.393	46.9937	49.0 555	992. 154	995.398	368.288	3.778 48	4.2764 4	92.45 84	286.85 2	1.52 851	24.7	61.5	414.6 74	94.701 7	76.09 99	80.1	24	35.8	118.5 63	10.24 99	220. 912	0.106 4
01:57:47 AM	109	50699 9	1608. 78	274. 785	1.01552	279.315	47.0022	49.0 535	992. 157	995.398	373.692	3.779 59	4.2817 9	92.62 72	286.56 1	1.51 921	24.7	61.5815	414.7 77	94.700 3	76.1	80.1	24	35.8	115.7 55	10.23 7	221. 036	0.106 4
01:57:48 AM	109	50700 0	1608. 35	274. 66	1.01552	279.269	47.0143	49.0 7	992. 159	995.398	368.722	3.699 08	4.2810 2	92.94 37	287.68 3	1.52 751	24.7	61.5966	414.7 96	94.700 1	76.1	80.204 3	24	35.8	112.8 89	10.22 17	221. 122	0.106 4
01:57:49 AM	109	50700 1	1608. 71	274. 519	1.01552	279.225	47.0206	49.0 676	992. 158	995.398	368.53	3.734 68	4.2772	93.36 24	287.95 5	1.51 84	24.7	61.5994	414.7 99	95.017 7	76.1	80.282 3	24	35.7 458	110.0 76	10.24 08	221. 14	0.106 4
01:57:50 AM	109	50700 2	1608. 58	274. 392	1.01553	279.162	47.0109	49.0 726	992. 156	995.398	371.078	3.795 9	4.2749 1	93.31 27	287.77 8	1.52 079	24.7	61.5999	414.8	95.084 7	76.1	80.296 7	24	35.6 27	107.2 25	10.26 2	221. 126	0.047 291
01:57:51 AM	109	50700 3	1608. 37	274. 226	1.01552	279.076	46.9838	49.0 51	992. 152	995.398	371.864	3.959 06	4.2772	93.73 16	287.38 7	1.52 908	24.7	61.6	414.9 64	95.097 2	76.1	80.299 4	24	35.6 05	104.3 63	10.25 41	221. 162	0.106 4
01:57:52 AM	109	50700 4	1608. 36	274. 2	1.01553	278.992	46.9555	49.0 696	992. 15	995.398	372.784	3.779 13	4.2779 6	93.81 25	288.40 9	1.52 843	24.7	61.7435	415.1 56	95.099 5	76.1	80.299 9	24	35.6 009	101.5 24	10.25 05	221. 274	0.153 695
01:57:53 AM	109	50700 5	1609. 08	274. 497	1.01554	278.912	46.9363	49.0 606	992. 143	995.398	372.685	3.737 11	4.2787 3	93.62 91	288.42 4	1.52 444	24.7	61.7895	415.1 92	95.099 9	76.1	80.3	24	35.6 002	98.62 97	10.23 44	221. 451	0.065 025
01:57:54 AM	109	50700 6	1608. 21	274. 602	1.01555	278.866	46.9294	49.0 611	992. 138	995.398	373.395	3.932 3	4.2794 9	93.92 25	288.66 7	1.51 726	24.7	61.7981	415.1 98	94.872 2	76.1	80.3	24	35.6	95.88 47	10.27 25	221. 634	0.106 4
01:57:55 AM	109	50700 7	1608. 33	274. 564	1.01554	278.848	46.9346	49.0 625	992. 143	995.171	374.758	3.813 02	4.2733 8	93.55 12	288.46 4	1.52 068	24.7	61.7996	415.2	94.731 9	76.1	80.3	24	35.6	93.02 91	10.25 61	221. 78	0.106 4
01:57:56 AM	109	50700 8	1608. 52	274. 414	1.01575	278.844	46.9551	49.0 59	992. 138	995.398	369.011	3.783 93	4.2779 6	93.83 37	290.12 8	1.52 348	24.7651	61.7999	415.2	94.705 9	76.1	80.3	24	35.6	90.16 87	10.26 97	221. 847	0.106 4
01:59:11 AM	109	50708 3	2020. 18	248. 836	1.01586	248.584	53.4322	48.9 583	992. 112	995.398	472.001	9.396 22	4.7891 2	79.18 53	352.09 9	1.49 522	24.8	68.0897	414.2 81	95.4	76.31 67	80	24.0 994	35.9	494.0 06	11.84 06	226. 555	0.106 4
01:59:12 AM	109	50708 4	2020. 01	248. 685	1.01586	248.812	53.4969	48.9 677	992. 111	995.7	470.764	9.537 06	4.7868 3	79.22 86	353.60 3	1.48 433	24.8	68.0981	414.2 96	95.623 7	76.30 31	80	24.0 999	35.8 81	490.6 74	11.87 06	225. 733	0.106 4
01:59:13 AM	109	50708 5	2019. 84	248. 751	1.01585	249.194	53.5015	48.9 582	992. 115	995.398	472.437	9.475 69	4.7799 5	79.72 38	351.46 1	1.51 025	24.8	68.0996	414.2 99	95.685 9	76.30 06	80	24.1	35.8 15	487.2 47	11.91 06	225. 248	0.079 8
01:59:14 AM	109	50708 6	2020. 08	248. 475	1.01584	249.704	53.4826	48.9 332	992. 116	995.398	474.743	9.507 85	4.7837 7	79.51 37	352.92 2	1.51 394	24.8	68.0999	414.6 44	95.697 4	76.30 01	80	24.1	35.8 028	483.9 86	11.92 82	225. 117	0.106 4
01:59:15 AM	109	50708 7	2020. 668	248. 668	1.01584	250.273	53.4592	48.9 522	992. 12	995.7	472.539	9.451 72	4.7891 2	79.54 23	353.95 4	1.50 478	24.8	68.3058	415.1 78	95.699 5	76.3	80	24.1 771	35.8 005	480.6 68	11.96 91	225. 341	0.050 25
01:59:16 AM	109	50708 8	2020. 2	249. 002	1.01584	250.865	53.4422	48.9 43	992. 121	995.7	480.226	9.586 95	4.7952 3	79.40 39	354.12 5	1.50 136	24.8	68.3826	415.2 77	95.699 9	76.3	80	24.1 958	35.8 001	477.3 3	12.02 04	225. 756	0.106 4
01:59:17 AM	109	50708 9	2019. 99	249. 249	1.01583	251.477	53.4427	48.9 032	992. 116	995.398	477.751	9.498 17	4.7860 6	79.44 49	355.12 6	1.48 534	24.8	68.3968	415.2 96	95.752 2	76.3	80.162 9	24.1 992	35.8	474.0 3	12.02 372	226. 372	0.106 4
01:59:18 AM	109	50709 0	2020. 04	249. 284	1.01584	252.082	53.4639	48.9 16	992. 111	995.398	472.865	9.595 74	4.7891 2	79.98 25	355.98 5	1.49 074	24.8	68.3994	415.2 99	95.791 1	76.3	80.193 1	24.1 999	35.8	470.7 5	11.98 66	227. 014	0.106 4
01:59:19 AM	109	50709 1	2019. 77	249. 214	1.01585	252.548	53.4978	48.9 15	992. 105	995.7	470.688	9.428 73	4.7845 4	81.00 07	355.22 1	1.49 432	24.8	68.3999	415.3	95.798 4	76.3	80.198 7	24.2	35.8	467.4 73	11.95 99	227. 511	0.106 4
01:59:20 AM	109	50709 2	2019. 91	248. 997	1.01584	252.784	53.5263	48.8 991	992. 104	995.398	469.403	9.444 41	4.7875 9	80.81 95	353.97 3	1.51 993	24.8	68.4542	415.7 63	95.799 7	76.3	80.199 8	24.2	35.8	464.0 77	11.99 34	227. 74	0.106 4

01:59:21 AM	109	50709 3	2020. 04	249. 193	1.01584	252.87	53.5409	48.8 922	992. 107	995.398	473.695	9.566 87	4.7776 6	81.23 21	354.66 4	1.51 544	24.8	68.573	415.8 75	95.799 9	76.34 1	80.2	24.2	35.8	460.8 06	12.02 58	227. 744	0.038 424
01:59:22 AM	109	50709 4	2019. 97	249. 234	1.01584	252.896	53.5413	48.9 066	992. 11	995.7	477.055	9.615 81	4.7853	81.24 73	354.98 6	1.51 231	24.8	68.595	415.8 95	95.83	76.38 91	80.2	24.2	35.8	457.4 92	11.99 46	227. 646	0.106 4
01:59:23 AM	109	50709 5	2019. 96	249. 123	1.01584	252.909	53.5373	48.9 11	992. 11	995.398	475.958	9.456 99	4.7799 5	81.17 47	352.95 4	1.51 161	24.8	68.5991	415.8 99	96.05	76.39 8	80.2	24.2	35.8	454.0 78	11.96 96	227. 559	0.038 424
01:59:24 AM	109	50709 6	2019. 28	249. 383	1.01583	252.924	53.5364	48.8 963	992. 112	995.398	475.258	9.643 93	4.7830 1	82.02 06	354.64 9	1.51 823	24.8	68.5998	415.9	96.090 7	76.39 96	80.2	24.2	35.8	450.7 19	11.99 61	227. 558	0.106 4
01:59:25 AM	109	50709 7	2019. 12	249. 508	1.01583	252.954	53.5397	48.9 008	992. 115	995.398	475.306	9.504 41	4.7807 1	81.29 35	354.10 1	1.50 342	24.8	68.6	416.1 61	96.098 3	76.39 99	80.2	24.2	35.8	447.4 77	12.01 46	227. 589	0.029 56
01:59:26 AM	109	50709 8	2018. 6	249. 698	1.01584	253.006	53.551	48.9 014	992. 111	995.7	467.042	9.579 98	4.7837 7	81.56 29	354.93 7	1.50 176	24.8	68.8314	416.3 56	96.099 7	76.4	80.2	24.2	35.8	444.1 87	11.94 75	227. 569	0.065 025
01:59:27 AM	109	50709 9	2018. 5	249. 63	1.01584	253.08	53.5646	48.9 053	992. 114	995.7	473.445	9.456 4	4.7784 2	82.07 42	354.89 8	1.49 402	24.8	68.8873	416.3 92	96.099 9	76.16 86	80.2	24.2	35.8	440.9 05	11.93 51	227. 474	0.088 67
01:59:28 AM	109	50710 0	2018. 47	249. 036	1.01584	253.157	53.5759	48.8 969	992. 109	995.398	470.802	9.471 18	4.7784 2	81.91 01	354.83 2	1.50 115	24.8	68.8976	416.3 98	96.1	76.11 27	80.2	24.3	35.8	437.6 06	11.90 93	227. 273	0.017 734
01:59:29 AM	109	50710 1	2018. 66	248. 834	1.01583	253.206	53.5705	48.8 918	992. 114	995.398	472.421	9.408 68	4.7784 2	81.52 96	355.03 3	1.49 404	24.8	68.8996	416.4	96.1	76.10 24	80.2	24.3	35.7	434.2 76	11.94 34	226. 975	0.133 005
01:59:30 AM	109	50710 2	2018. 94	248. 858	1.01583	253.211	53.5434	48.9 071	992. 119	995.7	472.498	9.502 89	4.7814 8	81.45 32	354.57 3	1.49 202	24.8	68.8999	416.4 3	96.1	76.10 04	80.2	24.3	35.7	431.0 17	11.91 3	226. 681	0.038 424
01:59:31 AM	109	50710 3	2018. 36	248. 964	1.01582	253.191	53.507	48.8 977	992. 122	995.7	475.122	9.612 88	4.7791 9	81.31 68	354.07 2	1.49 18	24.8	68.9522	416.6 5	96.1	76.10 01	80.2	24.3	35.7	427.6 64	11.92 74	226. 467	0.106 404
01:59:32 AM	109	50710 4	2019. 49	248. 615	1.01583	253.161	53.4758	48.9 046	992. 121	995.398	477	9.594 81	4.7814 8	81.04 19	355.60 3	1.51 121	24.8	68.9911	416.6 91	96.1	76.1	80.2	24.3	35.7	424.3 17	11.96 24	226. 385	0.124 138
01:59:33 AM	109	50710 5	2020. 11	248. 666	1.01583	253.129	53.4597	48.9 037	992. 119	995.7	477.007	9.526 05	4.7822 4	81.54 06	355.84 2	1.50 152	24.8	68.9984	416.6 98	96.1	76.1	80.045 8	24.3	35.7	421.0 56	11.99 38	226. 496	0.106 4
01:59:34 AM	109	50710 6	2020. 24	248. 698	1.01583	253.093	53.4536	48.9 058	992. 12	995.398	471.456	9.493 04	4.7769	81.01 84	355.50 8	1.51 043	24.8	68.9997	416.7	96.1	76.1	80.008 5	24.3	35.7	417.7 2	11.95 54	226. 726	0.076 847
01:59:35 AM	109	50710 7	2020. 06	249. 046	1.01583	253.06	53.4532	48.9 027	992. 116	995.7	466.902	9.409 7	4.7799 5	81.77 68	354.72 3	1.50 214	24.8	68.9999	416.7	96.1	76.1	80.001 6	24.2	35.7	414.4 59	11.90 83	226. 974	0.106 4
01:59:36 AM	109	50710 8	2019. 76	248. 692	1.01583	253.031	53.4544	48.8 929	992. 112	995.7	472.104	9.451 27	4.7784 2	82.38 55	355.38 9	1.52 561	24.8	69	416.7 69	96.1	76.1	80.000 3	24.2	35.7	410.9 66	11.94 56	227. 141	0.026 601
01:59:37 AM	109	50710 9	2019. 6	248. 287	1.01584	252.996	53.4545	48.8 978	992. 11	995.7	474.101	9.484 77	4.7769	82.52 6	356.13 1	1.49 869	24.8	69	416.7 94	96.1	76.15 7	80.000 1	24.2	35.7	407.7 47	11.96 99	227. 188	0.088 67
01:59:38 AM	109	50710 0	2019. 69	248. 004	1.01583	252.933	53.4446	48.8 92	992. 11	995.398	472.939	9.454 8	4.7807 1	82.52 5	356.01 6	1.50 303	24.8	69	416.7 99	96.1	76.35 5	80	24.2	35.7	404.4 04	12.00 32	227. 139	0.106 4
01:59:39 AM	109	50711 1	2020. 84	248. 106	1.01583	252.827	53.4105	48.8 909	992. 108	995.398	469.25	9.501 59	4.7776 6	82.35 96	357.05 6	1.50 632	24.8	69	416.8	96.1	76.39 17	80	24.2	35.7	401.0 45	12.01 76	227. 163	0.106 4
01:59:40 AM	109	50711 2	2020. 15	248. 008	1.01584	252.706	53.3716	48.8 907	992. 107	995.398	471.536	9.450 56	4.7715 5	82.40 65	357.86 5	1.50 97	24.8	69	416.8	96.1	76.39 85	80	24.2	35.7	397.7 17	12.03 21	227. 411	0.038 424
02:02:33 AM	109	50728 5	2412. 28	156. 448	1.01586	157.54	39.9916	48.8 537	992. 074	995.7	453.665	3.257 16	5.1925 4	58.02	430.57 2	1.53 216	24.7988	65.6149	344.5 93	96.900 1	77.3	79.900 1	24.8	35.8	563.3 84	10.51 03	258. 955	0.056 158
02:02:34 AM	109	50728 6	2412. 98	156. 105	1.01587	157.723	39.9352	48.8 784	992. 074	995.7	454.244	3.261 51	5.1978 9	58.65 7	432.41 7	1.53 385	24.7998	65.6842	344.6 8	96.862	77.3	79.968 6	24.8	35.8	560.4 19	10.52 92	264. 838	0.056 158
02:02:35 AM	109	50728 7	2410. 9	156. 459	1.01587	157.903	39.9421	48.8 67	992. 073	995.7	453.453	3.278 35	5.1917 8	58.58 71	432.19 1	1.54 19	24.8	65.6971	344.6 96	96.73	77.3	79.994 2	24.8	35.8	557.4 19	10.58 83	266. 211	0.106 404
02:02:36 AM	109	50728 8	2411. 66	155. 174	1.01578	158.036	39.9862	48.8 779	992. 071	995.7	450.376	3.232 8	5.1925 4	58.71 97	429.67 3	1.53 614	24.762	65.6995	344.6 99	96.705 6	77.3	79.998 9	24.8	35.8	554.5 45	10.58 57	266. 968	0.097 54
02:02:37 AM	109	50728 9	2413. 72	155. 942	1.01534	158.09	40.0121	48.8 606	992. 069	995.7	447.246	3.326 66	5.1902 5	59.05 96	431.99 8	1.53 084	24.63	65.6999	345.6 19	96.701	77.3	79.999 8	24.8	35.8	551.7 75	10.53 43	267. 485	0.106 4
02:02:38 AM	109	50729 0	2412. 57	155. 985	1.01526	158.134	40.0074	48.8 567	992. 069	995.398	451.045	3.260 99	5.1879 6	59.00 42	430.55 7	1.52 78	24.6056	65.8542	346.0 92	96.700 2	77.3	80	24.9	35.8	548.8 69	10.48 05	267. 757	0.047 291

02:02:39 AM	109	50729 1	2412. 61	156. 448	1.01524	158.21	39.9836	48.8 516	992. 069	995.398	455.781	3.255 43	5.1917 8	58.57 56	432.22 4	1.51 341	24.601	65.8915	346.1 8	96.7	77.37 94	80	24.9	35.8 001	546.0 37	10.51 67	267. 834	0.192 118
02:02:40 AM	109	50729 2	2413. 67	157. 621	1.01524	158.306	40.0005	48.8 638	992. 069	995.7	456.355	3.322 15	5.1833 7	58.74 25	432.37 7	1.52 072	24.6002	65.8984	346.1 96	96.830 3	77.39 62	80	24.9	35.7 9	543.0 96	10.52 01	267. 668	0.106 4
02:02:41 AM	109	50729 3	2414. 74	157. 952	1.01523	158.41	40.0815	48.8 576	992. 069	995.7	455.305	3.448 31	5.1856 7	60.00 31	431.80 3	1.52 618	24.6	65.8997	346.1 99	96.887 1	77.39 93	80	24.9	35.7 167	540.1 39	10.51 46	267. 275	0.050 25
02:02:42 AM	109	50729 4	2411. 88	157. 868	1.01524	158.529	40.2117	48.8 731	992. 069	995.7	459.705	3.508 64	5.1879 6	61.10 49	432.08 8	1.52 893	24.6	65.8999	346.6 75	96.897 6	77.39 99	80	24.9	35.7 031	537.1 74	10.54 53	266. 739	0.106 4
02:02:43 AM	109	50729 5	2411. 16	156. 499	1.01524	158.651	40.3312	48.8 723	992. 068	995.7	451.213	3.512 17	5.1810 8	59.83 48	433.16 8	1.51 695	24.6	66.0708	348.3 25	96.899 6	77.4	80	24.9	35.7 006	534.3 48	10.52 63	266. 109	0.106 4
02:02:44 AM	109	50729 6	2412. 36	156. 16	1.01524	158.754	40.3816	48.8 675	992. 068	995.7	447.368	3.365 76	5.1971 3	61.45 82	432.26 6	1.52 52	24.6	66.1761	348.6 3	96.899 9	77.4	80	24.9	35.7 001	531.4 42	10.48 99	265. 48	0.038 424
02:02:45 AM	109	50729 7	2411. 07	157. 193	1.01525	158.854	40.338	48.8 864	992. 068	995.7	455.705	3.296 74	5.1841 4	60.48 96	433.75 8	1.52 103	24.6	66.1956	348.6 87	96.796 8	77.4	80.158 8	24.9 686	35.7	528.5 09	10.45 62	264. 999	0.106 4
02:02:46 AM	109	50729 8	2411. 84	157. 928	1.01523	158.967	40.2713	48.8 526	992. 068	995.398	460.457	3.237 88	5.1933 1	61.20 22	432.81 4	1.52 028	24.6	66.1992	348.6 98	96.636 5	77.4	80.192 4	24.9 42	35.7 613	525.6 53	10.43 15	264. 731	0.106 4
02:02:47 AM	109	50729 9	2410. 22	157. 332	1.01552	159.087	40.262	48.8 399	992. 068	995.398	455.926	3.118 58	5.1826 1	61.48 32	432.42 3	1.52 131	24.6937	66.1998	348.7	96.606 8	77.4	80.198 6	24.9 422	35.7 928	522.7 15	10.46 46	264. 468	0.133 005
02:02:48 AM	109	50730 0	2415. 14	156. 771	1.0158	159.183	40.3021	48.8 429	992. 068	995.7	453.557	3.624 59	5.1902 5	60.75 38	433.25 7	1.52 339	24.7803	66.2	349.6 61	96.601 2	77.4	80.199 7	24.9 893	35.7 987	519.7 57	10.53 69	264. 224	0.059 11
02:02:49 AM	109	50730 1	2413. 8	158. 015	1.01586	159.285	40.3641	48.8 636	992. 068	995.7	451.786	3.528 21	5.1757 3	62.04 19	432.87 6	1.52 638	24.7964	66.7703	350.0 19	96.600 2	77.43 8	80.2	24.9 98	35.7 998	516.8 24	10.56 04	264. 015	0.017 734
02:02:50 AM	109	50730 2	2412. 1	157. 942	1.01587	159.425	40.3965	48.8 671	992. 068	995.7	453.263	3.484 03	5.1757 3	62.28 23	434.14 6	1.52 888	24.7993	66.876	350.0 85	96.6	77.57	80.252 2	24.9 996	35.8	513.9 06	10.54 19	263. 935	0.056 158
02:02:51 AM	109	50730 3	2410. 89	156. 546	1.01587	159.592	40.4068	48.8 586	992. 068	995.7	456.24	3.289	5.1803 2	61.48 79	433.39 3	1.52 82	24.7999	66.8955	350.0 97	96.677 1	77.59 44	80.291 1	24.9 999	35.7 729	511.0 18	10.53 51	264. 131	0.106 4
02:02:52 AM	109	50730 4	2410. 68	157. 032	1.01588	159.695	40.3903	48.8 593	992. 068	995.7	451.825	3.248 37	5.1765	61.41 37	433.04 4	1.52 757	24.8	66.8992	350.0 99	96.695 8	77.59 9	80.298 4	25	35.7 135	508.1 28	10.52 01	264. 513	0.085 714
02:02:53 AM	109	50730 5	2409. 92	156. 66	1.01561	159.732	40.3473	48.8 451	992. 068	995.7	456.2	3.404 91	5.1803 2	61.79 31	434.53 1	1.51 695	24.7185	66.8998	350.5 09	96.699 2	77.59 98	80.299 7	25	35.7 025	505.3 22	10.48 56	264. 832	0.047 291
02:02:54 AM	109	50730 6	2409. 58	157. 31	1.01556	159.699	40.3005	48.8 494	992. 068	995.7	452.223	3.239 08	5.1696 2	62.05 96	433.28 2	1.52 62	24.7034	67.0302	350.9 91	96.699 9	77.6	80.299 9	25	35.7 005	502.3 83	10.45 55	264. 992	0.079 8
02:02:55 AM	109	50730 7	2410. 05	156. 308	1.01555	159.628	40.249	48.8 404	992. 068	995.398	449.426	3.475 08	5.1803 2	61.98 87	433.36 2	1.52 662	24.7006	67.0871	351.0 8	96.7	77.6	80.3	25	35.7 001	499.5 02	10.50 14	264. 958	0.097 54
02:02:56 AM	109	50730 8	2412. 8	155. 907	1.01555	159.552	40.2104	48.8 547	992. 066	995.7	453.949	3.445 8	5.1810 8	62.32 66	435.88 9	1.52 077	24.7001	67.0976	351.0 96	96.908 7	77.6	80.3	25	35.7	496.6 86	10.47 47	264. 84	0
02:02:57 AM	109	50730 9	2412. 96	157. 37	1.01556	159.511	40.183	48.8 648	992. 066	995.7	454.752	3.672 64	5.1749 7	63.09 09	434.52 4	1.51 884	24.7	67.0996	351.0 99	97.064 5	77.6	80.3	25	35.7	493.7 73	10.45 21	264. 747	0.059 11
02:02:58 AM	109	50731 0	2413. 49	157. 884	1.01555	159.523	40.1736	48.8 374	992. 066	995.7	452.767	3.656 23	5.1810 8	62.57 16	435.34	1.51 292	24.7	67.0999	351.1	97.093 4	77.6	80.3	25	35.7	490.8 75	10.44 24	264. 711	0.106 4
02:02:59 AM	109	50731 1	2393. 32	150. 853	1.01555	159.547	40.1876	48.8 409	992. 066	995.7	432.071	3.643 86	5.1642 7	64.38 93	428.46 4	1.50 863	24.7	67.1819	351.9 96	97.098 8	77.6	80.3	25	35.7	488.0 29	10.44 58	264. 615	0.106 4
02:03:00 AM	109	50731 2	2369. 43	103. 083	1.01554	159.029	39.6708	48.8 244	992. 066	995.7	363.263	5.862 7	5.1795 5	66.20 46	426.22 1	1.50 877	24.7	67.2781	352.1 62	97.099 8	77.51 81	80.3	25	35.7	485.8 22	10.33 79	264. 779	0.106 4
02:03:01 AM	109	50731 3	2318. 37	58.8 508	1.01554	156.49	37.5022	48.8 213	992. 066	995.7	280.595	5.526 71	5.1023 8	71.44 25	417.05	1.49 811	24.7	67.2959	352.1 93	97.12	77.42 19	80.443 5	25.0 771	35.7	484.3 47	9.981 22	267. 044	0.115 271
02:03:02 AM	109	50731 4	2205. 56	27.5 316	1.01554	150.761	32.3424	48.8 17	992. 066	995.7	197.528	2.373 64	5.0091 7	80.40 29	397.95 2	1.48 897	24.7	67.2992	352.1 99	97.266 6	77.40 41	80.489 5	25.0 958	35.7	483.5 01	9.366 16	276. 625	0.088 67

APPENDIX AG: RAW DATA – BDW30 BLEND AT 20°BTDC

Manual Log Description : Power Curve on 70% base diesel and 30% waste cooking oil with 20° timing
 Manual Log Start Date : 2012/03/08
 Manual Log Start Time : 02:24:45 AM

TIME	mSec	Eng_Time	Speed	Torque	~ECE_Corr_Factor	~Torque_Corr	~Power_Corr	Humidity	~P_Baro	P_Pre_Co mpressor	P_Post_Co mpressor	P_Exhaust	P_Oil_Filter	P_Cool_In	P_Cool_Out	P_Fuel	T_Air_In_Snorkel	T_Post_Co mpressor	T_Exhaust	T_Oil_Sump	T_Cool_In	T_Cool_Out	T_Fuel	T_Cell	Fuel_Mass	Fuel_Flow	~SFC	Smoke
02:24:47 AM	859	549828	2610.02	279.023	1.01405	282.625	77.2776	45.0758	993.34	995.926	902.901	10.4261	5.05654	39.0242	448.953	1.41236	25.2	103.62	472.927	104.299	75.6307	80.5018	25.9902	35.4	500.73	17.2301	226.62	0.1064
02:24:48 AM	843	549831	2610.27	278.254	1.01405	282.687	77.2945	45.0698	993.34	995.926	908.509	10.3859	5.0489	38.3801	450.52	1.40788	25.2	103.767	472.986	104.423	75.8501	80.6495	25.9982	35.4	489.561	17.2401	226.618	0.017734
02:24:49 AM	843	549832	2610.2	278.922	1.01405	282.728	77.2996	45.0747	993.34	995.926	909.222	10.3297	5.04814	37.1224	449.775	1.4057	25.2	103.794	472.997	104.567	75.8908	80.6906	25.9997	35.4	483.548	17.2603	226.545	0.085714
02:24:50 AM	843	549833	2609.87	278.904	1.01405	282.743	77.2944	45.0756	993.34	995.926	905.5	10.4559	5.04355	37.462	452.776	1.40869	25.2	103.799	473	104.594	75.8983	80.6983	25.9999	35.4	478.546	17.2662	226.446	0.106404
02:24:51 AM	843	549834	2610.41	278.818	1.01405	282.754	77.2865	45.0732	993.345	995.926	900.287	10.4377	5.04814	39.9215	451.123	1.40717	25.2	103.81	473	104.599	75.8997	80.6997	26	35.4	473.726	17.2672	226.369	0.1064
02:24:52 AM	843	549835	2609.87	278.93	1.01404	282.769	77.2802	45.0661	993.346	995.926	904.158	10.3875	5.04508	40.0842	450.477	1.41284	25.2	103.883	473	104.6	75.9399	80.6999	25.9206	35.4	469.02	17.2205	226.346	0.1064
02:24:53 AM	843	549836	2609.97	278.493	1.01404	282.763	77.2787	45.074	993.349	995.926	904.571	10.3474	5.04126	40.9837	449.22	1.41199	25.2	103.897	473	104.6	76.2333	80.8708	25.9038	35.4	464.205	17.1578	226.356	0.1064
02:24:54 AM	859	549837	2610.02	278.701	1.01403	282.727	77.2754	45.057	993.352	995.926	900.586	10.4852	5.04355	40.9489	451.524	1.40984	25.2	103.899	473	104.6	76.2876	80.9761	25.9007	35.4	459.438	17.1479	226.293	0.01182
02:24:55 AM	843	549838	2609.78	278.585	1.01403	282.688	77.2592	45.0723	993.354	995.926	901.177	10.5224	5.0489	40.5738	450.108	1.40598	25.2	103.9	473	104.6	76.2977	80.9956	25.9001	35.4	454.767	17.0856	226.093	0.02956
02:24:56 AM	843	549839	2610.29	278.549	1.01403	282.661	77.2383	45.0752	993.356	995.7	903.869	10.3903	5.04966	40.7395	450.225	1.40011	25.2	103.9	473.047	104.6	76.2996	80.9992	25.91	35.4	450.008	17.1235	225.728	0.026601
02:24:57 AM	843	549840	2609.96	278.648	1.01403	282.631	77.2266	45.0665	993.356	995.7	902.34	10.5048	5.04202	40.6749	452.172	1.4009	25.2	104.037	473.09	104.6	76.2999	80.9998	25.9833	35.4	445.206	17.1542	225.366	0.047291
02:24:58 AM	843	549841	2609.86	278.376	1.01403	282.592	77.2188	45.0574	993.354	996.153	898.858	10.3775	5.04049	40.6837	450.208	1.399	25.2	104.088	473.098	104.6	75.9569	80.97	25.9969	35.4	440.405	17.1349	225.084	0.221675
02:24:59 AM	843	549842	2609.91	277.91	1.01403	282.539	77.212	45.0724	993.357	995.926	897.327	10.373	5.03667	42.0441	452.809	1.40746	25.2	104.098	473.1	104.771	75.8291	80.75	25.9994	35.4	435.534	17.171	224.918	0.1064
02:25:00 AM	843	549843	2610.15	277.875	1.01403	282.457	77.1841	45.0752	993.356	995.926	899.023	10.4003	5.0489	41.5487	453.109	1.41541	25.2	104.1	473.1	104.876	75.8054	80.7093	25.9999	35.4	430.762	17.1997	224.993	0.1064
02:25:01 AM	859	549844	2610	278.261	1.01404	282.352	77.1426	45.0757	993.354	995.926	896.799	10.4072	5.05043	41.4571	450.302	1.42083	25.2	104.1	473.1	104.896	75.801	80.7017	26.0344	35.4	426.049	17.1857	225.172	0.1064
02:25:02 AM	843	549845	2609.79	277.95	1.01404	282.262	77.0995	45.0709	993.353	995.926	903.686	10.474	5.03591	41.2008	451.339	1.42443	25.2	104.1	472.941	104.899	75.8002	80.7003	26.0878	35.4	421.283	17.2308	225.433	0.076847
02:25:03 AM	843	549846	2609.93	277.879	1.01403	282.175	77.0681	45.0655	993.352	995.7	902.912	10.3233	5.04737	40.849	452.338	1.42177	25.2	104.1	472.908	104.9	75.6772	80.7001	26.0977	35.4	416.536	17.2883	225.805	0.0798
02:25:04 AM	843	549847	2609.98	277.979	1.01403	282.071	77.0525	45.0639	993.352	995.926	901.623	10.2301	5.04355	41.064	450.844	1.41587	25.2	104.1	472.901	104.9	75.5328	80.4255	26.0996	35.4	411.801	17.3125	226.173	0.05911
02:25:05 AM	843	549848	2609.82	277.569	1.01403	281.958	77.0409	45.0495	993.35	995.926	898.253	10.2543	5.04432	41.5639	451.465	1.40715	25.2	104.1	472.9	105.47	75.5061	80.3233	26.0999	35.3478	407.088	17.2582	226.555	0.1064

02:25:06 AM	843	54984 9	2609. 95	277. 784	1.01404	281.878	77.0235	45.06 49	993. 35	995.926	899.251	10.39 78	5.0397 3	39.88 41	452.00 5	1.40 987	25.2	104.1	472.9	105.57 6	75.50 11	80.304 3	26.1	35.3 089	402.1 88	17.26 58	226. 946	0.106 4
02:25:07 AM	843	54985 0	2610. 02	277. 748	1.01404	281.828	77.004	45.06 75	993. 35	995.926	901.814	10.45 44	5.0328 5	40.48 16	450.16 7	1.41 137	25.2	104.1	472.9	105.59 6	75.50 02	80.300 8	26.1	35.3 016	397.4 94	17.23 19	227. 225	0.026 601
02:25:08 AM	859	54985 1	2609. 88	277. 488	1.01404	281.779	76.989	45.06 16	993. 348	995.7	898.646	10.46 49	5.0550 1	40.42 13	449.69 979	1.41 979	25.2	104.1	472.9	105.59 9	75.5	80.300 1	26.1	35.3 003	392.7 71	17.20 34	227. 342	0.065 025
02:25:09 AM	843	54985 2	2610. 39	277. 9	1.01403	281.712	76.9754	45.03 35	993. 348	995.926	905.463	10.46 66	5.0343 8	39.23 84	451.05 7	1.42 974	25.2	104.1	472.9	105.6	75.65 43	80.341	26.1	35.3 001	387.9 58	17.19 69	227. 301	0.115 271
02:25:10 AM	843	54985 3	2610. 13	277. 763	1.01403	281.654	76.9667	45.04 64	993. 35	995.926	908.561	10.48 84	5.0290 3	39.67 27	451.44 1	1.42 282	25.2	104.1	472.9	105.33 9	75.69 15	80.389 1	26.1	35.3	383.2 17	17.16 23	227. 134	0.106 4
02:25:11 AM	843	54985 4	2609. 97	277. 635	1.01403	281.621	76.9638	45.04 56	993. 35	995.926	905.176	10.33 95	5.0336 2	41.03 68	451.82 2	1.42 407	25.2	104.1	472.9	105.22 6	75.69 84	80.398	26.1	35.3	378.3 37	17.15 4	226. 887	0.106 4
02:25:12 AM	843	54985 5	2609. 79	277. 313	1.01403	281.603	76.9605	45.04 03	993. 35	995.926	899.106	10.25 22	5.0412 6	39.70 14	450.84 268	1.42 268	25.2	104.1	472.8 19	105.20 5	75.69 97	80.399 6	26.1 92	35.3	373.6 98	17.15 25	226. 654	0.106 4
02:25:13 AM	843	54985 6	2609. 8	277. 482	1.01403	281.563	76.9492	45.05 15	993. 353	995.926	897.819	10.37 81	5.0298	40.43 91	450.01 1	1.41 89	25.2	104.1	472.6 41	105.20 1	75.69 99	80.399 9	26.1 985	35.3	368.9 41	17.11 6	226. 42	0.056 158
02:25:14 AM	843	54985 7	2609. 83	277. 09	1.01403	281.512	76.9286	45.04 4	993. 353	995.926	895.883	10.50 26	5.0435 5	40.64 3	451.76 8	1.42 72	25.2	104.1	472.6 08	105.2	75.75 69	80.4	26.1 997	35.3	364.2 68	17.11 84	226. 204	0.079 8
02:25:15 AM	843	54985 8	2609. 63	276. 978	1.01403	281.453	76.8973	45.06 99	993. 353	995.926	903.55	10.42 15	5.0420 2	41.26 82	450.21 4	1.42 687	25.2	104.1	472.6 01	105.2	75.79 2	80.477 1	26.1 999	35.3	359.4 64	17.12 71	226. 048	0.008 867
02:25:16 AM	843	54985 9	2609. 94	276. 616	1.01403	281.366	76.8575	45.04 99	993. 352	995.926	901.756	10.60 81	5.0290 3	41.33 86	450.65 2	1.42 703	25.2	104.1	472.6	105.2	75.79 85	80.495 8	26.2	35.3	354.7 97	17.15 45	225. 96	0.106 4
02:26:25 AM	843	54992 8	2406. 25	288. 84	1.01281	292.398	73.6648	45.07 81	993. 343	996.153	805.807	8.568 38	4.8976 2	67.91 46	422.26 3	1.36 772	24.8	98.6	467.9 01	107.13 8	75.2	80	26.8 408	35.3	391.5 92	15.94 91	218. 322	0.133 005
02:26:26 AM	843	54992 9	2406. 33	289. 028	1.01281	292.401	73.6633	45.07 63	993. 343	995.926	802.81	8.668 98	4.8983 8	67.44 46	423.62 6	1.37 197	24.8	98.6	467.9	107.27	75.2	80	26.8 89	35.3	387.0 85	15.96 59	218. 551	0.065 025
02:26:27 AM	843	54993 0	2406. 61	289. 027	1.01282	292.42	73.6816	45.08 4	993. 341	995.926	807.384	8.637 75	4.9044 9	68.14 91	424.06 2	1.37 453	24.8	98.6	467.9	107.29 4	75.2	80	26.8 98	35.3	382.6 75	15.96 9	218. 752	0.106 4
02:26:28 AM	843	54993 1	2406. 41	288. 876	1.01281	292.461	73.7141	45.07 74	993. 345	995.926	803.466	8.837 95	4.9014 4	68.30 33	423.25 2	1.37 128	24.8	98.6	467.8 43	107.29 9	75.2	80	26.8 996	35.3	378.3 08	15.99 59	218. 962	0.047 291
02:26:29 AM	843	54993 2	2406. 2	289. 059	1.01281	292.506	73.7411	45.08 61	993. 346	995.926	803.537	8.740 12	4.8930 3	68.22 87	422.77 6	1.37 351	24.8	98.4412	467.8 08	107.3	75.2	80	26.9 717	35.3	373.9	15.95 83	219. 158	0.017 734
02:26:30 AM	843	54993 3	2406	288. 894	1.01281	292.566	73.7549	45.07 77	993. 346	995.926	801.662	8.563 34	4.9006 7	69.86 92	423.39 7	1.37 333	24.8	98.4076	467.8 01	107.3	75.2	80	26.9 378	35.3	369.4 35	15.89 87	219. 273	0.106 4
02:26:31 AM	843	54993 4	2405. 85	288. 636	1.01281	292.615	73.7504	45.09 31	993. 347	995.926	794.261	8.521 34	4.9037 3	70.38 69	423.50 3	1.37 018	24.8	98.4014	467.8	106.79 8	75.2	80	26.9 48	35.2 9	365.1 25	15.90 09	219. 268	0.124 138
02:26:32 AM	843	54993 5	2406. 32	288. 185	1.01281	292.617	73.7248	45.09 42	993. 349	995.926	798.039	8.471 77	4.9029 6	70.04 52	425.20 9	1.37 088	24.8	98.4003	467.8	106.63 7	75.2	80	26.9 904	35.2 167	360.6 37	15.90 99	219. 17	0.174 384
02:26:33 AM	843	54993 6	2406. 12	288. 546	1.01281	292.559	73.686	45.08 64	993. 352	995.926	798.079	8.581 33	4.8915	69.25 99	424.57 011	1.37 011	24.8	98.4	467.7 19	106.60 7	75.2	80	26.9 982	35.2 031	356.2 1	15.91 16	218. 974	0.106 4
02:26:34 AM	843	54993 7	2406. 21	288. 735	1.0128	292.464	73.6475	45.08 37	993. 356	995.926	800.48	8.574 88	4.8991 4	69.51 1	424.12 2	1.36 67	24.8	98.2861	467.5 41	106.60 1	75.2	80	26.9 997	35.2 006	351.8 03	15.93 27	218. 818	0.106 4
02:26:35 AM	843	54993 8	2405. 8	288. 688	1.0128	292.394	73.6289	45.07 73	993. 356	995.926	796.225	8.620 32	4.8915	71.01 78	423.24 3	1.37 02	24.8	98.216	467.5 08	106.6	75.14 3	80	26.9 999	35.2 001	347.3 63	15.92 62	218. 786	0.106 4
02:26:36 AM	843	54993 9	2405. 97	288. 408	1.0128	292.341	73.6289	45.09 49	993. 357	995.926	798.029	8.564 45	4.8899 8	70.57 24	423.10 4	1.37 274	24.8	98.203	467.5 01	106.84 1	75.10 8	79.841 2	27	35.2	342.9 14	15.91 23	218. 824	0.056 158
02:26:37 AM	843	54994 0	2406. 16	288. 404	1.0128	292.282	73.6375	45.08 53	993. 357	995.926	800.66	8.510 07	4.8915	70.52 38	423.31 6	1.37 526	24.8	98.2005	467.5	107.21 5	75.10 15	79.807 6	27.0 19	35.2 686	338.4 9	15.88 27	218. 908	0.239 409
02:26:38 AM	843	54994 1	2406. 23	287. 993	1.01279	292.217	73.635	45.07 76	993. 357	996.153	799.206	8.436 03	4.8915	70.11 47	424.47 1	1.38 218	24.8	98.2001	467.5	107.28 4	75.10 03	79.801 4	27.0 85	35.2	334.0 6	15.89 49	218. 935	0.106 4
02:26:39 AM	843	54994 2	2406	288. 141	1.0128	292.173	73.6116	45.09 31	993. 359	995.926	800.677	8.594 59	4.8945 6	70.27 17	422.72 2	1.38 284	24.8	98.19	467.2 13	107.29 7	75.10 01	79.800 3	27.0 157	35.2 989	329.6 74	15.89 71	218. 889	0.106 4

02:26:40 AM	843	54994 3	2405. 78	288. 086	1.0128	292.132	73.5784	45.10 4	993. 359	995.926	804.494	8.545 01	4.9029 6	69.85 77	424.23 2	1.38 665	24.8	98.1167	467.1 21	107.29 9	75.1	79.8	27.0 029	35.2 998	325.2 33	15.92 04	218. 832	0.050 25
02:26:41 AM	843	54994 4	2405. 86	287. 89	1.0128	292.062	73.5452	45.09 1	993. 359	995.926	804.432	8.371 76	4.8930 3	71.36 26	423.66 6	1.38 712	24.8	98.1031	467.1 04	107.3	75.1	79.922 5	27.0 005	35.3	320.8 77	15.96 06	218. 845	0.079 8
02:26:42 AM	843	54994 5	2405. 84	288. 007	1.01279	291.952	73.5208	45.07 86	993. 359	995.926	803.83	8.446 06	4.8983 8	71.36 96	424.52 3	1.38 661	24.8	98.1006	467.1 01	107.60 8	75.1	79.985 6	27.0 001	35.3	316.5 53	15.91 24	218. 962	0.067 98
02:26:43 AM	843	54994 6	2405. 9	287. 75	1.01279	291.838	73.4976	45.07 64	993. 359	995.926	792.786	8.596 44	4.8983 8	70.70 03	424.68 3	1.39 04	24.8	98.1001	467.1 3	107.68 3	75.1	79.997 3	27	35.3	312.0 86	15.90 04	219. 138	0.097 54
02:26:44 AM	843	54994 7	2406	287. 315	1.01279	291.727	73.4722	45.07 59	993. 359	995.926	795.901	8.482 01	4.8861 6	71.39 35	427.26 7	1.38 983	24.8	98.1	467.0 06	107.69 7	75.1	79.999 5	27	35.3	307.6 7	15.91 96	219. 318	0.106 4
02:26:45 AM	843	54994 8	2405. 91	287. 45	1.01279	291.615	73.4396	45.07 59	993. 359	995.926	791.617	8.509 34	4.8983 8	71.44 53	426.01 9	1.38 54	24.8	97.9628	466.9 2	107.69 9	75.1	79.999 9	27	35.3	303.2 89	15.93 55	219. 436	0.106 4
02:26:46 AM	843	54994 9	2405. 57	287. 372	1.01279	291.506	73.4056	45.08 11	993. 359	995.926	799.545	8.529 21	4.8884 5	72.78 76	427.35 3	1.38 318	24.8	97.9116	466.9 04	107.7	75.31 53	80	27	35.3	298.8 55	15.89 54	219. 495	0.221 675
02:26:47 AM	843	54995 0	2406. 29	287. 372	1.01279	291.39	73.374	45.08 41	993. 359	995.926	796.62	8.547 89	4.8930 3	72.80 19	426.61 3	1.37 692	24.8	97.9022	466.9 01	107.02 2	75.38 43	80	27	35.3	294.4 43	15.92 41	219. 55	0.106 4
02:26:48 AM	843	54995 1	2406. 47	287. 294	1.01279	291.28	73.3505	45.07 74	993. 359	995.926	805.351	8.396 87	4.8915	72.57 67	427.43 7	1.37 387	24.8	97.9004	466.9	106.51 5	75.39 71	80	27	35.3	290.0 22	15.88 14	219. 621	0.106 4
02:26:49 AM	843	54995 2	2406. 29	287. 604	1.0128	291.182	73.3386	45.08 98	993. 359	995.926	800.519	8.320 05	4.8915	73.31 04	427.70 7	1.37 491	24.8	97.9001	466.9	106.42 1	75.39 95	80	27	35.3	285.5 94	15.89 03	219. 66	0.106 4
02:26:50 AM	843	54995 3	2406. 51	287. 754	1.0128	291.125	73.3443	45.10 07	993. 359	995.926	793.431	8.299 46	4.8876 8	72.97 45	427.04 5	1.37 532	24.8	97.9	466.5 74	106.40 4	75.39 99	80	27	35.3	281.1 87	15.91 03	219. 653	0.094 581
02:26:51 AM	843	54995 4	2406. 59	287. 961	1.01279	291.126	73.3639	45.08 05	993. 359	995.926	802.392	8.420 02	4.8953 2	73.70 73	427.17 3	1.37 173	24.8	97.9	466.5 14	106.40 1	75.30 63	80	27	35.3	276.8 27	15.90 53	219. 618	0.115 271
02:26:52 AM	843	54995 5	2406. 2	288. 006	1.01279	291.183	73.4001	45.06 26	993. 359	995.926	800.578	8.510 22	4.8899 8	72.92 73	427.13 3	1.37 282	24.8	97.9	466.5 03	106.55 2	75.21 97	80	27	35.3	272.4 11	15.92 27	219. 526	0.106 4
02:26:53 AM	843	54995 6	2405. 98	287. 29	1.01279	291.264	73.4343	45.07 34	993. 359	995.926	797.756	8.361 84	4.8930 3	73.47 93	425.96 8	1.36 893	24.8	97.9	466.5	107.08	75.20 37	80	27	35.3	268.0 2	15.94 34	219. 48	0.067 98
02:26:54 AM	843	54995 7	2406. 43	287. 323	1.01279	291.311	73.4429	45.07 54	993. 359	995.926	789.593	8.514 1	4.8938	73.68 1	425.90 2	1.37 251	24.8	97.9	466.5	107.17 8	75.20 07	80	26.9 81	35.3	263.6 21	15.91 77	219. 483	0
02:27:45 AM	843	55000 8	2202. 88	320. 395	1.01293	324.815	74.8542	45.07 69	993. 363	995.926	760.742	10.01 43	4.6760 4	95.32 35	395.89 6	1.35 265	24.843	94.8001	481.8	106.40 5	74.80 06	80.100 6	26.6 805	35.4	498.1 6	15.94 14	216. 231	0
02:27:46 AM	843	55000 9	2202. 18	321. 04	1.01281	324.717	74.8448	45.08 03	993. 363	995.926	763.705	10.20 31	4.6684	94.68 78	396.39 5	1.36 365	24.808	94.8	481.9 49	106.40 1	74.80 01	80.100 1	26.6 149	35.4	493.7 59	15.92 34	216. 111	0.106 4
02:27:47 AM	843	55001 0	2202. 07	320. 971	1.0128	324.663	74.861	45.08 9	993. 364	995.926	758.971	10.13 27	4.6760 4	95.08 06	395.77 4	1.37 918	24.8015	94.8	481.9 91	106.4	74.8	80.1	26.6 028	35.4	489.3 39	15.88 66	215. 933	0.106 4
02:27:48 AM	843	55001 1	2202. 03	320. 958	1.01279	324.686	74.8917	45.07 63	993. 361	995.926	755.086	9.992 68	4.6775 7	95.58 23	395.63 3	1.38 605	24.8003	94.8	481.9 98	106.4	74.8	80.038 7	26.6 691	35.4	484.8 89	15.93 52	215. 717	0.106 4
02:27:49 AM	843	55001 2	2201. 4	321. 163	1.0128	324.765	74.9245	45.08 96	993. 361	995.926	754.984	9.994 26	4.6798 6	94.34 14	394.37 2	1.38 672	24.8001	94.8	482	106.64 4	74.8	80.007 2	26.6 943	35.4	480.4 66	15.94 57	215. 503	0.094 581
02:27:50 AM	843	55001 3	2201. 6	320. 669	1.01284	324.85	74.9466	45.08 49	993. 361	995.926	757.223	9.984 91	4.6798 6	94.71 68	395.69 8	1.39 321	24.819	94.8	482	106.69	74.8	80.001 3	26.6 646	35.4	476.0 67	15.93 21	215. 339	0.050 25
02:27:51 AM	843	55001 4	2201. 67	320. 778	1.01305	324.926	74.9658	45.07 75	993. 361	995.926	755.113	10.02 51	4.6836 8	93.89 95	395.61 1	1.37 26	24.885	94.8	482.0 52	106.69 8	74.8	80.000 2	26.6 12	35.4	471.6 79	15.92 23	215. 263	0.088 67
02:27:52 AM	843	55001 5	2202. 09	320. 796	1.01309	324.991	74.9554	45.08 15	993. 361	995.926	765.659	10.19 34	4.6882 6	94.43 81	396.59 1	1.37 129	24.8972	94.7282	482.0 91	106.7	74.8	80	26.6 022	35.4	467.2 32	15.88 88	215. 259	0.106 404
02:27:53 AM	843	55001 6	2201. 92	321. 04	1.0131	325.031	74.9459	45.08 5	993. 361	995.926	749.097	10.09 71	4.6783 3	95.96 22	396.36 3	1.37 445	24.8995	94.7052	482.0 98	106.7	74.87 71	80	26.6 722	35.4	462.8 35	15.89 91	215. 246	0.085 714
02:27:54 AM	843	55001 7	2201. 66	320. 875	1.0131	325.053	74.9443	45.08 41	993. 361	995.926	756.425	10.12 51	4.6798 6	94.92 68	396.47 3	1.38 078	24.8999	94.701	482.1	106.7	74.89 58	80	26.6 297	35.4	458.4 79	15.86 62	215. 199	0.008 867

02:27:55 AM	843	55001 8	2201. 86	320. 657	1.01311	325.054	74.9492	45.11 04	993. 361	995.926	749.672	10.03 79	4.6798 6	95.13 72	397.45 2	1.40 437		24.9	94.7002	482.1	106.7	74.89 92	80	26.6 524	35.4	454.0 94	15.83 66	215. 07	0.047 291
02:27:56 AM	843	55001 9	2202. 13	320. 581	1.01355	325.045	74.9846	45.10 95	993. 361	995.926	754.279	10.03 21	4.6867 4	94.87 06	397.19 5	1.40 613	25.0435	94.7	482.1 1	106.7	74.89 99	80	26.6 641	35.4	449.6 93	15.86 04	214. 866	0.008 867	
02:27:57 AM	843	55002 0	2202. 43	320. 447	1.01369	325.037	74.9851	45.09 7	993. 361	995.926	758.168	10.14 5	4.6760 4	95.43 81	396.16 6	1.38 635	25.0895	94.6532	482.1 83	106.7	74.9	80	26.6 119	35.4	445.2 88	15.85 67	214. 683	0.038 424	
02:27:58 AM	843	55002 1	2202. 23	320. 623	1.01371	325.033	74.9701	45.07 98	993. 361	995.926	756.38	10.02 89	4.6791	96.11 64	396.42	1.36 461	25.0981	94.6098	482.1 97	106.7	74.84 3	80	26.6 022	35.4	440.9 57	15.81 2	214. 506	0.106 4	
02:27:59 AM	843	55002 2	2202. 21	320. 488	1.01373	325.031	74.9538	45.10 52	993. 359	995.926	761.417	10.08 57	4.6859 7	96.36 35	396.87 5	1.34 628	25.0996	94.6018	482.1 99	106.68 1	74.80 8	80	26.6 004	35.4	436.5 19	15.77 13	214. 365	0.124 138	
02:28:00 AM	843	55002 3	2201. 88	319. 963	1.01373	325.002	74.9375	45.09 65	993. 359	995.926	758.404	9.983 97	4.6775 7	96.72 22	396.28 1	1.35 281	25.0999	94.6003	482.2	106.61 5	74.80 15	80	26.6 001	35.4	432.1 77	15.80 07	214. 236	0.124 138	
02:28:01 AM	843	55002 4	2201. 91	319. 925	1.01337	324.925	74.8895	45.11 66	993. 359	995.926	757.243	10.07 34	4.6798 6	96.75 89	396.84 9	1.37 223	24.9771	94.6001	482.2	106.60 3	74.80 03	80	26.6 41	35.4	427.7 75	15.82 08	214. 098	0.106 4	
02:28:02 AM	843	55002 5	2202. 23	320. 105	1.01291	324.783	74.8195	45.09 71	993. 359	995.926	753.345	10.20 52	4.6791	96.56 44	397.26 1	1.38 352	24.8328	94.6	482.2	106.60 1	74.8	80	26.6 701	35.4	423.3 58	15.82 47	213. 973	0.106 404	
02:28:03 AM	843	55002 6	2202. 1	320. 075	1.01282	324.634	74.7773	45.08 88	993. 359	995.926	747.789	10.07 72	4.6798 6	95.92 15	396.32 6	1.37 195	24.8061	94.4371	482.2	106.6	74.8	80	26.6 13	35.4	418.9 75	15.82 81	213. 937	0.056 158	
02:28:04 AM	843	55002 7	2202. 1	319. 742	1.01282	324.502	74.7518	45.13 78	993. 359	995.926	756.785	9.894 65	4.6821 5	95.31 56	397.22 5	1.34 846	24.8011	94.4069	482.2	106.6	74.8	80	26.6 024	35.4	414.6 98	15.81 83	214. 03	0.106 4	
02:28:05 AM	843	55002 8	2202. 12	319. 772	1.01282	324.355	74.7392	45.13 71	993. 359	995.926	754.35	10.04 86	4.6768	96.66 41	396.19 7	1.32 505	24.8002	94.4013	482.2	106.6	74.8	80	26.6 617	35.4	410.2 67	15.83 59	214. 169	0.106 4	
02:28:06 AM	843	55002 9	2202. 24	319. 641	1.0128	324.188	74.7259	45.10 56	993. 359	995.926	752.713	9.977 1	4.6684	96.57 71	397.00 3	1.32 363	24.8	94.4002	482.2	106.6	74.8	80	26.6 929	35.4	405.7 98	15.85 51	214. 342	0.085 714	
02:28:07 AM	843	55003 0	2202. 24	319. 624	1.01355	324.069	74.7625	45.14 21	993. 359	995.926	752.671	9.906 83	4.6783 3	95.66 9	398.75 9	1.32 954	25.0382	94.4	482.1 31	106.6	74.8	80	26.6 987	35.4	401.3 32	15.86 39	214. 49	0.153 695	
02:28:08 AM	843	55003 1	2202. 53	319. 846	1.0137	324.028	74.757	45.11 7	993. 359	995.926	753.009	10.04 74	4.6706 9	95.91 19	398.44 2	1.34 596	25.0886	94.4	482.0 24	106.6	74.8	80	26.6 998	35.4	396.9 6	15.83 85	214. 613	0.106 4	
02:28:09 AM	843	55003 2	2202. 31	319. 391	1.01373	324.026	74.7452	45.12 6	993. 359	995.926	746.261	9.976 87	4.6752 7	97.57 29	397.84 9	1.36 377	25.0979	94.4	482.0 05	106.6	74.8	80	26.7	35.4	392.5 86	15.84 56	214. 756	0.106 4	
02:28:10 AM	843	55003 3	2202. 34	319. 304	1.01375	324.003	74.7377	45.15 66	993. 359	995.926	747.767	10.00 58	4.6806 2	96.62 13	396.72 2	1.37 948	25.0996	94.4	482.0 01	106.39 1	74.8	80	26.7	35.4	388.1 82	15.87 04	214. 884	0.011 82	
02:28:11 AM	843	55003 4	2202. 6	319. 243	1.01375	323.956	74.7215	45.14 92	993. 359	996.153	758.061	10.03 31	4.6775 7	96.82 76	397.86 5	1.38 613	25.0999	94.4	482	106.23 5	74.8	80	26.7	35.4	383.8 35	15.84 16	214. 981	0.038 424	
02:28:12 AM	843	55003 5	2202. 59	319. 431	1.01374	323.916	74.6984	45.11 42	993. 359	995.926	756.238	10.01 62	4.6768	97.04 9	397.27 8	1.38 07	25.1	94.4	482	106.20 7	74.8	80	26.7	35.4	379.4 37	15.86 77	215. 04	0.106 4	
02:28:13 AM	843	55003 6	2202. 42	319. 596	1.01375	323.898	74.6822	45.16 22	993. 359	995.926	757.58	10.12 1	4.6752 7	97.29 84	397.54 7	1.38 471	25.1	94.3312	481.8 46	106.20 1	74.8	80	26.7	35.4	375.0 33	15.85 78	215. 112	0.059 11	
02:28:14 AM	843	55003 7	2202. 21	319. 451	1.01374	323.883	74.6798	45.14 16	993. 359	995.926	755.326	10.39 96	4.6798 6	97.11 9	396.62 5	1.38 612	25.1	94.2243	481.8 08	106.2	74.8	80	26.7	35.4	370.7 03	15.83 28	215. 168	0.115 271	
02:29:39 AM	843	55012 2	2014. 18	335. 208	1.01318	340.176	71.7018	45.30 51	993. 37	995.926	643.566	13.79 68	4.4850 2	104.0 54	362.53	1.43 503	24.9	87.5	491.4	105.64 1	74.89 5	80.092	26.6 164	35.4	350.8 16	15.03 52	211. 941	0.017 734	
02:29:40 AM	843	55012 3	2013. 85	335. 43	1.01318	340.035	71.6786	45.30 98	993. 368	995.926	645.057	13.71 75	4.4705 1	104.6 01	360.90 6	1.44 963	24.9	87.5	491.4	105.60 8	74.89 91	80.098 5	26.6 802	35.4	346.6 63	14.97 38	212. 09	0.115 271	
02:29:41 AM	843	55012 4	2013. 97	335. 481	1.01317	339.917	71.6648	45.29 32	993. 368	996.153	645.768	13.89 61	4.4758 6	105.5 64	361.20 1	1.44 066	24.9	87.5	491.1 91	105.60 1	74.89 98	80.099 7	26.6 963	35.4	342.5 61	14.98 87	212. 203	0.106 4	
02:29:42 AM	843	55012 5	2013. 83	335. 294	1.01318	339.848	71.6571	45.30 33	993. 367	995.926	644.492	13.87 5	4.4728	105.0 12	361.14 8	1.43 67	24.9	87.2847	491.0 35	105.6	74.9	80.1	26.6 993	35.4	338.4 45	15.01 13	212. 249	0.106 404	
02:29:43 AM	843	55012 6	2014. 09	335. 291	1.01318	339.81	71.6553	45.29 2	993. 363	995.926	639.945	13.82 9	4.4781 5	104.7 77	361.82 8	1.44 052	24.9	87.2157	491.0 07	105.6	74.75 65	80.072 9	26.6 728	35.4	334.3 32	14.96 39	212. 188	0.041 38	
02:29:44 AM	843	55012 7	2014. 11	335. 531	1.01319	339.788	71.6673	45.29 44	993. 359	996.153	647.106	13.77 39	4.4789 1	104.7 15	361.68 4	1.43 346	24.9	87.2029	491.0 01	105.71 4	74.71 05	80.013 5	26.6 135	35.4	330.1 84	14.92 08	212. 053	0.106 4	

02:29:45 AM	843	550128	2013.9	335.057	1.0132	339.783	71.6756	45.3446	993.359	995.926	648.605	13.7015	4.47891	104.871	360.96	1.44564	24.9	87.2005	491	105.784	74.7019	80.0025	26.6025	35.4	326.031	14.889	211.865	0.1064
02:29:46 AM	843	550129	2013.95	334.864	1.013	339.785	71.6576	45.3296	993.359	995.926	641.283	13.8078	4.47433	104.587	360.541	1.44829	24.8349	87.2001	491	105.797	74.7004	80.0005	26.6005	35.4	321.907	14.8882	211.603	0.008867
02:29:47 AM	843	550130	2015.9	335.084	1.01291	339.741	71.6329	45.3271	993.359	995.926	650.158	13.6939	4.46821	104.305	361.179	1.43289	24.8065	87.1591	490.921	105.799	74.7001	80.0001	26.6001	35.4	317.771	14.8827	211.287	0.047291
02:29:48 AM	843	550131	2014.5	335.197	1.01289	339.683	71.6094	45.3182	993.361	995.926	645.237	13.7488	4.47662	104.36	360.51	1.43654	24.8012	87.1109	490.904	105.8	74.7	80	26.6	35.4	313.65	14.8647	210.98	0.1064
02:29:49 AM	843	550132	2014.34	335.166	1.01288	339.645	71.6016	45.3127	993.362	995.926	645.112	13.7087	4.47891	104.152	361.347	1.44266	24.8002	87.102	490.901	105.773	74.7	80	26.6	35.4	309.433	14.8389	210.714	0.1064
02:29:50 AM	843	550133	2014.1	335.31	1.01288	339.62	71.6079	45.3253	993.362	995.926	651.981	13.7791	4.47891	104.64	360.809	1.45782	24.8	87.1004	490.9	105.714	74.7	80	26.6	35.4	305.386	14.8865	210.527	0.1064
02:29:51 AM	843	550134	2014.01	335.009	1.01288	339.572	71.6181	45.3147	993.362	995.926	651.207	13.4336	4.47433	104.24	361.676	1.47565	24.8	87.1001	490.9	105.702	74.7	80	26.6	35.4	301.28	14.9154	210.405	0.09754
02:29:52 AM	843	550135	2014.17	334.89	1.01288	339.515	71.6201	45.3292	993.363	995.926	647.991	13.5147	4.47738	103.786	361.302	1.48249	24.8	87.1	490.9	105.7	74.7	80	26.6	35.4	297.165	14.8979	210.358	0.1064
02:29:53 AM	843	550136	2013.81	334.963	1.01289	339.488	71.6046	45.3332	993.363	995.926	646.464	13.6426	4.47433	104.223	360.336	1.4763	24.8	86.9412	490.9	105.7	74.7	80	26.6	35.4	292.996	14.8853	210.395	0.1064
02:29:54 AM	843	550137	2013.88	335.012	1.0129	339.468	71.5821	45.3536	993.363	995.926	647.743	13.6009	4.47586	104.532	360.271	1.47047	24.8	86.9076	490.9	105.7	74.7	80	26.6	35.4	288.884	14.9106	210.525	0.106404
02:29:55 AM	843	550138	2013.88	334.904	1.01289	339.428	71.5647	45.3553	993.365	995.926	652.224	13.3867	4.47509	104.217	360.996	1.46534	24.8	86.9014	490.9	105.7	74.7	80	26.6	35.4	284.714	14.9399	210.684	0.1064
02:29:56 AM	843	550139	2013.86	334.623	1.01289	339.359	71.5501	45.3433	993.365	995.926	646.058	13.5491	4.47662	104.396	361.518	1.45225	24.8	86.9003	490.9	105.7	74.7	80	26.6	35.4	280.59	14.927	210.849	0.1064
02:29:57 AM	843	550140	2014.08	334.678	1.01289	339.276	71.5387	45.3421	993.365	995.926	647.269	13.7796	4.47662	103.991	360.625	1.43545	24.8	86.9	490.862	105.7	74.7	80	26.6	35.4	276.51	14.9106	210.992	0.05025
02:29:58 AM	843	550141	2014.7	334.943	1.0129	339.202	71.5301	45.3683	993.365	995.926	648.346	13.536	4.48356	103.36	362.881	1.41811	24.8	86.8388	490.73	105.7	74.7	80	26.6	35.4	272.41	14.9201	211.127	0.1064
02:29:59 AM	843	550142	2014.44	335.32	1.01289	339.169	71.5315	45.3431	993.365	995.926	646.999	13.5527	4.4728	104.137	361.874	1.42035	24.8	86.8072	490.706	105.7	74.7	80	26.6	35.4	268.29	14.9205	211.236	0.1064
02:30:00 AM	843	550143	2014.38	335.264	1.01289	339.188	71.5492	45.353	993.365	995.926	651.011	13.6374	4.48044	104.133	361.425	1.42791	24.8	86.8013	490.701	105.659	74.7	80	26.6	35.4	264.099	14.9193	211.272	0.038424
02:30:01 AM	843	550144	2014.15	335.233	1.0129	339.231	71.5764	45.3683	993.364	995.926	645.528	13.688	4.47509	104.503	360.217	1.43678	24.8	86.8002	490.7	105.611	74.7	80	26.6	35.4	260.001	14.9218	211.252	0.038424
02:30:02 AM	843	550145	2014.19	334.984	1.01305	339.284	71.6113	45.3629	993.366	995.926	647.214	13.8117	4.47738	103.2	361.36	1.44648	24.8522	86.8	490.7	105.602	74.7	80	26.6	35.4	255.854	14.9179	211.192	0.1064
02:30:03 AM	843	550146	2013.98	335.043	1.01317	339.356	71.6307	45.361	993.366	995.926	646.154	13.9251	4.47891	103.857	359.285	1.44193	24.8911	86.7458	490.7	105.6	74.7	80	26.6	35.4	251.755	14.9268	211.119	0.144828
02:30:04 AM	843	550147	2014.08	335.096	1.01319	339.433	71.627	45.3528	993.366	995.926	645.744	13.8487	4.47968	104.0	360.647	1.44087	24.8984	86.627	490.7	105.6	74.7	80	26.6	35.4	247.674	14.908	211.081	0.1064
02:30:05 AM	843	550148	2014.19	335.318	1.01321	339.501	71.62	45.3657	993.364	995.926	651.576	13.6723	4.47433	103.184	361.08	1.43665	24.8997	86.605	490.7	105.6	74.7	80	26.6	35.4	243.574	14.8684	211.044	0.1064
02:30:06 AM	843	550149	2014.24	335.062	1.01321	339.54	71.6161	45.3733	993.364	995.926	646.994	13.6653	4.48426	103.673	361.029	1.43905	24.8999	86.6009	490.7	105.679	74.7	80	26.6	35.4	239.423	14.8589	210.975	0.1064
02:30:07 AM	843	550150	2013.81	335.323	1.01321	339.561	71.6194	45.3622	993.364	995.926	645.133	13.6488	4.47356	104.35	361.134	1.43172	24.9	86.6002	490.7	105.696	74.7	80	26.6	35.4	235.363	14.8417	210.848	0.094581
02:30:08 AM	843	550151	2014.37	335.236	1.01321	339.576	71.6294	45.375	993.363	995.926	644.209	13.7405	4.47662	104.039	360.059	1.42819	24.9	86.6	490.7	105.699	74.7	80	26.6	35.4	231.254	14.8385	210.649	0.1064
02:30:56 AM	843	550199	1809.03	338.777	1.01321	343.592	65.0798	45.4101	993.371	995.926	533.768	9.39663	4.21149	111.601	326.985	1.48878	24.9	81.9002	490.7	105.8	74.4	80	26.5	35.2	529.156	13.6599	214.137	0.1064

02:30:57 AM	843	55020	1809.05	338.795	1.01321	343.537	65.0591	45.4125	993.372	995.926	533.046	9.42214	4.20538	111.48	327.663	1.48566	24.9	81.8187	490.402	105.8	74.4	80	26.5	35.2	525.445	13.6683	213.904	0.192118
02:30:58 AM	843	55020	1809.15	338.622	1.01322	343.474	65.0393	45.4136	993.37	995.7	533.066	9.45357	4.21378	111.16	327.146	1.48636	24.9	81.6405	490.319	105.8	74.4	80	26.5	35.2	521.67	13.6443	213.672	0.106404
02:30:59 AM	843	55020	1809.18	338.713	1.01323	343.404	65.028	45.4318	993.37	995.926	543.543	9.56862	4.2092	110.682	326.469	1.49063	24.9	81.6075	490.303	105.8	74.4	79.9349	26.5	35.2	517.899	13.6028	213.381	0.1064
02:31:00 AM	843	55020	1808.86	338.838	1.01322	343.334	65.0221	45.4333	993.373	995.7	551.874	9.67923	4.21073	110.845	326.671	1.48727	24.9	81.6014	490.301	105.641	74.4	79.9065	26.5	35.2	514.069	13.5399	213.05	0.1064
02:31:01 AM	843	55020	1808.75	338.721	1.01322	343.278	65.0216	45.4099	993.369	995.7	558.132	9.76465	4.20462	110.897	327.592	1.49069	24.9	81.6003	490.308	105.608	74.4	79.9012	26.5	35.3803	510.343	13.5494	212.695	0.1064
02:31:02 AM	843	55020	1808.77	338.547	1.01322	343.248	65.0203	45.403	993.368	995.926	561.905	9.82699	4.21149	110.986	326.085	1.4862	24.9	81.6	490.091	105.601	74.4	79.9002	26.5	35.3964	506.608	13.5417	212.249	0.09754
02:31:03 AM	843	55020	1808.98	338.358	1.01322	343.22	65.012	45.4187	993.366	995.926	560.272	9.91394	4.2092	110.339	326.893	1.4793	24.9	81.3847	489.935	105.6	74.4	79.9	26.5	35.3993	502.745	13.5654	211.817	0.026601
02:31:04 AM	843	55020	1808.78	338.535	1.01323	343.171	64.9977	45.433	993.369	995.926	555.472	9.70094	4.21684	110.993	327.619	1.47421	24.9	81.3157	489.907	105.6	74.4	79.9	26.5	35.3999	499.017	13.5311	211.485	0.085714
02:31:05 AM	843	55020	1809.15	338.477	1.01323	343.119	64.9845	45.4369	993.37	995.7	541.701	9.51659	4.21073	111.12	326.831	1.48005	24.9	81.3029	489.901	105.47	74.4	79.9	26.5	35.4	495.196	13.5209	211.295	0.1064
02:31:06 AM	843	55020	1809.14	338.415	1.01323	343.076	64.9724	45.4441	993.37	995.926	534.276	9.43017	4.21837	110.651	326.941	1.48435	24.9	81.3005	489.903	105.413	74.4	79.9	26.5	35.4	491.503	13.5567	211.192	0.01182
02:31:07 AM	843	55021	1808.93	338.582	1.01322	343.032	64.967	45.4136	993.372	995.926	537.239	9.39805	4.21455	110.262	326.415	1.49217	24.9	81.3001	489.808	105.402	74.4	79.9	26.5	35.4	487.715	13.5419	211.19	0.01182
02:31:08 AM	843	55021	1809.33	338.693	1.01321	342.993	64.9712	45.3966	993.372	995.7	538.171	9.4082	4.22372	110.189	326.605	1.49978	24.9	81.2532	489.733	105.4	74.4	79.9	26.5	35.4	483.967	13.5311	211.165	0.1064
02:31:09 AM	843	55021	1809.17	338.732	1.01322	342.982	64.9821	45.413	993.373	995.7	541.815	9.52923	4.21837	110.353	327.412	1.49913	24.9	81.2099	489.706	105.4	74.4	79.9	26.5	35.4	480.19	13.5756	211.15	0.1064
02:31:10 AM	843	55021	1809.22	338.482	1.01322	343.002	64.9908	45.4292	993.373	995.7	547.055	9.57761	4.21837	110.798	326.274	1.50708	24.9	81.2018	489.701	105.438	74.4	79.9	26.5	35.4	476.461	13.5959	211.19	0.09754
02:31:11 AM	843	55021	1808.94	338.367	1.01322	343.021	64.9954	45.4374	993.375	995.926	554.079	9.78175	4.21913	110.474	325.937	1.52144	24.9	81.2003	489.701	105.57	74.4	79.9	26.5	35.4	472.647	13.6052	211.255	0.162562
02:31:12 AM	843	55021	1808.79	338.171	1.01321	343.016	64.9882	45.4137	993.376	995.7	560.118	9.92764	4.21531	110.108	325.682	1.52369	24.9	81.2001	489.704	105.594	74.4	79.9	26.5	35.4	468.915	13.5646	211.417	0.056158
02:31:13 AM	843	55021	1808.98	338.236	1.01321	342.986	64.9702	45.4371	993.379	995.926	547.416	9.86694	4.22142	110.862	325.923	1.52419	24.9	81.2	489.426	105.599	74.4	79.9	26.5	35.4	465.175	13.5622	211.601	0.1064
02:31:14 AM	843	55021	1808.63	337.969	1.01322	342.932	64.9448	45.4403	993.384	995.926	549.03	9.717	4.21226	110.204	325.33	1.51221	24.9	81.0371	489.323	105.6	74.4	79.9	26.5	35.4	461.413	13.5822	211.748	0.04138
02:31:15 AM	843	55021	1809.15	337.895	1.01319	342.851	64.9169	45.4042	993.387	995.7	537.928	9.55449	4.21837	109.589	326.487	1.50488	24.9	81.0069	489.304	105.6	74.4	79.9	26.5	35.4	457.639	13.6066	211.85	0.038424
02:31:16 AM	843	55021	1809.01	338.243	1.0132	342.745	64.8987	45.4301	993.388	995.926	533.088	9.42109	4.21149	108.713	325.576	1.49633	24.9	81.0013	489.301	105.6	74.4	79.9	26.5	35.4	453.92	13.5882	211.907	0.1064
02:31:17 AM	843	55022	1809.04	338.33	1.01321	342.657	64.8867	45.4441	993.385	995.926	531.388	9.59242	4.21149	109.282	326.553	1.4893	24.9	81.0002	489.301	105.6	74.4	79.9	26.5	35.4	450.172	13.6014	211.99	0.1064
02:31:18 AM	843	55022	1809.3	338.434	1.01322	342.619	64.8966	45.4561	993.384	995.926	535.076	9.75356	4.21684	109.469	325.25	1.48636	24.9	81	489.162	105.6	74.4	79.9	26.5	35.4	446.389	13.5709	212.093	0.1064
02:31:19 AM	843	55022	1809.41	338.436	1.01322	342.621	64.9157	45.4547	993.384	995.926	552.927	9.97943	4.22142	109.28	324.507	1.47895	24.9	80.9349	488.949	105.6	74.4	79.9	26.5	35.4	442.595	13.5472	212.148	0.1064
02:31:20 AM	843	55022	1808.98	338.274	1.01322	342.65	64.9355	45.4638	993.383	995.926	557.344	10.271	4.21837	108.404	325.735	1.48627	24.9	80.9065	488.909	105.6	74.4	79.9	26.5	35.4	438.91	13.5897	212.109	0.1064
02:31:21 AM	843	55022	1809.17	338.289	1.01321	342.689	64.9487	45.4304	993.382	995.926	558.36	10.1395	4.22066	108.404	325.637	1.48809	24.9	80.9012	488.902	105.647	74.4	79.9	26.5	35.4	435.135	13.5724	211.999	0.017734

02:31:22 AM	843	55022 5	1809.07	338.264	1.01322	342.738	64.9486	45.45 04	993.38	995.7	556.239	10.10 36	4.2153 1	109.1 78	325.34 9	1.48 867	24.9	80.9002	488.9	105.69	74.4	79.9	26.5	35.4	431.4 12	13.57 85	211.854	0.041 38
02:31:23 AM	843	55022 6	1808.75	337.868	1.01322	342.769	64.9376	45.44 45	993.379	995.926	540.009	9.793 43	4.2168 4	109.1 34	325.26 4	1.49 04	24.9	80.9	488.9	105.69 8	74.4	79.9	26.5	35.4	427.6 22	13.61 33	211.789	0.079 8
02:31:24 AM	843	55022 7	1808.91	337.82	1.01321	342.748	64.9194	45.41 78	993.375	995.926	538.159	9.620 26	4.2214 2	109.2 95	325.92 1	1.49 4	24.9	80.8312	488.7 46	105.7	74.4	79.9	26.5	35.4	423.8 78	13.58 58	211.837	0.085 714
02:31:25 AM	843	55022 8	1808.88	337.932	1.01322	342.674	64.8964	45.43 09	993.373	995.926	534.732	9.452 05	4.2176	108.6 7	323.00 6	1.49 836	24.9	80.7243	488.7 08	105.7	74.4	79.9	26.5	35.4	420.1 4	13.54 85	211.926	0.106 4
02:32:08 AM	843	55027 1	1602.8	340.629	1.01384	344.946	57.9179	45.47 05	993.389	995.926	472.601	2.173 13	3.8638 4	117.5 44	295.89 1	1.50 6	25.1	76.8556	484.0 39	104.7	74.11 9	79.9	26.5	35.4	273.3 6	12.03 61	211.831	0.011 82
02:32:09 AM	843	55027 2	1602.91	340.566	1.01384	345.021	57.931	45.47 22	993.392	995.926	474.603	2.231 32	3.8615 5	116.5 05	296.54 6	1.49 471	25.1	76.8103	484.0 07	104.7	74.18 5	79.952 2	26.5	35.4	270.0 71	12.01 3	211.632	0.106 4
02:32:10 AM	843	55027 3	1603.15	340.366	1.01383	345.1	57.9408	45.44 01	993.391	995.926	479.412	2.466 98	3.8615 5	116.5 43	297.03 1	1.49 516	25.1	76.8019	484.0 01	104.34 1	74.19 72	79.991 1	26.5	35.4	266.6 83	12.05 54	211.344	0.183 251
02:32:11 AM	843	55027 4	1603	340.849	1.01383	345.145	57.9515	45.45 04	993.389	995.926	477.229	2.534 49	3.8661 4	117.0 08	296.61 6	1.50 905	25.1	76.8004	484	104.22 6	74.19 95	79.998 4	26.5	35.4	263.2 99	12.01 07	211.045	0.115 271
02:32:12 AM	843	55027 5	1602.66	340.677	1.01384	345.191	57.9578	45.46 36	993.388	995.926	476.027	2.461 73	3.8646 1	116.4 55	297.62 3	1.50 077	25.1	76.8001	483.9 59	104.20 5	74.19 99	79.999 7	26.5	35.4	259.9 58	11.99 97	210.765	0.106 4
02:32:13 AM	843	55027 6	1603.14	340.465	1.01384	345.239	57.9617	45.47 09	993.387	995.7	468.113	2.533 52	3.8661 4	117.1 85	297.47 1	1.50 899	25.1	76.6565	483.9 11	104.20 1	74.2	79.999 9	26.5	35.4	256.5 96	11.98 7	210.521	0
02:32:14 AM	843	55027 7	1603.32	340.764	1.01385	345.275	57.9686	45.47 23	993.384	995.926	473.167	2.546 83	3.8691 9	117.2 75	296.62 5	1.50 591	25.1	76.6105	483.9 02	104.2	74.2	80	26.4 43	35.4	253.2 47	12.00 13	210.328	0.088 67
02:32:15 AM	843	55027 8	1603.19	340.845	1.01385	345.294	57.973	45.47 25	993.384	995.926	471.517	2.549 29	3.8707 2	116.8 05	295.43 2	1.50 817	25.1	76.6019	483.9	104.2	74.2	80	26.4 08	35.4	249.8 78	12.02 14	210.126	0.038 424
02:32:16 AM	843	55027 9	1602.98	340.713	1.01385	345.327	57.9808	45.47 26	993.382	995.926	476.829	2.461 65	3.8699 6	116.3 76	296.76 2	1.51 634	25.1	76.6004	483.9	104.2	74.2	80	26.4 015	35.4	246.5 21	12.03 52	210.006	0.106 4
02:32:17 AM	843	55028 0	1603.36	340.681	1.01385	345.368	57.9875	45.47 26	993.379	995.926	476.1	2.479 23	3.8669 6	116.0 84	296.81 6	1.51 928	25.1	76.6001	483.9	104.44 6	74.2	80	26.4 003	35.4	243.1 96	12.05 42	209.954	0.106 4
02:32:18 AM	843	55028 1	1603.5	340.729	1.01386	345.397	57.9936	45.47 26	993.373	995.926	474.558	2.460 76	3.8714 9	116.4 35	295.72 7	1.52 501	25.1	76.6	483.9	104.73 4	74.2	80	26.4 001	35.5 303	239.8 18	12.07 53	210.041	0.106 4
02:32:19 AM	843	55028 2	1603.21	340.795	1.014	345.423	58.0074	45.47 26	993.374	995.926	469.767	2.465 91	3.8753 1	115.3 12	294.75 3	1.52 555	25.1469	76.6	483.9	104.78 8	74.2	80	26.4	35.5 871	236.4 9	12.08 8	210.254	0
02:32:20 AM	843	55028 3	1603.29	340.626	1.01414	345.468	58.019	45.48 07	993.376	995.926	472.082	2.439 54	3.8691 9	115.3 51	296.73 8	1.51 211	25.1902	76.543	483.4 69	104.79 8	74.2	80	26.4	35.5 976	233.2 15	12.07 25	210.501	0.026 601
02:32:21 AM	843	55028 4	1603.08	340.804	1.01416	345.515	58.0234	45.47 41	993.38	995.926	474.154	2.586 97	3.8615 5	115.9 12	296.80 9	1.51 23	25.1982	76.345	483.3 31	104.8	74.18 1	80	26.4	35.5 996	229.8 79	12.02 62	210.737	0.085 714
02:32:22 AM	843	55028 5	1602.62	341.437	1.01415	345.541	58.0264	45.44 94	993.379	995.926	471.056	2.435 4	3.8523 8	116.0 92	296.28 6	1.50 468	25.1997	76.3083	483.3 06	104.8	74.11 5	79.943	26.4	35.5 999	226.4 81	12.06 64	210.862	0.115 271
02:32:23 AM	843	55028 6	1602.94	340.889	1.01416	345.576	58.0273	45.46 83	993.379	995.926	476.351	2.476 28	3.8661 4	116.4 59	294.66 3	1.51 096	25.1999	76.3015	483.3 01	104.48 2	74.10 28	79.908	26.4	35.5 312	223.1 29	12.06 87	210.89	0.106 4
02:32:24 AM	843	55028 7	1600.81	341.557	1.01416	345.622	58.0294	45.47 18	993.379	995.926	481.201	2.419 24	3.8508 6	115.7 23	294.38 9	1.52 015	25.2	76.3003	483.3	104.41 5	74.10 05	79.901 5	26.4	35.4 243	219.8 32	12.09 26	210.836	0.106 4
02:32:25 AM	843	55028 8	1602.83	340.71	1.01391	345.664	58.011	45.46 22	993.379	995.926	465.445	2.287 24	3.8753 1	116.0 08	294.97	1.50 356	25.1185	76.3001	483.1 77	104.40 3	74.10 01	79.900 3	26.4	35.4 045	216.4 93	12.03 83	210.814	0.106 4
02:32:26 AM	843	55028 9	1603.41	340.793	1.01386	345.661	58.0117	45.47 06	993.379	995.926	470.115	2.477 34	3.8753 1	115.8 4	296.35 2	1.50 769	25.1034	76.0942	483.0 33	104.40 1	74.1	79.9	26.4	35.4 008	213.1 82	12.02 82	210.809	0.106 4
02:32:27 AM	843	55029 0	1602.9	340.731	1.01386	345.644	58.0093	45.46 99	993.377	995.926	470.551	2.574 44	3.8745 4	115.7 4	295.24 4	1.50 502	25.1006	76.0174	483.0 06	104.4	74.1	79.9	26.4	35.4 002	209.7 69	12.04 31	210.783	0.106 4
02:32:28 AM	843	55029 1	1603.15	340.354	1.01384	345.619	58.0033	45.45 94	993.382	995.926	476.901	2.482 59	3.8753 1	115.9 87	295.74 9	1.50 886	25.1001	76.0032	483.0 01	104.09 4	74.1	79.9	26.4	35.4	206.3 79	12.05 23	210.727	0.076 847
02:32:29 AM	843	55029 2	1603.22	340.422	1.01384	345.558	57.9943	45.45 45	993.378	995.926	469.377	2.374 37	3.8776 9	116.2 9	295.19 9	1.51 898	25.1	76.0006	483	103.93 6	74.1	79.9	26.3 185	35.4	203.0 78	12.01 81	210.614	0.029

02:32:30 AM	843	55029 3	1603. 28	340. 508	1.01385	345.473	57.9752	45.46 92	993. 378	995.926	473.922	2.345 35	3.8837 1	115.1 59	294.87 9	1.48 524	25.1	76.0001	483	103.90 7	74.1	79.9	26.3 034	35.4	199.7 11	12.05 86	210. 528	0.106 4
02:32:31 AM	843	55029 4	1602. 8	340. 189	1.01385	345.374	57.9605	45.47 2	993. 378	995.926	469.851	2.449 79	3.8806 5	115.1 63	295.29 3	1.47 572	25.1	75.9591	482.6 82	103.90 1	74.1	79.9	26.3 006	35.4	196.4 12	12.10 42	210. 536	0.106 4
02:32:32 AM	843	55029 5	1603. 12	340. 053	1.01385	345.286	57.9441	45.47 25	993. 376	996.153	472.619	2.669 1	3.8837 1	115.3 77	295.28 8	1.47 049	25.1	75.9109	482.6 15	103.9	74.1	79.9	26.3 001	35.4	193.0 82	12.09 8	210. 661	0.056 158
02:32:33 AM	843	55029 6	1602. 7	339. 811	1.01386	345.178	57.9225	45.47 26	993. 372	995.926	470.012	2.461 77	3.8760 7	115.4 14	294.90 8	1.47 553	25.1	75.902	482.6 03	103.92	74.1	79.9	26.3	35.4	189.6 86	12.07 81	210. 889	0.038 424
02:32:34 AM	843	55029 7	1602. 89	340. 08	1.01386	345.055	57.8993	45.47 26	993. 37	995.926	474.219	2.638 01	3.8776	115.7 98	295.19 1	1.49 29	25.1	75.9004	482.6 01	104.06 7	74.1	79.9	26.3	35.4	186.3 8	12.11 5	211. 191	0.008 867
02:32:35 AM	843	55029 8	1602. 9	340. 096	1.0137	344.947	57.87	45.46 77	993. 375	995.926	477.08	2.664 56	3.8890 6	114.9 61	293.97 8	1.50 164	25.0458	75.9001	482.6	104.09 4	74.1	79.9	26.3	35.4	183.0 58	12.10 55	211. 481	0.020 69
02:32:36 AM	843	55029 9	1603. 36	340. 198	1.01332	344.856	57.8354	45.47 17	993. 376	995.926	476.288	2.650 07	3.8837 1	116.1 84	294.76 6	1.50 192	24.927	75.9	482.4 29	104.09 9	74.1	79.9	26.3	35.4	179.7 16	12.09 36	211. 725	0.076 847
02:32:37 AM	843	55030 0	1602. 38	340. 506	1.01324	344.777	57.8332	45.44 93	993. 378	995.926	470.206	2.223 38	3.8844 7	115.4 76	295.45 8	1.51 51	24.905	75.7458	482.3 24	104.1	74.1	79.9	26.3	35.4	176.3 07	12.09 47	211. 883	0.106 4
02:33:32 AM	875	55035 5	1404. 91	324. 833	1.01325	329.149	48.4122	45.54 23	993. 385	995.926	380.685	0.991 58	3.4321 5	126.2 79	274.28 8	1.45 502	24.9	70.6115	470.5 08	102.6	73.81 85	79.9	26.2 001	35.4	539.9 09	10.33 61	217. 929	0.106 4
02:33:33 AM	875	55035 6	1405. 29	324. 88	1.01326	329.114	48.4178	45.57 58	993. 387	995.7	378.028	0.740 35	3.4344 4	125.3 44	273.82 2	1.46 209	24.9	70.6021	470.5 01	102.74 4	73.80 34	79.9	26.2	35.4	537.0 66	10.34 42	217. 675	0.106 4
02:33:34 AM	875	55035 7	1405. 01	324. 763	1.01325	329.092	48.423	45.57 3	993. 393	995.926	372.098	0.560 97	3.4375	125.2 7	273.82 8	1.47 149	24.9	70.6004	470.5	102.79	73.80 06	79.9	26.2	35.4	534.2 29	10.38 1	217. 414	0.085 714
02:33:35 AM	875	55035 8	1404. 97	324. 677	1.01324	329.079	48.4284	45.54 19	993. 392	995.926	380.445	0.482 67	3.4359 7	125.4 09	274.94	1.49 791	24.9	70.6001	470.3 1	102.79 8	73.80 01	79.9	26.2	35.4	531.3 62	10.29 38	217. 114	0.047 291
02:33:36 AM	875	55035 9	1406. 13	324. 453	1.01324	329.078	48.4217	45.54 2	993. 389	995.926	386.386	0.345 89	3.4382 6	125.8 17	274.67 2	1.50 639	24.9	70.4162	469.8 95	102.8	73.8	79.9	26.2	35.4	528.4 85	10.28 32	216. 77	0.106 4
02:33:37 AM	875	55036 0	1405. 59	324. 375	1.01326	329.076	48.417	45.58 14	993. 39	995.926	380.696	0.513 6	3.4405 6	125.8 64	274.20 7	1.52 249	24.9	70.3215	469.8 18	102.8	73.8	79.9	26.2	35.4	525.6 32	10.27 62	216. 425	0.085 714
02:33:38 AM	875	55036 1	1405. 09	324. 954	1.01327	329.055	48.4086	45.59 22	993. 386	995.926	382.623	0.261 32	3.4382 6	126.0 66	273.90 5	1.52 572	24.9	70.304	469.8 03	102.70 6	73.8	79.741 2	26.1 349	35.4	522.7 63	10.30 66	216. 057	0.085 714
02:33:39 AM	875	55036 2	1404. 14	325. 414	1.01326	329.041	48.4105	45.55 51	993. 386	995.926	378.356	0.460 01	3.4313 9	125.8 84	273.57 4	1.50 833	24.9	70.3007	469.8 01	102.62	73.8	79.707 6	26.1 533	35.4	519.9 38	10.30 54	215. 765	0.183 251
02:33:40 AM	875	55036 3	1404. 7	324. 645	1.01327	329.042	48.4163	45.57 89	993. 385	995.926	378.083	0.407 63	3.4451 4	125.8 82	274.49	1.49 594	24.9	70.3001	469.8	102.60 4	73.8	79.701 4	26.1 913	35.4	517.1 35	10.25 38	215. 552	0.106 4
02:33:41 AM	875	55036 4	1404. 72	324. 612	1.01326	329.033	48.4209	45.57 35	993. 389	995.7	387.596	0.331 26	3.4405 6	126.1 91	274.69 7	1.48 345	24.9	70.2187	469.2 78	102.60 1	73.8	79.700 3	26.1 984	35.4	514.2 32	10.23 5	215. 377	0.020 69
02:33:42 AM	875	55036 5	1407. 05	324. 148	1.01325	329	48.4154	45.56 55	993. 392	995.926	386.031	0.515 55	3.4420 8	125.9 83	274.9	1.48 559	24.9	70.0405	469.1 33	102.6	73.77 29	79.700 1	26.1 203	35.4	511.4 21	10.23 15	215. 24	0.106 4
02:33:43 AM	875	55036 6	1405. 42	324. 163	1.01324	328.964	48.4058	45.54 6	993. 393	995.926	380.829	0.664 9	3.4428 5	126.1 45	274.26 1	1.49 98	24.9	70.0075	469.1 06	102.6	73.71 35	79.7	26.1 783	35.4	508.5 87	10.23 09	215. 024	0.106 4
02:33:44 AM	875	55036 7	1404. 85	324. 205	1.01325	328.921	48.3818	45.56 94	993. 393	995.926	378.39	0.809 95	3.4436 1	125.7 34	274.69	1.50 808	24.9	70.0014	469.1 01	102.36 9	73.70 25	79.7	26.1 347	35.4	505.7 91	10.21 75	214. 742	0.106 4
02:33:45 AM	875	55036 8	1405. 06	324. 147	1.01325	328.852	48.3604	45.56 87	993. 394	995.926	378.318	0.745 43	3.4428 5	126.0 06	274	1.50 804	24.9	70.0003	469.1	102.31 3	73.70 05	79.7	26.1 533	35.4	502.8 93	10.25 04	214. 501	0
02:33:46 AM	875	55036 9	1404. 98	324. 661	1.01324	328.742	48.3447	45.55 26	993. 393	995.926	382.647	0.743 95	3.4474 3	126.5 13	274.61 7	1.50 244	24.9	70	468.7 87	102.30 2	73.70 01	79.7	26.1 913	35.4	500.0 51	10.28 09	214. 391	0.106 4
02:33:47 AM	875	55037 0	1404. 92	324. 647	1.01324	328.664	48.341	45.54 73	993. 389	995.926	383.06	0.536 88	3.4405 6	126.7 87	275.08 4	1.50 193	24.9	69.8508	468.5 53	102.3	73.7	79.7	26.1 984	35.4	497.1 78	10.28 16	214. 456	0.106 4

02:33:48 AM	875	55037 1	1405. 24	324. 361	1.01325	328.659	48.3623	45.57 22	993. 39	995.926	377.853	0.920 92	3.4466 7	126.8 48	274.28 1	1.50 19	24.9	69.8094	468.5 1	102.3	73.77 46	79.7	26.1 226	35.4	494.2 62	10.28 72	214. 643	0.106 4
02:33:49 AM	875	55037 2	1405. 01	323. 625	1.01326	328.676	48.3756	45.56 96	993. 387	995.926	373.206	0.675 25	3.4474 3	126.2 38	274.72 9	1.50 275	24.9	69.8017	468.5 02	102.17 7	73.79 53	79.7	26.1 042	35.4	491.4 65	10.28 81	214. 907	0.038 424
02:33:50 AM	875	55037 3	1407. 86	324. 165	1.01326	328.656	48.3797	45.57 63	993. 389	995.926	382.843	0.678 08	3.4405 6	126.1 84	275.21 3	1.49 975	24.9	69.8003	468.5	102.11 4	73.79 91	79.7	26.1 008	35.4	488.5 89	10.29 73	215. 139	0.106 4
02:33:51 AM	875	55037 4	1405. 29	324. 212	1.01327	328.623	48.3702	45.59 13	993. 389	995.926	388.505	0.620 66	3.4466 7	127.0 45	275.42 7	1.50 266	24.9	69.8001	468.4 6	102.10 3	73.79 98	79.7	26.1 001	35.4	485.7 08	10.32 68	215. 328	0.106 4
02:33:52 AM	875	55037 5	1404. 95	324. 274	1.01326	328.622	48.3443	45.58 4	993. 387	995.926	381.803	0.928 74	3.4489 6	127.0 81	275.34 8	1.50 602	24.9	69.7063	468.1 67	102.1	73.8	79.7	26.1	35.4	482.9 02	10.33 66	215. 139	0.106 4
02:33:53 AM	875	55037 6	1404. 94	324. 287	1.01327	328.616	48.338	45.59 27	993. 384	995.926	378.589	0.962 8	3.4482	127.0 55	274.99 7	1.50 647	24.9	69.6197	468.1 12	102.1	73.84 68	79.7	26.1	35.4	480.0 48	10.33 08	215. 784	0.041 38
02:33:54 AM	875	55037 7	1404. 55	324. 618	1.01326	328.578	48.3361	45.58 06	993. 384	995.7	377.331	0.919 49	3.4482	126.9 62	274.48 7	1.51	24.9	69.6037	468.1 02	102.23 3	73.89 02	79.849 2	26.1	35.4	477.2 19	10.33 91	216. 042	0.076 847
02:33:55 AM	875	55037 8	1404. 89	324. 468	1.01327	328.533	48.346	45.58 67	993. 385	995.926	373.749	0.930 25	3.4558 4	126.9 79	275.22 1	1.50 728	24.9	69.6007	468.1	102.69 5	73.89 82	79.890 6	26.1	35.4	474.4 24	10.31 89	216. 314	0.085 714
02:33:56 AM	875	55037 9	1405. 06	324. 027	1.01327	328.547	48.3517	45.59 32	993. 385	995.926	379.645	0.702 57	3.4520 2	127.2 42	275.23 2	1.50 799	24.9	69.6001	468.1	102.78 1	73.89 97	79.898 3	26.1	35.4	471.5 42	10.28 82	216. 446	0.106 4
02:33:57 AM	875	55038 0	1404. 62	324. 188	1.01327	328.58	48.3501	45.58 22	993. 384	995.7	374.473	0.664 01	3.4520 2	127.2 78	275.97 3	1.50 503	24.9	69.6	467.7 09	102.79 6	73.89 99	79.899 7	26.1	35.4	468.7 41	10.28 25	216. 44	0.094 581
02:33:58 AM	875	55038 1	1404. 89	323. 786	1.01327	328.584	48.3392	45.57 98	993. 381	995.7	379.777	0.740 62	3.4566	127.3 88	275.92	1.51 348	24.9	69.4412	467.5 39	102.79 9	73.9	79.899 9	26.1	35.4	465.8 92	10.31 58	216. 308	0.106 4
02:33:59 AM	875	55038 2	1404. 6	323. 905	1.01327	328.54	48.3231	45.59 19	993. 38	995.926	381.728	0.932 35	3.4520 2	127.1 62	275.68 8	1.51 218	24.9	69.4076	467.5 07	102.8	73.9	79.9	26.1	35.4	463.0 1	10.24 84	216. 111	0.106 4
02:34:00 AM	875	55038 3	1405. 59	323. 578	1.01327	328.488	48.3142	45.57 55	993. 382	995.7	382	0.875 85	3.4573 7	127.2 85	275.65 9	1.49 641	24.9	69.4014	467.5 01	102.65 6	73.9	79.9	26.0 254	35.4	460.1 4	10.30 39	215. 912	0.029 56
02:34:01 AM	875	55038 4	1404. 78	324. 145	1.01328	328.424	48.3064	45.59 11	993. 38	995.926	382.007	0.437 86	3.4573 7	127.1 1	275.26 7	1.49 475	24.9	69.4003	467.5	102.61	73.9	79.9	26.0 047	35.4	457.2 94	10.28 3	215. 81	0.020 69
02:35:28 AM	875	55047 1	1210. 12	304. 426	1.01323	308.721	39.1733	45.56 4	993. 411	995.7	282.012	0.878 084	3.0226 2	130.7 75	252.35 2	1.42 014	24.9005	62.5	443.8 99	100.95 4	73.5	79.882 4	25.7 109	35.1	258.3 84	8.364 77	217. 18	0.106 4
02:35:29 AM	875	55047 2	1213. 5	304. 892	1.01324	308.71	39.1767	45.58 9	993. 408	995.7	296.381	0.912 263	3.0042 8	130.7 82	254.39 3	1.42 428	24.9001	62.5	443.9	100.66 6	73.5	79.815 3	25.7 02	35.1	256.1 58	8.381 25	217. 124	0
02:35:30 AM	875	55047 3	1213. 36	304. 247	1.01322	308.701	39.1625	45.54 05	993. 409	995.7	291.538	0.823 412	3.0256 7	130.5 54	253.81 9	1.42 156	24.9	62.5	443.9	100.61 2	73.5	79.802 8	25.7 004	35.1	253.8 43	8.384 31	216. 973	0.097 54
02:35:31 AM	875	55047 4	1214. 27	304. 661	1.01323	308.671	39.1577	45.56 23	993. 406	995.7	302.402	0.579 354	3.0088 6	131.0 53	252.76	1.41 511	24.9	62.481	443.7 51	100.60 2	73.5	79.800 5	25.7 001	35.1	251.4 93	8.345 95	216. 818	0.144 828
02:35:32 AM	875	55047 5	1211. 07	304. 772	1.01324	308.667	39.1692	45.56 99	993. 403	995.7	283.651	0.643 072	3.0210 9	130.9 29	252.09 6	1.39 553	24.9	62.415	443.7 09	100.6	73.5	79.800 1	25.7	35.1	249.1 86	8.342 21	216. 698	0.067 98
02:35:33 AM	875	55047 6	1209. 23	305. 231	1.01325	308.659	39.1642	45.59 01	993. 399	995.7	292.624	0.517 75	2.9996 9	130.9 39	252.20 7	1.40 617	24.9	62.4028	443.7 02	100.6	73.5	79.8	25.7	35.1	246.8 49	8.358 51	216. 532	0.106 4
02:35:34 AM	875	55047 7	1212. 8	305. 325	1.01326	308.682	39.1712	45.59 38	993. 395	995.7	289.272	0.774 46	3.0004 6	130.2 2	252.14 8	1.42 226	24.9	62.4005	443.7	100.6	73.5	79.8	25.7	35.0 181	244.5 4	8.362 47	216. 386	0.133 005
02:35:35 AM	875	55047 8	1210. 78	304. 481	1.01326	308.734	39.169	45.59 45	993. 392	995.7	292.509	0.618 815	3.0233 8	129.6 87	251.18 1	1.44 532	24.9	62.4001	443.7	100.6	73.5	79.8	25.7	34.9 219	242.2 35	8.399 42	216. 26	0.133 005
02:35:36 AM	875	55047 9	1210. 61	304. 858	1.01326	308.758	39.1655	45.59 46	993. 394	995.7	296.02	0.732 676	3.0103 9	129.4 37	251.31 1	1.44 756	24.9	62.4	443.5 77	100.6	73.5	79.8	25.7	34.9 041	239.9 01	8.359 44	216. 26	0.067 98
02:35:37 AM	875	55048 0	1210. 83	304. 692	1.01326	308.77	39.159	45.58 47	993. 388	995.7	295.93	0.664 997	3.0218 5	129.4 51	251.64	1.45 325	24.9	62.4	443.4 33	100.6	73.5	79.8	25.7	34.9 008	237.5 75	8.391 58	216. 352	0.106 4

02:35:38 AM	875	55048 1	1207.12	306.144	1.01326	308.792	39.1423	45.5696	993.389	995.7	289.525	0.794058	2.99587	129.917	251.343	1.45171	24.9	62.4	443.406	100.6	73.5	79.743	25.7	34.9001	235.237	8.40384	216.56	0.1064
02:35:39 AM	875	55048 2	1210.63	304.869	1.01326	308.858	39.143	45.5748	993.384	995.7	289.526	0.733934	3.02567	129.514	251.364	1.44412	24.9	62.4	443.401	100.657	73.5	79.545	25.681	34.9	232.889	8.35312	216.791	0.038424
02:35:40 AM	875	55048 3	1210.54	304.958	1.01326	308.912	39.1606	45.5786	993.387	995.7	287.889	0.658211	3.01803	129.153	250.226	1.42435	24.9	62.4	443.4	100.692	73.5	79.5083	25.615	34.9	230.593	8.3969	216.881	0.056158
02:35:41 AM	875	55048 4	1210.5	304.807	1.01326	308.934	39.1686	45.5695	993.387	995.7	281.271	0.699679	3.0272	128.752	250.093	1.41541	24.9	62.4	443.4	100.699	73.5	79.5015	25.6028	34.9	228.301	8.40369	216.96	0.1064
02:35:42 AM	875	55048 5	1210.81	304.635	1.01326	308.963	39.1732	45.5689	993.389	995.7	283.683	0.658882	3.03484	129.275	249.964	1.41681	24.9	62.3312	443.241	100.7	73.5	79.5003	25.6005	34.9	225.953	8.40666	216.973	0.1064
02:35:43 AM	875	55048 6	1211.5	305.484	1.01326	308.984	39.1756	45.5734	993.386	995.7	298.032	0.605256	3.02185	129.871	248.769	1.46434	24.9	62.2243	443.208	100.7	73.5937	79.5001	25.6001	34.9	223.639	8.38377	216.967	0.1064
02:35:44 AM	875	55048 7	1207.35	305.981	1.01326	309.051	39.1646	45.5756	993.385	995.7	300.515	0.592315	3.00504	130.155	249.161	1.48148	24.9	62.2045	443.201	100.69	73.6803	79.5	25.6	34.9	221.314	8.35702	217.076	0.1064
02:35:45 AM	875	55048 8	1209.15	305.169	1.01327	309.108	39.1719	45.5793	993.384	995.398	287.243	0.53305	3.03255	129.852	250.092	1.50604	24.9	62.2008	443.2	100.617	73.6964	79.5	25.6	34.9	219.022	8.32391	217.06	0
02:35:46 AM	875	55048 9	1210.9	305.231	1.01327	309.149	39.1943	45.5709	993.377	995.7	289.626	0.820038	3.02567	130.052	250.149	1.51051	24.9	62.2002	443.2	100.603	73.6993	79.5	25.6	34.9	216.712	8.30618	216.881	0.04138
02:35:47 AM	875	55049 0	1210.74	304.708	1.01327	309.157	39.2007	45.5628	993.377	995.7	286.192	0.857993	3.03866	130.584	250.865	1.46283	24.9	62.2	443.005	100.601	73.6999	79.5	25.6	34.9	214.369	8.33645	216.476	0.1064
02:35:48 AM	875	55049 1	1210.73	305.693	1.01327	309.157	39.2138	45.5888	993.38	995.7	291.712	0.832327	3.01727	131.849	248.733	1.44396	24.9	62.1206	442.919	100.6	73.7	79.5	25.6	34.9	212.093	8.34377	215.96	0.1064
02:35:49 AM	875	55049 2	1210.85	305.784	1.01328	309.182	39.2083	45.5893	993.379	995.7	305.75	0.984566	3.01498	132.627	247.66	1.41297	24.9	62.1038	442.904	100.6	73.7794	79.5469	25.6	34.9	209.784	8.32054	215.528	0.05025
02:35:50 AM	875	55049 3	1209.58	305.508	1.01327	309.225	39.1979	45.5813	993.382	995.7	294.278	0.802342	3.02185	131.725	249.696	1.38299	24.9	62.1007	442.901	100.672	73.7962	79.5901	25.5729	34.9	207.466	8.33004	215.323	0.1064
02:35:51 AM	875	55049 4	1210.18	305.147	1.01327	309.243	39.1979	45.5863	993.384	995.398	293.652	0.760708	3.03331	131.434	248.687	1.40437	24.9	62.1001	442.9	100.695	73.7993	79.5982	25.5135	34.9	205.145	8.28906	215.297	0.144828
02:35:52 AM	875	55049 5	1210.44	304.641	1.01327	309.242	39.1894	45.5809	993.383	995.7	291.239	0.918917	3.04477	130.683	251.358	1.37042	24.9	62.1	442.819	100.699	73.7999	79.5997	25.5025	34.9	202.86	8.30344	215.237	0.056
02:35:53 AM	875	55049 6	1209.59	304.818	1.01327	309.254	39.1814	45.5921	993.382	995.7	286.315	0.639008	3.04477	130.56	252.567	1.39602	24.9	61.9775	442.641	100.7	73.8	79.5999	25.5005	34.9	200.496	8.27003	215.14	0.065025
02:35:54 AM	875	55049 7	1210.32	305.291	1.01327	309.292	39.1833	45.5942	993.382	995.7	284.59	0.64764	3.03561	131.044	250.142	1.44185	24.9	61.9144	442.608	100.7	73.9709	79.6	25.5001	34.9	198.18	8.30496	214.93	0.085714
02:35:55 AM	875	55049 8	1211.26	305.563	1.01327	309.328	39.1821	45.5893	993.38	995.7	292.782	0.549187	3.03331	132.236	251.013	1.46465	24.9	61.9027	442.601	100.659	74.0761	79.8444	25.5	34.9	195.851	8.31143	214.702	0.1064
02:35:56 AM	875	55049 9	1211.98	304.919	1.01328	309.338	39.1963	45.5937	993.378	995.7	286.903	0.475359	3.0379	133.337	247.354	1.51151	24.9	61.9005	442.6	100.611	74.0956	79.8897	25.5	34.9	193.551	8.37137	214.616	0.017734
02:35:57 AM	875	55050 0	1210.44	305.793	1.01326	309.32	39.215	45.5306	993.379	995.7	291.775	0.51997	3.02338	133.444	249.586	1.51609	24.9	61.9001	442.6	100.602	74.0992	79.8981	25.5	34.9	191.238	8.31019	214.677	0.1064
02:37:27 AM	875	55059 0	1008.29	267.403	1.01323	269.738	28.5844	45.5946	993.422	995.398	168.874	0.643087	2.34088	128.579	220.696	1.40482	24.9	55.501	411.604	97.4162	73.2047	79.5135	25.3	34.7	201.399	6.191	221.047	0.065025
02:37:28 AM	875	55059 1	1017.57	265.244	1.01323	269.27	28.5294	45.5824	993.422	995.398	168.23	0.333235	2.45946	127.36	221.808	1.40047	24.9	55.5002	411.601	97.3215	73.2009	79.5025	25.3	34.7	199.637	6.21043	220.881	0.1064
02:37:29 AM	875	55059 2	1011.43	268.656	1.01323	268.728	28.4736	45.5899	993.421	995.398	164.242	0.478456	2.43957	127.911	222.329	1.37323	24.9	55.5	411.47	97.304	73.202	79.5005	25.3	34.7	197.926	6.17396	220.577	0.1064
02:37:30 AM	875	55059 3	1010.1010	267.947	1.01323	268.542	28.4127	45.5938	993.419	995.398	179.853	0.421566	2.42656	128.501	222.321	1.38383	24.9	55.3291	410.517	97.3007	73.2	79.5001	25.3	34.7	196.208	6.18284	220.501	0.1064
02:37:31 AM	875	55059 4	1011.77	263.913	1.01322	268.668	28.4375	45.5945	993.423	995.398	170.788	0.422684	2.5084	128.756	223.027	1.32688	24.9	55.2239	410.34	97.3001	73.2	79.5	25.3	34.7	194.546	6.19099	220.521	0.026601
02:37:32 AM	875	55059 5	1010.59	266.707	1.01322	268.828	28.5188	45.5946	993.427	995.398	162.857	0.993004	2.45716	131.093	217.044	1.33647	24.9	55.2044	410.307	97.3	73.2	79.5	25.3	34.7	192.832	6.13366	220.359	0.221675

02:37:33 AM	875	55059 6	1020	266. 447	1.01321	268.799	28.6059	45.59 46	993. 43	995.398	171.088	0.867 278	2.4495 1	128.6 86	220.46 6	1.29 305	24.9	55.2008	410.3 01	97.3	73.34 06	79.5	25.3	34.7	191.1 46	6.155 21	219. 972	0.008 867
02:37:34 AM	875	55059 7	1010. 04	264. 404	1.01321	268.978	28.6491	45.59 47	993. 435	995.398	170.605	1.154 38	2.4426 3	128.2 49	220.87 8	1.27 389	24.9	55.2002	410.3	97.3	73.47 05	79.568 6	25.3	34.7	189.5 03	6.147 84	219. 261	0.106 4
02:37:35 AM	875	55059 8	1020. 67	263. 049	1.01321	269.12	28.592	45.59 47	993. 433	995.398	164.835	0.924 713	2.4908 2	127.6 57	222.26 7	1.35 663	24.9	55.2	410.3	97.544 4	73.49 45	79.594 2	25.3	34.7	187.8 08	6.128 86	218. 578	0.106 4
02:37:36 AM	875	55059 9	1032. 31	265. 56	1.0133	269.112	28.5408	45.59 47	993. 438	995.398	171.652	0.815 804	2.4931 1	127.7 4	223.00 8	1.38 2	24.938	55.2	410.3	97.589 7	73.49 9	79.598 9	25.3	34.7	186.0 78	6.122 56	218. 139	0.106 4
02:37:37 AM	875	55060 0	1011. 46	263. 694	1.01373	268.847	28.5316	45.59 47	993. 435	995.398	170.597	0.845 93	2.5099 3	129.7 76	224.61 7	1.40 817	25.07	55.2	409.5 65	97.598 1	73.49 98	79.599 8	25.3	34.7	184.3 72	6.130 22	217. 946	0.144 828
02:37:38 AM	875	55060 1	1011. 94	264. 741	1.01381	268.693	28.5752	45.59 47	993. 437	995.398	165.554	0.847 924	2.4793 5	131.4 29	221.97 9	1.44 333	25.0944	54.9686	409.1 86	97.599 6	73.5	79.6	25.3	34.7	182.6 71	6.108 06	217. 859	0.106 4
02:37:39 AM	875	55060 2	1015. 74	263. 303	1.01383	268.634	28.612	45.60 07	993. 436	995.398	158.382	0.738 398	2.5290 3	134.9 19	211.40 6	1.32 929	25.099	54.9127	409.1 16	97.599 9	73.73 14	79.6	25.3	34.7	180.9 82	6.111 63	217. 629	0.065 026
02:37:40 AM	875	55060 3	1012. 3	268. 034	1.01382	268.557	28.6034	45.59 58	993. 442	995.398	166.987	0.803 204	2.4808 8	134.7 43	215.83 7	1.31 495	25.0998	54.9024	409.1 03	97.404 6	73.78 73	79.6	25.3	34.6 7	179.3 03	6.094 73	217. 273	0.026 601
02:37:41 AM	875	55060 4	1008. 21	267. 873	1.01381	268.724	28.6253	45.58 9	993. 448	995.398	172.578	1.107 62	2.4403 3	131.5 15	220.68 1	1.29 774	25.1	54.9004	409.1 01	97.319 4	73.79 76	79.6	25.3	34.4 5	177.5 5	6.087 75	216. 885	0.106 404
02:37:42 AM	875	55060 5	1018. 01	266. 332	1.01335	269.095	28.5951	45.59 36	993. 454	995.398	167.95	1.041 18	2.4449 2	128.8 22	222.04 1	1.29 911	24.9508	54.9001	408.8 29	97.303 6	73.79 96	79.6	25.3	34.4 093	175.8 77	6.117 77	216. 579	0.106 4
02:37:43 AM	875	55060 6	1017. 48	264. 919	1.01321	269.438	28.6508	45.59 45	993. 459	995.398	158.97	1.073 98	2.4609 9	129.3 04	223.41 7	1.35 41	24.9094	54.7861	408.2 35	97.300 7	73.79 99	79.6	25.3	34.4 017	174.1 8	6.138 13	216. 344	0.029 56
02:37:44 AM	875	55060 7	1015. 77	265. 761	1.01318	269.369	28.6551	45.59 46	993. 459	995.398	159.439	0.746 687	2.4885 3	130.2 46	225.48 2	1.37 142	24.9017	54.716	408.1 25	97.300 1	73.97 08	79.6	25.3	34.4 003	172.4 91	6.130 09	216. 186	0.026 601
02:37:45 AM	875	55060 8	1011. 71	264. 091	1.01319	269.257	28.6348	45.60 21	993. 453	995.398	175.995	1.063 29	2.5160 5	133.5 11	220.37 7	1.37 867	24.9003	54.703	408.1 05	97.218 1	74.07 61	79.838 2	25.3	34.4 001	170.7 97	6.116 91	216. 189	0.153 695
02:37:46 AM	875	55060 9	1016. 32	267. 551	1.01318	269.301	28.6295	45.59 6	993. 461	995.398	167.631	0.956 664	2.4365 1	137.8 9	212.80 6	1.37 805	24.9001	54.7005	408.1 01	97.121 9	74.09 56	79.888 6	25.3	34.4	169.1 08	6.122 29	216. 31	0.106 4
02:37:47 AM	875	55061 0	1004. 01	265. 674	1.01317	269.324	28.554	45.59 49	993. 466	995.171	172.591	0.744 835	2.5252 1	136.2 46	216.00 4	1.43 553	24.9	54.7001	408.1	97.104 1	74.09 92	79.897 9	25.3	34.4	167.4 08	6.130 74	216. 616	0.008 867
02:37:48 AM	875	55061 1	1016. 94	266. 885	1.01317	269.11	28.5295	45.59 47	993. 468	995.398	170.277	0.550 271	2.5412 6	131.9 04	222.31 1	1.39 09	24.9	54.643	407.6 2	97.100 8	74.09 98	79.899 6	25.3	34.4	165.6 66	6.113 5	216. 98	0.174 384
02:37:49 AM	875	55061 2	1019. 65	265. 226	1.01316	269.058	28.5523	45.59 47	993. 476	995.171	171.672	0.788 003	2.5878 7	129.1 33	225.09 8	1.34 725	24.9	54.445	407.4 41	97.100 1	74.1	79.899 9	25.3	34.4	163.9 72	6.129 52	217. 205	0.106 4
02:37:50 AM	875	55061 3	1022. 81	264. 503	1.01315	269.365	28.5917	45.59 47	993. 484	995.398	186.496	0.722 133	2.5588 3	129.4 54	226.29 9	1.32 952	24.9	54.4083	407.4 08	97.1	74.1	80.184 8	25.3	34.4	162.2 67	6.118 97	217. 275	0.065 025
02:37:51 AM	875	55061 4	1015. 68	265. 541	1.01314	269.899	28.7337	45.59 47	993. 488	995.398	176.984	1.155 03	2.4755 2	131.8 48	225.49 2	1.25 156	24.9	54.4015	407.4 01	96.861 8	74.1	80.360 1	25.3	34.4	160.5 24	6.132 47	217. 032	0.067 98
02:37:52 AM	875	55061 5	1020. 87	263. 557	1.01314	270.194	28.8055	45.59 47	993. 49	995.171	168.847	0.782 499	2.4671 1	135.4 13	225.36 5	1.28 041	24.9	54.4003	407.4	96.811 4	74.1	80.392 6	25.3	34.4	158.8 52	6.123 23	216. 524	0.047 291
02:37:53 AM	875	55061 6	1014. 68	263. 378	1.01314	270.101	28.8089	45.59 47	993. 49	995.398	175.626	0.675 797	2.5137 5	139.5 06	213.92 6	1.34 462	24.9	54.4001	407.0 25	96.802 1	74.1	80.398 6	25.3	34.4	157.1 74	6.121 51	215. 995	0.106 4
02:37:54 AM	875	55061 7	1013. 36	266. 981	1.01314	269.829	28.6953	45.59 47	993. 492	995.171	171.962	0.800 174	2.4793 5	138.2 47	213.55 9	1.33 668	24.9	54.3314	406.6 79	96.800 4	74.1	80.399 7	25.3	34.4	155.4 32	6.121 2	215. 704	0.047 291
02:37:55 AM	875	55061 8	1023. 32	262. 818	1.01314	269.653	28.5626	45.59 47	993. 493	995.398	172.56	0.856 685	2.5282 7	133.6 64	221.01 6	1.37 41	24.9	54.3058	406.6 15	96.800 1	74.02 82	80.362	25.3	34.4	153.8 07	6.137 82	215. 916	0.017 734
02:37:56 AM	875	55061 9	1017. 87	256. 453	1.01313	269.44	28.5022	45.59 47	993. 5	995.171	171.096	1.097 53	2.6054 4	131.2 68	224.97	1.35 876	24.9	54.3011	406.6 03	96.695 7	74.00 52	80.23	25.2	185	152.1 08	6.125 16	216. 453	0.106 4
02:39:11 AM	875	55069 4	1605. 37	283. 877	1.01249	286.728	48.2191	45.60 7	993. 518	995.398	354.713	4.438 92	4.2359 4	111.8 19	276.13 2	1.52 144	24.7	60.795	418.5 97	96.6	74.33 25	79.1	24.8 958	34.4	369.0 89	10.24 86	215. 5	0.106 4
02:39:12 AM	875	55069 5	1605. 07	283. 807	1.0125	286.823	48.2458	45.60 53	993. 513	995.398	350.068	4.840 79	4.2328 8	111.6 55	276.25 6	1.51 65	24.7	60.7991	418.5 99	96.6	74.38 75	79.1	24.8 992	34.4	366.2 24	10.27 67	215. 429	0.106 4

02:39:13 AM	875	55069 6	1604 8	283 627	1.0125	286.929	48.266	45.60 98	993. 51	995.398	361.262	4.942 05	4.239	108.4 46	282.78 4	1.52 141	24.7	60.7998	418.6	96.6	74.39 77	79.1	24.8 999	34.4	363.3 63	10.26 92	215. 399	0.106 4
02:39:14 AM	875	55069 7	1604 92	283. 718	1.0125	287.034	48.2772	45.59 93	993. 511	995.398	362.697	4.731 97	4.2321 2	111.9 45	278.14 2	1.53 487	24.7	60.8	418.8 81	96.6	74.39 96	79.1	24.9	34.4	360.6 09	10.25 55	215. 381	0.106 4
02:39:15 AM	875	55069 8	1605. 18	284. 028	1.01251	287.132	48.2814	45.61 44	993. 509	995.398	356.276	4.653 29	4.2321 2	117.8 35	268.71 4	1.53 985	24.7	60.8717	419.1 41	96.6	74.39 99	79.1	24.9	34.4	357.7 67	10.22 93	215. 351	0.017 734
02:39:16 AM	875	55069 9	1605. 61	284. 44	1.0125	287.22	48.2905	45.59 83	993. 507	995.398	363.918	4.823 82	4.2344 1	114.5 56	276.29	1.55 964	24.7	60.8948	419.1 89	96.6	74.99 66	79.235 5	24.9	34.4	354.9 1	10.22 05	215. 279	0.008 867
02:39:17 AM	875	55070 0	1605. 41	284. 356	1.0125	287.324	48.3118	45.60 08	993. 507	995.398	359.831	4.899 77	4.2321 2	109.6 32	281.54 4	1.54 474	24.7	60.899	419.1 98	96.6	75.16 23	79.532 5	24.9	34.4	352.0 64	10.25 11	215. 069	0.059 11
02:39:18 AM	875	55070 1	1605. 02	284. 136	1.0125	287.435	48.3421	45.59 58	993. 508	995.171	357.382	5.094 7	4.2359 4	107.8 38	283.76	1.53 579	24.7	60.8998	419.2	96.6	75.19 3	79.587 5	24.9	34.2 412	349.3 33	10.25 51	214. 851	0.106 4
02:39:19 AM	875	55070 2	1605. 25	283. 864	1.01251	287.527	48.3671	45.61 34	993. 505	995.398	357.231	5.175 82	4.2374 7	113.4 54	274.76 8	1.52 274	24.7	60.9	419.2	96.6	75.19 87	79.597 7	24.9	34.2 076	346.4 9	10.21 17	214. 629	0
02:39:20 AM	875	55070 3	1605. 48	283. 644	1.0125	287.578	48.3691	45.59 81	993. 51	995.171	366.677	4.913 87	4.2351 8	109.6 94	282.22	1.50 884	24.7	60.9819	419.5 26	96.6	75.19 98	79.599 6	24.9	34.2 014	343.7 05	10.20 37	214. 442	0.079 8
02:39:21 AM	875	55070 4	1605. 54	283. 085	1.0125	287.588	48.3497	45.61 27	993. 507	995.398	363.659	4.892 17	4.2313 6	106.6 52	283.71 8	1.51 688	24.7	61.0781	419.5 86	96.6	75.66 95	79.599 9	24.9	34.2 003	340.9 34	10.19 95	214. 32	0.162 562
02:39:22 AM	875	55070 5	1604. 98	283. 303	1.01251	287.54	48.312	45.60 63	993. 507	995.171	355.591	4.916 52	4.2305 9	108.0 31	283.70 1	1.50 961	24.7	61.0959	419.5 97	96.681 3	76.02 02	80.271 2	24.9	34.2 001	338.0 99	10.18 83	214. 176	0.079 8
02:39:23 AM	875	55070 6	1604. 78	283. 327	1.01251	287.426	48.27	45.61 25	993. 503	995.398	359.941	5.003 01	4.2359 4	110.1 04	280.09 9	1.50 015	24.7	61.0992	419.6	96.859 5	76.08 52	80.457 6	24.9	34.2	335.2 87	10.17 67	214. 048	0.008 867
02:39:24 AM	875	55070 7	1604. 85	283. 157	1.0126	287.271	48.2405	45.59 8	993. 507	995.398	363.307	4.970 56	4.2344 1	109.8 02	282.91 9	1.48 354	24.7344	61.0999	419.6	96.892 5	76.09 73	80.492 1	24.9	34.2	332.4 55	10.13 85	213. 936	0.011 82
02:39:25 AM	875	55070 8	1604. 89	283. 041	1.01277	287.111	48.2259	45.60 28	993. 509	995.398	361.911	5.226 4	4.2290 6	108.7 57	285.16 1	1.48 093	24.7878	61.1	419.6	96.898 6	76.09 95	80.498 5	24.9	34.2	329.6 6	10.17 72	213. 799	0.106 4
02:39:26 AM	875	55070 9	1604. 82	282. 763	1.0128	286.965	48.2091	45.60 53	993. 511	995.171	356.351	5.017 83	4.2252 4	108.6 89	286.07 9	1.49 561	24.7977	61.1815	419.6	96.899 7	76.07 99	80.499 7	24.9	34.2	326.8 74	10.16 21	213. 708	0.133 005
02:39:27 AM	875	55071 0	1604. 41	282. 328	1.01281	286.828	48.1909	45.60 27	993. 507	995.398	353.667	5.030 01	4.2313 6	108.3 83	286.15 336	1.51 24.7996	61.1966	419.6	96.9	75.93 33	80.604 3	24.9	34.2	324.0 69	10.12 03	213. 614	0.106 4	
02:39:28 AM	875	55071 1	1604. 66	282. 479	1.01281	286.689	48.1601	45.60 53	993. 511	995.171	359.228	4.701 46	4.2221 9	108.4 65	285.43 4	1.52 828	24.7999	61.1994	419.6	96.828 2	75.90 62	80.682 3	24.9	34.2 542	321.2 43	10.09 37	213. 504	0
02:39:29 AM	875	55071 2	1604. 97	282. 584	1.01281	286.56	48.1243	45.59 85	993. 51	995.171	357.912	4.813 02	4.2252 4	109.0 15	286.61 8	1.53 241	24.8	61.1999	419.6	96.805 2	75.90 11	80.696 7	24.9	34.3 73	318.4 33	10.11 01	213. 39	0
02:39:30 AM	875	55071 3	1605. 12	282. 99	1.01258	286.436	48.0875	45.59 54	993. 51	995.171	365.731	4.956 57	4.2244 8	109.7 48	285.29 9	1.53 835	24.7254	61.2	419.6	96.801 4	75.90 02	80.699 4	24.9	34.3 95	315.6 02	10.12 99	213. 243	0.047 291
02:39:31 AM	875	55071 4	1604. 74	283. 501	1.01251	286.349	48.0843	45.59 74	993. 511	995.398	354.74	4.663 49	4.2260 1	109.6 85	285.51 3	1.54 256	24.7047	61.2	419.6 89	96.800 2	75.9	80.699 9	24.9	34.3 991	312.8 2	10.09 95	213. 115	0.106 4
02:39:32 AM	875	55071 5	1604. 64	283. 557	1.0125	286.335	48.1107	45.60 01	993. 511	995.171	364.235	4.621 11	4.2252 4	109.9 69	286.96 4	1.52 65	24.7009	61.2	419.6 98	96.8	75.63 95	80.68	24.9	34.3 998	310.0 27	10.10 44	212. 98	0.106 4
02:39:33 AM	875	55071 6	1604. 52	283. 369	1.0125	286.39	48.1523	45.60 17	993. 512	995.398	357.173	4.555 72	4.2336 5	110.1 06	285.07 6	1.52 621	24.7002	61.2	419.7	96.565 7	75.52 58	80.533 3	24.9	34.4	307.2 14	10.06 52	212. 847	0.056 158
02:39:34 AM	875	55071 7	1605. 16	283. 15	1.01249	286.49	48.1921	45.59 6	993. 512	995.171	363.617	4.747 21	4.2305 9	110.0 07	286.34 4	1.51 113	24.7	61.2	419.7	96.349 2	75.50 48	80.506 2	24.9	34.4 651	304.3 72	10.08 02	212. 635	0.124 138
02:39:35 AM	875	55071 8	1604. 96	283. 383	1.01267	286.61	48.2217	45.59 93	993. 511	995.398	363.401	4.999 34	4.2305 9	110.7 76	285.53 4	1.50 926	24.757	61.2	419.7	96.309 1	75.50 09	80.501 1	24.9 935	34.2 105	301.6 25	10.08 68	212. 366	0.106 4
02:39:36 AM	875	55071 9	1605. 17	283. 279	1.01278	286.759	48.2368	45.59 55	993. 509	995.171	355.792	4.703 17	4.2313 6	110.4 59	285.40 1	1.52 112	24.792	61.2688	420.0 73	96.301 7	75.50 02	80.500 2	24.9 988	34.2 019	298.8 14	10.07 33	212. 072	0.106 4
02:39:37 AM	875	55072 0	1604. 58	283. 223	1.01281	286.889	48.241	45.59 48	993. 506	995.398	362.58	4.572 62	4.2290 6	111.2 77	284.93	1.52 192	24.7985	61.3757	420.1 76	96.300 3	75.19 05	80.5	24.9 998	34.2 004	296.0 71	10.05 41	211. 796	0.106 4
02:39:38 AM	875	55072 1	1605. 08	282. 603	1.01281	286.942	48.2334	45.59 47	993. 504	995.171	354.836	4.524 2	4.2260 1	113.5 09	281.93 5	1.51 324	24.7997	61.3955	420.1 96	96.300 1	74.70 94	80.088 3	25	34.2 001	293.2 63	10.01 89	211. 629	0

02:39:39 AM	875	55072 2	1604.65	282.558	1.01281	286.888	48.2148	45.59 47	993.502	995.398	359.41	4.613 53	4.2260 1	112.4 79	283.68 1	1.50 898	24.7999	61.3992	420.1 99	96.137 1	74.62 03	79.934 9	25	34.2	290.4 79	10.03 53	211.476	0.106 4
02:39:40 AM	875	55072 3	1604.82	282.354	1.01282	286.773	48.1757	45.61 13	993.505	995.398	358.332	4.514 11	4.2298 3	110.2 57	284.99 2	1.49 33	24.8	61.3998	420.2	96.106 9	74.60 38	79.906 5	25	34.2	287.6 78	10.02 56	211.32	0.106 4
02:40:41 AM	875	55078 4	2017.18	274.866	1.01287	277.677	58.6573	45.53 85	993.441	995.171	491.892	9.577 54	4.7394 6	91.84 15	342.36 6	1.47 759	24.8	68.2988	422.1 99	97.1	75.9	80.1	24.8	34.4	93.04 95	12.32 91	212.057	0
02:40:42 AM	875	55078 5	2016.57	274.754	1.01286	277.764	58.6841	45.51 4	993.441	995.398	493.391	9.567 61	4.7440 4	92.53 71	343.26 2	1.47 672	24.8	68.2998	422.2	97.1	75.9	80.1	24.8	34.4	89.62 57	12.33 47	212.389	0.144 828
02:40:43 AM	875	55078 6	2016.66	274.472	1.01287	277.867	58.7197	45.51 61	993.433	995.398	484.595	9.436 56	4.7402 2	92.48 63	343.51 7	1.48 549	24.8	68.4228	423.0 73	97.1	75.9	80.1	24.8	34.4	86.21 65	12.33 57	212.558	0.106 4
02:40:44 AM	875	55078 7	2016.4	274.645	1.01288	277.941	58.7475	45.51 73	993.427	995.398	488.077	9.496 72	4.7379 3	93.18 05	343.46 8	1.48 11	24.8	68.5672	423.2 58	97.1	75.9	80.1	24.8	34.4	82.77 83	12.33 12	212.618	0.020 69
02:40:45 AM	875	55078 8	2016.62	274.538	1.01288	278.015	58.7495	45.52 92	993.432	995.398	492.791	9.374 03	4.7409 8	93.36 55	343.69 5	1.49 874	24.8	68.5939	423.2 92	97.13	75.9	80.243 5	24.8	34.4	79.30 4	12.33 33	212.623	0.020 69
02:40:46 AM	875	55078 9	2016.96	274.598	1.01288	278.094	58.739	45.53 97	993.432	995.171	490.67	9.467 24	4.7386 9	92.79 02	345.14 3	1.50 311	24.8	68.5989	423.2 99	97.35	75.9	80.289 5	24.8	34.4	75.91 58	12.34 78	212.627	0.106 4
02:40:47 AM	875	55079 0	2016.71	274.95	1.01286	278.156	58.7318	45.49 73	993.437	995.171	492.64	9.614 01	4.7417 5	93.52 84	344.24 321	1.49 321	24.8	68.5998	423.3	97.390 7	75.9	80.298 1	24.8	34.4	72.49 35	12.35 58	212.666	0.029 56
02:40:48 AM	875	55079 1	2016.78	275.138	1.01286	278.182	58.7417	45.49 25	993.436	995.398	487.158	9.594 75	4.7364	93.87 32	345.74 9	1.49 718	24.8	68.6	423.8 86	97.398 3	75.9	80.299 6	24.8	34.4	69.01 22	12.36 74	212.731	0.085 714
02:40:49 AM	875	55079 2	2016.5	275.086	1.01286	278.217	58.766	45.49 6	993.439	995.171	493.749	9.629 67	4.7379 3	94.37 73	346.74 2	1.47 709	24.8	68.9176	424.1 42	97.399 7	75.9	80.299 9	24.8	34.4	65.59 05	12.38 72	212.816	0.047 291
02:40:50 AM	875	55079 3	2016.44	275.245	1.01285	278.277	58.7933	45.48 92	993.438	995.398	493.489	9.727 75	4.7318 2	95.24 56	345.99 2	1.47 793	24.8	68.9847	424.1 89	97.399 9	76.05 88	80.3	24.8	34.4	62.18 37	12.38 82	212.914	0.038 424
02:40:51 AM	875	55079 4	2016.67	275.481	1.01285	278.374	58.8235	45.49 79	993.441	995.171	498.883	9.565 82	4.7310 5	94.70 9	346.55 9	1.48 887	24.8	68.9972	424.1 98	97.4	76.09 24	80.3	24.8	34.4	58.71 79	12.38 83	213.01	0.038 424
02:40:52 AM	875	55079 5	2016.05	275.021	1.01285	278.492	58.8469	45.50 37	993.444	995.398	495.481	9.469 82	4.7402 2	95.29 35	347.76 7	1.49 138	24.8	68.9995	424.2	97.4	76.09 86	80.3	24.8	34.4	55.25 24	12.41 92	213.096	0.038 424
02:40:53 AM	875	55079 6	2016.87	274.711	1.01284	278.584	58.8539	45.47 83	993.451	995.398	497.934	9.435 99	4.7409 8	94.94 58	346.51 9	1.50 106	24.8	68.9999	424.3 63	97.4	76.09 97	80.3	24.8	34.4	51.87 69	12.41 8	213.201	0.106 4
02:40:54 AM	875	55079 7	2016.55	275.101	1.01283	278.632	58.8478	45.47 36	993.451	995.398	489.324	9.557 93	4.7394 6	95.34 68	347.02 7	1.49 646	24.8	69.1708	424.7 19	97.4	76.1	80.3	24.8	34.4	48.47 73	12.36 84	213.288	0.026 601
02:40:55 AM	875	55079 8	2016.39	275.674	1.01283	278.645	58.836	45.48 51	993.457	995.171	498.331	9.595 65	4.7318 2	95.39 76	346.39 9	1.49 285	24.8	69.2761	424.7 85	97.4	75.90 46	80.3	24.8	34.4	45.00 14	12.38 13	213.363	0.106 4
02:40:56 AM	875	55079 9	2016.23	275.529	1.01283	278.685	58.8393	45.50 35	993.467	995.398	497.877	9.490 24	4.7325 8	95.13 96	347.32 7	1.49 475	24.8	69.2956	424.7 97	97.540 6	75.81 94	80.220 6	24.8	34.4	40.90 76	12.39 72	213.41	0.106 4
02:40:57 AM	875	55080 0	2016.31	275.383	1.01281	278.738	58.8549	45.47 83	993.474	995.398	496.234	9.409 18	4.7272 3	96.37 45	348.63 977	1.47 977	24.8	69.2992	424.7 99	97.670 5	75.80 36	80.203 8	24.8	34.4	59.49 1	12.40 02	213.366	0.065 025
02:40:58 AM	875	55080 1	2016.41	276.008	1.0128	278.782	58.8859	45.48 89	993.482	995.398	501.047	9.448 03	4.7287 6	96.83 28	348.90 3	1.47 085	24.8	69.2999	424.8	97.694 5	75.80 07	80.200 7	24.8	34.4	94.28 46	12.40 07	213.285	0.106 4
02:40:59 AM	875	55080 2	2016.06	276.357	1.0128	278.86	58.9234	45.49 19	993.485	995.398	497.688	9.591 51	4.7295 2	96.95 6	348.09 639	1.46 639	24.8	69.357	425.5 46	97.699	75.80 01	80.200 1	24.9	34.4	126.7 12	12.40 08	213.208	0.106 4
02:41:00 AM	875	55080 3	2016.19	276.064	1.01279	279.013	58.9596	45.47 62	993.488	995.171	493.069	9.676 9	4.7333 4	98.60 24	346.03 5	1.45 968	24.8	69.555	425.7 53	97.699 8	75.73 12	80.2	24.9	34.4	157.8 88	12.40 09	213.125	0.106 4
02:41:01 AM	875	55080 4	2016.65	276.071	1.01279	279.197	58.994	45.49 09	993.489	995.398	501.613	9.649 42	4.7325 8	97.41 8	347.89 7	1.47 451	24.8	69.5917	425.7 91	97.7	75.62 43	80.138 7	24.9	34.4	187.2 78	12.40 09	213.065	0.026 601
02:41:02 AM	875	55080 5	2015.89	275.965	1.01279	279.326	59.0222	45.51 05	993.496	995.398	495.614	9.761 48	4.7272 3	96.63 69	347.67 6	1.47 903	24.8	69.5985	425.7 98	98.025 9	75.60 45	80.107 2	24.9	34.4	215.6 69	12.40 09	212.983	0.106 4
02:41:03 AM	875	55080 6	2015.64	275.007	1.01278	279.4	59.0244	45.47 96	993.496	995.171	491.952	9.593 67	4.7249 4	96.36 4	348.79 7	1.48 763	24.8	69.5997	425.8	98.086 3	75.60 08	80.101 3	24.9	34.4	243.7 62	12.40 09	212.891	0.106 4
02:41:04 AM	875	55080 7	2016.02	274.854	1.01278	279.399	58.9902	45.47 39	993.496	995.398	496.341	9.588 38	4.7295 2	96.60 06	349.81 7	1.49 891	24.8	69.5999	426.0 34	98.097 5	75.60 02	80.100 3	24.9	34.4	271.1 72	12.40 09	212.839	0.106

02:42:14 AM	906	550877	2406.86	167.118	1.01316	169.363	42.7164	45.4624	993.428	995.398	469.255	3.39137	5.10162	66.4793	415.567	1.42208	24.9	70.8	378.036	97.7981	76.1	79.5	25.7171	34.4	479.743	10.3716	244.803	0.02956
02:42:15 AM	906	550878	2407.34	166.482	1.01316	169.365	42.729	45.458	993.428	995.398	464.449	3.34623	5.09627	66.5796	418.981	1.42374	24.9	70.8	377.844	97.7996	76.1	79.5	25.7846	34.4	476.898	10.3665	245.08	0.1064
02:42:16 AM	906	550879	2405.83	166.331	1.01316	169.319	42.6989	45.465	993.431	995.398	471.297	3.64909	5.11461	66.9978	420.271	1.42798	24.9	70.8	377.808	97.7999	76.2954	79.53	25.8766	34.4	474.01	10.3694	245.398	0.008867
02:42:17 AM	906	550880	2405.63	166.31	1.01316	169.254	42.6288	45.462	993.434	995.398	471.23	3.61195	5.10926	67.2424	417.652	1.42759	24.9	70.8	377.802	98.0608	76.3806	79.75	25.9674	34.4	471.146	10.4091	245.772	0.115271
02:42:18 AM	906	550881	2406.78	165.797	1.01314	169.136	42.551	45.448	993.438	995.398	476.466	3.58942	5.11232	67.3896	420.419	1.42754	24.9	70.8	377.8	98.2557	76.3964	79.7907	25.994	34.4	468.289	10.4143	246.233	0.094581
02:42:19 AM	906	550882	2404.4	165.371	1.01314	168.93	42.4706	45.4421	993.443	995.398	474.09	3.43506	5.1085	67.6487	420.365	1.43201	24.9	70.8	377.8	98.2918	76.3993	79.7983	26.0398	34.4	465.403	10.3998	246.789	0.026601
02:42:20 AM	906	550883	2407.51	166.026	1.01312	168.659	42.4011	45.4236	993.447	995.398	469.7	3.64012	5.11155	67.4141	419.969	1.42971	24.9	70.8271	377.26	98.2985	76.3999	79.7997	26.0889	34.4	462.563	10.3972	247.397	0.144828
02:42:21 AM	906	550884	2407.94	166.233	1.01313	168.418	42.3641	45.4263	993.448	995.398	473.511	3.81289	5.10009	67.0671	420.796	1.43071	24.9	70.8865	377.13	98.2997	76.4409	79.7999	26.0979	34.4	459.693	10.3732	247.997	0.1064
02:42:22 AM	906	550885	2409.06	166.731	1.01313	168.284	42.3626	45.4388	993.453	995.398	479.185	3.57657	5.10773	66.7801	422.595	1.42664	24.9	70.8975	377.105	98.2999	76.4891	79.9303	26.179	34.4	456.872	10.3515	248.368	0.065025
02:42:23 AM	906	550886	2408.34	166.825	1.01312	168.274	42.4164	45.4301	993.454	995.398	467.485	3.7761	5.09933	69.5814	423.356	1.42353	24.9	70.8995	377.101	98.5382	76.498	79.9871	26.1961	34.4	454.04	10.3127	248.391	0.1064
02:42:24 AM	906	550887	2407.88	166.362	1.01314	168.331	42.4863	45.4592	993.452	995.398	471.768	3.80377	5.10926	69.8692	424.422	1.42542	24.9	70.8999	377.1	98.5886	76.4996	79.9976	26.1993	34.4	451.148	10.3047	248.015	0.115271
02:42:25 AM	906	550888	2408.75	166.425	1.01313	168.413	42.548	45.4467	993.445	995.398	475.278	3.97161	5.10086	69.7683	424.229	1.42397	24.9	70.9	376.787	98.5979	76.4999	79.9996	26.1999	34.4	448.306	10.2978	247.324	0.1064
02:42:26 AM	906	550889	2407.86	166.988	1.01313	168.541	42.5756	45.4418	993.449	995.398	472.012	3.5536	5.10162	69.8656	423.932	1.42494	24.9	70.9	376.553	98.5996	76.5	79.9999	26.2	34.4	445.482	10.3175	246.531	0.05911

APPENDIX AH: RAW DATA – BDW50 BLEND AT 20°BTDC

Manual Log Description : Power Curve on 50% base diesel and 50% waste cooking oil with 20° timing
 Manual Log Start Date : 2012/03/08
 Manual Log Start Time : 02:58:29 AM

TIME	mSec	Eng_Ti me	Spee d	Torq ue	~ECE_Corr _Factor	~Torque _Corr	~Power _Corr	Humi dity	~P_B aro	P_Pre_Co mpressor	P_Post_Co mpressor	P_Exh aust	P_Oil_ Filter	P_Co ol_In	P_Cool _Out	P_F uel	T_Air_In_ Snorkel	T_Post_Co mpressor	T_Exh aust	T_Oil_ Sump	T_Co ol_In	T_Cool _Out	T_Fu el	T_C ell	Fuel_ Mass	Fuel_ Flow	~SFC	Smok e
02:58:31 AM	765	551396	261002	263.302	1.01289	267.197	73.0158	45.2719	993.352	995.7	845.567	9.51257	5.04279	65.8604	473.715	1.31573	24.8044	99.7	456.891	105.22	77.3936	82.1598	29.9042	34.4	381.754	16.817	233.242	0.1064
02:58:32 AM	765	551399	260986	263.122	1.01288	267.154	72.9894	45.2686	993.353	995.7	844.377	9.57206	5.06112	63.7427	469.988	1.31653	24.8008	99.7	456.898	105.367	77.0729	81.8667	29.9822	34.4	370.896	16.7633	233.445	0.174384
02:58:33 AM	765	551400	261009	263.009	1.01287	267.065	72.947	45.2555	993.354	995.7	842.369	9.55781	5.03362	63.2172	470.955	1.31951	24.8002	99.7	456.831	105.394	77.0135	81.8124	29.9967	34.4	365.161	16.7726	233.458	0.1064
02:58:34 AM	765	551401	260998	262.833	1.01286	266.934	72.8935	45.2394	993.354	995.7	844.62	9.50944	5.03973	61.5336	471.836	1.31941	24.8	99.7	456.724	105.399	77.0025	81.8023	30.0563	34.4	360.294	16.8061	233.387	0.047291
02:58:35 AM	765	551402	261033	262.956	1.01286	266.768	72.847	45.2424	993.354	995.7	846.154	9.44027	5.05119	61.7070	471.514	1.31929	24.8	99.7	456.704	105.4	76.3879	81.8004	30.0919	34.4	355.601	16.8524	233.341	0.094581
02:58:36 AM	765	551403	261046	262.827	1.01286	266.618	72.8179	45.2398	993.352	995.7	846.268	9.45123	5.05501	61.5394	472.276	1.31866	24.8	99.7	456.701	105.494	76.0719	81.0668	30.0985	34.4	350.849	16.8631	233.403	0.1064
02:58:37 AM	765	551404	261017	262.738	1.01287	266.485	72.8009	45.2596	993.352	995.7	840.315	9.48257	5.04661	61.5435	470.91	1.31664	24.8	99.7	456.7	105.58	76.0133	80.9309	30.0997	34.5	346.144	16.8542	233.616	0.1064
02:58:38 AM	765	551405	261002	262.849	1.01287	266.384	72.7872	45.2618	993.351	995.7	837.562	9.40776	5.04279	60.532	469.758	1.3147	24.8	99.7	456.7	105.596	76.0025	80.9057	30.0999	34.5	341.655	16.7927	233.923	0.1064
02:58:39 AM	765	551406	260997	262.357	1.01287	266.3	72.7692	45.2468	993.352	995.7	836.95	9.48311	5.04661	62.3636	468.777	1.31328	24.8	99.7344	456.7	105.599	76.0005	80.9011	30.1	34.5	337.031	16.7227	234.168	0.162562
02:58:40 AM	765	551407	260988	262.615	1.01287	266.223	72.7445	45.2694	993.352	995.7	846.88	9.44527	5.05196	61.121	469.331	1.31316	24.8	99.7878	456.7	105.6	76.0001	80.9002	30.059	34.5	332.362	16.7133	234.203	0.1064
02:58:41 AM	765	551408	261014	262.638	1.01287	266.152	72.7184	45.2681	993.354	995.7	838.518	9.47055	5.0596	60.789	470.052	1.31342	24.8	99.7977	456.7	105.6	76	80.9	30.0109	34.5	327.664	16.7732	234.028	0.1064
02:58:42 AM	765	551409	260988	262.506	1.01288	266.089	72.6978	45.2834	993.354	995.7	843.107	9.58813	5.04279	59.7892	471.684	1.31904	24.8	99.7996	456.7	105.6	76.271	80.9	30.002	34.6	322.992	16.8235	233.737	0.1064
02:58:43 AM	765	551410	261004	262.512	1.01288	266.032	72.6866	45.2698	993.351	995.398	843.803	9.63663	5.05196	61.1641	471.871	1.31847	24.8	99.7999	456.7	105.6	76.8649	81.1278	29.8416	34.6	318.371	16.8209	233.545	0.1064
02:58:44 AM	765	551411	261017	262.619	1.01288	265.986	72.6834	45.2839	993.349	995.7	842.082	9.43631	5.04432	60.9087	470.146	1.3194	24.8	99.8	456.7	105.824	76.975	81.2681	29.7391	34.6	313.856	16.7757	233.573	0.1064
02:58:45 AM	765	551412	261003	262.547	1.01288	265.953	72.6873	45.2749	993.349	995.398	852.648	9.61124	5.04126	60.7138	470.69	1.31734	24.8	99.8	456.7	105.886	76.9954	81.2941	29.6503	34.7	309.199	16.7299	233.75	0.076847
02:58:46 AM	765	551413	261041	262.614	1.01313	265.953	72.7132	45.2868	993.349	995.7	844.894	9.50091	5.0298	61.8239	470.065	1.31253	24.8794	99.8	456.606	105.897	76.9991	81.2989	29.5405	34.7	304.603	16.7146	233.889	0.1064
02:58:47 AM	765	551414	261039	262.749	1.01318	265.973	72.7242	45.2724	993.347	995.7	844.398	9.57322	5.0298	61.7125	471.375	1.30949	24.8962	99.8686	456.52	105.9	76.9998	81.2998	29.416	34.7	299.97	16.6742	233.829	0.1064
02:58:48 AM	765	551415	260994	262.763	1.01319	266.003	72.7308	45.2703	993.346	995.7	847.789	9.62682	5.03744	62.9428	471.022	1.30371	24.8993	99.8942	456.504	105.9	76.7016	81.3542	29.3215	34.7	295.226	16.6562	233.54	0.038424
02:58:49 AM	765	551416	261032	262.622	1.01319	266.036	72.7388	45.2692	993.346	995.7	850.697	9.58527	5.03591	59.919	471.776	1.30093	24.8999	99.8989	456.501	105.843	76.6188	81.473	29.2294	34.8	290.691	16.7219	233.123	0.1064

02:58:50 AM	781	55141 7	2610. 42	263. 106	1.01319	266.078	72.7462	45.26 06	993. 347	995.7	850.395	9.493 3	5.0412 6	60.71 89	473.54 8	1.29 967	24.9	99.8998	456.5	105.80 8	76.60 35	81.495	29.1 403	34.7 254	286.1 58	16.65 99	232. 755	0.106 4
02:58:51 AM	765	55141 8	2610. 23	263. 163	1.013	266.133	72.7497	45.25 92	993. 347	995.7	846.318	9.491 3	5.0420 2	61.92 62	472.87 9	1.30 389	24.8387	99.9	456.5	105.80 1	76.60 06	81.499 1	29.0 606	34.7 047	281.4 47	16.59 69	232. 45	0.106 4
02:58:52 AM	765	55141 9	2609. 98	263. 19	1.0129	266.204	72.7716	45.25 65	993. 345	995.7	848.718	9.445 66	5.0443 2	62.02 8	470.99 9	1.30 489	24.8072	99.8656	456.5 79	105.8	76.60 01	81.499 8	28.9 922	34.7 009	276.8 9	16.58 52	232. 23	0.076 847
02:58:53 AM	765	55142 0	2610. 14	262. 991	1.01289	266.279	72.8045	45.27 79	993. 345	995.7	849.964	9.666 27	5.0374 4	62.75 08	471.04 9	1.30 441	24.8013	99.8122	456.5 96	105.8	76.36 57	81.5	28.9 171	34.7 002	272.4 15	16.52 58	231. 92	0.106 4
02:58:54 AM	765	55142 1	2610. 37	262. 804	1.01289	266.339	72.826	45.28 73	993. 342	995.7	840.632	9.593 4	5.0435 5	62.19 01	467.35 1	1.30 461	24.8002	99.8023	456.5 99	105.78 1	76.14 92	81.088 3	28.9 032	34.7	267.9 32	16.45 6	231. 437	0.106 4
02:58:55 AM	765	55142 2	2610. 25	262. 528	1.01289	266.362	72.8258	45.26 34	993. 344	995.7	848.944	9.428 3	5.0496 6	61.37 04	470.32 3	1.30 651	24.8	99.8004	456.6	105.71 5	76.10 91	80.934 9	28.8 288	34.7	263.4 23	16.48 61	230. 854	0.106 4
02:58:56 AM	765	55142 3	2610. 88	262. 563	1.01288	266.349	72.8011	45.27 63	993. 349	995.7	842.749	9.397 71	5.0435 5	60.53 63	470.50 3	1.31 074	24.8	99.8001	456.6	105.70 3	76.10 17	80.906 5	28.8 053	34.7	258.9 35	16.39 97	230. 276	0.124 138
02:58:57 AM	765	55142 4	2610. 29	262. 94	1.01288	266.317	72.7686	45.26 96	993. 349	995.7	850.861	9.392 04	5.0427 9	62.21 55	470.49 7	1.31 473	24.8	99.8	456.6	105.70 1	76.10 03	80.901 2	28.8 01	34.7	254.4 25	16.37 83	229. 692	0.106 4
02:58:58 AM	765	55142 5	2610. 13	262. 63	1.01289	266.27	72.7464	45.28 58	993. 349	995.7	844.862	9.552 2	5.0450 8	62.03 14	472.18 3	1.31 526	24.8	100.031	456.6	105.7	76.10 01	80.900 2	28.8 002	34.7	249.8 04	16.35 88	229. 218	0.106 4
02:58:59 AM	765	55142 6	2610. 25	262. 866	1.01288	266.207	72.7398	45.26 25	993. 349	995.7	837.404	9.518 65	5.0336 2	61.32 7	469.50 7	1.30 974	24.8	100.087	456.6	105.7	75.77 41	80.777 2	28.8	34.7	245.3	16.28 59	228. 82	0.133 005
02:59:00 AM	765	55142 7	2609. 94	262. 681	1.01289	266.151	72.7408	45.28 45	993. 346	995.7	840.138	9.448 11	5.0275 1	61.09 9	471.46 4	1.30 467	24.8	100.098	456.6	105.98 7	75.71 37	80.632 8	28.8	34.7 2	240.6 73	16.30 55	228. 36	0.106 4
03:02:45 AM	765	55165 2	2406. 05	273. 041	1.0133	276.71	69.7182	45.53 84	993. 344	995.171	729.225	7.302 43	5.0244 5	80.55 2	437.81 7	1.49 146	24.9	86.8998	429.8	99.905	76.30 12	80.602 4	27.2 789	34.1 928	428.6 75	15.63 28	227. 849	0.124 138
03:02:46 AM	765	55165 3	2406. 28	273. 151	1.01329	276.701	69.7241	45.52 46	993. 344	995.171	736.078	7.350 37	5.0137 5	79.61 24	436.26 1	1.49 425	24.9	86.9	430.6 47	99.900 9	76.30 02	80.600 4	27.2 961	34.1 987	424.4 33	15.65 1	227. 878	0.076 847
03:02:47 AM	765	55165 4	2406. 3	273. 098	1.01329	276.699	69.7306	45.51 98	993. 347	995.171	731.843	7.326 21	5.0137 5	79.54 8	434.34 6	1.47 1	24.9	87.1444	431.0 16	99.900 2	76.33	80.600 1	27.3 605	34.1 998	419.9 52	15.64 88	227. 762	0.106 4
03:02:48 AM	765	55165 5	2406. 11	272. 725	1.01331	276.712	69.7325	45.56 05	993. 347	995.398	727.684	7.098 43	5.0152 8	81.27 7	433.41 7	1.43 693	24.9	87.1897	431.0 84	99.9	76.55	80.652 2	27.4 336	34.2	415.0 08	15.83 39	227. 638	0.106 4
03:02:49 AM	765	55165 6	2405. 84	272. 454	1.01329	276.705	69.7181	45.54 09	993. 349	995.171	730.291	7.268 01	5.0267 4	82.29 7	436.02 7	1.41 625	24.9	87.1981	431.0 97	100.05 4	76.59 07	80.691 1	27.5 148	34.1 729	410.7 74	15.92 69	227. 751	0.106 4
03:02:50 AM	765	55165 7	2406. 27	272. 471	1.01331	276.642	69.6886	45.57 66	993. 351	995.398	730.508	7.375 45	5.0160 5	82.08 4	438.56 5	1.41 022	24.9	87.1996	431.0 99	100.09 2	76.59 83	80.698 4	27.5 842	34.1 135	406.5 39	15.84 68	228. 216	0.106 4
03:02:51 AM	765	55165 8	2406. 1	272. 684	1.01328	276.543	69.6458	45.53 07	993. 351	995.171	731.137	7.347 11	5.0122 3	81.67 86	436.97 2	1.43 378	24.9	87.1999	431.5 91	100.09 8	76.59 97	80.699 7	27.5 971	34.1 025	402.1 33	15.86 95	229. 001	0.106 4
03:02:52 AM	765	55165 9	2405. 79	272. 717	1.01329	276.455	69.6126	45.52 43	993. 349	995.171	726.381	7.413 57	5.0206 3	82.07 57	437.68 7	1.46 827	24.9	87.3954	432.1 69	100.1	76.59 99	80.699 9	27.6 712	34.1 005	397.5 36	15.92 86	229. 86	0.106 4
03:02:53 AM	765	55166 0	2405. 52	272. 254	1.0133	276.382	69.595	45.55 11	993. 347	995.398	731.778	7.476 24	5.0175 7	83.71 09	437.22 7	1.48 485	24.9	87.4806	432.2 76	100.1	76.6	80.7	27.7 516	34.1 001	393.1 62	15.97 67	230. 616	0.011 82
03:02:54 AM	765	55166 1	2405. 78	271. 697	1.01329	276.28	69.5777	45.52 22	993. 346	995.398	725.116	7.487 86	5.0145 2	83.97 81	438.01 1	1.49 071	24.9	87.4964	432.2 96	100.36 1	76.6	80.781 5	27.8 254	34.1	388.7 83	15.95 1	231. 191	0.085 714
03:02:55 AM	765	55166 2	2405. 78	271. 561	1.01329	276.122	69.541	45.50 2	993. 341	995.398	725.791	7.159 54	5.0022 9	83.94 38	439.81 4	1.48 899	24.9	87.4993	432.2 99	100.55 6	76.6	80.796 6	27.8 862	34.1 718	384.5 19	15.97 9	231. 636	0.106 4
03:02:56 AM	765	55166 3	2405. 99	271. 276	1.01332	275.95	69.482	45.53 33	993. 331	995.398	727.871	6.945 31	5.0107	83.51 25	440.15 5	1.48 512	24.9	87.4999	432.3	100.59 2	76.6	80.799 4	27.8 974	34.1 948	380.2 13	15.94 21	232. 022	0.144 828
03:02:57 AM	765	55166 4	2406. 01	271. 053	1.01332	275.774	69.4037	45.52 25	993. 326	995.171	724.278	7.148 8	5.0091 7	85.36 57	439.76 4	1.48 542	24.9	87.5271	432.9 17	100.59 8	76.6	80.799 9	27.8 995	34.1 991	375.9 49	15.98 78	232. 428	0.106 4
03:02:58 AM	765	55166 5	2406. 04	271. 334	1.01332	275.567	69.3316	45.50 41	993. 321	995.171	727.821	7.278 3	5.0168 1	84.70 08	439.34 4	1.48 539	24.9	87.5865	433.0 66	100.6	76.55 91	80.8	27.8 999	34.1 998	371.8 37	15.75 22	232. 791	0.106 4

03:02:59 AM	765	55166 6	2405. 52	270. 803	1.01333	275.334	69.2822	45.54 07	993. 32	995.398	724.153	7.013 94	5.0030 6	84.80 64	441.11 1	1.48 696	24.9	87.5975	433.0 94	100.6	76.51 09	80.8	27.8 478	34.2	367.5 21	15.54 89	232. 864	0.144 828
03:03:00 AM	765	55166 7	2405. 72	270. 832	1.01332	275.092	69.2413	45.51 02	993. 32	995.398	720.832	7.110 93	5.0152 8	84.48 58	441.16 7	1.49 073	24.9	87.5995	433.0 99	100.6	76.50 2	80.8	27.7 818	34.2	363.2 24	15.58 8	232. 447	0.106 4
03:03:01 AM	765	55166 8	2405. 69	270. 813	1.01331	274.899	69.2029	45.49 32	993. 32	995.398	716.961	7.060 72	5.0107	86.30 1	439.37 8	1.49 466	24.9	87.5999	433.1	100.6	76.50 04	80.8	27.7 152	34.2	359.0 21	15.59 12	231. 611	0.011 82
03:03:02 AM	765	55166 9	2405. 6	270. 419	1.0133	274.729	69.1653	45.46 37	993. 317	995.171	727.789	7.236 51	5.0068 8	86.54 29	438.74 9	1.49 968	24.9	87.6	433.5 29	100.6	76.50 01	80.8	27.6 213	34.2	354.6 92	15.51 05	230. 401	0.106 4
03:03:03 AM	765	55167 0	2405. 8	270. 056	1.01331	274.577	69.129	45.47 09	993. 318	995.398	730.448	7.495 24	5.0084	85.28 7	441.60 6	1.49 822	24.9	87.7542	433.7 5	100.6	76.5	80.8	27.5 322	34.2	350.3 77	15.42 78	229. 317	0.076 847
03:03:04 AM	765	55167 1	2405. 46	269. 937	1.0133	274.419	69.0818	45.47 23	993. 32	995.171	722.312	7.491 38	5.0152 8	85.26 08	438.80 6	1.49 686	24.9	87.7915	433.7 91	100.6	76.11 44	80.677 1	27.5 06	34.2	346.0 54	15.41 12	228. 454	0.079 8
03:03:05 AM	765	55167 2	2405. 81	269. 679	1.0133	274.231	69.0268	45.47 84	993. 323	995.171	730.961	7.381 61	5.0168 1	85.75 02	441.33 1	1.49 931	24.9	87.7984	433.7 98	100.66 5	76.02 12	80.532 8	27.4 602	34.2	341.7 94	15.38 44	227. 791	0.106 4
03:03:06 AM	765	55167 3	2405. 89	269. 976	1.01331	274.036	68.9724	45.51 26	993. 323	995.171	724.673	7.094 53	5.0122 3	86.55 2	441.13 2	1.50 271	24.9	87.7997	433.8	100.69 4	76.00 39	80.506 1	27.3 84	34.2	337.3 97	15.37 1	227. 286	0.153 695
03:03:07 AM	765	55167 4	2406. 14	270. 021	1.01331	273.87	68.9309	45.50 34	993. 326	995.398	721.853	7.219 48	5.0084	87.07 91	444.31 5	1.50 682	24.9	87.7999	433.8 5	100.69 9	76.00 07	80.501 1	27.3 156	34.2	333.1 38	15.39 47	226. 869	0.106 4
03:03:08 AM	765	55167 5	2406. 05	269. 938	1.01329	273.736	68.9096	45.47 83	993. 33	995.171	726.167	7.424 63	5.0137 5	87.44 27	440.77 2	1.50 997	24.9	87.8569	434.2 17	100.7	76.00 01	80.500 2	27.3 029	34.2	328.8	15.41 08	226. 521	0.056 158
03:03:09 AM	765	55167 6	2406. 07	270. 103	1.01329	273.63	68.9114	45.47 36	993. 334	995.171	728.355	7.315 99	5.0152 8	87.60 78	439.89	1.51 156	24.9	87.892	434.2 85	100.7	76.11 39	80.5	27.3 005	34.2	324.5 54	15.46 63	226. 336	0.106 4
03:03:10 AM	765	55167 7	2405. 87	269. 947	1.01328	273.568	68.9225	45.47 28	993. 337	995.398	726.185	7.260 16	5.0114 6	86.30 9	442.84 8	1.51 382	24.9	87.8985	434.2 97	100.52 8	76.18 41	80.5	27.2 431	34.2	320.2 66	15.48 51	226. 395	0.124 138
03:03:11 AM	765	55167 8	2406. 14	270. 433	1.01328	273.557	68.9375	45.47 26	993. 34	995.398	725.734	7.201 31	5.0076 4	87.87 45	441.83 9	1.51 814	24.9	87.8997	434.2 99	100.26 1	76.19 7	80.5	27.2 08	34.2	316.1 12	15.45 7	226. 581	0.106 4
03:03:12 AM	765	55167 9	2406. 15	270. 641	1.01328	273.606	68.9564	45.47 26	993. 341	995.171	717.81	6.968 22	5.0053 5	86.25 33	443	1.51 867	24.9	87.8999	434.3	100.21 1	76.19 95	80.5	27.2 015	34.2	311.7 76	15.45 18	226. 226	0.106 4
03:03:13 AM	765	55168 0	2405. 83	270. 428	1.01329	273.692	68.9843	45.49 58	993. 338	995.398	727.694	6.863 46	5.0053 5	87.42 63	441.38 3	1.51 697	24.9	87.957	434.9 18	100.20 2	76.19 99	80.5	27.2 003	34.2	307.5 77	15.44 5	227. 041	0.106 4
03:03:14 AM	765	55168 1	2406. 13	270. 186	1.01328	273.784	69.0116	45.47 2	993. 339	995.398	723.023	6.931 48	5.0038 2	86.91 2	441.89 5	1.51 648	24.9	88.155	435.1 48	100.2	76.19	80.5	27.1 229	34.2	303.2 33	15.42 61	227. 091	0.106 4
03:04:12 AM	765	55173 9	2202. 67	304. 875	1.01334	309.111	71.2928	45.38 1	993. 266	995.398	700.489	8.493 08	4.7761 3	107.8 67	407.47 5	1.48 158	24.9	87.6006	457.2 99	102.62 8	75.30 93	80.208 9	27.1	34.2	475.8 56	15.91 5	225. 084	0.088 67
03:04:13 AM	765	55174 0	2202. 62	305. 045	1.01332	309.068	71.2798	45.37 24	993. 274	995.398	707.372	8.681 17	4.7730 7	107.0 24	408.16 4	1.48 413	24.9	87.6001	457.3	102.60 5	75.30 17	80.201 6	27.1	34.2	471.5 6	15.89 47	224. 995	0.106 4
03:04:14 AM	765	55174 1	2202. 66	304. 83	1.01332	309.041	71.2704	45.37 12	993. 272	995.398	697.178	8.836 59	4.7730 7	106.4 93	409.15	1.49 208	24.9	87.6	457.5 06	102.60 1	75.30 03	80.200 3	27.1	34.2	467.4 02	15.77 15	225. 118	0.088 67
03:04:15 AM	765	55174 2	2202. 66	304. 819	1.01333	309.016	71.2671	45.37 92	993. 272	995.398	695.719	8.785 79	4.7730 7	106.9 1	408.75 3	1.49 516	24.9	87.7225	457.8 27	102.6	75.30 01	80.200 1	27.1	34.2	463.1 93	15.66 26	225. 303	0.106 4
03:04:16 AM	765	55174 3	2202. 52	305. 099	1.01333	308.982	71.2671	45.37 78	993. 267	995.398	711.518	8.754 15	4.7707 8	107.1 2	406.89 9	1.50 381	24.9	87.7856	457.8 86	102.6	75.16 28	80.2	27.1	34.2	458.8 41	15.65 72	225. 238	0.067 98
03:04:17 AM	765	55174 4	2202. 93	305. 018	1.01334	308.962	71.2692	45.38 04	993. 264	995.398	700.359	9.020 66	4.7631 4	107.3 87	409.38 5	1.49 955	24.9	87.7973	457.8 97	102.64 7	75.11 16	80.037 1	27.1	34.2	454.5 26	15.71 03	224. 823	0.106 4
03:04:18 AM	765	55174 5	2202. 97	304. 974	1.01334	308.971	71.2739	45.37 42	993. 263	995.398	705.458	8.644 47	4.7631 4	107.4 21	407.80 5	1.49 118	24.9	87.7995	457.9	102.69	75.10 22	80.006 9	27.1	34.2	450.2 24	15.73 23	224. 212	0.020 69
03:04:19 AM	765	55174 6	2202. 83	304. 998	1.01334	308.992	71.2817	45.37 98	993. 261	995.171	698.979	8.738 49	4.7707 8	107.2 09	406.39 9	1.49 632	24.9	87.7999	457.9	102.69 8	75.10 04	80.001 3	27.1	34.2	445.9 41	15.72 54	223. 604	0.106 4
03:04:20 AM	765	55174 7	2202. 7	304. 937	1.01334	309.003	71.2885	45.38 08	993. 258	995.171	697.826	8.650 63	4.7669 6	107.6 38	407.65 9	1.49 534	24.9	87.8	458.2 08	102.7	75.10 01	80.000 2	27.1	34.2	441.6	15.67 99	223. 278	0.079

03:05:29 AM	765	551816	2014.31	317.974	1.01335	322.716	68.0581	45.3892	993.256	995.398	605.485	12.3788	4.55226	116.782	373.001	1.51087	24.9	83.4002	469.8	103.29	75	80.0019	27.1	34.4	386.907	14.5447	217.476	0.1064
03:05:30 AM	765	551817	2014.51	318.224	1.01335	322.622	68.0259	45.3992	993.26	995.398	602.397	12.6445	4.55608	116.826	372.263	1.52685	24.9	83.4	469.735	103.298	75	80.0004	27.1	34.4	382.841	14.5947	217.328	0.04138
03:05:31 AM	765	551818	2014.34	318.157	1.01334	322.527	68.0031	45.3863	993.262	995.398	602.031	12.6423	4.55226	116.827	373.379	1.53073	24.9	83.2412	469.706	103.3	75	80.0001	27.1	34.4	378.649	14.64	217.274	0.1064
03:05:32 AM	765	551819	2014.38	318.29	1.01335	322.443	67.9968	45.4019	993.264	995.398	600.63	12.5612	4.55837	117.156	373.762	1.54084	24.9	83.2076	469.701	103.3	75	80	27.1	34.4	374.772	14.6484	217.314	0.047291
03:05:33 AM	765	551820	2014.65	318.424	1.01334	322.396	68.0042	45.3941	993.262	995.398	608.355	12.6048	4.55532	116.69	373.083	1.56146	24.9	83.2014	469.7	103.002	75	80	27.1	34.4	370.768	14.5526	217.434	0.05025
03:05:34 AM	765	551821	2016.91	318.595	1.01336	322.397	68.0243	45.4108	993.259	995.398	604.376	12.6755	4.55532	116.935	373.317	1.56633	24.9	83.2003	469.7	102.919	75	80	27.1	34.4	366.825	14.5324	217.546	0.1064
03:05:35 AM	765	551822	2014.8	318.058	1.01335	322.441	68.049	45.4046	993.262	995.398	597.207	12.7312	4.55608	116.763	373.528	1.58502	24.9	83.2001	469.734	102.903	75	80	27.1	34.4	362.817	14.562	217.524	0.115271
03:05:36 AM	765	551823	2014.61	317.772	1.01335	322.484	68.0571	45.4158	993.265	995.398	600.465	12.9172	4.55532	116.491	372.175	1.58781	24.9	83.1387	469.788	102.901	75	80	27.0314	34.4	358.703	14.5908	217.35	0.04138
03:05:37 AM	765	551824	2014.71	317.991	1.01335	322.487	68.0463	45.4186	993.267	995.398	597.353	12.7897	4.55914	115.826	372.849	1.59055	24.9	83.1072	469.798	102.9	75	80	27.058	34.4	354.68	14.5605	217.12	0.008867
03:05:38 AM	765	551825	2014.8	317.826	1.01335	322.458	68.0196	45.4157	993.264	995.398	600.981	12.9373	4.55303	116.425	373.789	1.59768	24.9	83.1013	469.8	102.9	75	80	27.0651	34.4	350.601	14.5359	216.949	0.1064
03:05:39 AM	765	551826	2014.56	318.131	1.01335	322.413	67.9929	45.402	993.262	995.398	606.576	12.786	4.55685	115.799	373.526	1.59811	24.9	83.1003	469.8	102.9	75	80	27.0121	34.4	346.595	14.5762	216.902	0.1064
03:05:40 AM	765	551827	2014.62	318.074	1.01337	322.364	67.9791	45.4471	993.262	995.398	605.198	12.6813	4.55455	116.014	372.481	1.58389	24.9	83.1	469.8	102.9	75	80	27.0022	34.4	342.561	14.5344	216.955	0.1064
03:05:41 AM	765	551828	2014.54	318.15	1.01336	322.306	67.9821	45.4391	993.261	995.398	596.677	12.7888	4.55379	116.255	372.785	1.56459	24.9	83.0458	469.877	102.9	75	80	27.0004	34.4	338.579	14.536	216.974	0.1064
03:05:42 AM	765	551829	2014.87	318.429	1.01337	322.27	67.9952	45.4157	993.253	995.398	601.184	12.8523	4.56067	115.624	372.664	1.55892	24.9	82.927	469.896	102.9	75	80	27.0001	34.4	334.48	14.5346	216.938	0.133005
03:05:43 AM	765	551830	2014.66	318.416	1.01337	322.29	68.013	45.4028	993.247	995.398	598.461	12.8108	4.55761	115.531	372.086	1.55417	24.9	82.905	469.899	102.9	75	80	27	34.4	330.522	14.5578	216.861	0.1064
03:05:44 AM	765	551831	2014.69	318.079	1.01337	322.355	68.0304	45.4047	993.245	995.398	600.719	12.8853	4.56525	115.523	371.529	1.55281	24.9	82.9009	469.9	103.138	75	80	27	34.4	326.624	14.5046	216.752	0.047291
03:05:45 AM	765	551832	2014.42	317.845	1.01338	322.412	68.0393	45.4338	993.241	995.398	603.123	12.8747	4.54615	114.964	372.922	1.54478	24.9	82.9002	469.9	103.189	75	80	27	34.4	322.57	14.512	216.642	0.1064
03:05:46 AM	765	551833	2014.62	318.22	1.01339	322.427	68.0318	45.4299	993.238	995.171	602.548	12.7631	4.55761	115.199	374.037	1.52888	24.9	82.9	470.014	103.198	75	80	27	34.4	318.487	14.501	216.529	0.1064
03:05:47 AM	765	551834	2014.29	317.924	1.01337	322.43	68.0149	45.4067	993.243	995.398	598.767	12.8906	4.56143	114.971	373.856	1.51688	24.9	82.8254	470.084	103.2	75	80	27	34.4	314.452	14.5012	216.414	0.1064
03:05:48 AM	765	551835	2014.7	317.959	1.01339	322.417	68.0008	45.4329	993.237	995.398	598.411	12.9807	4.54844	114.573	371.936	1.50149	24.9	82.8047	470.097	103.2	75	80	27	34.4	310.439	14.5089	216.299	0.1064
03:05:49 AM	765	551836	2014.75	318.406	1.01339	322.391	67.9948	45.4377	993.24	995.398	602.679	12.8483	4.55685	114.999	372.387	1.50462	24.9	82.8009	470.099	102.894	75	80	27	34.4	306.317	14.5005	216.232	0.1064
03:05:50 AM	765	551837	2014.62	318.718	1.0134	322.367	68.0049	45.4505	993.239	995.398	606.441	12.9481	4.55532	115.663	372.924	1.5188	24.9	82.8002	470.1	102.736	75	80	27	34.4	302.295	14.5286	216.167	0.162562
03:05:51 AM	765	551838	2014.68	318.463	1.01339	322.391	68.0306	45.4616	993.245	995.398	602.757	12.7482	4.55455	114.807	371.959	1.51418	24.9	82.8	470.13	102.707	75	80	27	34.4	298.249	14.5441	216.161	0.1064
03:05:52 AM	765	551839	2014.87	318.245	1.01338	322.459	68.0562	45.4271	993.246	995.398	601.806	12.7914	4.55914	115.369	372.364	1.51959	24.9	82.6957	470.35	102.701	75	80	27	34.4	294.144	14.5449	216.19	0.1064
03:05:53 AM	765	551840	2014.48	318.062	1.01338	322.52	68.0742	45.4266	993.245	995.7	601.057	12.7015	4.55073	115.811	371.601	1.53106	24.9	82.6177	470.391	102.7	74.9063	80	27	34.4	290.044	14.5785	216.242	0.08867

03:05:54 AM	765	55184 1	2014. 97	318. 401	1.01337	322.553	68.075	45.40 88	993. 247	995.398	607.507	12.71 14	4.5606 7	115.2 16	372.92 6	1.54 151	24.9	82.6033	470.3 98	102.79 5	74.81 97	80	27	34.4	286.0 02	14.63 19	216. 389	0.106 4
03:07:02 AM	765	55190 9	1809. 89	319. 104	1.01344	323.481	61.269	45.53 41	993. 225	995.398	485.402	9.529 85	4.3001 2	117.7 03	333.58 9	1.59 688	24.9	76.9003	470.7	103.33 6	74.79 85	79.995 3	26.8 531	34.4 775	444.9 87	13.25 34	218. 503	0.106 4
03:07:03 AM	765	55191 0	1809. 11	319. 258	1.01345	323.461	61.269	45.57 03	993. 23	995.398	489.943	9.579 09	4.2978 3	117.7 5	332.59	1.59 368	24.9	76.9	470.7	103.30 7	74.79 97	79.999 1	26.8 098	34.4 144	441.1 57	13.23 43	218. 762	0.153 695
03:07:04 AM	765	55191 1	1808. 88	318. 869	1.01344	323.449	61.2718	45.54 54	993. 234	995.398	491.863	9.527 01	4.2955 4	117.1 83	333.05 3	1.59 334	24.9	76.9	470.5 63	103.30 1	74.79 99	79.999 8	26.8 018	34.4 027	437.6 22	13.30 52	218. 969	0.017 734
03:07:05 AM	765	55191 2	1809. 24	318. 611	1.01345	323.425	61.265	45.56 59	993. 235	995.398	503.688	9.554 24	4.2955 4	117.1 97	333.29	1.59 12	24.9	76.7371	470.5 12	103.3	74.78 1	80	26.8 003	34.4 005	433.9 69	13.20 58	219. 141	0.106 4
03:07:06 AM	765	55191 3	1809. 08	318. 741	1.01344	323.372	61.2484	45.54 52	993. 234	995.398	509.203	9.578 08	4.3031 8	116.8 43	332.88 1	1.60 096	24.9	76.7069	470.5 02	103.3	74.71 5	80	26.8 001	34.4 001	430.3 14	13.18 44	219. 176	0.079 8
03:07:07 AM	765	55191 4	1809. 21	318. 756	1.01344	323.301	61.2278	45.55 88	993. 235	995.398	513.539	9.562 95	4.2978 3	116.6 72	332.37 7	1.59 821	24.9	76.7013	470.5	103.37 5	74.70 28	80	26.8	34.4	426.7 82	13.16 43	219. 142	0.079 8
03:07:08 AM	765	55191 5	1809. 2	318. 667	1.01343	323.228	61.2108	45.55 32	993. 244	995.398	513.452	9.670 1	4.2978 3	117.0 39	331.74 4	1.59 509	24.9	76.7002	470.5	103.39 5	74.70 05	80	26.8	34.4	423.0 79	13.14 36	218. 967	0.106 4
03:07:09 AM	765	55191 6	1809. 22	318. 269	1.01342	323.159	61.1959	45.54 46	993. 25	995.398	502.63	9.634 77	4.3047 1	117.4 84	332.24 4	1.59 308	24.9	76.7	470.4 18	103.39 9	74.70 01	80	26.8	34.4	419.3 98	13.13 76	218. 644	0.017 734
03:07:10 AM	765	55191 7	1809. 09	318. 29	1.01341	323.059	61.1832	45.54 16	993. 259	995.398	491.111	9.466 56	4.2993 6	116.9 98	331.85 7	1.59 826	24.9	76.5697	470.3 22	103.4	74.7	80	26.8	34.4	415.7 26	13.17 88	218. 321	0.065 025
03:07:11 AM	765	55191 8	1809. 06	318. 379	1.0134	322.957	61.1668	45.53 85	993. 266	995.398	490.4	9.399 85	4.2932 5	116.6 31	331.84	1.58 843	24.9	76.5129	470.3 04	103.4	74.7	79.99	26.8	34.4	412.0 63	13.18 76	218. 083	0.106 4
03:07:12 AM	765	55191 9	1809. 36	318. 799	1.0134	322.872	61.1495	45.56 35	993. 269	995.398	503.079	9.340 08	4.3008 9	116.2 59	332.09 1	1.59 687	24.9	76.5024	470.3 01	103.22 9	74.7	79.916 7	26.7 349	34.4	408.4 75	13.17 28	217. 995	0.088 67
03:07:13 AM	765	55192 0	1809. 34	318. 806	1.01339	322.843	61.1439	45.55 52	993. 272	995.7	505.646	9.381 36	4.2963	115.6 17	332.36 8	1.59 657	24.9	76.5004	470.3	103.12 4	74.7	79.903 1	26.7 065	34.4	404.7 86	13.16 24	218. 064	0.192 118
03:07:14 AM	765	55192 1	1809. 27	318. 904	1.01341	322.847	61.1594	45.57 8	993. 272	995.398	509.94	9.416 54	4.2955 4	115.8 19	331.41 7	1.59 944	24.9	76.5001	470.3	103.10 4	74.7	79.900 6	26.7 283	34.4	401.1 4	13.13 41	218. 185	0.106 4
03:07:15 AM	765	55192 2	1809. 35	319. 103	1.01341	322.873	61.1868	45.57 92	993. 27	995.7	510.201	9.564 08	4.2924 8	115.9 58	332.85 1	1.60 188	24.9	76.4312	470.1 41	103.10 1	74.7	79.900 1	26.7 867	34.4	397.4 85	13.15 93	218. 207	0.094 581
03:07:16 AM	765	55192 3	1809. 27	319. 239	1.0134	322.936	61.2165	45.55 2	993. 268	995.398	516.234	9.460 63	4.2970 7	116.4 28	332.25 4	1.59 236	24.9	76.3243	470.1 08	103.1	74.7	79.9	26.7 181	34.4	393.8 76	13.15 8	218. 122	0.115 271
03:07:17 AM	765	55192 4	1809. 3	319. 232	1.0134	323.037	61.245	45.54 87	993. 267	995.398	512.647	9.441 47	4.3008 9	116.0 34	331.39 6	1.59 074	24.9	76.3045	470.1 01	103.11	74.7	79.9	26.7 034	34.4	390.2 55	13.16 39	217. 953	0.144 828
03:07:18 AM	765	55192 5	1808. 81	318. 77	1.0134	323.178	61.2594	45.53 98	993. 266	995.398	494.085	9.354 83	4.3031 8	116.3 72	332.05 2	1.58 39	24.9	76.3008	470.1	103.18 3	74.7	79.9	26.7 006	34.5 139	386.6 66	13.16 52	217. 787	0.106 4
03:07:19 AM	765	55192 6	1809. 34	318. 956	1.01339	323.278	61.269	45.53 68	993. 267	995.398	493.757	9.373 23	4.2978 3	116.1 39	330.18 2	1.59 338	24.9	76.3002	470.1	103.19 7	74.7	79.9	26.7 001	34.5 84	382.9 86	13.12 43	217. 706	0.115 271
03:07:20 AM	765	55192 7	1809. 11	319. 265	1.01341	323.331	61.2705	45.57 17	993. 27	995.398	489.599	9.339 02	4.2947 7	116	331.52 5	1.60 136	24.9	76.3	469.9 86	103.19 9	74.7	79.9	26.7	34.5 97	379.3 64	13.08 55	217. 621	0.124 138
03:07:21 AM	765	55192 8	1809. 25	319. 367	1.0134	323.359	61.2661	45.56 54	993. 267	995.398	486.958	9.211 83	4.2955 4	115.2 4	330.62 3	1.61 128	24.9	76.3	469.9 16	103.2	74.7	79.9	26.7	34.5 995	375.6 77	13.08 04	217. 497	0.106 4
03:07:22 AM	765	55192 9	1809. 25	319. 253	1.01341	323.403	61.273	45.55 89	993. 261	995.398	489.833	9.281 58	4.2970 7	115.3 51	330.51 8	1.61 714	24.9	76.3	469.9 03	103.2	74.77 94	79.9	26.7	34.5 999	371.9 85	13.12	217. 295	0.008 867
03:07:23 AM	765	55193 0	1809. 38	319. 084	1.01343	323.432	61.2827	45.58 8	993. 256	995.398	492.213	9.074 06	4.2947 7	115.6 4	331.29 3	1.61 142	24.9	76.3	469.9 01	103.26 9	74.79 62	79.9	26.7	34.6	368.2 56	13.12 74	217. 027	0.144 828
03:07:24 AM	765	55193 1	1809. 28	318. 88	1.01343	323.427	61.2889	45.59 03	993. 259	995.398	493.385	9.366 06	4.2955 4	115.1 22	330.43 3	1.61 781	24.9	76.3	469.9	103.29 4	74.79 93	79.9	26.7	34.6	364.5 33	13.21 1	216. 865	0.106 4
03:07:25 AM	765	55193 2	1809. 41	319. 025	1.01343	323.405	61.2842	45.59 38	993. 255	995.398	498.907	9.291 42	4.2993 6	114.9 01	331.30 6	1.61 045	24.9	76.3	469.9	103.29 9	74.79 99	79.9	26.7	34.6	360.9 37	13.22 06	216. 938	0.106 404
03:07:26 AM	765	55193 3	1808. 95	319. 279	1.01343	323.402	61.273	45.59 45	993. 255	995.398	502.718	9.303 27	4.2955 4	114.4 94	331.66 8	1.60 662	24.9	76.2478	469.9	103.3	74.8	79.9	26.7	34.6	357.4 04	13.18 71	217. 217	0.106 4

03:07:27 AM	765	55193 4	1809. 19	319. 019	1.01343	323.417	61.2631	45.58 47	993. 255	995.398	510.421	9.546 81	4.3001 2	115.0 18	330.91 6	1.60 389	24.9	76.2089	469.9	103.3	74.86 13	79.9	26.7 815	34.6	353.7 89	13.14 76	217. 621	0.026 601
03:07:28 AM	765	55193 5	1809. 49	319. 03	1.01344	323.407	61.2643	45.59 28	993. 251	995.398	499.483	9.222 93	4.2993 6	115.5 24	331.16 8	1.60 966	24.9	76.2016	469.9	103.16 2	74.89 28	79.977 1	26.7 194	34.6	350.1 24	13.15 5	217. 946	0.026 601
03:07:29 AM	765	55193 6	1809. 45	318. 829	1.01343	323.368	61.2655	45.57 11	993. 25	995.7	500.72	9.242 67	4.3092 9	114.8 05	331.79 6	1.62 233	24.9	76.2003	469.9	102.94 9	74.89 87	79.995 8	26.7 036	34.6	346.4 51	13.17 4	218. 046	0.106 4
03:07:30 AM	765	55193 7	1809. 44	318. 92	1.01344	323.328	61.2623	45.58 65	993. 25	995.7	504.336	9.427 27	4.2993 6	114.7 15	329.75	1.64 185	24.9	76.2001	469.9	102.90 9	74.89 97	79.999 2	26.7 007	34.6	342.7 95	13.18 37	217. 994	0.038 424
03:07:31 AM	765	55193 8	1809. 27	318. 676	1.01344	323.305	61.2528	45.56 99	993. 246	995.7	498.378	9.312 24	4.2985 9	114.4 24	329.39 4	1.63 845	24.9	76.162	469.6 13	102.90 2	74.9	79.999 9	26.7 345	34.6	339.1 56	13.20 17	217. 901	0.106 4
03:09:07 AM	812	55203 4	1603. 32	318. 569	1.01351	322.507	54.1421	45.59 95	993. 195	995.7	444.007	3.467 41	3.9822 7	122.0 01	302.76 1	1.60 793	24.9	71.2001	460.5	101.6	74.5	79.898 3	26.5 078	34.6	488.1 13	11.99 5	225. 093	0.008 867
03:09:08 AM	828	55203 5	1603. 36	318. 615	1.01351	322.539	54.1588	45.59 56	993. 195	995.398	439.76	3.327 24	3.9807 5	122.4 14	301.78 5	1.59 905	24.9	71.2	460.3 05	101.6	74.5	79.899 7	26.5 114	34.6	484.8 56	11.97 91	225. 044	0.106 4
03:09:09 AM	812	55203 6	1603. 24	318. 697	1.01351	322.6	54.1808	45.60 4	993. 194	995.398	435.718	3.237 3	3.9838 04	122.9 04	303.06 6	1.59 243	24.9	71.2	460.2 19	101.6	74.5	79.899 9	26.5 836	34.6	481.5 95	11.97 62	224. 922	0.106 4
03:09:10 AM	812	55203 7	1603. 4	318. 661	1.01351	322.681	54.2013	45.59 64	993. 192	995.398	431.291	3.152 18	3.9776 9	122.5 89	301.7	1.58 373	24.9	71.2	460.2 04	101.6	74.5	79.9	26.5 198	34.6	478.3 04	11.93 45	224. 684	0.038 424
03:09:11 AM	812	55203 8	1603. 4	318. 405	1.01351	322.757	54.2134	45.59 5	993. 192	995.398	432.909	2.981 73	3.9830 4	122.4 95	302.18 6	1.59 007	24.9	71.2	460.2 01	101.6	74.5	79.9	26.5 037	34.6	475.0 33	11.90 92	224. 353	0.106 4
03:09:12 AM	812	55203 9	1603. 26	318. 511	1.01351	322.808	54.2144	45.59 91	993. 192	995.398	433.568	3.088 48	3.9838 8	122.4 8	302.44 7	1.61 709	24.9	71.2	460.2	101.6	74.5	79.9	26.5 007	34.6	471.8 15	11.87 41	223. 95	0.059 11
03:09:13 AM	812	55204 0	1603. 45	318. 788	1.01351	322.848	54.2083	45.59 55	993. 192	995.398	437.611	3.056 17	3.9807 5	121.8 5	301.37 5	1.62 945	24.9	71.2	460.1 53	101.6	74.5	79.9	26.5 001	34.6	468.5 82	11.83 5	223. 496	0.106 4
03:09:14 AM	812	55204 1	1603. 09	318. 794	1.01351	322.886	54.2054	45.59 92	993. 192	995.398	436.461	3.104 37	3.9769 3	122.1 01	301.95 9	1.63 564	24.9	71.0628	460.1 1	101.6	74.5	79.9	26.5	34.6	465.3 21	11.80 29	223. 002	0
03:09:15 AM	812	55204 2	1603. 11	318. 778	1.01351	322.921	54.2113	45.60 1	993. 192	995.398	434.519	3.004 02	3.9822 7	122.4 38	301.84 6	1.64 284	24.9	71.0116	460.1 02	101.6	74.5	79.9	26.5	34.6	462.0 47	11.77 32	222. 436	0.065 025
03:09:16 AM	812	55204 3	1603. 04	319. 002	1.01351	322.949	54.2261	45.60 13	993. 192	995.398	433.025	2.965 59	3.9731 1	122.6 91	302.62 5	1.63 309	24.9	71.0022	460.1	101.6	74.5	79.9	26.5	34.6	458.7 82	11.77 51	221. 8	0.106 4
03:09:17 AM	812	55204 4	1603. 985	318. 985	1.01351	322.99	54.2414	45.59 59	993. 192	995.398	435.497	2.918 1	3.9807 5	122.9 49	302.34 4	1.62 484	24.9	71.0004	460.1	101.6	74.62 25	79.9	26.5	34.6	455.4 84	11.78 56	221. 18	0.076 847
03:09:18 AM	828	55204 5	1603. 16	318. 625	1.01351	323.05	54.2538	45.61 01	993. 193	995.398	433.246	3.086 7	3.9876 2	123.5 71	301.19 4	1.61 354	24.9	71.0001	460.1	101.66 9	74.68 56	79.979 4	26.5	34.6	452.2 83	11.76 8	220. 69	0.106 4
03:09:19 AM	828	55204 6	1603. 41	318. 631	1.01351	323.094	54.2575	45.59 94	993. 193	995.398	435.287	3.325 82	3.9830 4	123.0 78	301.91 9	1.59 166	24.9	71	460.1	101.77 6	74.69 73	79.996 2	26.5	34.6	449.0 03	11.72 78	220. 287	0.041 38
03:09:20 AM	812	55204 7	1603. 19	318. 66	1.01382	323.114	54.2661	45.59 99	993. 193	995.398	432.691	3.221 51	3.9845 7	123.1 56	302.16 6	1.57 191	25.0043	71	460.1	101.79 5	74.69 95	79.999 3	26.5	34.6	445.7 07	11.74 37	220. 016	0.106 4
03:09:21 AM	812	55204 8	1603. 26	318. 637	1.01407	323.122	54.266	45.59 56	993. 193	995.398	434.023	3.286 98	3.9853 3	122.6 11	302.11 5	1.57 373	25.0823	70.99	459.8 85	101.79 9	74.69 99	79.999 9	26.5	34.6	442.4 95	11.80 33	219. 849	0.106 4
03:09:22 AM	812	55204 9	1603. 44	318. 845	1.01413	323.124	54.2585	45.61 8	993. 193	995.398	435.815	3.161 38	3.9822 7	122.3 86	304.15 5	1.58 135	25.0967	70.9167	459.8 16	101.8	74.61 87	80	26.5	34.6	439.2 2	11.75 56	219. 766	0.124 138
03:09:23 AM	812	55205 0	1603. 13	318. 839	1.01413	323.125	54.2525	45.59 9	993. 195	995.7	436.617	3.077 85	3.9769 3	122.2 59	302.30 1	1.58 209	25.0994	70.9031	459.8 03	101.8	74.44 05	79.886 1	26.4 43	34.6	435.9 47	11.76 4	219. 749	0.106 4
03:09:24 AM	812	55205 1	1602. 93	318. 763	1.01415	323.132	54.2602	45.63 75	993. 195	995.7	436.287	3.133 8	3.9799 8	123.6 14	302.58 3	1.59 806	25.0999	70.9006	459.8 01	101.64 1	74.40 75	79.816	26.4 08	34.5	432.6 36	11.78 21	219. 822	0.026 601
03:09:25 AM	828	55205 2	1603. 27	318. 913	1.0141	323.158	54.2671	45.61 61	993. 197	995.398	428.626	3.219 98	3.9899 1	123.4 06	303.01 7	1.60 566	25.08	70.9001	459.8	101.60 8	74.40 14	79.803	26.4 015	34.4	429.4 02	11.80 36	219. 908	0.153 695
03:09:26 AM	812	55205 3	1602. 99	318. 416	1.01362	323.187	54.2445	45.60 69	993. 197	995.398	427.184	3.080 9	3.9876 2	123.0 29	303.44 1	1.61 114	24.9333	70.9	459.6 59	101.60 1	74.40 03	79.800 5	26.4 003	34.4	426.2 09	11.79 19	219. 998	0.079 8
03:09:27 AM	812	55205 4	1603. 11	318. 25	1.01353	323.177	54.2379	45.61 16	993. 196	995.398	429.763	3.109 44	3.9853 3	122.8 25	302.88 4	1.62 178	24.9062	70.7628	459.5 3	101.6	74.4	79.800 1	26.4 001	34.4	422.9 9	11.75 91	220. 099	0.144 828

03:09:28 AM	812	55205 5	1603. 63	318. 449	1.01351	323.128	54.2255	45.60 27	993. 196	995.398	438.508	3.169 79	3.9845 7	123.4 28	302.79 9	1.61 527	24.9011	70.7116	459.5 05	101.6	74.4	79.8	26.4	34.4 001	419.7 65	11.69 79	220. 143	0.106 4
03:09:29 AM	828	55205 6	1603. 83	318. 411	1.01351	323.048	54.2103	45.59 61	993. 196	995.7	430.85	3.216 9	3.9914 4	123.5 47	301.30 8	1.60 858	24.9002	70.7022	459.5 01	101.47 7	74.4	79.8	26.4	34.4	416.4 92	11.72 68	220. 09	0.038 424
03:09:30 AM	812	55205 7	1603. 23	318. 298	1.01351	322.96	54.1975	45.60 32	993. 194	995.398	430.917	3.168 49	3.9929 7	123.0 08	303.11 6	1.60 874	24.9	70.7004	459.5	101.41 4	74.4	79.8	26.4	34.3 229	413.2 03	11.70 68	219. 922	0.106 4
03:09:31 AM	812	55205 8	1603. 38	318. 548	1.01351	322.864	54.1899	45.60 47	993. 194	995.398	439.3	3.346 59	3.9853 3	123.2 45	302.65 6	1.59 763	24.9	70.7001	459.5	101.40 3	74.4	79.8	26.4	34.3 042	409.9 68	11.70 99	219. 637	0.097 54
03:09:32 AM	828	55205 9	1603. 03	318. 834	1.01351	322.787	54.1893	45.59 65	993. 194	995.398	434.208	3.346 05	3.9883 9	123.3 49	303.45 5	1.60 035	24.9	70.7	459.2 56	101.4	74.4	79.8	26.4	34.3 008	406.7 01	11.72 81	219. 348	0.106 4
03:09:33 AM	828	55206 0	1602. 87	318. 669	1.01352	322.763	54.1934	45.63 45	993. 197	995.398	437.593	3.310 19	3.9899 1	123.7 99	304.10 3	1.61 496	24.9	70.7	459.2 1	101.4	74.49 37	79.8	26.4	34.3 001	403.5 03	11.72 35	219. 194	0.076 847
03:09:34 AM	812	55206 1	1603. 33	318. 498	1.01351	322.78	54.202	45.60 39	993. 199	995.398	432.361	3.197 09	3.9891 5	124.3 65	301.44 8	1.61 993	24.9	70.7	459.2 02	101.38 1	74.58 03	79.8	26.4	34.3	400.3 21	11.70 5	219. 106	0.106 4
03:09:35 AM	812	55206 2	1602. 96	318. 536	1.01351	322.814	54.2082	45.59 83	993. 197	995.398	438.673	3.271 88	3.9922 1	123.2 36	302.47 3	1.63 116	24.9	70.7	459.2	101.31 5	74.59 64	79.8	26.4	34.3	396.9 46	11.70 98	219. 092	0.106 4
03:09:36 AM	828	55206 3	1603. 37	318. 683	1.01351	322.837	54.2085	45.61 65	993. 2	995.398	431.043	3.474 69	3.9922 1	123.0 91	303.26 4	1.62 633	24.9	70.7	459.2	101.30 3	74.59 93	79.8	26.3 9	34.3	393.7 2	11.69 7	219. 089	0.076 847
03:10:31 AM	828	55211 8	1405. 29	307. 07	1.01355	311.014	45.768	45.68 25	993. 192	995.398	358.562	0.962 97	3.5452 3	132.8 75	282.27	1.56 061	24.9	66.48	449.6 39	100.69 5	74.3	79.9	26.3	34.4	238.5 45	9.953 88	220. 638	0.088 67
03:10:32 AM	828	55211 9	1405. 31	306. 972	1.01354	311.05	45.7875	45.66 54	993. 192	995.398	347.981	1.047 34	3.5505 8	133.0 48	281.79 4	1.55 618	24.9	66.3334	449.5 26	100.69 9	74.28	79.9	26.3	34.4	235.8	9.944 96	220. 637	0.079 8
03:10:33 AM	812	55212 0	1403. 69	307. 392	1.01355	311.071	45.8003	45.68 24	993. 192	995.398	351.979	1.207 69	3.5383 6	132.9 3	279.41 4	1.54 604	24.9	66.3062	449.5 05	100.7	74.13 34	79.853 1	26.3	34.4	233.1	9.932 06	220. 568	0.106 4
03:10:34 AM	828	55212 1	1405. 05	306. 917	1.01355	311.103	45.8044	45.68 36	993. 192	995.398	353.12	1.201 73	3.5505 8	133.1 21	280.75 7	1.55 766	24.9	66.3011	449.5 01	100.84 9	74.10 62	79.809 8	26.2 206	34.4	230.2 62	9.923 3	220. 412	0.088 67
03:10:35 AM	812	55212 2	1402. 99	307. 111	1.01354	311.161	45.7902	45.66 68	993. 191	995.398	357.974	1.021 9	3.546	132.5 68	280.29 5	1.54 563	24.9	66.3002	449.5	100.89 1	74.10 11	79.801 8	26.2 038	34.4	227.4 87	9.921 17	220. 211	0.008 867
03:10:36 AM	828	55212 3	1405. 11	306. 801	1.01354	311.201	45.7739	45.67 82	993. 191	995.398	355.052	1.060 45	3.5521 1	132.3 03	281.28 1	1.55 102	24.9	66.3	449.2 94	100.89 8	74.10 02	79.800 3	26.2 007	34.4	224.7 23	9.920 78	220. 026	0.124 138
03:10:37 AM	812	55212 4	1405. 66	307. 188	1.01354	311.198	45.7724	45.67 33	993. 191	995.398	355.505	1.250 29	3.5544	132.1 95	281.62 7	1.56 479	24.9	66.2349	448.9 73	100.9	74.1	79.800 1	26.2 001	34.4	222.0 17	9.935 55	219. 884	0.106 4
03:10:38 AM	812	55212 5	1405. 54	307. 646	1.01354	311.178	45.7754	45.65 81	993. 191	995.398	352.704	1.316 63	3.5528 7	132.7 66	281.72 7	1.56 956	24.9	66.2065	448.9 14	100.9	74.1	79.8	26.2	34.4	219.2 68	9.914 57	219. 805	0.017 734
03:10:39 AM	828	55212 6	1405. 27	307. 984	1.01355	311.227	45.8088	45.68 1	993. 191	995.398	356.845	1.271 89	3.5551 7	132.5 25	280.27 7	1.58 756	24.9	66.2012	448.9 02	100.75 9	74.1	79.8	26.2	34.4	216.4 95	9.915 19	219. 736	0.017 734
03:10:40 AM	812	55212 7	1405. 56	307. 849	1.01355	311.337	45.8439	45.68 52	993. 191	995.398	360.621	1.216 73	3.5559 3	133.3 66	281.21 9	1.58 172	24.9	66.2002	448.9	100.63	74.1	79.8	26.2	34.5 492	213.7 36	9.906 42	219. 633	0.106 4
03:10:41 AM	828	55212 8	1405. 34	308. 01	1.01355	311.476	45.8769	45.68 191	993. 191	995.398	357.019	1.064 74	3.5574 6	132.8 79	279.54 5	1.57 989	24.9	66.2	448.9	100.60 5	74.1	79.8	26.2	34.5 906	210.9 88	9.885 38	219. 48	0.011 82
03:10:42 AM	812	55212 9	1405. 15	307. 45	1.01354	311.616	45.9043	45.66 27	993. 191	995.398	356.035	1.468 23	3.5551 7	132.9 18	281.22 5	1.58 227	24.9	66.1312	448.6 69	100.60 1	74.1	79.8	26.2	34.5 983	208.2 53	9.899 36	219. 206	0.026 601
03:10:43 AM	812	55213 0	1405. 38	307. 54	1.01355	311.744	45.9144	45.68 18	993. 191	995.398	346.941	1.394 19	3.5566 9	133.1 55	282.1	1.57 173	24.9	66.0243	448.6 13	100.6	74.1	79.8	26.2	34.5 997	205.5 25	9.905 46	218. 935	0.106 4
03:10:44 AM	812	55213 1	1405. 5	307. 624	1.01355	311.85	45.9076	45.68 54	993. 191	995.398	348.764	1.183 35	3.5597 5	132.8 21	281.02	1.57 986	24.9	66.0045	448.6 02	100.6	74.1	79.731 4	26.2	34.5 999	202.7 59	9.912 06	218. 72	0.106 4
03:10:45 AM	828	55213 2	1404. 99	307. 685	1.01355	311.899	45.8946	45.68 61	993. 191	995.7	351.476	1.257 61	3.5574 6	132.1 17	282.46 8	1.57 211	24.9	66.0008	448.6	100.35 6	74.1	79.705 8	26.2	34.5 181	200.0 38	9.913 16	218. 604	0.162 562

03:10:46 AM	828	55213 3	1407. 35	307. 607	1.01355	311.899	45.9064	45.68 13	993. 191	995.398	359.541	1.307 89	3.5597 5	132.9 05	282.61 7	1.54 952	24.9	66.0002	448.6	100.31	74.1	79.701 1	26.2	34.4 219	197.3 35	9.901 67	218. 636	0.017 734
03:10:47 AM	812	55213 4	1405. 54	307. 426	1.01355	311.873	45.9123	45.68 53	993. 191	995.398	357.577	1.123 68	3.5628 1	133.0 24	281.89 9	1.55 815	24.9	66	448.4 44	100.30 2	74.1	79.700 2	26.2	34.4 041	194.5 43	9.899 55	218. 682	0.047 291
03:10:48 AM	812	55213 5	1405. 36	307. 275	1.01355	311.816	45.9111	45.68 6	993. 191	995.398	349.367	1.187 78	3.5651	132.5 9	281.65 1	1.55 287	24.9	65.9282	448.3 27	100.3	74.1	79.7	26.2	34.4 008	191.8 2	9.910 88	218. 724	0.106 4
03:10:49 AM	828	55213 6	1405. 54	307. 359	1.01354	311.747	45.9051	45.65 78	993. 191	995.7	355.297	1.126 84	3.5651	132.5 24	281.84 1	1.56 448	24.9	65.9052	448.3 05	100.3	74.25 42	79.727 1	26.2	34.4 001	189.0 16	9.937 22	218. 734	0.029 56
03:10:50 AM	828	55213 7	1405. 17	307. 562	1.01354	311.703	45.8695	45.67 6	993. 191	995.398	351.934	1.423 97	3.5666 3	132.6 14	281.48 4	1.59 475	24.9	65.901	448.3 01	100.52 8	74.29 15	79.786 5	26.2	34.4	186.3 1	9.944 37	218. 789	0.106 4
03:10:51 AM	812	55213 8	1405. 46	307. 861	1.01354	311.707	45.8593	45.67 83	993. 191	995.398	356.738	1.277 55	3.5643 3	132.3 23	281.2	1.58 617	24.9	65.9002	448.3	100.66 8	74.29 84	79.797 5	26.2	34.4	183.5 73	9.927 96	218. 954	0.106 4
03:10:52 AM	828	55213 9	1405. 08	307. 78	1.01355	311.736	45.8695	45.68 47	993. 191	995.398	360.339	1.240 66	3.5605 1	132.5 25	281.58 4	1.59 016	24.9	65.9	448.2 7	100.69 4	74.29 97	79.799 5	26.2	34.4	180.8 07	9.945 53	219. 159	0.067 98
03:10:53 AM	828	55214 0	1404. 6	307. 85	1.01354	311.764	45.8876	45.67 67	993. 191	995.398	351.657	1.208 68	3.5582 2	133.1 64	281.55 6	1.57 008	24.9	65.7957	448.0 5	100.69 9	74.29 99	79.799 9	26.2	34.4	178.0 73	9.931 17	219. 371	0.115 271
03:10:54 AM	812	55214 1	1405. 01	307. 479	1.01355	311.8	45.9045	45.68 44	993. 191	995.398	354.587	1.192 86	3.5696 8	132.7 64	282.09	1.57 097	24.9	65.7177	448.0 09	100.7	74.3	79.8	26.2	34.4	175.3 15	9.939 96	219. 46	0.106 4
03:10:55 AM	828	55214 2	1405. 13	307. 327	1.01353	311.826	45.9007	45.65 54	993. 191	995.398	358.107	1.281 88	3.5612 8	132.9 35	281.43 7	1.57 608	24.9	65.7033	448.0 02	100.53 7	74.3	79.877 1	26.2	34.4	172.5 73	9.941 88	219. 47	0.106 4
03:10:56 AM	812	55214 3	1405. 19	307. 235	1.01354	311.828	45.8848	45.67 55	993. 191	995.398	350.809	1.460 58	3.5651	132.7 71	280.69 1	1.57 147	24.9	65.7007	448	100.19	74.3	79.895 3	26.2	34.4	169.9 52	9.942 23	219. 464	0.026 601
03:10:57 AM	812	55214 4	1405. 28	307. 819	1.01355	311.796	45.8641	45.68 42	993. 191	995.398	346.949	1.398 47	3.5666 3	132.8 73	282.36	1.57 265	24.9	65.7001	448	100.11 7	74.3	79.899 1	26.2	34.4	167.1 49	9.926 17	219. 483	0.106 4
03:10:58 AM	812	55214 5	1405. 62	307. 788	1.01355	311.75	45.8528	45.67 67	993. 191	995.398	353.951	1.098 42	3.5727 4	133.0 16	281.46 6	1.55 528	24.9	65.7	447.8 16	100.10 3	74.3	79.899 8	26.2	34.4	164.3 81	9.941 5	219. 548	0.059 11
03:10:59 AM	812	55214 6	1403. 37	308. 631	1.01355	311.73	45.8679	45.68 44	993. 191	995.398	354.166	1.003 47	3.5490 5	133.1 6	280.58 2	1.54 969	24.9	65.6185	447.7 22	100.10 1	74.3	79.9	26.2	34.4	161.6 21	9.962 88	219. 605	0.106 4
03:11:00 AM	812	55214 7	1405. 24	307. 567	1.01354	311.748	45.8924	45.66 85	993. 191	995.398	358.978	1.054 57	3.5666 3	133.5 47	281.93 2	1.56 069	24.9	65.6034	447.7 04	100.1	74.38 15	79.9	26.2	34.4	158.8 55	9.950 84	219. 634	0.115 271
03:12:02 AM	812	55220 9	1210. 65	290. 983	1.01417	295.345	37.4506	45.68 55	993. 192	995.398	274.537	0.780 595	3.0699 9	139.2 63	260.11	1.52 485	25.0996	61.4027	433.6 03	99.641	74.30 72	79.918 5	26	34.4	460.9 25	8.350 38	227. 404	0.106 4
03:12:03 AM	812	55221 0	1209. 99	291. 257	1.01417	295.369	37.4429	45.68 61	993. 192	995.398	269.652	0.869 335	3.0631 1	138.5 42	259.70 2	1.55 374	25.0999	61.4005	433.6 01	99.689 1	74.30 13	79.903 4	26	34.3 349	458.6 19	8.415 63	227. 231	0.106 4
03:12:04 AM	812	55221 1	1209. 2	291. 565	1.01385	295.386	37.4123	45.68 22	993. 192	995.398	277.083	0.677 071	3.0554 7	138.5 62	259.89 9	1.57 653	24.9956	61.4001	433.6	99.698	74.30 02	79.900 6	25.9 185	34.3 065	456.3 01	8.353 95	227. 153	0.056 158
03:12:05 AM	812	55221 2	1210. 65	290. 679	1.0136	295.352	37.4046	45.68 55	993. 192	995.398	275.956	0.755 888	3.0761	138.4 43	260.43 1	1.58 123	24.9177	61.3458	433.0 26	99.699 6	74.3	79.900 1	25.9 034	34.3 012	453.9 44	8.377 06	227. 069	0.106 4
03:12:06 AM	812	55221 3	1208. 74	290. 997	1.01356	295.264	37.3969	45.68 61	993. 192	995.398	274.376	0.846 106	3.0677	139.0 94	258.89 9	1.56 323	24.9033	61.227	432.8 42	99.699 9	74.3	79.9	25.9 006	34.3 002	451.6 11	8.414 57	227. 051	0.106 4
03:12:07 AM	812	55221 4	1210. 43	290. 546	1.01355	295.156	37.3893	45.68 62	993. 192	995.398	281.409	0.825 389	3.0768 6	138.6 63	258.33 4	1.54 418	24.9006	61.205	432.8 08	99.7	74.3	80.013 9	25.9 001	34.3	449.2 87	8.410 88	227. 125	0
03:12:08 AM	812	55221 5	1210. 97	290. 589	1.01355	295.061	37.3838	45.67 7	993. 192	995.398	268.039	0.736 328	3.0829 8	138.4 19	259.33 2	1.55 005	24.9001	61.2009	432.8 01	99.620 6	74.3	80.084	25.9	34.3	446.9 46	8.426 2	227. 238	0.076 847
03:12:09 AM	812	55221 6	1209. 79	290. 706	1.01354	294.98	37.3583	45.68 26	993. 192	995.398	273.932	0.741 222	3.0684 6	138.8 28	257.76 2	1.55 456	24.9	61.2002	432.8	99.603 8	74.3	80.097	25.9	34.3	444.6 75	8.433 75	227. 552	0.106 4
03:12:10 AM	812	55221 7	1210. 69	291. 219	1.01355	294.91	37.37	45.68 55	993. 192	995.398	270.854	0.671 834	3.0608 2	138.0 79	258.10 4	1.57 91	24.9	61.2	432.5 66	99.600 7	74.3	80.099 4	25.9	34.3	442.3 42	8.421 9	227. 912	0.106 4

03:12:11 AM	812	552218	1210.47	290.425	1.01354	294.874	37.3681	45.672	993.191	995.398	281.59	0.738184	3.0868	137.82	259.423	1.57372	24.9	61.0565	432.349	99.6001	74.3	80.0999	25.9	34.3	439.95	8.42859	228.187	0.09754
03:12:12 AM	812	552219	1209.73	290.777	1.01354	294.831	37.3809	45.6733	993.191	995.398	271.561	0.949499	3.0761	137.969	259.69	1.55525	24.9	61.0105	432.309	99.6	74.1565	80.0458	25.9	34.3	437.672	8.41777	228.425	0.1064
03:12:13 AM	812	552220	1210.76	290.503	1.01354	294.803	37.3911	45.6636	993.192	995.398	274.184	1.07861	3.08603	137.979	259.045	1.53992	24.9	61.0019	432.302	99.6	74.1005	79.927	25.9	34.3	435.363	8.4087	228.468	0.1064
03:12:14 AM	812	552221	1211.13	290.602	1.01354	294.788	37.3762	45.6702	993.192	995.398	265.595	1.12213	3.09062	137.949	259.234	1.52385	24.9	61.0004	432.3	99.6	74.1019	79.905	25.9	34.3	432.996	8.42206	228.411	0.1064
03:12:15 AM	812	552222	1208.92	291.068	1.01354	294.777	37.3696	45.6832	993.194	995.398	276.468	0.86919	3.07304	138.112	257.656	1.50689	24.9	61.0001	432.3	99.6	74.1004	79.9009	25.9	34.3	430.62	8.43299	228.362	0.133005
03:12:16 AM	812	552223	1209.66	290.82	1.01354	294.775	37.3479	45.6857	993.194	995.398	273.465	0.874291	3.06922	137.572	258.331	1.54652	24.9	60.8968	431.811	99.6	74.1001	79.9002	25.8229	34.3	428.352	8.42014	228.354	0.056158
03:12:17 AM	812	552224	1209.96	290.84	1.01354	294.761	37.3312	45.6742	993.194	995.398	271.786	1.03863	3.08833	138.036	258.679	1.53205	24.9	60.7365	431.721	99.6	74.1	79.9	25.8694	34.3	426.099	8.38003	228.421	0.02956
03:12:18 AM	812	552225	1209.4	291.707	1.01354	294.747	37.3326	45.684	993.194	995.171	276.762	0.840775	3.0654	138.585	258.857	1.53379	24.9	60.7068	431.704	99.562	74.1	79.9	25.8943	34.3	423.81	8.34884	228.452	0.1064
03:12:19 AM	812	552226	1209.9	291.595	1.01354	294.762	37.3519	45.6858	993.194	995.171	280.336	0.793842	3.07763	138.932	258.23	1.54603	24.9	60.7013	431.701	99.43	74.1	79.9	25.8646	34.2478	421.441	8.3505	228.308	0.1064
03:12:20 AM	812	552227	1209.4	291.382	1.01354	294.844	37.3783	45.6817	993.194	995.171	270.844	0.823419	3.0654	139.266	255.983	1.53696	24.9	60.7002	431.7	99.4056	74.1	79.9	25.812	34.2089	419.068	8.36099	227.918	0.1064
03:12:21 AM	812	552228	1208.28	290.905	1.01354	294.928	37.3895	45.6713	993.194	995.171	268.076	0.707137	3.07839	138.326	258.25	1.53412	24.9	60.7	431.332	99.401	74.1	79.9	25.8022	34.2016	416.762	8.36293	227.382	0.017734
03:12:22 AM	812	552229	1208.9	290.977	1.01354	294.951	37.3921	45.6834	993.194	995.398	277.552	0.841768	3.0761	138.347	256.872	1.53742	24.9	60.6229	431.143	99.4002	74.1	79.9	25.8004	34.2003	414.417	8.36329	226.935	0.1064
03:12:23 AM	812	552230	1209.87	289.902	1.01354	294.941	37.3696	45.679	993.194	995.398	264.06	0.763661	3.09749	137.499	260	1.55053	24.9	60.6042	431.108	99.4	73.9371	79.9	25.8001	34.2001	412.093	8.39727	226.705	0.1064
03:12:24 AM	812	552231	1210.18	290.33	1.01354	294.888	37.3427	45.6849	993.194	995.171	276.598	0.578126	3.08909	136.963	260.562	1.5465	24.9	60.6008	431.101	99.1942	73.9069	79.9	25.8	34.143	409.805	8.35203	226.76	0.1064
03:12:25 AM	812	552232	1210.4	290.415	1.01353	294.79	37.3237	45.6626	993.194	995.398	272.731	0.760108	3.0952	137.644	258.156	1.56842	24.9	60.6001	431.1	99.1174	73.9013	79.9	25.8	33.945	407.481	8.34365	226.942	0
03:12:26 AM	812	552233	1209.58	290.774	1.01354	294.675	37.3093	45.6818	993.192	995.171	275.405	0.831521	3.09367	137.424	258.804	1.57197	24.9	60.6	430.91	99.1032	73.9002	79.9	25.8	33.9083	405.18	8.3421	227.106	0.026601
03:12:27 AM	812	552234	1212.8	290.8	1.01355	294.578	37.321	45.6854	993.191	995.398	279.474	0.863999	3.07992	139.538	254.645	1.58517	24.9	60.4861	430.495	99.1006	73.9	79.9	25.8	33.9015	402.891	8.35293	227.121	0.1064
03:12:28 AM	812	552235	1212.78	291.14	1.01354	294.508	37.3392	45.6746	993.191	995.398	271.026	0.784757	3.07534	138.198	256.452	1.58218	24.9	60.416	430.418	99.1001	74.0303	79.9	25.8	33.9003	400.572	8.37707	226.992	0.1064
03:12:29 AM	812	552236	1207.81	290.688	1.01354	294.488	37.3427	45.6709	993.191	995.398	271.846	0.613884	3.08068	136.896	257.419	1.55302	24.9	60.403	430.403	99.1	74.0871	79.8206	25.8	33.9001	398.281	8.39838	226.888	0.1064
03:12:30 AM	812	552237	1208.44	290.483	1.01354	294.512	37.3473	45.6789	993.192	995.398	281.008	0.760675	3.08221	136.733	258.427	1.52974	24.9	60.4005	430.401	99.1	74.0976	79.8038	25.8	34.0435	396.001	8.35854	226.878	0
03:12:31 AM	812	552238	1208.94	290.499	1.01355	294.552	37.3325	45.6849	993.192	995.171	283.324	0.899871	3.09215	136.798	259.226	1.51146	24.9	60.4001	430.4	99.1	74.0996	79.8007	25.8	34.0895	393.713	8.35475	226.981	0.056158
03:13:14 AM	812	552281	1012.61	259.795	1.01353	264.787	28.1609	45.6594	993.199	995.398	185.007	0.493687	2.53362	136.471	230.854	1.38985	24.9	56.6002	412.1	98.105	73.7003	79.9019	25.6	34.2928	312.244	6.35213	228.659	0.183251
03:13:15 AM	812	552282	1016.11	261.444	1.01353	264.686	28.1594	45.6738	993.201	995.171	180.295	0.407934	2.5191	136.666	227.498	1.38898	24.9	56.6	411.253	98.1009	73.7001	79.9004	25.6	34.2987	310.496	6.35745	228.766	0.1064
03:13:16 AM	828	552283	1009.31	262.315	1.01353	264.577	28.1554	45.6756	993.201	995.398	188.348	0.506299	2.49006	136.539	228.779	1.39229	24.9	56.3618	410.884	98.1002	73.7	79.9001	25.6	34.2998	308.721	6.32254	228.752	0.1064
03:13:17 AM	812	552284	1024.42	260.256	1.01353	264.537	28.1246	45.6768	993.199	995.171	178.318	0.23503	2.52827	135.089	231.503	1.39721	24.9	56.3114	410.816	98.1	73.7	79.8532	25.6	34.3	306.96	6.32669	228.677	0.1064

03:13:18 AM	812	55228 5	1014. 93	259. 647	1.01354	264.548	28.1238	45.68 45	993. 199	995.398	172.553	0.557 132	2.5313 3	134.7 27	232.91 9	1.42 678	24.9	56.3021	410.8 03	98.1	73.7	79.809 9	25.6	34.3	305.2 23	6.329 56	228. 594	0.124 138
03:13:19 AM	812	55228 6	1019. 67	260. 193	1.01354	264.464	28.1191	45.68 59	993. 201	995.398	170.373	0.443 935	2.5259 8	134.8 97	232.91 9	1.45 942	24.9	56.3004	410.8 01	98.1	73.7	79.801 8	25.6	34.3	303.4 4	6.311 3	228. 464	0.144 828
03:13:20 AM	828	55228 7	1020. 16	257. 844	1.01353	264.334	28.1386	45.66 71	993. 201	995.398	164.402	0.206 029	2.5657 1	135.2 93	234.07 9	1.47 156	24.9	56.3001	410.3 09	98.1	73.7	79.800 3	25.6	34.3	301.6 83	6.321 99	228. 257	0.106 4
03:13:21 AM	812	55228 8	1016. 97	257. 932	1.01353	264.167	28.0964	45.66 3	993. 2	995.398	174.072	0.158 897	2.5649 4	135.5 78	233.24 5	1.45 405	24.9	56.1162	409.7 31	98.1	73.7	79.800 1	25.6	34.3	299.9 09	6.328 69	228. 053	0.106 4
03:13:22 AM	812	55228 9	1018. 01	260. 153	1.01353	263.983	28.0864	45.67 2	993. 199	995.398	166.684	0.102 99	2.5397 3	137.2 26	225.88 7	1.44 637	24.9	56.0215	409.6 24	98.1	73.7	79.8	25.6	34.3	298.1 81	6.329 93	227. 986	0.065 025
03:13:23 AM	828	55229 0	1016. 24	260. 088	1.01353	263.831	28.0598	45.67 68	993. 198	995.398	184.358	0.014 99	2.5641 8	137.8 29	228.32 9	1.47 237	24.9	56.004	409.6 05	97.943 5	73.7	79.8	25.6	34.3	296.4 66	6.318 87	228. 015	0
03:13:24 AM	828	55229 1	1017. 56	262. 767	1.01353	263.771	28.0579	45.68 16	993. 199	995.171	180.913	0.120 696	2.5282 7	136.9 74	222.93 1	1.42 676	24.9	56.0007	409.6 01	97.826 6	73.7	79.8	25.6	34.3	294.7 02	6.325 53	228. 212	0.094 581
03:13:25 AM	812	55229 2	1010. 96	262. 86	1.01354	263.942	28.1138	45.68 54	993. 198	995.398	172.571	0.049 323	2.4992 3	135.9 57	228.65 6	1.51 377	24.9	56.0001	409.6	97.804 9	73.7	79.8	25.6	34.3	292.8 75	6.341 97	228. 287	0.106 4
03:13:26 AM	812	55229 3	1010. 43	259. 939	1.01353	264.172	28.1213	45.66 65	993. 198	995.171	163.259	0.322 351	2.5122 2	134.6 52	232.07	1.53 003	24.9	55.8969	408.8 85	97.800 9	73.7	79.8	25.6	34.3	291.1 16	6.353 39	228. 278	0.106 4
03:13:27 AM	828	55229 4	1019. 73	258. 16	1.01354	264.335	28.1201	45.66 52	993. 196	995.398	175.795	0.057 3	2.5741 1	133.4 28	234.43	1.49 533	24.9	55.7365	408.7 34	97.800 2	73.7	79.8	25.6	34.3	289.4 09	6.340 64	228. 288	0.106 4
03:13:28 AM	812	55229 5	1013. 76	261. 473	1.01353	264.315	28.0745	45.65 26	993. 196	995.171	172.597	0.190 898	2.5466 1	134.2 88	233.84	1.49 269	24.9	55.7068	408.7 06	97.8	73.7	79.868 6	25.6	34.3	287.6 92	6.314 52	228. 341	0.088 67
03:13:29 AM	812	55229 6	1014. 62	260. 997	1.01353	264.324	28.0107	45.65 58	993. 196	995.171	165.576	0.437 131	2.5435 5	135.1 63	233.90 6	1.41 826	24.9	55.7013	408.7 01	97.637 1	73.7	79.894 2	25.6	34.3	285.9 12	6.315 16	228. 604	0.144 828
03:13:30 AM	828	55229 7	1018. 74	260. 355	1.01354	264.385	27.9997	45.66 22	993. 196	995.398	173.185	0.012 013	2.5588 3	138.1 82	224.29 2	1.39 102	24.9	55.7002	408.7	97.606 9	73.7	79.898 9	25.6	34.3	284.1 49	6.327 82	228. 853	0.038 424
03:13:31 AM	812	55229 8	1018. 28	261. 809	1.01354	264.359	28.0737	45.65 85	993. 194	995.398	172.471	0.010 86	2.5198 7	140.7 63	223.05 8	1.44 319	24.9	55.7	408.1 87	97.601 3	73.7	79.899 8	25.6	34.3	282.4 14	6.312 14	228. 858	0.106 4
03:13:32 AM	812	55229 9	1008. 51	263. 002	1.01353	264.281	28.1398	45.63 82	993. 197	995.398	165.212	0.169 364	2.4548 7	137.8 31	224.76 6	1.46 317	24.9	55.6254	407.8 72	97.600 2	73.7	79.9	25.6	34.3	280.6 75	6.309 24	228. 589	0.106 4
03:13:33 AM	812	55230 0	1015. 61	259. 444	1.01354	264.259	28.2157	45.67 33	993. 196	995.398	180.602	0.222 33	2.5374 4	134.9 62	229.60 6	1.48 587	24.9	55.6047	407.8 13	97.6	73.77 71	79.9	25.6	34.3	278.9 62	6.308 7	228. 073	0.106 4
03:13:34 AM	828	55230 1	1016. 72	260. 693	1.01353	264.362	28.2024	45.66 97	993. 196	995.171	173.31	0.319 847	2.5351 5	133.5 81	229.50 1	1.48 023	24.9	55.6009	407.8 02	97.416 2	73.79 58	79.9	25.6	34.3	277.1 79	6.308 6	227. 454	0.088 67
03:13:35 AM	812	55230 2	1013. 33	261. 204	1.01353	264.447	28.1425	45.66 61	993. 196	995.171	169.036	0.154 454	2.5298 47	133.8 285	231.81 6	1.46 285	24.9	55.6002	407.8	97.321 5	73.79 92	79.9	25.6	34.2 185	275.4 76	6.326 21	227. 137	0.115 271
03:13:36 AM	828	55230 3	1015. 77	258. 855	1.01353	264.496	28.0868	45.66 44	993. 194	995.398	161.178	0.152 058	2.5741 1	133.8 78	232.69 5	1.48 091	24.9	55.6	407.6 1	97.304 99	73.79 99	79.9	25.6	34.2 034	273.7 1	6.296 1	227. 132	0.106 4
03:13:37 AM	828	55230 4	1016. 12	259. 351	1.01354	264.467	28.0634	45.65 73	993. 194	995.171	173.961	0.211 67	2.5618 9	135.8 99	227.39 65	1.45 65	24.9	55.4435	406.9 5	97.300 7	73.8	79.9	25.5 478	34.2 006	271.9 73	6.283 09	227. 35	0.106 4
03:13:38 AM	828	55230 5	1016. 86	261. 657	1.01354	264.361	28.0777	45.66 36	993. 192	995.171	179.073	0.088 46	2.5374 4	138.5 84	225.68 5	1.45 84	24.9	55.3266	406.8 28	97.300 1	73.8	79.9	25.5 089	34.2 001	270.2 26	6.301 05	227. 55	0.008 867
03:13:39 AM	812	55230 6	1016. 43	260. 21	1.01354	264.23	28.0847	45.68 2	993. 192	995.398	167.893	0.205 38	2.5397 3	135.2 92	229.27 8	1.44 739	24.9	55.3049	406.8 05	97.191 6	73.8	79.9	25.5 016	34.2	268.4 41	6.322 71	227. 606	0.038 424
03:13:40 AM	812	55230 7	1019. 64	262. 277	1.01354	264.224	28.132	45.67 94	993. 194	995.171	180.694	0.052 07	2.5107	133.1 25	228.02 2	1.44 155	24.9	55.3009	406.8 01	96.954	73.8	79.9	25.5 003	34.2	266.7 14	6.308 12	227. 474	0.106 4
03:13:41 AM	812	55230 8	1015. 87	260. 244	1.01354	264.295	28.1167	45.67 58	993. 194	995.171	172.796	0.084 02	2.5573	132.5 48	229.46 5	1.42 873	24.9	55.3002	406.8	96.91	73.8	79.9	25.5 001	34.2	264.9 96	6.307 8	227. 341	0.106 4
03:13:42 AM	812	55230 9	1016. 22	261. 064	1.01354	264.276	28.121	45.68 43	993. 194	995.398	168.659	0.216 53	2.5489 1	132.4 229.97 3	1.42 147	24.9	55.3	406.2 14	96.901 9	73.8	79.9	25.5	34.2	263.2 28	6.289 65	227. 334	0.106 4	

03:13:43 AM	828	552310	1014.75	261.55	1.01354	264.242	28.1256	45.6784	993.194	995.171	177.379	0.11434	2.56342	132.146	230.975	1.42771	24.9	55.1371	405.958	96.9003	73.82	79.9	25.5	34.2	261.49	6.28158	227.286	0.056158
03:14:39 AM	812	552366	1605.52	283.758	1.01323	287.214	48.3144	45.6862	993.199	995.171	361.593	4.69194	4.22295	106.627	279.323	1.6182	24.8	61.0176	418.112	97.0998	74.401	79.7002	25.2	34.2	388.91	10.4548	220.828	0.047291
03:14:40 AM	812	552367	1605.96	283.624	1.01323	287.273	48.3272	45.694	993.201	995.171	364.732	4.77654	4.21455	106.44	279.302	1.63843	24.8	61.0847	418.184	97.1	74.1618	79.4189	25.2	34.2	386.032	10.4837	220.61	0.065025
03:14:41 AM	812	552368	1605.66	283.666	1.01322	287.333	48.3367	45.6877	993.203	995.171	372.947	4.97503	4.21455	108.926	276.075	1.63974	24.8	61.0972	418.197	96.9628	74.1115	79.1591	25.2	34.2	383.172	10.489	220.323	0.1064
03:14:42 AM	812	552369	1605.79	283.206	1.01322	287.374	48.3345	45.6865	993.202	995.398	369.057	4.70848	4.21837	109.469	276.232	1.63646	24.8	61.0995	418.199	96.9116	74.1021	79.1109	25.2	34.185	380.293	10.5072	220.031	0.1064
03:14:43 AM	812	552370	1605.03	283.088	1.01322	287.379	48.318	45.6863	993.203	995.171	365.147	4.63954	4.21913	107.838	280.835	1.64501	24.8	61.0999	418.276	96.9022	74.1004	79.102	25.2	34.1034	377.413	10.4939	219.873	0.1064
03:14:44 AM	812	552371	1605.26	283.088	1.01322	287.319	48.2894	45.6862	993.204	995.171	363.738	4.38275	4.21608	111.089	278.8874	1.63874	24.8	61.1522	418.54	96.9004	74.1001	79.1004	25.2	34.1006	374.513	10.4909	219.884	0.05025
03:14:45 AM	812	552372	1604.81	283.212	1.01322	287.23	48.2601	45.6862	993.203	995.171	359.421	4.50561	4.21149	114.753	271.988	1.64424	24.8	61.1911	418.589	96.9001	74.4063	79.1001	25.2	34.1001	371.522	10.5227	220.026	0.008867
03:14:46 AM	812	552373	1605.62	282.875	1.01322	287.126	48.2313	45.6862	993.207	995.171	364.858	4.55094	4.21531	111.481	278.587	1.65891	24.8	61.1984	418.598	96.9819	74.5641	79.1771	25.2	34.1	368.597	10.516	220.266	0.174384
03:14:47 AM	812	552374	1605.36	283.243	1.01322	287.027	48.2167	45.6862	993.207	995.171	357.557	4.71052	4.21455	109.486	282.341	1.65028	24.8	61.1997	418.61	97.0781	74.5933	79.1958	25.2	33.9697	365.687	10.5408	220.496	0.1064
03:14:48 AM	812	552375	1605.79	283.375	1.01322	286.931	48.2172	45.6862	993.205	995.171	359.598	4.56246	4.22372	114.508	277.057	1.63271	24.8	61.1999	418.61	97.0959	74.5988	79.1992	25.2	33.9129	362.792	10.5384	220.724	0.08867
03:14:49 AM	812	552376	1605.56	283.103	1.01322	286.887	48.2237	45.6788	993.205	995.171	361.513	4.48603	4.21837	123.515	259.488	1.62141	24.8	61.219	418.749	97.0993	74.5998	79.1999	25.2	33.9024	359.848	10.5344	220.955	0.1064
03:14:50 AM	812	552377	1605.73	283.285	1.01322	286.883	48.2362	45.6848	993.205	995.171	369.31	4.67469	4.21913	110.016	282.01646	1.60646	24.8	61.285	418.791	97.0999	74.7626	79.2	25.2	33.9004	356.917	10.5072	221.12	0.056158
03:14:51 AM	812	552378	1605.07	283.604	1.01322	286.907	48.2478	45.686	993.205	995.171	361.999	4.67976	4.21837	106.484	283.573	1.60695	24.8	61.2972	418.798	97.1	75.1189	79.5675	25.2	33.9001	353.994	10.5243	221.199	0.1064
03:14:52 AM	812	552379	1605.34	282.687	1.01322	286.937	48.2515	45.6817	993.203	995.171	360.032	4.78585	4.2176	108.603	283.196	1.59561	24.8	61.2995	418.81	97.1	75.185	79.7569	25.2	33.9	351.047	10.5377	221.172	0.1064
03:14:53 AM	812	552380	1603.34	283.964	1.01323	286.953	48.2463	45.6854	993.2	995.171	355.614	4.38401	4.20385	112.19	278.941	1.59959	24.8	61.2999	418.81	97.1	75.1972	79.792	25.2	33.9	348.162	10.5503	221.11	0.076847
03:14:54 AM	812	552381	1604.18	282.909	1.01323	286.967	48.2309	45.6861	993.199	995.171	361.316	4.41362	4.21531	107.889	283.412	1.59581	24.8	61.3	418.941	97.1	75.1995	79.7985	25.2	33.9	345.272	10.5466	221.098	0.056158
03:14:55 AM	812	552382	1604.77	282.587	1.01323	286.947	48.2151	45.6862	993.201	995.171	356.387	4.41999	4.21531	107.001	282.421	1.59002	24.8	61.4372	419.07	97.1	75.1999	79.7997	25.2	33.9	342.343	10.5495	221.201	0.017734
03:14:56 AM	812	552383	1605.14	282.874	1.01323	286.882	48.1979	45.6862	993.199	995.171	367.263	4.61462	4.21149	107.415	282.803	1.60883	24.8	61.4884	419.095	97.1	75.7023	79.9625	25.2	33.9	339.522	10.5304	221.366	0.1064
03:14:57 AM	812	552384	1604.88	283.018	1.01323	286.799	48.1801	45.6862	993.201	995.171	359.594	4.49651	4.21073	107.248	282.173	1.60748	24.8	61.4978	419.099	97.1	75.8634	80.3189	25.2	33.9	336.598	10.4889	221.537	0.1064
03:14:58 AM	812	552385	1604.86	283.078	1.01323	286.737	48.1746	45.6862	993.197	995.171	364.665	4.68972	4.21378	106.068	283.878	1.63069	24.8	61.4996	419.11	97.1	75.8932	80.385	25.2	34.0588	333.664	10.4782	221.565	0.106404
03:14:59 AM	812	552386	1605.08	283.281	1.01323	286.708	48.1742	45.6862	993.197	995.171	362.764	4.72634	4.21455	106.008	284.325	1.63282	24.8	61.4999	419.12	97.1	75.8987	80.3972	25.2	34.0924	330.757	10.4959	221.43	0.1064
03:15:00 AM	812	552387	1605.41	283.695	1.01323	286.706	48.1935	45.6862	993.197	995.171	362.214	4.94217	4.21073	106.983	284.828	1.63198	24.8	61.5468	419.267	97.1	75.8998	80.3995	25.2	34.0986	327.888	10.5079	221.182	0.038424
03:15:01 AM	812	552388	1605.51	283.593	1.01323	286.753	48.2258	45.6862	993.199	995.171	365.717	4.50706	4.20767	107.774	285.679	1.62909	24.8	61.5901	419.294	97.1	75.8062	80.3999	25.2	34.0997	324.953	10.4795	220.875	0.1064
03:15:02 AM	812	552389	1604.87	283.654	1.01323	286.852	48.2565	45.6929	993.199	995.171	364.504	4.71068	4.2092	108.339	285.621	1.61751	24.8	61.5982	419.299	97.119	75.7197	80.4717	25.2	34.1	322.05	10.4471	220.605	0.038424
03:15:03 AM	812	552390	1605.2	283.605	1.01323	286.994	48.282	45.6875	993.199	995.171	362.25	4.71525	4.20309	108.926	285.698	1.63062	24.8	61.5997	419.31	97.185	75.7037	80.4948	25.2	33.9957	319.125	10.4588	220.363	0.008867

03:15:04 AM	812	55239 1	1605.79	283.601	1.01323	287.119	48.2997	45.68 64	993.199	995.171	362.701	4.580 35	4.2092	109.2 02	284.19 6	1.63 561	24.8	61.5999	419.3	97.197 2	75.70 07	80.499	25.2	33.9 177	316.2 55	10.46 68	220. 1	0.106 4
03:15:05 AM	812	55239 2	1605.95	284.448	1.01323	287.237	48.3161	45.68 63	993.199	995.171	363.12	4.743 08	4.2145 5	109.4 93	285.92 4	1.63 474	24.8	61.6	419.6 43	97.199 5	75.70 01	80.499 8	25.2	33.9 033	313.3 18	10.48 59	219. 832	0.106 4
03:15:06 AM	812	55239 3	1605.51	284.693	1.01323	287.385	48.3416	45.67 71	993.199	995.171	368.483	4.928 92	4.2122 6	109.5 57	285.83 4	1.63 908	24.8	61.7588	419.7 71	97.199 9	75.66	80.5	25.2	33.9 006	310.3 65	10.46 8	219. 621	0.088 67
03:15:07 AM	812	55239 4	1605.45	284.202	1.01323	287.568	48.3769	45.68 26	993.199	995.171	359.666	4.905 59	4.2061 4	109.6 8	285.82 5	1.64 146	24.8	61.7924	419.7 95	97.2	75.36 67	80.453 1	25.2	33.9 001	307.5 24	10.47 88	219. 486	0.144 828
03:15:08 AM	812	55239 5	1605.95	284.194	1.01323	287.719	48.4147	45.68 55	993.199	995.171	369.234	4.883 95	4.2137 8	109.6 15	285.64 4	1.64 528	24.8	61.7986	419.7 99	97.128 2	75.31 24	80.409 8	25.2	33.9	304.6 06	10.45	219. 394	0.106 4
03:16:21 AM	812	55246 8	2016.83	272.811	1.01322	275.706	58.2375	45.64 65	993.194	995.398	492.962	9.647 49	4.7272 3	90.68 99	346.17 2	1.54 079	24.8	69.7565	424.7 25	97.201	75.8	80.1	25.1	34.1 994	455.7 52	12.71 45	220. 913	0.106 4
03:16:22 AM	812	55246 9	2016.46	272.611	1.01321	275.819	58.2488	45.64 77	993.197	995.171	497.903	9.615 27	4.7287 6	92.05 33	346.56	1.54 006	24.8	69.8734	424.7 86	97.200 2	75.85 22	80.1	25.1	34.1 999	452.2 53	12.70 71	220. 975	0.026 601
03:16:23 AM	812	55247 0	2016.52	272.664	1.01322	275.916	58.2791	45.64 94	993.198	995.171	498.8	9.391 03	4.7302 9	92.99	345.12 9	1.55 242	24.8	69.8951	424.7 97	97.362 6	75.89 11	80.177 1	25.1	34.2	448.7 79	12.70 43	220. 994	0.038 424
03:16:24 AM	812	55247 1	2016.45	272.922	1.01321	275.992	58.3134	45.65 12	993.197	995.171	501.81	9.550 92	4.7257	92.54 57	347.27 3	1.56 846	24.8	69.8991	424.8	97.719	75.89 84	80.195 8	25.1	34.2	445.2 29	12.74 52	220. 992	0.106 4
03:16:25 AM	812	55247 2	2016.35	272.776	1.0132	276.078	58.3406	45.63 25	993.199	995.171	496.981	9.641 26	4.7195 9	93.48 14	347.30 2	1.56 971	24.8	69.8998	424.8	97.785	75.89 97	80.199 2	25.1	34.2	441.6 73	12.76 47	220. 961	0.106 4
03:16:26 AM	812	55247 3	2016.19	272.382	1.0132	276.193	58.3529	45.62 36	993.199	995.398	497.685	9.587 08	4.7226 5	93.61 47	345.86 2	1.57 348	24.8	69.9	425.2 12	97.797 2	75.89 99	80.199 9	25.1	34.2	438.1 65	12.75 02	220. 968	0.133 005
03:16:27 AM	812	55247 4	2016.21	272.339	1.0132	276.268	58.3479	45.61 14	993.199	995.171	495.807	9.535 44	4.7195 9	93.86 19	345.57	1.56 124	24.8	70.1444	425.3 65	97.799 5	75.9	80.2	25.1	34.2	434.6 86	12.74 59	221. 05	0.106 4
03:16:28 AM	812	55247 5	2015.95	272.261	1.0132	276.278	58.329	45.62 98	993.199	995.171	498.253	9.537 61	4.7211 2	93.50 7	344.72 4	1.54 348	24.8	70.1897	425.3 94	97.799 9	75.9	80.2	25.1	34.2	431.1 59	12.72 6	221. 206	0.106 4
03:16:29 AM	812	55247 6	2016	271.615	1.01321	276.217	58.2958	45.64 29	993.199	995.171	484.666	9.557 5	4.7272 3	94.66 17	345.44 1	1.53 837	24.8	70.1981	425.3 99	97.874 6	75.9	80.2	25.1	34.2	427.6 24	12.71 84	221. 337	0.076 847
03:16:30 AM	812	55247 7	2016.5	272.061	1.01321	276.106	58.2569	45.64 63	993.199	995.398	489.421	9.439 54	4.7234 1	93.83 08	347.89 7	1.53 291	24.8	70.1996	425.4	97.895 3	75.9	80.2	25.1	34.2	424.0 93	12.74 17	221. 411	0.106 4
03:16:31 AM	812	55247 8	2016.59	272.416	1.0132	275.975	58.2213	45.60 82	993.199	995.171	495.959	9.488 53	4.7203 5	93.80 45	347.30 3	1.53 69	24.8	70.1999	425.4 82	97.899 1	75.9	80.2	25.1	34.2	420.5 68	12.73 85	221. 471	0.106 4
03:16:32 AM	812	55247 9	2016.18	272.439	1.0132	275.869	58.2084	45.61 93	993.199	995.398	496.548	9.528 44	4.7218 8	93.46 81	347.25 5	1.53 939	24.8	70.2651	425.5 78	97.899 8	75.9	80.2	25.1	34.2	417.0 34	12.76 96	221. 505	0.017 734
03:16:33 AM	812	55248 0	2016.1	272.696	1.01319	275.824	58.2203	45.60 36	993.2	995.171	495.83	9.677 1	4.7203 5	94.20 41	348.71 2	1.54 64	24.8	70.2935	425.5 96	97.9	75.75 65	80.2	25.1	34.2	413.5 1	12.77 83	221. 612	0.106 4
03:16:34 AM	812	55248 1	2015.92	272.408	1.01321	275.831	58.2488	45.62 14	993.197	995.171	496.029	9.589 17	4.7157 7	94.81 63	346.88 8	1.55 637	24.8	70.2988	425.5 99	98.056 5	75.71 05	80.2	25.1	34.2	410.0 28	12.76 45	221. 756	0.011 82
03:16:35 AM	812	55248 2	2016.03	271.95	1.0132	275.856	58.274	45.60 88	993.196	995.398	489.788	9.576 01	4.7134 8	94.98 66	346.50 1	1.56 401	24.8	70.2998	425.6	98.173 4	75.70 19	80.2	25.1	34.1 003	406.5 16	12.69 9	221. 85	0.115 271
03:16:36 AM	812	55248 3	2016.15	272.034	1.01321	275.884	58.2767	45.63 87	993.196	995.398	491.417	9.626 19	4.7203 5	94.53 38	347.93 5	1.56 58	24.8	70.3	425.6	98.195 1	75.70 04	80.2	25.1	34.1 047	402.9 23	12.72 63	221. 852	0.097 54
03:16:37 AM	812	55248 4	2015.91	271.868	1.01322	275.905	58.2557	45.63 81	993.194	995.398	494.15	9.622 56	4.7203 5	93.96 99	349.42 4	1.55 682	24.8	70.3819	425.9 97	98.199 1	75.70 01	80.2	25.1	34.1 948	399.4 48	12.73 14	221. 754	0.059 11
03:16:38 AM	812	55248 5	2015.65	271.623	1.01322	275.887	58.2205	45.64 18	993.194	995.398	495.416	9.497 66	4.7218 8	94.72	349.53 7	1.53 643	24.8	70.4781	426.0 81	98.199 8	75.7	80.2	25.1	34.1 99	395.9 94	12.7	221. 603	0.106 4
03:16:39 AM	812	55248 6	2015.77	271.395	1.01321	275.796	58.1819	45.63 26	993.194	995.171	487.384	9.265	4.7226 5	95.43 18	349.93 6	1.52 106	24.8	70.4959	426.0 96	98.2	75.7	80.134 9	25.1	34.1 898	392.3 16	12.72 46	221. 485	0.106 4
03:16:40 AM	812	55248 7	2016.14	271.068	1.01321	275.64	58.1395	45.62 19	993.197	995.398	487.792	9.543 89	4.7173	95.31 1	349.17 7	1.51 256	24.8	70.4993	426.0 99	98.2	75.7	80.106 5	25.1	34.1 166	388.6 69	12.79 83	221. 498	0.011 82

03:16:41 AM	812	55248 8	2016. 27	271. 311	1.0132	275.438	58.1001	45.62 24	993. 198	995.398	495.691	9.554 38	4.7188 3	96.18 15	348.66 7	1.50 016	24.8	70.4999	426.1	98.2	75.7	80.101 2	25.1 777	34.1 902	385.2 16	12.79	221. 658	0.124 138
03:16:42 AM	812	55248 9	2016. 11	271. 537	1.01321	275.258	58.0636	45.63 37	993. 199	995.171	495.152	9.538 89	4.7127 1	95.10 86	349.06 7	1.48 897	24.8	70.5	426.1 57	98.2	75.7	80.100 2	25.1 959	34.1 982	381.7 42	12.77 02	221. 974	0.106 4
03:16:43 AM	812	55249 0	2016. 15	271. 54	1.0132	275.135	58.0433	45.62 08	993. 199	995.171	491.598	9.584 69	4.7241 7	94.71 62	349.80 1	1.50 865	24.8	70.5746	426.1 92	98.2	75.7	80.1	25.1 992	34.1 997	378.3 52	12.69 73	222. 366	0.088 67
03:16:44 AM	812	55249 1	2016. 05	271. 694	1.0132	275.06	58.0476	45.62 41	993. 199	995.398	492.542	9.525 28	4.7234 1	95.43 59	350.21 3	1.53 563	24.8	70.5953	426.1 99	98.2	75.85 88	80.1	25.1 999	34.1 999	374.8 62	12.65 4	222. 619	0.106 4
03:16:45 AM	812	55249 2	2016. 13	271. 873	1.01322	275.023	58.0684	45.66 45	993. 197	995.398	494.62	9.525 31	4.7234 1	95.38 18	350.38 6	1.56 299	24.8	70.5991	426.2	97.994 1	75.89 24	80.1	25.2	34.2	371.3 75	12.64 6	222. 568	0.065 025
03:16:46 AM	812	55249 3	2016. 14	271. 939	1.01321	275.048	58.0966	45.63 09	993. 197	995.398	494.452	9.457 24	4.7127 1	95.49 32	348.72 8	1.56 882	24.8	70.5998	426.2	97.917 4	75.89 86	80.1	25.2	34.2	367.8 62	12.62 72	222. 2	0.088 67
03:16:47 AM	812	55249 4	2015. 8	271. 663	1.01321	275.131	58.1214	45.63 48	993. 197	995.398	491.122	9.437 06	4.7134 8	96.12 69	349.62 6	1.54 574	24.8	70.6	426.2 38	97.903 2	75.89 97	80.1	25.2	34.2	364.3 21	12.64 6	221. 58	0.106 4
03:16:48 AM	812	55249 5	2016	271. 152	1.01321	275.215	58.1308	45.63 9	993. 197	995.398	487.308	9.429 86	4.7111 9	96.28 54	349.82 4	1.51 188	24.8	70.7043	426.3 7	97.900 6	75.89 99	80.1	25.2	34.2	360.8 24	12.65 99	221. 02	0.115 271
03:16:49 AM	812	55249 6	2016. 01	271. 284	1.0132	275.238	58.1184	45.61 31	993. 196	995.398	486.853	9.461 95	4.7073 7	96.34 87	350.78 4	1.50 739	24.8	70.7823	426.3 94	97.900 1	75.83 87	80.1	25.2	34.2	357.3 53	12.65 15	220. 627	0.106 4
03:16:50 AM	812	55249 7	2016. 06	271. 384	1.01321	275.204	58.0892	45.63 43	993. 196	995.171	486.738	9.403 94	4.7134 8	96.65 32	351.42 9	1.52 6	24.8	70.7967	426.3 99	98.072	75.80 72	80.1	25.2	34.2	353.8 45	12.59 39	220. 464	0.106 4
03:17:32 AM	812	55253 9	2408. 04	156. 766	1.01351	158.997	40.0544	45.60 45	993. 194	995.398	443.031	3.822 7	5.1283 6	61.64 83	412.15 4	1.51 766	24.9	70	373.6	98.209 1	76.39 96	79.798 9	25.4	34.3 948	234.8 65	10.07 19	254. 947	0.106 4
03:17:33 AM	812	55254 0	2409. 84	156. 069	1.01352	158.936	40.0417	45.61 11	993. 192	995.398	436.217	3.976 92	5.1321 8	59.70 82	411.70 3	1.51 256	24.9	69.9656	372.6 3	98.201 7	76.39 99	79.799 8	25.4	34.3 99	232.1 22	10.08 38	255. 236	0.076 847
03:17:34 AM	812	55254 1	2407. 26	156. 081	1.01352	158.825	40.0333	45.60 8	993. 191	995.398	439.383	3.616 37	5.1207 2	60.14 18	413.25 2	1.51 189	24.9	69.9122	372.3 61	98.200 3	76.37 29	79.8	25.4	34.3 998	229.3 79	10.08 6	255. 316	0.106 4
03:17:35 AM	812	55254 2	2409. 04	155. 487	1.01351	158.687	39.9925	45.59 71	993. 191	995.398	438.483	3.788 96	5.1199 6	61.19 32	412.3	1.51 849	24.9	69.9023	372.3 11	98.200 1	76.31 35	79.8	25.4	34.4	226.5 98	10.08 64	255. 278	0.106 4
03:17:36 AM	812	55254 3	2406. 6	155. 539	1.01351	158.546	39.9289	45.59 51	993. 191	995.398	441.188	3.373 27	5.1222 5	60.51 84	412	1.53 236	24.9	69.9004	372.3 02	97.874 1	76.30 25	79.8	25.4	34.4	223.5 77	10.16 42	255. 376	0.088 67
03:17:37 AM	812	55254 4	2407. 75	156. 423	1.01351	158.386	39.8667	45.59 47	993. 191	995.398	444.581	3.491 37	5.1207 2	61.36 22	411.94 8	1.54 256	24.9	69.9001	372.3	97.813 7	76.30 05	79.8	25.4	34.4	220.5 87	10.24 78	255. 759	0.106 4
03:17:38 AM	812	55254 5	2408. 07	156. 855	1.01351	158.267	39.8367	45.59 47	993. 191	995.398	444.041	3.963 58	5.1085 5	61.72 06	408.81 3	1.54 287	24.9	69.9	371.6 22	97.802 5	76.30 01	79.8	25.4	34.4	217.6 88	10.28 67	256. 582	0.106 4
03:17:39 AM	812	55254 6	2408. 85	156. 934	1.01351	158.236	39.8695	45.59 47	993. 191	995.398	440.131	4.297 62	5.1153 7	60.91 16	411.69 3	1.54 278	24.9	69.9	371.1 15	97.800 5	76.3	79.8	25.4	34.4	214.7 12	10.33 7	257. 708	0.076 847
03:17:40 AM	812	55254 7	2409. 09	156. 712	1.01351	158.288	39.9461	45.59 47	993. 191	995.398	436.583	4.389 01	5.1169 6	60.74 72	413.17 2	1.54 189	24.9	69.9	371.0 21	97.800 1	76.22 29	79.745 8	25.4	34.4	211.7 73	10.37 77	259. 013	0.106 4
03:17:41 AM	812	55254 8	2408. 48	156. 447	1.01351	158.37	40.0159	45.58 24	993. 191	995.398	445.244	3.988 63	5.1222 5	59.14 56	415.43 1	1.54 456	24.9	69.9	371.0 04	98.190 8	76.20 42	79.627	25.5 269	34.4	209.0 68	10.36 52	260. 131	0
03:17:42 AM	812	55254 9	2406. 46	156. 76	1.01351	158.478	40.0507	45.58 99	993. 191	995.398	440.483	3.579 4	5.1245 4	61.19 37	415.57 4	1.54 639	24.9	69.9	371.0 01	98.361 2	76.20 08	79.605	25.5 865	34.4	206.4 42	10.32 05	261. 031	0.106 4
03:17:43 AM	812	55255 0	2407. 1	156. 382	1.01351	158.621	40.0459	45.59 38	993. 191	995.398	433.915	3.661 17	5.1146 1	61.55 41	414.84 1	1.54 862	24.9	69.9	370.8 9	98.392 8	76.20 01	79.600 9	25.5 975	34.4	203.7 54	10.22 97	261. 553	0.056 158
03:17:44 AM	812	55255 1	2408. 76	156. 611	1.01351	158.737	40.0258	45.59 45	993. 191	995.171	440.39	3.647 25	5.1199 6	61.39 46	415.44 3	1.55 025	24.9	69.9	370.0 83	98.398 7	76.2	79.600 2	25.6 713	34.4	200.8 47	10.24 73	261. 573	0.183 251
03:17:45 AM	812	55255 2	2407. 48	156. 658	1.01351	158.756	40.0092	45.59 46	993. 191	995.398	443.983	3.755 17	5.1100 2	61.49 32	412.97 2	1.55 044	24.9	69.9	369.9 34	98.399 7	76.31 39	79.6	25.6 947	34.4	198.0 12	10.33 16	261. 303	0.106 4
03:17:46 AM	812	55255 3	2407. 89	156. 355	1.01351	158.716	40.0038	45.59 46	993. 191	995.398	434.293	3.758 52	5.0855 7	60.93 12	412.09 5	1.55 444	24.9	69.9	369.9 06	98.345 8	76.38 4	79.6	25.7 261	34.4	195.2 69	10.30 92	260. 917	0.106 404

03:17:47 AM	812	55255 4	2407. 07	156. 248	1.01351	158.677	40.0003	45.58 43	993. 191	995.398	445.923	3.631 42	5.1085	59.67 16	412.74 1	1.55 686	24.9	69.9	369.9 01	98.227	76.39 7	79.6	25.7 863	34.4	192.5 5	10.19 28	260. 594	0.106 4
03:17:48 AM	812	55255 5	2408. 2	156. 683	1.01351	158.64	39.994	45.58 46	993. 191	995.398	438.277	3.763 16	5.1146 1	61.29 7	415.39 6	1.55 842	24.9	69.9	369.9	98.205	76.39 95	79.6	25.7 975	34.4	189.7 9	10.09 77	260. 38	0.106 4
03:17:49 AM	812	55255 6	2409. 02	156. 736	1.01351	158.612	39.9995	45.59 28	993. 191	995.171	440.368	3.974 79	5.1115 5	61.54	416.58 7	1.55 83	24.9	69.9	369.3 79	98.200 9	76.39 99	79.6	25.7 995	34.4	186.9 39	10.08 65	259. 959	0.106 4
03:17:50 AM	812	55255 7	2407. 57	156. 993	1.01351	158.618	40.0124	45.58 71	993. 191	995.398	438.081	3.695 77	5.1031 5	61.48 59	417.42 9	1.55 666	24.9	69.9	369.1 52	98.200 2	76.41	79.6	25.7 999	34.4	184.0 56	10.05 03	259. 109	0.106 4
03:17:51 AM	812	55255 8	2407. 63	156. 812	1.0135	158.674	40.0317	45.57 24	993. 191	995.398	444.608	3.828 58	5.1100 2	62.17 41	415.5	1.55 664	24.9	69.9	369.1 1	98.2	76.48 33	79.693 7	25.8	34.4	181.2 69	10.05 75	257. 849	0.047 291
03:17:52 AM	812	55255 9	2406. 98	156. 786	1.01349	158.734	40.0527	45.54 57	993. 191	995.398	440.731	3.768 2	5.0993 3	61.86 92	414.78	1.55 539	24.9	69.9	369.1 02	98.349 2	76.49 69	79.780 3	25.7 729	34.4	178.4 56	10.06 35	256. 574	0.067 98
03:17:53 AM	812	55256 0	2407. 27	156. 604	1.01351	158.772	40.0632	45.58 56	993. 191	995.398	436.574	3.844 5	5.1000 9	62.34 65	412.92 2	1.55 874	24.9	69.9	369.1	98.390 6	76.49 94	79.796 3	25.7 135	34.4	175.5 69	10.11 16	255. 502	0.106 4
03:17:54 AM	812	55256 1	2407. 45	156. 745	1.01351	158.806	40.057	45.57 83	993. 191	995.398	439.539	3.895 7	5.0901 6	61.58 81	415.25 7	1.55 87	24.9	69.9	368.7 91	98.398 3	76.49 99	79.799 3	25.7 025	34.4	172.7 59	10.14 46	254. 955	0
03:17:55 AM	812	55256 2	2409. 45	156. 924	1.0135	158.849	40.0513	45.56 17	993. 191	995.398	439.675	4.236 94	5.1130 8	61.75 41	414.33 8	1.56 078	24.9	69.9	368.3 09	98.399 7	76.5	79.799 9	25.7 005	34.4	170.0 36	10.10 34	254. 962	0.106 4
03:17:56 AM	812	55256 3	2408. 82	156. 412	1.01351	158.89	40.0524	45.58 86	993. 191	995.398	435.151	3.962 72	5.1039 1	63.38 34	416.35 2	1.56 481	24.9	69.9	368.2 2	98.399 9	76.5	79.8	25.6 388	34.4	167.3 73	10.08 12	255. 219	0.106 4
03:17:57 AM	812	55256 4	2408. 57	155. 995	1.01351	158.865	40.0482	45.58 82	993. 191	995.398	439.649	3.860 23	5.1000 9	62.90 03	417.23 7	1.56 307	24.9	69.9	368.2 04	98.608 7	76.5	79.8	25.6 072	34.4	164.7 95	10.03 66	255. 547	0.106 4
03:17:58 AM	812	55256 5	2407. 14	156. 431	1.0135	158.779	40.0234	45.56 55	993. 191	995.398	439.535	3.786 19	5.1184 3	62.37 9	415.57 7	1.55 989	24.9	69.9	368.2 01	98.764 5	76.5	79.8	25.6 013	34.5 435	162.3 24	9.952 02	255. 641	0.106 4
03:17:59 AM	812	55256 6	2406. 77	157. 591	1.01351	158.705	39.9964	45.56 6	993. 191	995.398	445.582	3.737 95	5.1062	62.88 45	416.47 6	1.55 491	24.9	69.9	368.2	98.793 4	76.5	79.8	25.6 002	34.5 895	159.7 62	9.861 64	255. 269	0.124 138
03:18:00 AM	812	55256 7	2408. 78	157. 17	1.0135	158.731	40.0008	45.56 19	993. 191	995.398	439.905	3.538 23	5.1138 4	63.60 93	418.74	1.55 091	24.9	69.9	367.6 6	98.798 8	76.5	79.8	25.5 229	34.5 981	156.9 33	9.807	254. 494	0.106 4
03:18:01 AM	812	55256 8	2410. 14	157. 236	1.01351	158.811	40.0502	45.56 98	993. 191	995.398	438.576	3.829 07	5.1000 9	63.19 79	417.08 8	1.55 335	24.9	69.9	367.5 3	98.799 8	76.47 29	79.8	25.5 694	34.5 996	154.1 2	9.793 92	253. 162	0.106 4

APPENDIX AI: BIODIESEL BLENDS TESTING – BASE DIESEL RESULTS

Speed	Torque	Corr Fact	Torque Corr	Power Corr	Humid	P Baro	P_Pre_Compressor	P_Post_Compressor	P Exh	P Oil Filter	P Cool In	P Cool Out	P_Fuel	T Air In	T Post Comp	T Exh	T Oil Sump	T Cool In	T Cool Out	T_Fuel	T_Cell	Fuel Mass	Fuel Flow	SFC	Smoke	
[rpm]	[Nm]	[ECE]	[Nm]	[kW]	[%]	[mBar]	[mBar]	[mBar]	[mBar]	[Bar]	[mBar]	[mBar]	[Bar]	[°C]	[°C]	[°C]	[°C]	[°C]	[°C]	[°C]	[°C]	[g]	[kg/h]	[g/kWh]	[FSN]	
15°BTDC - RESULTS																										
2600	274.8	1.009	277.4	75.8	43.7	996.1	994.8	969.0	10.5	5.1	-0.5	417.2	1.3	24.9	108.4	484.8	102.9	76.1	80.6	25.6	31.9	374.0	17.0	227	2.00	
2400	289.5	1.009	291.9	73.5	43.6	996.1	994.8	880.2	9.4	5.0	17.9	379.4	1.3	24.9	103.0	484.4	105.1	75.5	80.0	25.8	31.9	415.3	16.1	220	1.90	
2200	326.7	1.009	329.5	76.0	43.8	996.1	994.9	848.0	13.2	4.7	31.8	340.1	1.3	24.8	99.6	504.6	105.0	75.2	80.1	25.4	32.1	399.1	16.1	214	1.80	
2000	339.0	1.009	341.9	72.1	43.9	996.1	994.9	710.2	14.7	4.5	33.1	295.9	1.3	24.8	91.5	514.2	104.4	74.7	79.9	25.0	32.2	416.9	15.0	210	1.70	
1800	344.6	1.009	347.5	65.8	44.0	995.9	994.9	610.1	8.2	4.3	35.5	257.3	1.3	24.8	84.5	510.4	103.4	74.7	79.9	24.6	32.3	366.5	13.6	208	1.30	
1600	348.1	1.009	351.6	58.9	44.0	995.9	994.9	522.3	1.1	4.0	40.4	224.5	1.3	24.9	78.3	496.0	101.5	74.5	79.9	24.3	32.3	420.5	12.0	206	1.60	
1400	334.1	1.010	337.7	49.6	44.0	995.9	994.9	408.4	0.0	3.6	46.2	197.3	1.3	25.1	70.5	469.8	99.5	74.3	79.8	24.3	32.4	414.0	10.1	205	1.50	
1200	315.0	1.010	318.0	40.2	44.1	995.9	994.7	320.2	-0.5	3.1	45.6	168.1	1.4	24.9	63.5	447.4	97.9	74.2	79.9	24.4	32.1	447.6	8.3	207	1.60	
1000	279.7	1.010	282.9	30.0	44.0	995.8	994.7	196.1	0.3	2.6	44.8	141.4	1.4	24.9	55.5	413.6	94.8	74.3	79.8	24.7	32.0	538.5	6.2	208	1.90	
20°BTDC - RESULTS																										
2600	289.5	1.008	291.8	79.6	44.2	996.3	994.0	910.6	8.8	5.1	57.1	469.5	1.5	24.6	103.9	482.4	103.4	75.5	80.2	23.9	29.9	432.0	17.2	217	1.20	
2400	301.8	1.008	304.1	76.5	44.3	996.3	994.2	812.7	7.3	4.9	89.6	446.7	1.5	24.4	98.0	481.2	106.2	75.2	80.0	24.0	30.3	461.4	16.0	210	1.20	
2200	334.5	1.008	337.3	77.6	44.3	996.2	994.2	769.3	9.9	4.7	114.4	420.0	1.6	24.6	94.4	498.6	106.0	74.7	79.9	24.0	30.3	472.8	15.9	206	1.10	
2000	349.4	1.008	352.1	74.1	44.4	996.2	994.2	655.2	13.0	4.5	126.1	387.0	1.6	24.5	87.1	512.4	105.3	74.7	80.1	24.0	30.3	430.2	15.0	203	1.20	
1800	350.7	1.009	353.8	66.8	44.4	996.3	994.2	565.5	7.5	4.2	128.7	347.8	1.6	24.7	81.2	510.2	104.8	74.2	79.8	23.9	30.3	453.9	13.4	202	0.90	
1600	349.2	1.009	352.3	58.9	44.5	996.2	994.2	483.8	1.1	3.9	135.6	317.7	1.6	24.7	74.6	497.8	102.8	74.1	79.8	24.0	30.5	504.5	11.8	202	1.20	
1400	333.4	1.009	336.3	49.3	44.5	996.1	994.2	388.5	-1.6	3.5	137.3	287.3	1.6	24.6	68.4	482.7	101.4	74.0	79.9	24.1	30.5	503.1	10.0	205	1.30	
1200	314.0	1.009	316.8	39.9	44.4	996.1	994.2	297.0	-1.1	3.0	137.3	258.7	1.6	24.7	61.9	461.5	99.5	73.7	79.8	24.2	30.4	498.3	8.1	205	1.30	
1000	281.9	1.009	284.4	30.1	44.4	996.1	994.2	184.3	-0.8	2.5	128.7	226.1	1.4	24.7	55.6	434.4	97.3	74.0	80.0	24.5	30.4	535.6	6.3	210	1.60	

APPENDIX AJ: BIODIESEL BLENDS TESTING – BDJ10 BLEND

Speed	Torque	Corr Fact	Torque Corr	Power Corr	Humid	P Baro	P_Pre_Compressor	P_Post_Compressor	P_Exh	P_Oil_Filter	P_Cool_In	P_Cool_Out	P_Fuel	T_Air_In	T_Post_Comp	T_Exh	T_Oil_Sump	T_Cool_In	T_Cool_Out	T_Fuel	T_Cell	Fuel Mass	Fuel Flow	SFC	Smoke	
[rpm]	[Nm]	[ECE]	[Nm]	[kW]	[%]	[mBar]	[mBar]	[mBar]	[mBar]	[Bar]	[mBar]	[mBar]	[Bar]	[°C]	[°C]	[°C]	[°C]	[°C]	[°C]	[°C]	[°C]	[g]	[kg/h]	[g/kWh]	[FSN]	
15°BTDC - RESULTS																										
2600	277.2	1.010	280.1	76.5	43.5	995.5	995.1	998.0	10.1	5.1	8.6	426.9	1.3	25.1	111.3	487.0	104.2	78.2	83.0	25.0	32.7	385.0	17.3	228	1.90	
2400	288.0	1.010	291.0	73.3	43.5	995.5	995.2	879.2	8.5	4.9	13.6	375.4	1.3	25.1	103.7	479.5	106.5	75.6	80.3	25.5	33.1	473.6	16.0	221	1.40	
2200	324.1	1.010	327.3	75.5	43.7	995.5	995.1	838.4	10.4	4.7	26.8	335.5	1.3	24.9	99.7	493.6	106.0	74.9	79.9	25.3	32.9	389.9	16.0	214	1.90	
2000	337.8	1.010	341.1	71.9	43.8	995.5	995.2	719.5	10.3	4.5	38.8	302.7	1.3	24.8	92.8	495.5	105.2	74.8	80.0	25.1	33.0	377.7	15.0	211	1.50	
1800	340.7	1.010	344.1	65.1	43.9	995.5	995.2	602.9	5.7	4.3	41.9	264.9	1.4	24.9	84.1	486.9	103.8	74.6	79.9	24.7	33.1	479.6	13.6	210	1.50	
1600	339.7	1.010	343.3	57.5	43.9	995.4	995.1	496.0	0.7	4.0	49.8	234.9	1.4	25.0	77.4	474.8	102.3	74.4	79.9	24.4	32.8	450.5	11.9	209	1.60	
1400	328.6	1.011	332.0	48.8	44.0	995.4	995.0	396.7	0.0	3.5	54.7	206.5	1.4	25.0	70.5	457.3	100.6	74.4	80.0	24.1	32.8	459.6	10.0	208	1.50	
1200	310.2	1.010	313.4	39.7	44.0	995.4	995.0	312.8	-0.5	3.1	53.8	176.7	1.4	24.9	64.3	440.7	99.0	73.9	79.7	24.2	32.8	236.5	8.2	210	1.60	
1000	276.6	1.011	279.5	29.7	43.9	995.4	994.8	196.6	0.2	2.6	51.2	148.4	1.4	25.0	56.4	411.7	96.1	74.1	79.8	24.6	32.4	299.6	6.2	213	2.00	
20°BTDC - RESULTS																										
2600	286.9	1.009	289.4	79.0	43.8	996.3	994.7	901.2	8.8	5.0	68.2	475.2	1.4	24.8	104.1	482.9	104.7	77.0	82.1	26.3	31.4	325.6	17.1	218	1.00	
2400	299.3	1.009	301.9	76.0	43.8	996.3	994.7	807.6	7.7	4.9	79.5	436.7	1.4	24.8	98.3	481.4	107.1	75.4	80.3	26.4	31.4	501.1	16.2	215	0.90	
2200	331.2	1.009	334.2	77.0	43.8	996.3	994.7	758.7	10.0	4.7	97.1	401.4	1.4	25.0	94.3	498.0	106.9	74.7	80.0	26.0	31.6	333.2	15.9	209	1.00	
2000	344.0	1.009	347.1	73.1	44.0	996.3	994.7	644.1	13.5	4.5	107.1	364.1	1.5	24.8	86.5	509.5	105.7	74.6	80.1	25.3	31.3	434.3	15.0	207	1.30	
1800	344.7	1.009	347.8	65.7	44.1	996.3	994.7	543.3	8.1	4.2	105.7	321.3	1.5	24.9	80.0	506.2	104.9	74.5	80.0	24.9	31.7	362.9	13.4	206	1.10	
1600	345.2	1.009	348.5	58.4	44.1	996.3	994.7	475.1	1.4	3.9	106.0	285.0	1.5	24.9	74.9	496.6	103.6	74.1	79.9	24.5	31.5	471.5	11.9	206	0.80	
1400	328.9	1.009	332.0	48.7	44.1	996.2	994.6	380.4	-1.3	3.5	109.5	256.7	1.5	24.9	68.2	479.3	101.8	73.9	79.9	24.2	31.4	457.9	10.0	208	1.00	
1200	310.3	1.009	313.2	39.6	44.0	996.2	994.5	294.6	-0.5	3.0	106.8	226.6	1.5	24.9	62.0	459.1	99.8	73.9	79.8	24.1	31.6	525.7	8.2	209	1.50	
1000	278.1	1.010	280.6	29.7	44.0	996.2	994.5	184.4	-0.4	2.5	100.3	195.3	1.4	25.1	56.2	434.2	97.8	73.7	79.8	24.3	31.6	559.0	6.3	214	1.70	

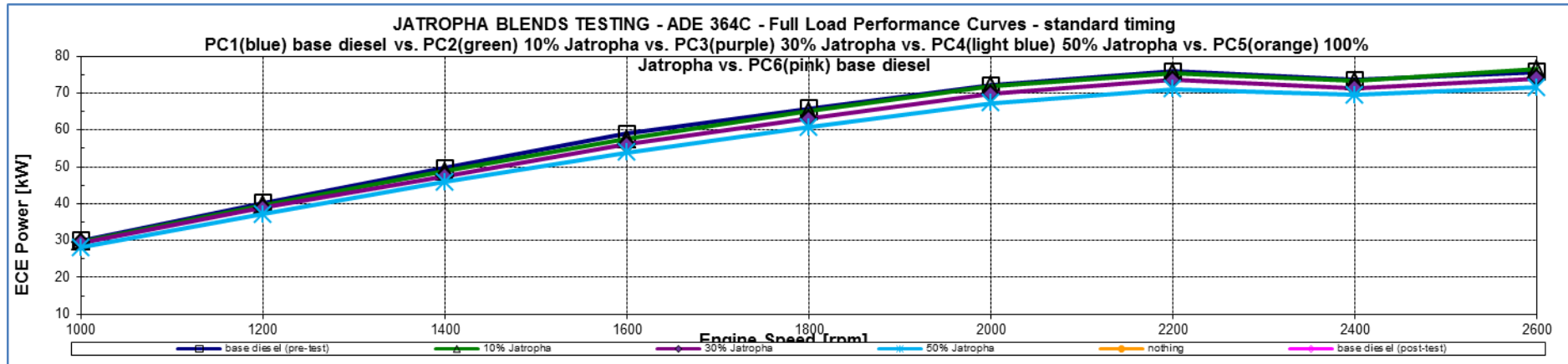
APPENDIX AK: BIODIESEL BLENDS TESTING – BDJ30 BLEND

Speed	Torque	Corr Fact	Torque Corr	Power Corr	Humid	P Baro	P_Pre_Compressor	P_Post_Compressor	P Exh	P Oil Filter	P Cool In	P Cool Out	P_Fuel	T Air In	T Post Comp	T Exh	T Oil Sump	T Cool In	T Cool Out	T_Fuel	T_Cell	Fuel Mass	Fuel Flow	SFC	Smoke	
[rpm]	[Nm]	[ECE]	[Nm]	[kW]	[%]	[mBar]	[mBar]	[mBar]	[mBar]	[Bar]	[mBar]	[mBar]	[Bar]	[°C]	[°C]	[°C]	[°C]	[°C]	[°C]	[°C]	[°C]	[g]	[kg/h]	[g/kWh]	[FSN]	
15°BTDC - RESULTS																										
2600	268.8	1.010	271.7	74.1	45.9	995.9	994.2	928.5	8.9	5.1	24.5	436.9	1.4	24.7	106.5	490.2	103.9	77.4	82.1	25.3	30.7	355.1	17.1	234	1.8	
2400	281.1	1.010	284.0	71.4	45.9	995.8	994.2	832.4	7.6	5.0	32.1	390.2	1.4	24.8	99.7	486.5	105.2	75.7	80.3	25.3	30.5	284.1	16.0	226	1.7	
2200	316.4	1.010	319.6	73.5	45.9	995.8	994.2	797.0	10.8	4.7	50.2	355.0	1.4	24.8	96.2	505.5	105.0	75.0	80.0	24.8	30.6	411.3	16.0	220	1.6	
2000	328.6	1.010	332.1	69.8	46.0	995.8	994.2	668.6	13.5	4.5	66.7	326.7	1.4	24.8	88.0	516.0	103.9	74.8	79.9	24.6	30.9	318.1	15.0	217	1.3	
1800	330.2	1.010	333.7	63.0	46.0	995.8	994.2	569.2	7.7	4.3	75.1	294.1	1.4	24.9	81.3	511.6	103.1	74.6	79.9	24.3	30.9	315.5	13.4	215	1.5	
1600	331.5	1.010	335.0	56.0	46.1	995.8	994.0	486.8	1.0	4.0	80.9	262.7	1.4	24.9	75.2	497.0	101.1	74.7	80.0	24.2	30.6	423.6	11.9	214	1.5	
1400	321.0	1.011	324.4	47.5	46.1	995.7	994.0	389.1	-1.5	3.6	86.1	234.7	1.4	24.9	68.9	480.3	99.7	74.3	80.0	24.2	30.6	470.4	10.0	213	1.4	
1200	304.6	1.010	307.6	38.8	46.1	995.7	994.0	308.2	-1.0	3.1	87.3	207.3	1.5	24.9	63.2	463.7	98.3	74.2	79.8	24.3	30.4	287.4	8.3	215	1.7	
1000	275.2	1.011	277.9	29.4	46.1	995.6	993.8	196.0	-0.7	2.6	80.1	174.8	1.5	24.9	55.4	432.4	95.4	74.1	79.6	24.4	30.4	310.4	6.4	219	1.5	
20°BTDC - RESULTS																										
2600	277.9	1.009	280.5	76.6	43.6	996.1	994.9	875.2	8.6	5.0	60.5	472.4	1.5	24.9	102.1	475.6	105.3	77.3	82.1	26.2	32.4	290.6	17.0	224	0.9	
2400	291.5	1.010	294.3	74.1	43.5	996.1	995.0	787.4	7.5	4.9	73.6	428.5	1.4	25.2	97.5	476.0	107.6	75.3	80.2	26.1	32.5	493.6	16.3	223	0.9	
2200	321.8	1.009	324.6	74.8	43.6	996.1	995.0	735.1	9.6	4.7	92.8	396.1	1.5	24.9	93.1	490.3	107.0	75.0	80.1	25.8	32.5	459.8	15.9	214	1.0	
2000	335.3	1.010	338.6	71.3	43.7	996.1	995.0	622.9	13.3	4.5	101.5	361.6	1.5	25.1	86.2	501.4	105.8	74.6	79.8	25.5	32.5	421.9	15.0	212	1.1	
1800	335.0	1.010	338.3	64.0	43.8	996.1	994.9	518.7	8.2	4.2	105.4	324.2	1.6	25.0	78.8	497.8	105.2	74.6	79.9	25.2	32.5	473.1	13.4	212	0.9	
1600	333.3	1.009	336.3	56.4	43.9	996.1	994.9	456.1	1.7	3.9	108.2	291.1	1.5	24.9	73.3	485.7	103.5	74.4	80.0	24.6	32.3	407.5	11.8	211	0.7	
1400	319.3	1.009	322.4	47.3	43.9	996.1	994.8	368.6	-1.6	3.5	109.8	259.0	1.5	24.9	67.9	472.7	102.1	74.1	79.9	24.5	32.2	504.1	10.1	215	1.0	
1200	301.1	1.009	303.9	38.4	43.9	996.0	994.8	286.6	-0.5	3.0	110.6	232.1	1.6	24.9	62.3	455.0	100.7	73.9	79.8	24.2	32.4	520.8	8.2	216	1.3	
1000	270.3	1.010	272.7	28.9	43.8	996.0	994.7	183.9	-0.5	2.5	106.7	202.5	1.5	25.2	55.9	427.7	98.2	74.0	79.8	24.0	32.1	346.9	6.3	221	1.7	

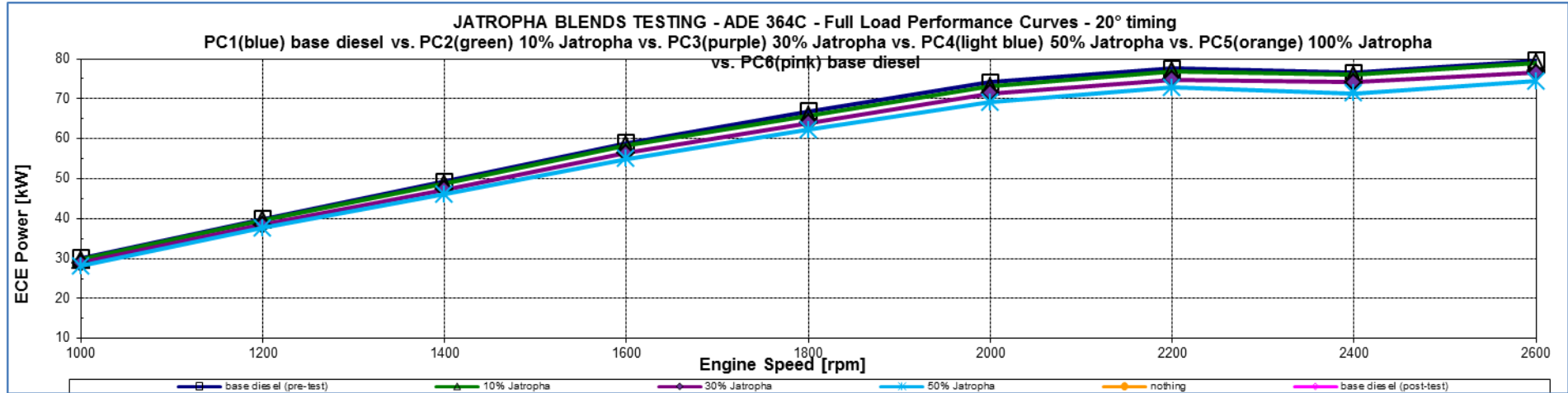
APPENDIX AL: BIODIESEL BLENDS TESTING – BDJ50 BLEND

Speed	Torque	Corr Fact	Torque Corr	Power Corr	Humid	P Baro	P_Pre_Compressor	P_Post_Compressor	P Exh	P Oil Filter	P Cool In	P Cool Out	P_Fuel	T Air In	T Post Comp	T Exh	T Oil Sump	T Cool In	T Cool Out	T_Fuel	T_Cell	Fuel Mass	Fuel Flow	SFC	Smoke
[rpm]	[Nm]	[ECE]	[Nm]	[kW]	[%]	[mBar]	[mBar]	[mBar]	[mBar]	[Bar]	[mBar]	[mBar]	[Bar]	[°C]	[°C]	[°C]	[°C]	[°C]	[°C]	[°C]	[°C]	[g]	[kg/h]	[g/kWh]	[FSN]
15°BTDC - RESULTS																									
2600	259.5	1.011	262.1	71.6	45.7	995.3	994.8	896.0	9.3	5.0	40.5	457.8	1.5	24.9	104.5	481.6	106.8	75.8	80.2	26.0	32.3	353.3	17.0	240	1.8
2400	272.8	1.012	276.0	69.4	45.6	995.3	994.8	806.0	8.1	4.9	51.9	412.3	1.5	25.1	98.5	479.8	107.3	75.5	80.0	25.9	32.4	413.2	16.1	235	1.7
2200	305.5	1.011	309.0	71.1	45.7	995.3	994.8	765.0	11.0	4.7	62.4	369.1	1.5	24.9	94.3	496.7	106.2	75.2	79.9	25.5	32.5	450.9	16.0	227	1.4
2000	315.8	1.011	319.2	67.2	45.9	995.3	994.7	636.2	13.7	4.5	70.9	332.8	1.5	24.8	86.7	504.0	105.0	75.1	80.0	25.1	32.4	412.4	14.8	222	1.2
1800	317.2	1.012	320.9	60.7	45.9	995.2	994.8	543.1	8.4	4.3	76.9	296.9	1.6	25.1	79.8	500.5	103.9	74.8	79.8	24.8	32.6	351.0	13.3	221	1.2
1600	318.2	1.011	321.4	53.9	46.0	995.2	994.8	461.1	1.8	4.0	81.0	263.9	1.6	24.9	73.6	485.3	101.9	74.7	79.9	24.5	32.6	378.2	11.7	220	1.2
1400	308.6	1.011	312.3	45.8	46.1	995.2	994.7	369.5	-1.4	3.6	82.5	232.0	1.6	24.9	66.8	466.7	99.9	74.5	79.9	24.1	32.5	453.2	10.0	221	1.2
1200	290.3	1.011	293.6	37.1	46.0	995.2	994.7	288.5	-0.4	3.1	80.2	201.1	1.6	25.0	61.1	448.1	97.8	74.7	79.9	23.9	32.4	476.8	8.1	222	1.4
1000	261.8	1.012	265.5	28.1	46.0	995.2	994.6	183.3	-0.4	2.6	78.7	174.4	1.6	25.1	55.1	422.0	95.5	74.4	79.8	24.0	32.4	306.8	6.3	226	1.7
20°BTDC - RESULTS																									
2600	269.6	1.010	272.6	74.4	43.4	995.9	995.1	840.2	8.3	5.0	81.2	489.2	1.5	25.3	100.0	467.4	105.9	76.7	81.4	26.2	32.9	341.1	17.0	231	0.9
2400	280.4	1.009	283.3	71.3	43.4	995.9	995.2	746.7	6.9	4.9	101.4	454.6	1.5	24.9	94.1	464.8	107.5	75.4	80.0	26.1	33.3	310.2	15.9	225	0.7
2200	313.2	1.009	316.2	72.9	43.5	995.9	995.1	706.4	9.2	4.7	124.0	426.9	1.5	24.9	90.6	480.8	106.7	75.2	80.1	25.6	32.9	391.0	15.8	219	1.0
2000	325.1	1.009	328.0	69.1	43.6	995.9	995.1	596.6	12.9	4.5	134.2	393.2	1.6	24.8	83.8	490.9	105.7	74.8	79.9	25.4	32.9	420.2	14.9	218	0.5
1800	325.5	1.010	328.7	62.2	43.7	995.9	995.1	494.7	8.4	4.2	135.1	354.1	1.6	25.0	76.8	488.8	104.9	74.7	79.9	24.9	32.9	304.2	13.3	216	0.7
1600	324.5	1.009	327.7	54.9	43.8	995.9	995.0	435.6	2.2	3.9	136.4	317.6	1.6	24.9	71.6	476.3	102.9	74.5	79.9	24.6	32.7	347.1	11.7	216	1.0
1400	310.9	1.010	313.8	46.1	43.8	995.9	995.0	354.8	-1.8	3.5	133.5	283.1	1.6	24.9	66.2	462.7	101.5	74.2	79.9	24.3	32.9	456.1	10.0	219	1.0
1200	294.6	1.010	297.6	37.6	43.7	995.9	994.9	278.0	-0.3	3.0	130.4	251.8	1.6	25.1	61.1	446.5	100.0	74.1	79.9	24.0	32.8	252.7	8.2	221	1.2
1000	262.9	1.010	265.3	28.2	43.7	995.9	994.8	176.6	-0.5	2.5	125.3	221.7	1.5	25.1	55.4	420.3	97.9	73.9	79.7	23.9	32.7	368.4	6.3	227	1.5

APPENDIX AM: BIODIESEL BLENDS TESTING – POWER OUTPUT

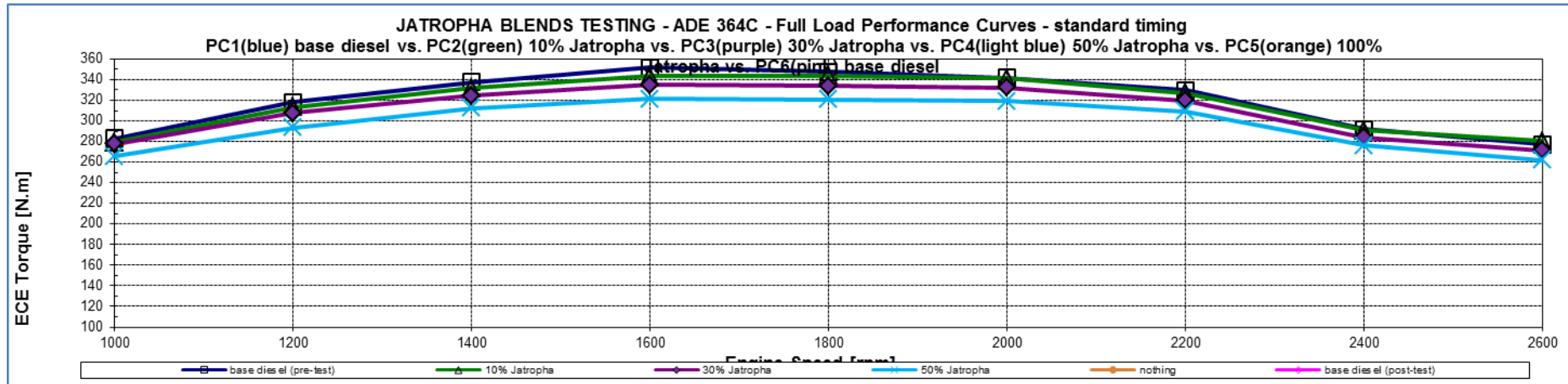


15°BTDC - RESULTS

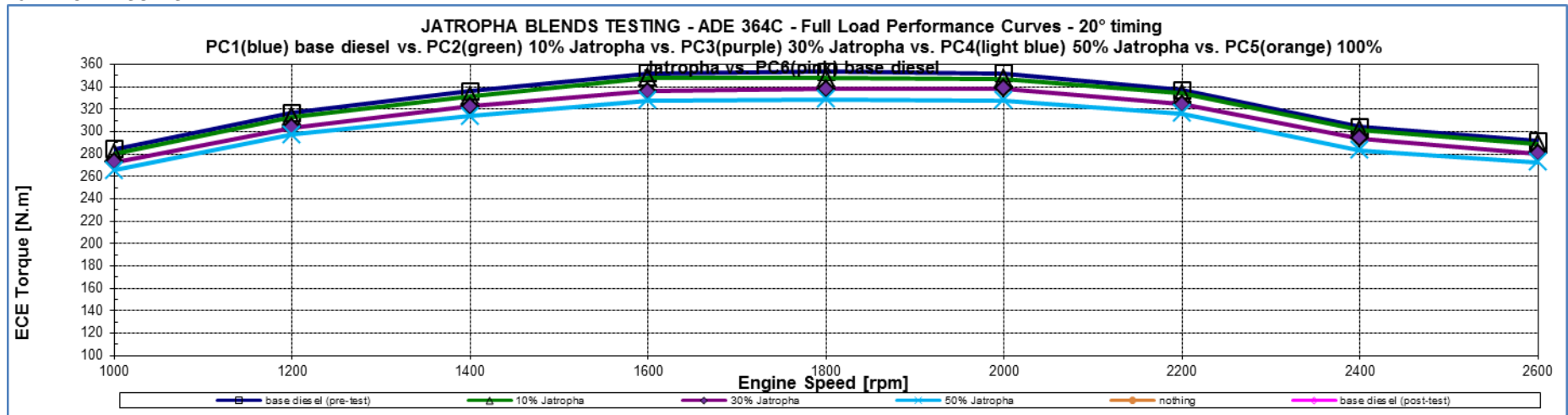


20°BTDC - RESULTS

APPENDIX AN: BIODIESEL BLENDS TESTING – TORQUE

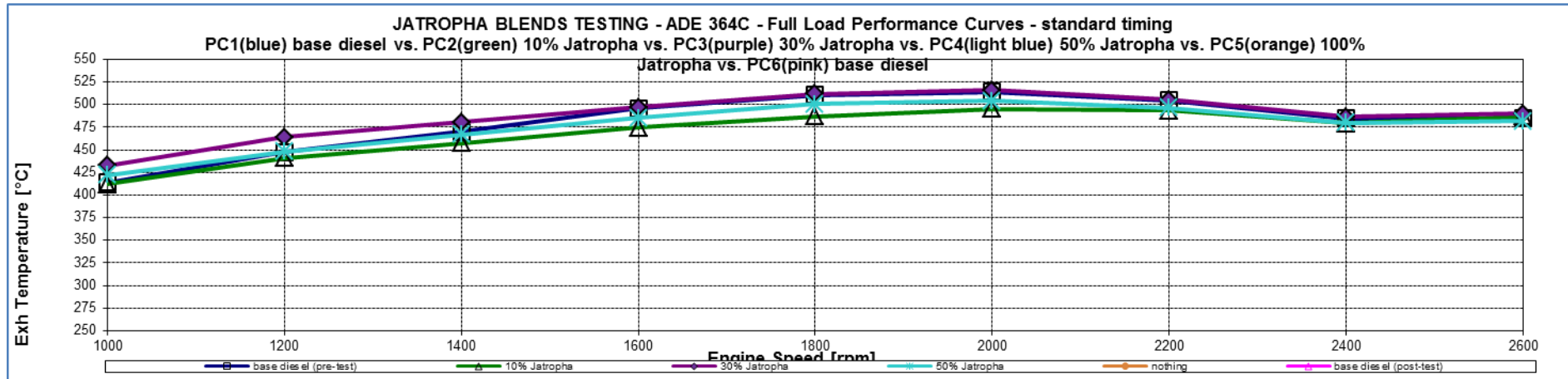


15°BTDC - RESULTS

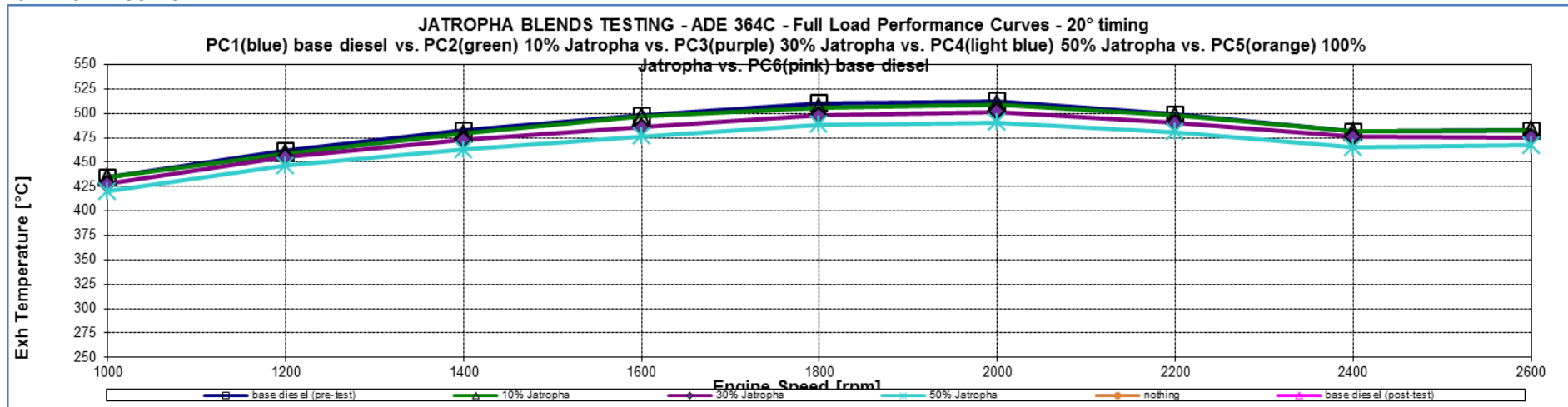


20°BTDC - RESULTS

APPENDIX AO: BIODIESEL BLENDS TESTING – EXHAUST TEMPERATURE

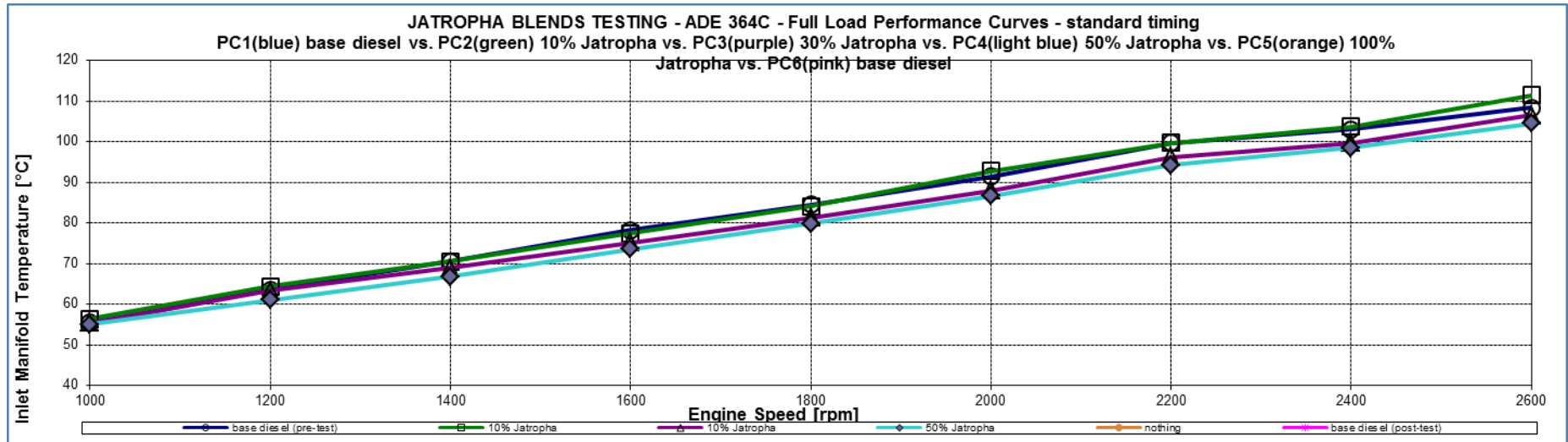


15°BTDC - RESULTS

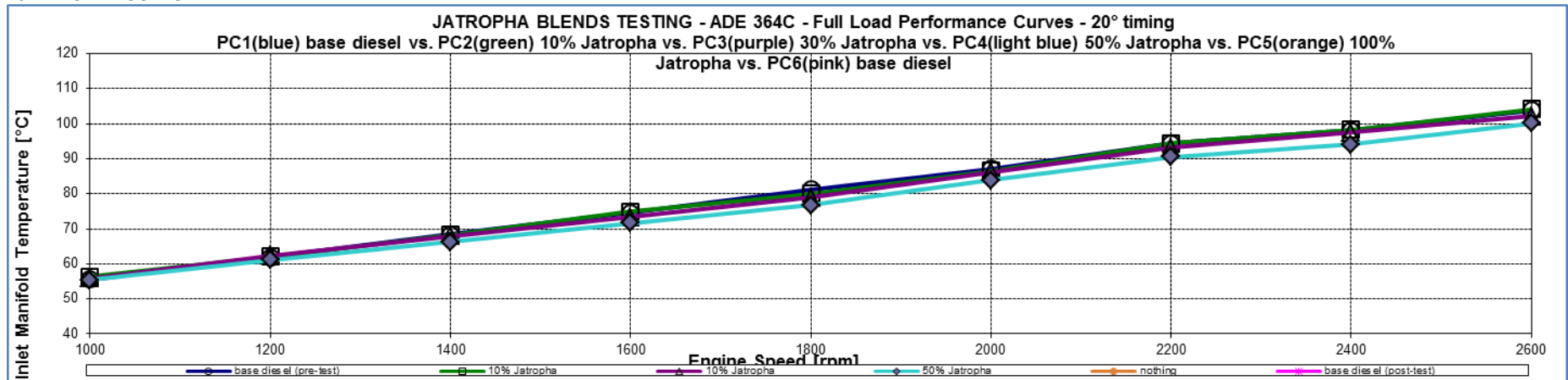


20°BTDC - RESULTS

APPENDIX AP: BIODIESEL BLENDS TESTING – INLET MANIFOLD TEMPERATURE

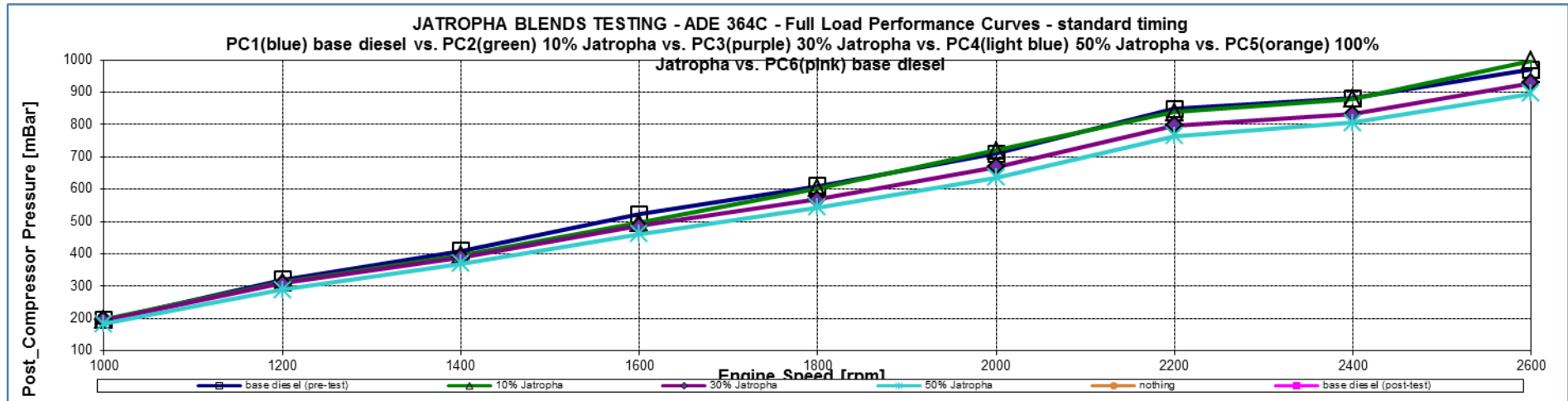


15°BTDC - RESULTS

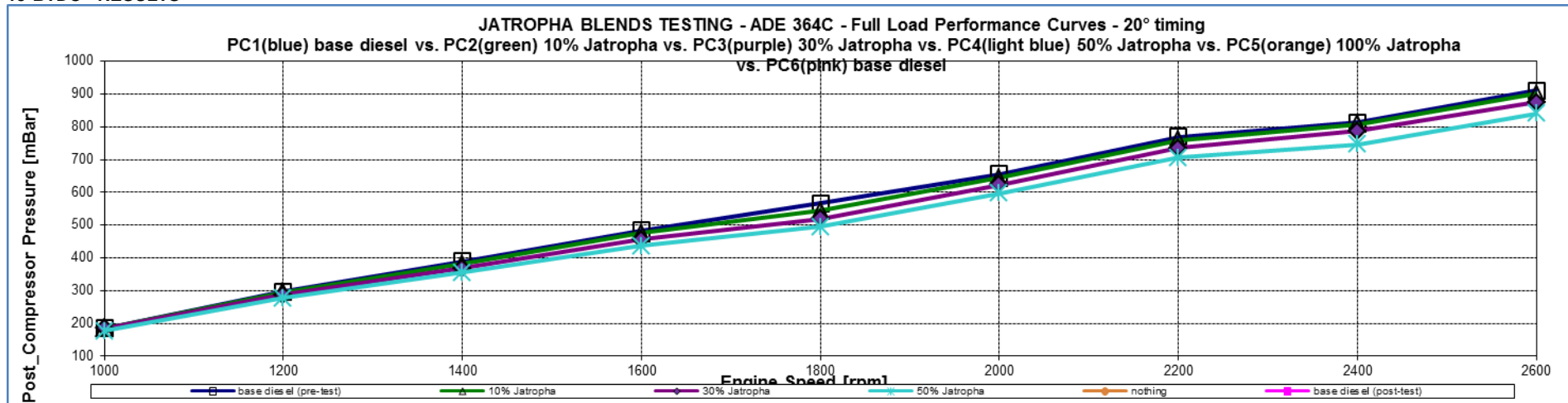


20°BTDC - RESULTS

APPENDIX AQ: BIODIESEL BLENDS TESTING – POST COMPRESSOR PRESSURE

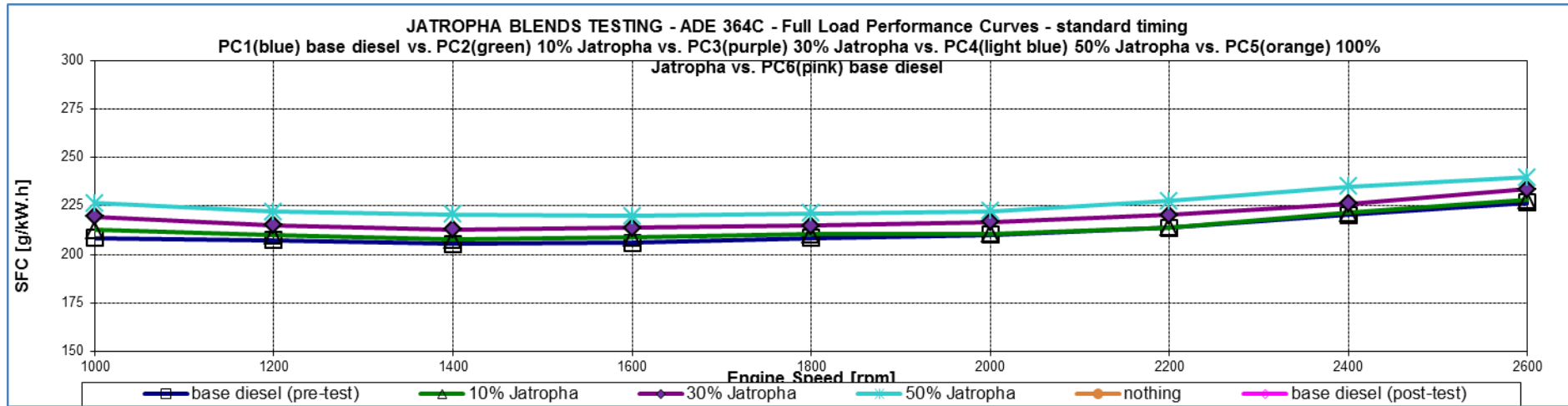


15°BTDC - RESULTS

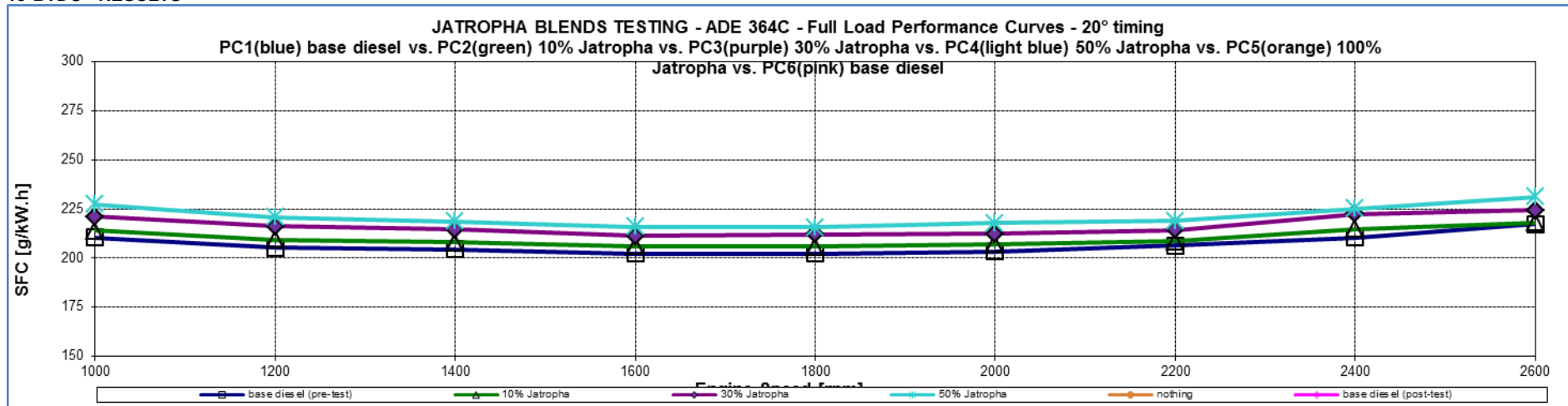


20°BTDC - RESULTS

APPENDIX AR: BIODIESEL BLENDS TESTING – SPECIFIC FUEL CONSUMPTION

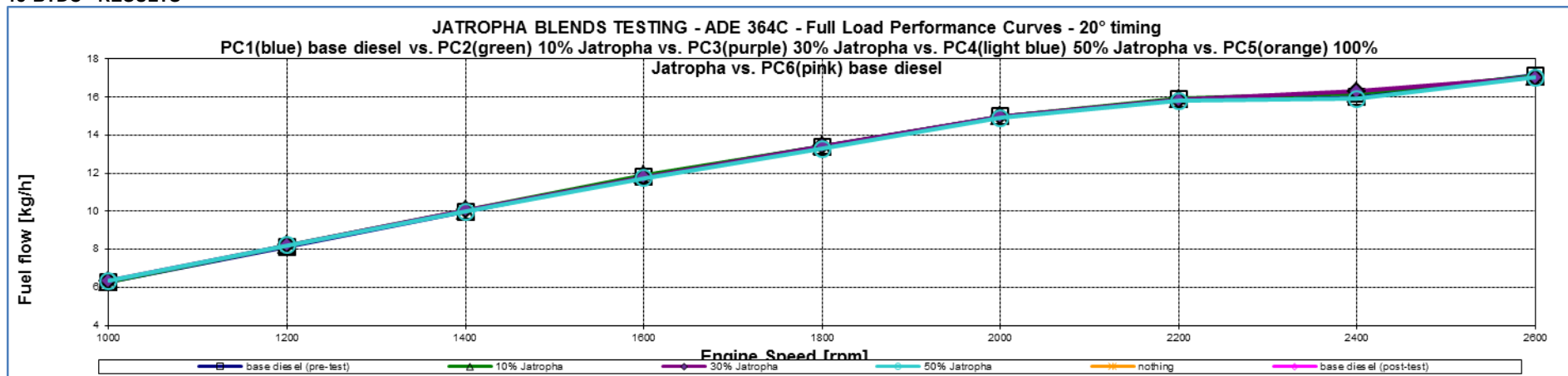
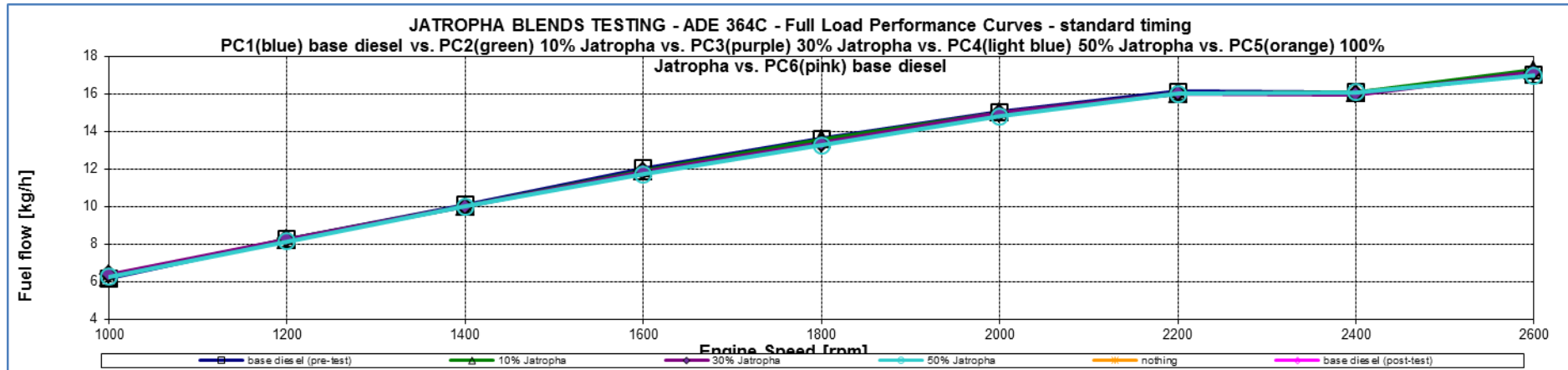


15°BTDC - RESULTS

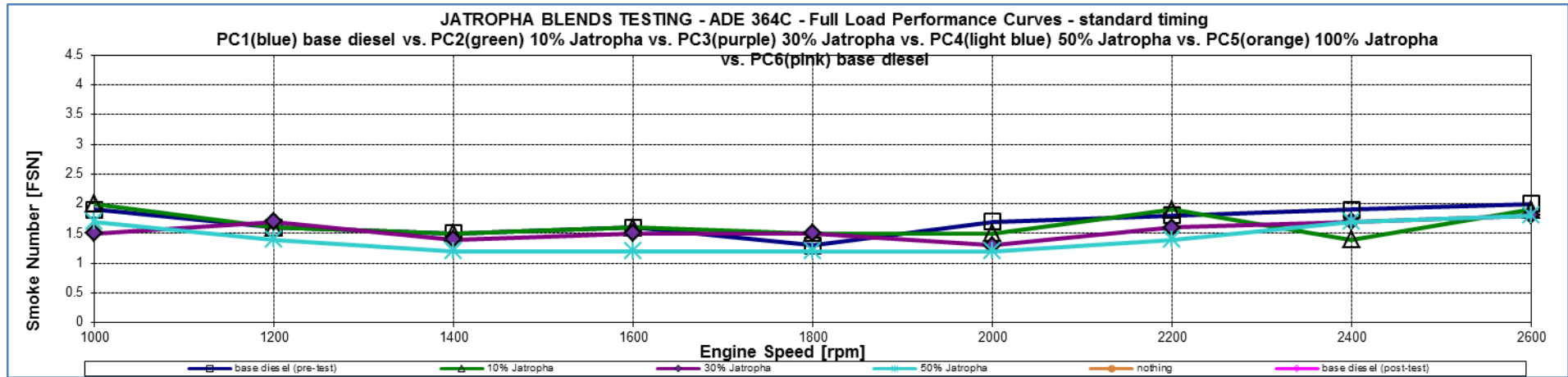


20°BTDC - RESULTS

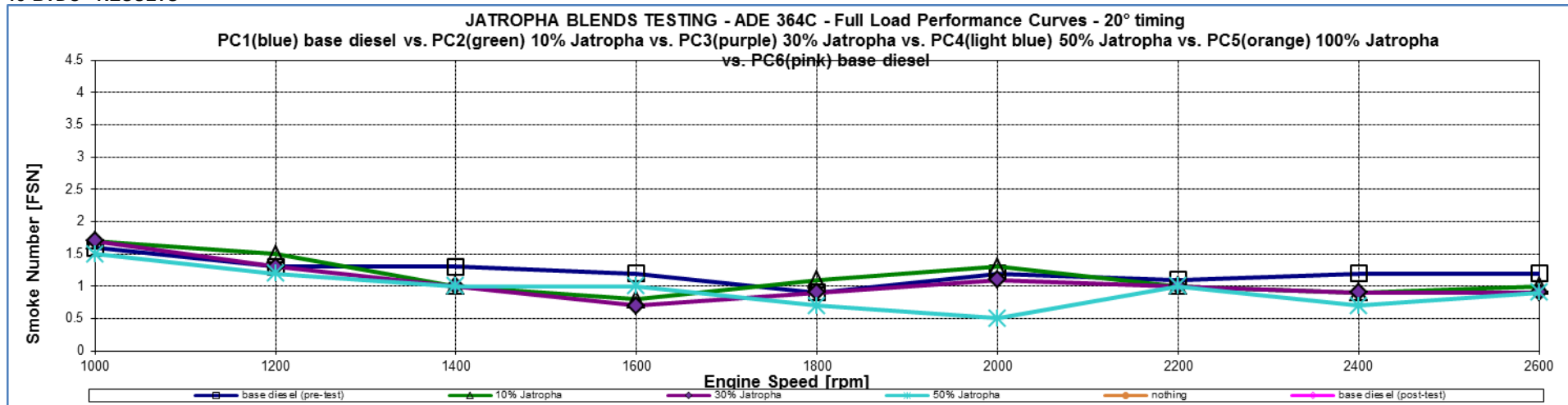
APPENDIX AS: BIODIESEL BLENDS TESTING – FUEL FLOW



APPENDIX AT: BIODIESEL BLENDS TESTING – SMOKE NUMBER



15°BTDC - RESULTS



20°BTDC - RESULTS

APPENDIX AU: RAW DATA – BDJ10 BLEND AT 15°BTDC

Manual Log Description : Power Curve on 10%
 Jatropha & 90% base diesel
 Manual Log Start Date :
 2012/02/29
 Manual Log Start Time :
 02:25:50 AM

TIME	mSec	Eng_Ti me	Spee d	Torq ue	~ECE_Corr_ Factor	~Torque _Corr	~Power _Corr	Humi dity	~P_ Baro	P_Pre_Co mpressor	P_Post_Co mpressor	P_Exh aust	P_Oil_ Filter	P_Co ol_In	P_Cool _Out	P_F uel	T_Air_In_ Snorkel	T_Post_Co mpressor	T_Exh aust	T_Oil_ Sump	T_Co ol_In	T_Cool _Out	T_F uel	T_C ell	Fuel_ Mass	Fuel_ Flow	~SFC	Smok e
02:25:52 AM	156	512349	260916	277.862	1.0098	280.27	76.5798	43.5495	995.547	994.945	1002.5	10.2157	5.07488	15.6619	434.448	1.3022	24.9	111.2	486.999	103.6	80.1525	84.4031	25.09	32.7	462.19	17.3765	229.128	0.1064
02:25:53 AM	156	512352	2608	277.212	1.00979	280.264	76.5626	43.5426	995.547	995.171	999.394	10.0279	5.09856	15.3108	434.687	1.27928	24.9	111.2	487	103.6	80.0283	84.5635	25.0167	32.7	450.884	17.3924	229.082	0.076847
02:25:54 AM	156	512353	2608.89	277.873	1.0098	280.246	76.5488	43.5643	995.547	994.945	1001.48	10.011	5.09627	14.9705	434.033	1.28624	24.9	111.241	487.159	103.6	80.0052	84.5932	25.0031	32.7	444.821	17.3593	229.052	0.076847
02:25:55 AM	156	512354	2608.52	277.919	1.0098	280.243	76.5558	43.567	995.547	995.171	1000.82	9.97013	5.06877	14.6625	434.608	1.28348	24.9	111.289	487.192	103.6	79.2229	84.5987	25.0006	32.7	439.804	17.3255	229.058	0
02:25:56 AM	156	512355	2608.61	277.195	1.00979	280.257	76.5687	43.5333	995.546	995.171	1000.36	9.9377	5.07029	14.118	432.507	1.29517	24.9	111.298	487.199	103.61	78.3081	83.6669	25.0001	32.7	434.896	17.2993	229.053	0.1064
02:25:57 AM	156	512356	2609.12	277.255	1.00981	280.269	76.5767	43.5691	995.546	995.171	1004.06	9.97265	5.07106	12.6985	431.541	1.28311	24.9	111.3	487.2	103.683	78.1386	83.368	25	32.7	430.182	17.2836	228.955	0.09754
02:25:58 AM	171	512357	2609.01	277.827	1.00994	280.259	76.5736	43.538	995.546	995.171	998.605	10.1099	5.08252	11.4664	430.566	1.2866	24.957	111.3	487.2	103.697	78.1071	83.3126	25	32.7	425.35	17.2804	228.763	0.065025
02:25:59 AM	156	512358	2608.37	277.612	1.01057	280.273	76.6105	43.5614	995.546	994.945	997.421	10.0822	5.07488	11.0247	428.185	1.27427	25.155	111.3	487.077	103.699	78.1013	83.3023	25	32.7	420.658	17.2587	228.497	0.162562
02:26:00 AM	156	512359	2608.59	276.825	1.01069	280.306	76.6114	43.5573	995.546	995.171	995.437	9.99781	5.09016	8.63836	427.201	1.28961	25.1917	111.3	487.014	103.7	78.1002	83.3004	25	32.7	415.843	17.213	228.221	0.1064
02:26:01 AM	171	512360	2608.27	277.015	1.0107	280.308	76.5962	43.5207	995.546	995.171	1002.27	10.0096	5.08405	8.6113	426.346	1.2924	25.1985	111.3	487.003	103.7	77.0409	82.7677	25	32.7	410.974	17.1985	227.994	0.1064
02:26:02 AM	156	512361	2608.11	277.011	1.0107	280.264	76.5638	43.5064	995.546	995.171	999.143	10.2033	5.08634	7.25838	423.663	1.29009	25.1997	111.3	487	103.974	76.8446	82.1423	25	32.681	406.202	17.1523	227.765	0.144828
02:26:03 AM	156	512362	2608.41	276.84	1.01071	280.213	76.5163	43.5449	995.547	994.945	999.663	10.1487	5.068	7.04043	422.602	1.27393	25.1999	111.3	487	104.077	76.8083	82.0264	25	32.615	401.481	17.1933	227.51	0.1064
02:26:04 AM	171	512363	2608.42	277.113	1.01007	280.178	76.4218	43.5582	995.547	994.945	999.139	10.2435	5.06877	7.21463	422.773	1.28842	24.9847	111.3	486.973	104.096	76.8015	82.0049	25	32.6028	396.745	17.195	227.308	0.02069
02:26:05 AM	171	512364	2608.59	276.866	1.00984	280.139	76.3852	43.5329	995.547	995.171	989.809	10.3237	5.07259	5.84323	422.614	1.29005	24.9157	111.357	486.914	104.099	76.8003	82.0009	25	32.6005	391.866	17.2188	227.19	0.1064
02:26:06 AM	156	512365	2608.99	276.91	1.0098	280.091	76.3828	43.5377	995.547	995.171	997.631	10.3116	5.07182	7.08516	424.672	1.29643	24.9029	111.392	486.902	104.1	77.4835	82.0002	25	32.6001	387.018	17.2003	227.179	0.1064
02:26:07 AM	156	512366	2608.68	277.644	1.00979	280.042	76.3928	43.5395	995.547	994.945	1004.91	10.1846	5.08863	6.73251	426.265	1.28505	24.9005	111.399	486.9	104.169	77.9043	82.3971	25	32.6	382.273	17.1619	227.248	0.1064
02:26:08 AM	156	512367	2608.53	277.492	1.00979	280.009	76.4166	43.5346	995.547	995.171	997.505	10.1838	5.06953	7.20848	424.794	1.27793	24.9001	111.4	486.9	104.276	77.9823	82.4809	25	32.6	377.513	17.2429	227.292	0.1064
02:26:09 AM	156	512368	2608.06	277.306	1.01014	279.995	76.4783	43.5246	995.549	995.171	989.523	10.2132	5.07488	8.1859	426.457	1.27875	25.0229	111.4	486.9	104.295	77.9967	82.4965	25	32.6942	372.733	17.2307	227.318	0.1064
02:26:10 AM	171	512369	2608.03	277.407	1.01061	280.008	76.5488	43.5558	995.549	995.171	1002.41	10.2368	5.06647	8.3104	424.035	1.28892	25.1672	111.4	486.9	104.299	77.9994	82.4993	25	32.6989	367.874	17.2927	227.303	0.02601

02:26:11 AM	156	51237 0	2607.93	276.613	1.01068	280.013	76.567 5	43.5 243	995.549	995.171	992.482	10.29 95	5.0863 4	7.922 81	426.38 6	1.30 812	25.1939	111.4	486.9	104.3	78.15 19	82.499 9	25	32.6 998	362.9 75	17.31 33	227.371	0.106 4
02:26:12 AM	171	51237 1	2608.68	277.058	1.01069	279.971	76.548 3	43.5 003	995.549	995.171	995.965	10.26 83	5.0702 9	6.489 86	425.84 3	1.29 989	25.1989	111.4	486.9	104.3	78.67 99	82.928 8	25	32.7	358.2 76	17.33 59	227.575	0.106 4
02:26:13 AM	156	51237 2	2608.03	277.014	1.0107	279.928	76.511 4	43.5 243	995.549	995.171	989.371	10.10 65	5.0809 9	8.035 7	427.19	1.28 441	25.1998	111.4	486.9	104.60 8	78.77 77	83.149 7	25	32.7 542	353.5 84	17.26 02	227.866	0.094 581
02:26:14 AM	156	51237 3	2608.33	277.421	1.01071	279.919	76.486 5	43.5 352	995.549	994.945	995.876	10.14 23	5.0748 8	8.150 31	425.73 1	1.27 538	25.2	111.4	486.9	104.68 3	78.79 59	83.190 7	25	32.8 73	348.8 54	17.27 02	228.201	0.106 4
02:26:15 AM	156	51237 4	2608.67	277.362	1.0107	279.942	76.489 9	43.5 4	995.549	995.171	997.653	10.06 83	5.0519 6	7.393 89	425.89 1	1.28 381	25.2	111.4	486.9	104.69 7	78.79 92	83.198 3	25.0 41	32.8 95	344.0 72	17.27 51	228.418	0.106 4
02:26:16 AM	156	51237 5	2607.97	277.761	1.0107	279.973	76.506 3	43.5 236	995.547	995.171	994.694	10.02 27	5.0611 2	7.459 99	427.49 8	1.28 828	25.2	111.4	486.9	104.69 9	78.79 99	83.199 7	25.0 891	32.8 991	339.2 24	17.25 76	228.468	0.106 4
02:26:17 AM	156	51237 6	2608.59	277.194	1.0107	280.027	76.534 1	43.5 15	995.546	995.171	1000.09	9.972 29	5.0611 2	6.036 04	425.45 6	1.31 091	25.2	111.4	486.9	104.7	78.22 59	83.149 9	25.0 98	32.8 998	334.3 88	17.25 82	228.348	0.085 714
02:26:18 AM	171	51237 7	2608.31	277.152	1.01071	280.084	76.554 7	43.5 388	995.544	995.171	998.955	10.00 96	5.0542 5	4.987 42	422.64 7	1.28 861	25.2	111.4	486.9	104.81 4	78.04 19	82.783 4	25.0 996	32.9	329.6 43	17.21 17	228.184	0.106 4
02:26:19 AM	171	51237 8	2607.93	276.932	1.01071	280.134	76.554 9	43.5 292	995.544	995.171	989.142	10.11 4	5.0458 4	2.921 55	422.37 1	1.28 675	25.2	111.4	486.9	104.88 4	78.00 78	82.715 4	25.0 999	32.9	324.8 65	17.21 72	227.98	0.065 025
02:26:20 AM	156	51237 9	2608.14	276.293	1.01071	280.151	76.534 5	43.5 386	995.544	995.171	1001.68	10.11 73	5.0779 3	3.611 52	422.36 5	1.29 385	25.2	111.4	486.9	104.89 7	78.00 14	82.702 9	25.1	32.9	320.0 7	17.24 93	227.808	0.017 734
02:26:21 AM	156	51238 0	2608.74	276.894	1.01071	280.119	76.487 5	43.5 215	995.544	995.171	1003.13	9.905 42	5.0863 4	3.234 63	424.13 9	1.29 419	25.2	111.523	486.9 79	104.89 9	78.00 03	82.700 5	25.1	32.9	315.3 02	17.20 81	227.71	0.026 601
02:27:56 AM	156	51247 5	2404.99	288.125	1.01045	291.182	73.378	43.4 891	995.495	995.171	874.358	8.525 23	4.9220 7	13.35 13	374.60 6	1.34 022	25.1	103.916	480.2	106.4	75.98 6	80.499 9	25.7	32.9	537.9 82	16.12 45	223.101	0.106 4
02:27:57 AM	171	51247 6	2404.26	288.442	1.01045	291.17	73.368 2	43.4 889	995.491	995.171	879.469	8.611 12	4.9243 6	12.75 3	375.29 6	1.32 651	25.1	103.903	480.2	106.4	75.91 59	80.5	25.6 656	32.9	533.5 27	16.11 25	222.775	0.106 4
02:27:58 AM	156	51247 7	2404.71	287.987	1.01045	291.179	73.349 1	43.5 003	995.495	995.171	872.617	8.426 27	4.9228 3	12.62 17	372.90 9	1.33 755	25.1	103.901	480.2	106.4	75.90 3	80.5	25.6 122	33.0 225	529.1 56	16.09 63	222.524	0.017 734
02:27:59 AM	156	51247 8	2404.56	287.982	1.01045	291.205	73.328 8	43.4 977	995.498	995.171	872.724	8.535 21	4.9289 4	13.19 96	373.71 9	1.32 419	25.1	103.9	480.2	106.4	75.90 06	80.5	25.6 023	33.0 856	524.6 6	16.05 72	222.307	0.026 601
02:28:00 AM	156	51247 9	2404.27	287.882	1.01044	291.214	73.313 2	43.4 905	995.5	995.171	879.727	8.525 23	4.9151 9	13.83 88	372.45 2	1.33 03	25.1	103.9	479.9 94	106.4	75.90 01	80.5	25.6 004	33.0 973	520.2 86	16.00 81	222.107	0.056 158
02:28:01 AM	171	51248 0	2404.29	287.849	1.01044	291.202	73.297 8	43.4 892	995.5	995.171	882.805	8.317 27	4.9297 1	12.69 55	374.25 5	1.32 618	25.1	103.819	479.9 17	106.4	75.80 5	80.5	25.6 001	33.0 995	515.7 71	15.99 03	221.862	0.106 4
02:28:02 AM	171	51248 1	2404.5	287.741	1.01044	291.175	73.275 2	43.4 992	995.501	995.171	878.431	8.428 39	4.9251 2	12.39 35	374.40 9	1.33 301	25.1	103.803	479.9 03	106.4	75.47 51	80.395 7	25.6	33.0 999	511.2 58	15.97 35	221.54	0.008 867
02:28:03 AM	171	51248 2	2404.92	288.062	1.01044	291.145	73.249 7	43.5 011	995.501	995.171	880.104	8.386 8	4.9243 6	13.22 31	373.63 2	1.34 686	25.1	103.801	479.9 01	106.55 4	75.41 39	80.317 7	25.6	33.1	506.7 92	16.06 44	221.215	0.017 734
02:28:04 AM	171	51248 3	2404.32	287.955	1.01044	291.131	73.239 6	43.4 911	995.505	995.171	877.343	8.518 72	4.9213 2	12.25 2	374.39 2	1.34 683	25.1	103.8	479.9	106.59 2	75.40 26	80.303 3	25.6	33.1	502.3 42	16.02 25	220.998	0.133 005
02:28:05 AM	156	51248 4	2404.5	287.877	1.01044	291.12	73.241 9	43.5 137	995.505	995.171	877.59	8.609 91	4.9274 1	13.48 58	375.49 9	1.34 097	25.1	103.8	479.7 36	106.59 8	75.40 05	80.300 6	25.5 229	33.1	497.9 52	16.03 82	220.909	0.106 4
02:28:06 AM	156	51248 5	2404.39	287.83	1.01043	291.084	73.247 2	43.4 935	995.508	995.171	870.302	8.626 81	4.9312 3	13.23 25	375.90 5	1.33 553	25.1	103.663	479.5 44	106.6	75.40 01	80.300 1	25.5 042	33.1	493.5 27	16.01 89	220.959	0.106 4
02:28:07 AM	156	51248 6	2404.8	288.06	1.01044	291.03	73.249 5	43.5 077	995.508	994.945	875.681	8.479 66	4.9335 3	13.63 6	373.17 2	1.34 626	25.1	103.612	479.5 08	106.6	75.60 59	80.3	25.5 008	33.1	489.0 47	16.05 86	221.059	0.097 54
02:28:08 AM	156	51248 7	2404.03	288.15	1.01044	290.993	73.254	43.5 134	995.512	995.171	874.23	8.442 55	4.9258 9	14.36 67	375.95 6	1.35 467	25.1	103.602	479.5 01	106.6	75.68 26	80.3	25.5 001	33.1	484.5 91	16.07 88	221.149	0.026 601
02:28:09 AM	171	51248 8	2404.4	287.816	1.01043	290.981	73.255 9	43.5 061	995.516	995.171	877.594	8.213 2	4.9281 8	14.44 63	374.43 5	1.34 609	25.1	103.6	479.5	106.6	75.69 68	80.3	25.5	33.1 771	480.2 04	16.06 84	221.243	0.056 158
02:28:10 AM	156	51248 9	2404.24	287.891	1.01042	290.962	73.257 2	43.5 061	995.521	995.171	885.194	8.339 08	4.9228 3	14.03 33	374.38 8	1.34 568	25.1	103.6	479.5	106.6	75.69 94	80.3	25.5	33.1 958	475.7 64	16.06 44	221.337	0.106 4

02:28:11 AM	156	51249 0	2404. 25	287. 595	1.01041	290.93	73.252 3	43.5 092	995. 523	995.171	883.933	8.405 48	4.9220 7	14.12 73	376.13	1.33 637	25.1	103.6	479.1 82	106.6	75.69 99	80.3	25.4 254	33.1 992	471.3 52	16.09 98	221. 462	0.017 734
02:28:12 AM	156	51249 1	2404. 3	287. 67	1.01041	290.895	73.234 8	43.5 012	995. 526	995.171	878.742	8.504 38	4.9258 9	13.51 43	374.21 1	1.32 546	25.1	103.6	479.1 15	106.6	75.7	80.3	25.4 047	33.1 999	466.9 59	16.09 25	221. 606	0.106 4
02:28:13 AM	156	51249 2	2404. 3	287. 68	1.01041	290.867	73.211 3	43.5 144	995. 526	995.171	877.462	8.409 85	4.9243 6	13.68 22	376.83 8	1.34 136	25.1	103.6	479.1 03	106.58	75.7	80.3	25.4 009	33.2	462.4 91	16.05 83	221. 734	0.106 4
02:28:14 AM	156	51249 3	2404. 81	287. 674	1.01042	290.841	73.190 2	43.5 22	995. 531	995.171	881.529	8.589 73	4.9251 2	14.36 62	376.66 5	1.34 949	25.1	103.6	479.1 01	106.43 3	75.7	80.3	25.4 002	33.1	458.0 22	16.03 25	221. 843	0.106 4
02:28:15 AM	156	51249 4	2405. 21	288. 215	1.01041	290.831	73.189 2	43.5 096	995. 531	995.171	881.295	8.452 88	4.9274 1	13.63 6	376.44 3	1.33 349	25.1	103.6	479.1	106.40 6	75.7	80.3	25.4	33.1 098	453.5 73	16.03 48	221. 884	0.047 291
02:28:16 AM	171	51249 5	2404. 77	288. 813	1.01041	290.847	73.213 4	43.5 06	995. 526	995.171	883.914	8.526 64	4.9251 2	13.41 02	376.72	1.33 036	25.1	103.6	479.1 57	106.40 1	75.7	80.3	25.4	33.1 018	449.1 57	16.06 42	221. 816	0.008 867
02:28:17 AM	156	51249 6	2404. 26	288. 282	1.01041	290.887	73.266 7	43.4 921	995. 527	995.171	886.361	8.480 71	4.9266 5	13.14 42	375.73 8	1.33 546	25.1	103.6	479.1 92	106.4	75.7	80.3	25.4	33.1 003	444.6 96	16.03 98	221. 665	0.106 4
02:28:18 AM	171	51249 7	2404. 31	287. 845	1.01042	290.929	73.324 2	43.5 105	995. 525	995.171	878.813	8.439 78	4.9213	14.36 55	376.75 3	1.34 066	25.1	103.6	479.1 99	106.4	75.46 18	80.231 2	25.3 43	33.1 001	440.2 74	16.01 38	221. 447	0.106 4
02:28:19 AM	156	51249 8	2404. 21	287. 879	1.01042	290.955	73.350 6	43.5 104	995. 521	995.171	881.229	8.426 73	4.9228 3	14.52 58	375.77 9	1.33 074	25.1	103.6	479.2	106.59 5	75.41 14	80.124 3	25.3 08	33.1 1	435.8 71	16.00 91	221. 225	0.106 4
02:28:20 AM	156	51249 9	2404. 13	287. 764	1.01042	290.958	73.334 3	43.5 043	995. 519	995.171	878.808	8.437 82	4.9220 7	13.89 18	375.60 6	1.32 737	25.1	103.6	479.2	106.68 1	75.40 21	80.104 5	25.3 115	33.3	431.4 87	15.97 98	221. 054	0.059 11
02:28:21 AM	156	51250 0	2404. 35	287. 81	1.01043	290.941	73.289 8	43.5 108	995. 517	995.171	884.936	8.553 36	4.9190 1	14.57 63	375.80 7	1.35 144	25.1	103.6	479.1 73	106.69 6	75.40 04	80.100 8	25.3 836	33.1 969	426.9 89	15.96 88	220. 864	0.088 67
02:28:22 AM	171	51250 1	2404. 28	287. 621	1.01043	290.923	73.245 2	43.5 078	995. 517	995.171	878.256	8.616 33	4.9220 7	13.87 72	377.22 1	1.33 469	25.1	103.429	479.1 13	106.69 9	75.40 01	80.100 2	25.3 175	33.1 994	422.5 87	15.98 13	220. 721	0.106 4
02:28:23 AM	171	51250 2	2404. 65	287. 532	1.01044	290.914	73.216 8	43.5 155	995. 512	995.171	883.283	8.600 46	4.9197 7	13.98 33	377.27 8	1.32 814	25.1	103.324	479.1 03	106.7	75.45 7	80.1	25.3 033	33.1 999	418.1 73	15.97 19	220. 616	0.106 4
02:28:24 AM	171	51250 3	2404. 47	288. 215	1.01043	290.916	73.212 3	43.5 191	995. 514	995.171	878.593	8.568 05	4.9213	14.99 65	378.14 7	1.33 574	25.1	103.304	479.1	106.74 1	75.49 2	80.1	25.3 006	33.2	413.7 24	15.97 01	220. 533	0.008 867
02:28:25 AM	171	51250 4	2405. 07	288. 942	1.01044	290.942	73.229 5	43.5 179	995. 512	995.171	881.806	8.607 31	4.9190 1	13.30 49	377.74 6	1.34 494	25.1	103.301	479.1	106.78 9	75.49 85	80.1	25.3 001	33.2	409.2 25	15.97 2	220. 493	0.106 4
02:30:04 AM	156	51260 3	2201. 06	324. 165	1.00956	327.251	75.431 1	43.6 889	995. 532	995.171	841.224	10.54 46	4.6928 5	26.61 87	334.2	1.29 359	24.8	99.8	493.5	106.00 7	74.9	79.985 6	25.4 282	32.9	454.3 34	15.99 8	213. 709	0.106 4
02:30:05 AM	156	51260 4	2201. 51	323. 834	1.00958	327.233	75.405 3	43.6 751	995. 534	995.171	831.243	10.50 28	4.7043 1	26.21 9	335	1.30 934	24.81	99.8	493.5	106.08 3	74.9	79.997 3	25.4 052	32.9	449.8 62	15.92 16	213. 495	0.047 291
02:30:06 AM	156	51260 5	2201. 3	323. 954	1.00981	327.224	75.410 5	43.6 726	995. 532	995.171	835.726	10.52 57	4.7035 5	26.51 87	334.83 6	1.32 411	24.8833	99.8	493.5 94	106.09 7	74.9	79.999 5	25.4 01	32.9	445.3 55	15.96 93	213. 406	0.106 4
02:30:07 AM	156	51260 6	2201. 04	324. 081	1.00986	327.215	75.413 7	43.6 721	995. 526	995.171	843.869	10.52 99	4.7004 9	26.58 59	335.03 7	1.30 833	24.8969	99.7254	493.6 8	106.09 9	74.9	79.999 9	25.4 002	32.9	440.9 37	16.00 8	213. 489	0.106 4
02:30:08 AM	156	51260 7	2200. 91	324. 242	1.00988	327.209	75.420 6	43.7 104	995. 526	994.945	837.054	10.53 07	4.6989 6	26.17 14	333.09 7	1.29 958	24.8994	99.7047	493.6 96	106.1	74.82 54	79.962	25.4	32.9	436.5 94	16.01 79	213. 655	0.106 4
02:30:09 AM	156	51260 8	2200. 84	323. 933	1.00987	327.209	75.422 6	43.6 791	995. 526	995.171	839.292	10.50 61	4.7066	26.31 22	336.54 2	1.29 462	24.8999	99.7009	493.6 99	105.91 6	74.80 47	79.83	25.4	32.9	432.1 02	15.98 89	213. 792	0.056 158
02:30:10 AM	156	51260 9	2201. 35	324. 165	1.00987	327.214	75.427 3	43.6 921	995. 529	995.171	841.012	10.39 66	4.7004 9	26.58 84	335.21 2	1.30 58	24.9	99.7002	493.7	105.82 2	74.80 09	79.805 6	25.3 314	32.9	427.6 81	16.03 07	213. 97	0.065 025
02:30:11 AM	156	51261 0	2200. 78	323. 951	1.00987	327.228	75.435 2	43.6 878	995. 529	995.171	834.651	10.50 6	4.6989 6	26.51 32	336.43 4	1.30 643	24.9	99.7	493.7	105.80 4	74.80 02	79.801	25.3 058	32.9	423.1 53	16.08 39	214. 143	0.056 158
02:30:12 AM	156	51261 1	2201. 52	323. 788	1.00987	327.229	75.437 4	43.6 749	995. 527	995.171	840.587	10.50 25	4.6997 3	26.75 4	335.41 9	1.28 961	24.9	99.7	493.7	105.80 1	74.8	79.800 2	25.3 011	32.9	418.7 92	16.06 86	214. 336	0.106 4
02:30:13 AM	156	51261 2	2201. 71	324. 457	1.00988	327.212	75.436 9	43.7 031	995. 531	995.171	839.607	10.47 95	4.7004 9	27.34 22	336.77 9	1.31 41	24.9	99.7	493.7	105.8	74.8	79.8	25.3 002	32.9	414.3 3	16.07 31	214. 524	0.076 847

02:30:14 AM	156	512613	220158	324432	1.00987	327.194	75.4372	43.6876	995.533	995.171	827.806	10.3341	4.69743	26.4923	336.911	1.296	24.9	99.7	493.7	105.908	74.8	79.8	25.3	32.9	409.896	16.0361	214.748	0.1064
02:30:15 AM	156	512614	220161	324309	1.00987	327.214	75.4578	43.6918	995.533	995.171	835.887	10.3525	4.69973	27.0153	337.123	1.2942	24.9	99.7	493.7	106.146	74.8	79.8	25.3	32.9	405.464	16.041	214.907	0.008867
02:30:16 AM	156	512615	220193	323875	1.00989	327.253	75.4828	43.7317	995.532	995.171	844.185	10.3626	4.69438	26.4313	335.983	1.31232	24.9	99.7	493.7	106.198	74.8	79.8	25.3651	32.9	401.039	16.058	214.944	0.056158
02:30:17 AM	156	512616	220193	324374	1.00987	327.281	75.4971	43.7003	995.533	995.171	837.391	10.4582	4.69973	26.7216	335.609	1.29648	24.9	99.7	493.7	106.198	74.8	79.8	25.3467	32.9	396.604	16.0346	214.902	0.1064
02:30:18 AM	156	512617	220192	32442	1.00987	327.3	75.5	43.6894	995.529	995.171	838.776	10.4604	4.70125	25.8433	334.873	1.30436	24.9	99.7	493.7	106.2	74.81	79.8	25.3087	32.9	392.145	16.0157	214.757	0.1064
02:30:19 AM	156	512618	220211	324401	1.00988	327.326	75.4977	43.7024	995.531	995.171	830.756	10.4721	4.69973	25.9032	334.24	1.31668	24.9	99.7	493.7	106.2	74.8833	79.8	25.3016	32.9	387.703	15.9708	214.632	0.038424
02:30:20 AM	156	512619	220167	324169	1.00987	327.363	75.5035	43.6829	995.531	994.945	841.181	10.3225	4.70666	25.6053	333.564	1.32315	24.9	99.7	493.7	105.985	74.8969	79.8	25.3003	32.9	383.233	15.9701	214.486	0.1064
02:30:21 AM	156	512620	220176	324265	1.00988	327.388	75.5153	43.7029	995.531	994.945	847.457	10.3315	4.69438	26.6539	334.721	1.30566	24.9	99.7	493.7	105.916	74.8994	79.8	25.3001	32.9	378.774	16.0148	214.295	0
02:30:22 AM	156	512621	220176	324183	1.00966	327.397	75.5039	43.7241	995.528	995.171	844.587	10.2811	4.70507	27.0886	335.018	1.32161	24.8229	99.7	493.646	105.903	74.8999	79.8	25.3	32.9	374.384	15.9781	214.104	0.017734
02:30:23 AM	156	512622	220175	324246	1.00958	327.397	75.4903	43.6817	995.53	995.171	835.768	10.1597	4.69827	27.1573	336.432	1.30371	24.8042	99.6349	493.527	105.901	74.9	79.8	25.3	32.9	369.923	15.9889	213.921	0.212808
02:30:24 AM	156	512623	220176	324021	1.00957	327.396	75.4759	43.6837	995.529	994.945	843.138	10.1585	4.70125	26.8248	336.55	1.30938	24.8008	99.6065	493.505	105.9	74.9686	79.8	25.3	32.9	365.516	15.9322	213.843	0.1064
02:30:25 AM	156	512624	220195	323935	1.00959	327.398	75.4641	43.7488	995.526	995.171	835.074	10.3205	4.69743	26.7901	335.728	1.30635	24.8001	99.6012	493.501	105.982	74.9942	79.9629	25.3	32.9	361.061	15.9628	213.777	0.1064
02:30:26 AM	156	512625	220216	324197	1.00959	327.393	75.4524	43.7313	995.525	995.171	839.779	10.4129	4.69896	26.7473	335.834	1.32785	24.8	99.6002	493.5	106.078	74.9989	79.9931	25.3	33.0435	356.658	15.9684	213.723	0.038424
02:30:27 AM	156	512626	220165	324101	1.00976	327.378	75.4563	43.739	995.524	995.171	833.209	10.3976	4.69438	27.2649	336.479	1.30629	24.857	99.6	493.5	106.096	74.9998	79.9987	25.3	33.0895	352.253	15.9856	213.669	0.1064
02:30:28 AM	156	512627	220179	324021	1.00987	327.355	75.4597	43.7476	995.527	995.171	838.909	10.419	4.69438	27.1171	335.319	1.32794	24.892	99.6	493.425	106.099	75	79.9998	25.3	33.081	347.785	15.9742	213.634	0.1064
02:30:29 AM	156	512628	220149	323886	1.00988	327.343	75.4576	43.7096	995.526	995.171	836.188	10.5102	4.69438	27.4575	336.48	1.31343	24.8985	99.6	493.405	106.1	74.9656	80	25.3	33.0996	343.464	15.9705	213.662	0.1064
02:30:30 AM	156	512629	220151	324104	1.0099	327.333	75.4544	43.7327	995.523	994.945	840.732	10.5271	4.69743	27.2658	334.582	1.33221	24.8997	99.6	493.401	106.1	74.9122	80	25.3	33.0999	338.969	15.9847	213.719	0.026601
02:30:31 AM	156	512630	220167	324547	1.00988	327.325	75.4535	43.7207	995.531	995.171	834.852	10.5302	4.69743	27.5848	336.735	1.29873	24.9	99.6	493.4	106.1	74.9023	80	25.3	33.0063	334.556	15.9604	213.782	0.026601
02:30:32 AM	156	512631	220112	324119	1.0099	327.314	75.4612	43.7436	995.531	995.171	842.356	10.5308	4.69973	27.558	335.167	1.31226	24.9	99.6	493.4	106.1	74.9004	80	25.3	32.9197	330.139	15.9813	213.801	0.1064
02:30:33 AM	156	512632	220161	323875	1.00989	327.302	75.4706	43.7314	995.528	995.171	838.596	10.5309	4.69743	27.5942	334.733	1.30599	24.9	99.6	493.661	106.1	74.9001	80	25.3	32.9036	325.663	15.9909	213.799	0.05025
02:31:33 AM	156	512692	201295	337541	1.00995	341.047	71.932	43.7944	995.495	995.171	715.091	10.3741	4.50642	38.9235	304.959	1.3007	24.9	93.1431	496.019	105.3	74.7	80	25.2	32.9	438.024	15.0589	211.058	0.076847
02:31:34 AM	156	512693	20131	337479	1.00996	341.033	71.8976	43.7941	995.496	995.171	718.217	10.3986	4.50489	38.8161	303.256	1.30665	24.9	93.108	496.003	105.3	74.643	80	25.2	32.9	433.781	15.0503	211.13	0.02956
02:31:35 AM	156	512694	201294	337291	1.00996	341.026	71.8689	43.7941	995.492	995.171	717.275	10.4727	4.49801	38.6955	303.168	1.31243	24.9	93.1015	496.001	105.381	74.608	79.8508	25.2	32.9	429.725	15.0639	211.236	0.1064
02:31:36 AM	156	512695	201333	337652	1.00996	341.018	71.8531	43.7941	995.492	995.171	721.562	10.4383	4.49878	38.4328	302.249	1.29853	24.9	93.1003	496	105.559	74.6015	79.8094	25.2	32.9	425.543	15.0284	211.392	0.1064
02:31:37 AM	156	512696	201354	337809	1.00997	341.012	71.8536	43.8055	995.488	995.171	716.293	10.347	4.50336	38.6998	302.439	1.31565	24.9	93.1001	496	105.592	74.6003	79.8017	25.2	32.9	421.38	15.0158	211.49	0.05911
02:31:38 AM	156	512697	201295	337956	1.00996	341.016	71.8662	43.7962	995.493	995.171	713.502	10.4968	4.49725	38.411	301.771	1.31499	24.9	93.1	495.935	105.599	74.6001	79.8003	25.2	32.9	417.235	14.9897	211.498	0.106

02:31:39 AM	156	512698	2012.72	337.896	1.00996	341.035	71.8869	43.7945	995.492	995.171	714.109	10.3991	4.5026	38.6122	303.727	1.3072	24.9	93.0206	495.906	105.6	74.61	79.8001	25.2	32.9	413.162	14.9599	211.388	0.038424
02:31:40 AM	156	512699	2012.92	337.296	1.00996	341.059	71.9096	43.8033	995.496	995.171	720.91	10.1777	4.49801	38.6594	303.375	1.28811	24.9	93.0038	495.901	105.6	74.6833	79.8469	25.2	32.9	408.99	14.9721	211.124	0.1064
02:31:41 AM	156	512700	2013.05	337.153	1.00996	341.06	71.9136	43.8113	995.496	995.171	717.256	10.035	4.49572	38.1322	302.63	1.29735	24.9	93.0007	495.9	105.451	74.6969	79.8902	25.2	32.9	404.787	14.9919	210.837	0.047291
02:31:42 AM	156	512701	2013.4	337.728	1.00995	341.022	71.8941	43.8079	995.502	995.171	722.607	10.0788	4.50642	39.2849	302.329	1.30699	24.9	93.0001	495.9	105.409	74.6994	79.8982	25.2	32.9	400.576	14.9956	210.586	0.06525
02:31:43 AM	156	512702	2013.08	338.116	1.00971	340.967	71.8553	43.808	995.504	995.171	728.447	10.0537	4.49114	39.0286	303.011	1.29961	24.8206	93	495.728	105.402	74.6999	79.8997	25.2	32.9	396.451	15.0017	210.466	0.1064
02:31:44 AM	156	512703	2013.1	337.955	1.00965	340.941	71.8471	43.7967	995.502	995.171	726.652	9.92048	4.50183	38.9593	302.36	1.31807	24.8038	92.8628	495.461	105.4	74.7	79.8999	25.2	32.9	392.253	15.0209	210.499	0.1064
02:31:45 AM	156	512704	2013.09	338.333	1.00965	340.965	71.8766	43.806	995.499	995.171	722.762	9.95335	4.49878	39.3855	303.526	1.31016	24.8007	92.8116	495.411	105.4	74.7	79.9	25.1206	32.9	388.072	15.0266	210.607	0.02956
02:31:46 AM	156	512705	2013.04	338.343	1.00966	341.015	71.9216	43.8095	995.498	995.171	720.747	10.0472	4.49496	39.2383	302.13	1.30429	24.8001	92.8022	495.402	105.4	74.7	79.9	25.1724	32.9	384.044	15.0431	210.719	0.076847
02:31:47 AM	156	512706	2013.27	337.987	1.00966	341.066	71.9616	43.8242	995.5	995.171	721.97	9.86556	4.5026	38.6973	303.906	1.30955	24.8	92.8004	495.4	105.4	75.0063	79.9	25.1379	32.9	379.808	14.9933	210.794	0.1064
02:31:48 AM	156	512707	2013.12	337.995	1.00966	341.11	71.9788	43.8204	995.5	995.171	712.37	9.86901	4.49801	39.2487	304.089	1.29631	24.8	92.8001	495.4	105.195	75.1641	80.1382	25.107	32.9	375.604	15.0356	210.79	0.047291
02:31:49 AM	156	512708	2013.04	337.916	1.00965	341.145	71.9716	43.8126	995.499	994.945	719.941	9.99512	4.50718	39.731	303.834	1.29715	24.8	92.8	495.4	104.955	75.1934	80.1886	25.1013	33.1059	371.508	15.0276	210.772	0.06798
02:31:50 AM	156	512709	2013.28	338.128	1.00965	341.173	71.9576	43.8058	995.497	995.171	717.704	10.1707	4.50489	39.6174	302.519	1.31810	24.8	92.8	495.4	104.91	75.1988	80.1979	25.1002	33.1	367.368	14.9856	210.746	0.1064
02:31:51 AM	156	512710	2013.03	338.321	1.00966	341.187	71.9495	43.8165	995.493	995.171	722.062	10.1248	4.50183	39.2829	301.597	1.32076	24.8	92.762	494.803	104.902	75.1998	80.1996	25.1	33.1968	363.156	15.0359	210.718	0.1064
02:31:52 AM	156	512711	2012.75	337.969	1.00966	341.201	71.9537	43.8011	995.493	995.171	713.685	10.3068	4.50107	39.1104	302.806	1.32693	24.8	92.63	494.638	104.9	75.162	80.1999	25.1	33.1994	358.948	15.0145	210.726	0.02956
02:31:53 AM	156	512712	2013.19	337.671	1.00967	341.219	71.9618	43.8253	995.492	995.171	712.912	10.2699	4.511	39.0383	302.389	1.30772	24.8	92.6056	494.607	104.9	75.03	80.2	25.1	33.1999	354.804	14.9562	210.695	0.1064
02:31:54 AM	156	512713	2012.94	338	1.00967	341.246	71.9571	43.8113	995.489	995.171	723	10.4825	4.50336	37.8167	301.591	1.30875	24.8	92.601	494.601	104.821	75.0056	80.2	25.1	33.0968	350.713	14.9361	210.629	0.1064
02:31:55 AM	156	512714	2013.07	338.121	1.00967	341.284	71.9457	43.8115	995.489	995.171	723.809	10.433	4.50336	38.4278	303.26	1.31077	24.8	92.6002	494.6	104.804	75.001	80.2	25.1	32.9365	346.576	14.9521	210.505	0.06525
02:31:56 AM	156	512715	2013.22	338.125	1.00968	341.319	71.9409	43.8316	995.487	995.171	717.086	10.5524	4.50871	38.6065	302.163	1.31751	24.8	92.6	494.969	104.801	75.0002	80.2	25.1	32.9068	342.415	14.9102	210.294	0.1064
02:31:57 AM	156	512716	2013.25	337.826	1.00968	341.337	71.9437	43.8477	995.485	995.171	724.535	10.5349	4.49878	39.2029	302.674	1.31722	24.8	92.4697	495.402	104.8	75	80.2	25.1	33.1013	338.195	14.9748	210.043	0.1064
02:31:58 AM	156	512717	2012.93	338.077	1.00967	341.335	71.9534	43.8442	995.494	995.171	723.84	10.5564	4.5026	39.819	300.823	1.31141	24.8	92.4129	495.482	104.8	74.7847	80.162	25.1	32.9002	334.081	14.932	209.864	0
02:31:59 AM	156	512718	2013.15	337.585	1.00966	341.319	71.9548	43.8218	995.494	995.171	719.764	10.5356	4.50718	38.4613	301.053	1.32291	24.8	92.4024	495.497	104.8	74.7157	80.03	25.1	32.9	329.945	14.9333	209.722	0.1064
02:32:00 AM	156	512719	2012.62	337.463	1.00968	341.293	71.9399	43.8563	995.494	995.171	721.546	10.3176	4.51177	38.3811	301.806	1.30871	24.8	92.4004	495.499	104.8	74.7029	80.0056	25.1	32.9	325.746	14.9871	209.657	0.1064
02:32:01 AM	156	512720	2012.88	337.278	1.00986	341.263	71.9259	43.8304	995.493	995.171	716.574	10.379	4.50336	37.9586	302.534	1.3107	24.8651	92.4001	495.5	104.8	74.7005	80.001	25.1	32.9	321.641	14.9655	209.734	0.239409
02:32:02 AM	156	512721	2013.54	337.734	1.00997	341.228	71.8989	43.8608	995.487	995.171	718.551	10.4182	4.51024	38.4522	302.825	1.32197	24.8935	92.3181	495.579	104.8	74.7001	80.0002	25.1	32.9	317.436	14.9644	209.823	0.1064

02:33:54 AM	156	51283 3	1807. 36	340. 78	1.00995	344.183	65.162 7	43.8 914	995. 528	995.171	611.475	5.811 33	4.2665	41.70 19	264.27	1.33 779	24.9	84.3001	489	103.89 2	74.5	80	24.9 023	33.1	534.1 04	13.62 23	211. 679	0.115 271
02:33:55 AM	156	51283 4	1807. 18	340. 556	1.00995	344.165	65.150 3	43.8 867	995. 525	995.171	614.931	5.878 09	4.2703 2	42.14 89	264.39 5	1.34 61	24.9	84.3	488.3 14	103.89 8	74.5	80	24.9 004	33.1	530.2 77	13.59 35	211. 526	0.106 4
02:33:56 AM	156	51283 5	1807. 64	340. 541	1.00995	344.16	65.137 4	43.8 858	995. 525	995.171	615.532	5.856 2	4.2657 4	42.54 73	264.46 6	1.34 76	24.9	84.3	488.0 58	103.9	74.5	80	24.9 001	33.1	526.5 67	13.60 59	211. 323	0.088 67
02:33:57 AM	156	51283 6	1807. 69	340. 854	1.00995	344.168	65.128 3	43.8 906	995. 527	995.171	619.632	5.716 3	4.2665	42.85 15	265.08 5	1.36 317	24.9	84.3	488.0 11	103.9	74.66 29	79.947 8	24.9	33.1	522.7 33	13.61 1	211. 159	0.106 4
02:33:58 AM	156	51283 7	1807. 41	340. 638	1.00996	344.173	65.122 9	43.8 905	995. 524	995.171	617.072	5.913 73	4.2680 3	42.36 15	265.14 5	1.36 407	24.9	84.3	488.0 02	103.82 8	74.69 31	79.908 9	24.9	33.1	518.9 81	13.61 19	211. 067	0.076 847
02:33:59 AM	156	51283 8	1807. 42	340. 46	1.00996	344.166	65.118 3	43.8 865	995. 52	995.171	616.741	5.907 6	4.2672 7	42.17 43	265.94 9	1.34 665	24.9	84.3	488	103.80 5	74.69 87	79.901 6	24.9	33.1	515.3 02	13.55 02	211. 016	0.106 4
02:34:00 AM	156	51283 9	1807. 51	340. 947	1.00997	344.146	65.116 9	43.8 918	995. 518	995.171	598.17	5.647 75	4.2726 2	42.26 18	265.81 6	1.36 136	24.9	84.3	487.5 91	103.80 1	74.69 98	79.900 3	24.9	33.1	511.4 89	13.53 07	210. 958	0.106 4
02:34:01 AM	156	51284 0	1807. 54	340. 916	1.00997	344.134	65.118 1	43.8 959	995. 517	994.945	590.398	5.617 57	4.2657 4	42.34 2	265.48 9	1.35 65	24.9	84.1697	487.1 09	103.8	74.7	79.900 1	24.9	33.1	507.7 48	13.53 65	210. 834	0.038 424
02:34:02 AM	156	51284 1	1807. 77	340. 762	1.00997	344.133	65.127 4	43.8 938	995. 512	995.171	586.563	5.679 85	4.2756 7	41.68 41	266.16 1	1.35 06	24.9	84.1129	487.0 2	103.8	74.56 97	79.9	24.8 43	33.1	503.9 9	13.53 94	210. 618	0.026 601
02:34:03 AM	156	51284 2	1807. 36	340. 982	1.00998	344.129	65.142 2	43.9 072	995. 516	995.171	585.8	5.561 03	4.2665	41.95 37	265.00 5	1.35 451	24.9	84.1024	487.0 04	103.84 7	74.51 29	79.9	24.8 08	33.1	500.2 45	13.53 99	210. 329	0.106 4
02:34:04 AM	156	51284 3	1807. 35	340. 686	1.00997	344.12	65.152 4	43.9 02	995. 513	995.171	588.108	5.523 4	4.2703 2	41.77 9	264.44 2	1.35 708	24.9	84.1004	487.0 01	103.89	74.50 24	79.9	24.8 015	33.1	496.5 25	13.54 089	210. 089	0.106 4
02:34:05 AM	156	51284 4	1807. 4	340. 276	1.00998	344.115	65.153 9	43.9 064	995. 51	995.171	594.505	5.611 85	4.2688	41.91 58	265.13 3	1.34 295	24.9	84.1001	487	103.89 8	74.50 04	79.9	24.8 003	33.1	492.7 69	13.52 65	209. 943	0.047 291
02:34:06 AM	156	51284 5	1807. 3	340. 579	1.00998	344.1	65.139	43.9 009	995. 51	995.171	591.562	5.655 08	4.2665	41.59 72	264.11 8	1.34 429	24.9	84.1	486.7 02	103.9	74.50 01	79.9	24.7 206	33.1	489	13.53 14	209. 868	0.056 158
02:34:07 AM	156	51284 6	1807. 49	340. 592	1.00998	344.076	65.118 2	43.9 025	995. 509	995.171	587.838	5.777 52	4.2665	41.82 3	266.32 7	1.34 482	24.9	84.1	486.6 19	103.9	74.56 88	79.9	24.7 038	33.1	485.2 55	13.53 87	209. 871	0.065 025
02:34:08 AM	156	51284 7	1807. 53	340. 285	1.00998	344.059	65.103	43.8 997	995. 507	995.171	586.679	5.509 19	4.2733 8	41.56 27	265.11 2	1.34 385	24.9	84.1	486.6 03	103.9	74.67 57	79.9	24.7 007	33.1	481.5 07	13.52 37	209. 889	0.106 4
02:34:09 AM	156	51284 8	1807. 73	340. 225	1.00998	344.051	65.092 7	43.9 026	995. 505	995.171	600.964	5.654 19	4.2672 7	42.01 95	265.58 7	1.35 266	24.9	84.1	486.6 01	103.81 9	74.69 55	79.9	24.7 001	33.1	477.7 76	13.53 4	209. 901	0.106 4
02:34:10 AM	156	51284 9	1807. 3	340. 59	1.00999	344.035	65.087 8	43.8 962	995. 502	995.171	609.709	5.639 87	4.2672 7	41.71 87	262.68 8	1.35 915	24.9	84.1	486.6	103.80 3	74.69 92	79.9	24.6 81	33.1	474.0 02	13.55 65	209. 944	0.047 291
02:34:11 AM	156	51285 0	1809. 94	340. 746	1.00999	344.017	65.087 4	43.9 032	995. 503	995.171	611.661	5.663 4	4.2718 5	42.55 13	264.50 6	1.35 047	24.9	84.1	486.4 96	103.80 1	74.69 98	79.9	24.6 15	33.1	470.2 4	13.56 29	209. 993	0.106 4
02:34:12 AM	156	51285 1	1808. 08	340. 926	1.00999	344.026	65.109 9	43.8 889	995. 496	995.171	603.838	5.506 32	4.2741 4	41.55 08	264.23 4	1.34 735	24.9	84.0229	486.4 18	103.8	74.7	79.9	24.6 028	33.1	466.5 05	13.57 95	210. 064	0.106 4
02:34:13 AM	156	51285 2	1807. 79	340. 817	1.01	344.055	65.136 6	43.8 965	995. 494	995.171	613.409	5.662 3	4.2794 9	41.42 49	263.74	1.34 332	24.9	84.0042	486.4 03	103.8	74.54 57	79.9	24.6 005	33.1	462.7 71	13.56 5	210. 158	0.106 4
02:34:14 AM	156	51285 3	1807. 92	340. 707	1.00999	344.076	65.166 8	43.8 876	995. 496	994.945	611.962	5.603 6	4.2810 2	41.66 3	264.51 7	1.35 344	24.9	84.0008	486.4 01	103.73 5	74.50 85	79.9	24.6 001	33.1	459.0 13	13.57 99	210. 234	0.106 4
02:34:15 AM	156	51285 4	1807. 58	340. 37	1.00999	344.077	65.176 4	43.8 987	995. 499	995.171	591.041	5.461 09	4.2764 4	41.56 87	264.61 9	1.35 455	24.9	84.0001	486.4	103.70 6	74.50 16	79.9	24.6	33.1	455.2 97	13.56 6	210. 292	0.094 581
02:34:16 AM	156	51285 5	1807. 72	340. 029	1.00999	344.06	65.167 3	43.8 948	995. 501	995.171	601.917	5.603 86	4.2787 3	41.28 11	265.31 5	1.35 383	24.9	84	486.3 6	103.70 1	74.50 03	79.9	24.6	33.1	451.5 51	13.57 91	210. 32	0.106 4
02:34:17 AM	156	51285 6	1808. 12	340. 414	1.00999	344.028	65.140 1	43.9 019	995. 501	995.171	612.3	5.627 74	4.2756 7	41.85 65	264.81 2	1.36 089	24.9	84	486.0 67	103.7	74.50 01	79.9	24.6	33.1	447.7 83	13.58 25	210. 35	0.038 424
02:34:18 AM	156	51285 7	1807. 54	340. 55	1.00999	343.997	65.106 8	43.8 98	995. 504	995.171	606.831	5.635 68	4.2756 7	41.62 48	265.31 7	1.37 205	24.9	84	486.0 12	103.7	74.59 37	79.9	24.6	33.1	443.9 84	13.56 83	210. 415	0.106 4
02:34:19 AM	156	51285 8	1807. 97	340. 467	1.00998	343.99	65.086 7	43.8 946	995. 505	995.171	616.208	5.825 58	4.2764 4	42.41 09	264.10 2	1.36 496	24.9	84	486.0 02	103.7	74.68 03	80.049 2	24.6	33.1	440.2 45	13.58 36	210. 5	0.106

02:34:20 AM	156	512859	180621	341244	1.00998	343.997	65.0851	43.8965	995.505	995.171	604.056	5.71895	4.26345	42.1861	263.534	1.34623	24.9	84	486	103.7	74.6964	80.0906	24.6	33.1651	436.528	13.5563	210.59	0.1064
02:34:21 AM	156	512860	180746	340518	1.00998	344.006	65.0917	43.8968	995.506	995.171	602.431	5.70239	4.28255	42.2459	266.423	1.35411	24.9	84	486	103.7	74.6993	80.0983	24.581	33.1935	432.803	13.5243	210.625	0.212808
02:34:22 AM	156	512861	180765	340867	1.00998	344.025	65.1107	43.9042	995.51	995.171	602.89	5.69826	4.27567	42.2182	266.288	1.3523	24.9	83.98	486	103.7	74.6999	80.0997	24.515	33.1988	428.993	13.5445	210.556	0.09754
02:34:23 AM	156	512862	180793	341332	1.00997	344.05	65.127	43.8964	995.515	995.171	592.507	5.73032	4.27262	41.4309	264.806	1.35838	24.9	83.8334	486	103.7	74.7	80.0999	24.5822	33.1998	425.324	13.5585	210.42	0.1064
02:35:42 AM	156	512941	160127	339624	1.01099	343.588	57.5104	43.8856	995.431	995.171	491.205	0.41446	3.95018	50.3552	236.35	1.35848	25.1998	77.9055	475.906	102.238	74.3	79.9	24.4	32.9	498.227	11.9102	207.351	0.017734
02:35:43 AM	156	512942	160126	340235	1.01099	343.54	57.5367	43.8856	995.429	995.171	501.492	0.417451	3.95095	50.2427	235.766	1.34288	25.2	77.901	475.901	102.37	74.3	79.9	24.4	32.9	494.887	11.9458	208.058	0.144828
02:35:44 AM	156	512943	160153	340218	1.01069	343.512	57.5596	43.8856	995.433	995.171	498.79	0.572249	3.954	50.0384	234.336	1.3399	25.0968	77.9002	475.9	102.394	74.3	79.9	24.4	32.9	491.627	11.9524	208.755	0.026601
02:35:45 AM	156	512944	160107	340218	1.01019	343.48	57.5618	43.8856	995.426	995.171	489.292	0.570558	3.95324	49.2902	234.938	1.35077	24.9365	77.9	475.594	102.399	74.3	79.9	24.4	32.9	488.388	11.9301	209.107	0.1064
02:35:46 AM	156	512945	160097	340261	1.0101	343.453	57.5863	43.8856	995.424	995.171	493.064	0.399698	3.95477	49.7988	235.662	1.36094	24.9068	77.7371	475.436	102.4	74.3	79.9	24.4	32.9	485.079	11.9148	209.26	0.056158
02:35:47 AM	156	512946	160108	340213	1.01009	343.436	57.6064	43.8856	995.42	995.171	500.97	0.649921	3.95095	50.2725	235.348	1.37244	24.9013	77.7069	475.407	102.4	74.3794	79.9	24.4	32.9	481.81	11.9058	209.315	0.1064
02:35:48 AM	156	512947	160142	340468	1.01009	343.426	57.6198	43.8856	995.419	994.945	499.026	0.65462	3.95935	50.3376	235.336	1.35752	24.9002	77.7013	475.401	102.263	74.3962	79.9	24.4	32.9	478.515	11.9224	209.259	0.1064
02:35:49 AM	156	512948	160127	34025	1.01009	343.421	57.6285	43.8856	995.413	994.945	496.441	0.561862	3.94866	49.639	234.814	1.3643	24.9	77.7002	475.4	102.21	74.3993	79.9	24.4	32.9	475.249	11.9092	209.12	0.1064
02:35:50 AM	156	512949	160133	340399	1.01076	343.445	57.67	43.8856	995.418	994.945	498.615	0.538806	3.94942	50.0971	234.576	1.38978	25.1238	77.7	475.331	102.202	74.3999	79.9	24.4	32.9	471.907	11.9193	208.972	0.1064
02:35:51 AM	156	512950	160084	340567	1.01095	343.518	57.685	43.8856	995.424	995.171	497.29	0.701749	3.95095	50.0941	236.278	1.39051	25.1859	77.5775	475.224	102.2	74.4	79.9	24.4	32.9	468.554	11.8992	208.861	0.1064
02:35:52 AM	156	512951	16009	339789	1.01099	343.62	57.6874	43.89	995.427	994.945	495.197	0.557995	3.9563	50.0931	236.291	1.35244	25.1974	77.5144	475.204	102.2	74.4	79.9	24.4	32.9	465.286	11.9174	208.799	0.1064
02:35:53 AM	156	512952	16007	339001	1.01099	343.698	57.6771	43.8864	995.424	995.171	491.562	0.515649	3.954	49.7888	234.172	1.37615	25.1995	77.5027	475.201	102.2	74.4	79.9	24.4	32.9	461.96	11.8986	208.773	0.1064
02:35:54 AM	156	512953	160093	338919	1.01099	343.71	57.6403	43.8858	995.428	995.171	498.258	0.548337	3.95171	49.365	233.362	1.34851	25.1999	77.5005	475.2	102.2	74.4	79.9	24.4	32.7628	458.701	11.8981	208.774	0.124138
02:35:55 AM	156	512954	160143	339288	1.01053	343.662	57.5562	43.894	995.43	994.945	496.561	0.532595	3.95782	49.8878	235.216	1.35172	25.0435	77.5001	475.2	102.2	74.4	79.9	24.4	32.7116	455.429	11.9062	208.804	0.1064
02:35:56 AM	156	512955	160113	339886	1.01016	343.583	57.4842	43.8872	995.431	995.171	499.715	0.668079	3.96394	50.2106	234.686	1.37478	24.9266	77.4187	474.626	102.2	74.4	79.9	24.4	32.7022	452.151	11.906	208.907	0.1064
02:35:57 AM	156	512956	160133	340278	1.0101	343.527	57.4675	43.9	995.428	995.171	489.555	0.666629	3.95553	50.0687	234.266	1.35859	24.9049	77.2405	474.442	102.2	74.4	79.9	24.4	32.7004	448.846	11.8926	209.022	0.017734
02:35:58 AM	156	512957	160136	340122	1.01008	343.506	57.4979	43.9124	995.434	995.171	491.753	0.716717	3.96546	49.8907	234.928	1.35163	24.9009	77.2075	474.408	102.2	74.4	79.9	24.4	32.7001	445.561	11.8749	209.1	0.106404
02:35:59 AM	156	512958	160073	339978	1.01007	343.499	57.5489	43.8946	995.433	995.171	500.154	0.714085	3.954	49.6575	234.794	1.34753	24.9002	77.2014	474.401	102.2	74.4	79.9	24.4	32.7	442.266	11.8717	209.068	0.1064
02:36:00 AM	156	512959	160058	3394	1.01007	343.486	57.5838	43.9031	995.435	995.171	496.804	0.692143	3.96546	49.5727	234.218	1.3616	24.9	77.2003	474.4	102.2	74.4	79.9	24.4	32.7	438.993	11.865	208.896	0.076847
02:36:01 AM	156	512960	160055	338732	1.01007	343.447	57.5822	43.899	995.437	995.171	498.944	0.643225	3.96394	49.3483	234.559	1.34707	24.9	77.2001	474.306	102.2	74.4	79.9	24.4	32.7	435.736	11.8583	208.666	0.094581
02:36:02 AM	156	512961	160082	338479	1.01007	343.358	57.5362	43.8881	995.433	995.171	496.95	0.572411	3.96012	49.7407	235.501	1.35779	24.9	77.2	474.22	102.2	74.4	79.9	24.4	32.7	432.381	11.8579	208.445	0.076847

02:36:03 AM	156	51296 2	1601. 05	338. 797	1.01008	343.213	57.470 5	43.8 861	995. 425	995.171	493.083	0.676 657	3.9593 5	50.06 74	234.43 4	1.35 478	24.9	77.2	474.2 04	102.2	74.4	79.9	24.4	32.7	429.1 44	11.82 41	208. 34	0.017 734
02:36:04 AM	156	51296 3	1600. 66	338. 882	1.01009	343.047	57.409	43.8 924	995. 419	994.945	490.355	0.821 399	3.9631 7	49.36 6	234.77 8	1.35 534	24.9	77.2	474.2 01	102.2	74.4	79.9	24.4	32.7	425.8 29	11.84 02	208. 323	0.106 4
02:36:05 AM	156	51296 4	1600. 96	339. 122	1.01009	342.896	57.374 6	43.8 961	995. 416	995.171	497.181	0.789 049	3.9677 6	49.68 22	234.41 9	1.36 483	24.9	77.2	474.2	102.2	74.4	79.9	24.4	32.7	422.5 28	11.87 4	208. 393	0.106 4
02:36:06 AM	156	51296 5	1601. 06	339. 566	1.01009	342.796	57.373	43.8 93	995. 414	995.171	500.48	0.939 917	3.9647	49.47 75	233.78 6	1.33 967	24.9	77.2	474.2	102.2	74.4	79.9	24.4	32.7	419.2 46	11.88 03	208. 484	0.076 847
02:36:07 AM	156	51296 6	1601. 24	339. 358	1.01011	342.762	57.398 5	43.9 069	995. 409	994.945	490.16	0.703 399	3.9631 7	49.09 97	234.53 9	1.34 532	24.9	77.1063	473.7 93	102.2	74.4	79.9	24.4	32.7	415.8 96	11.88 74	208. 584	0.026 601
02:36:08 AM	156	51296 7	1601. 82	339. 391	1.0101	342.772	57.432 7	43.8 95	995. 409	994.945	495.359	0.711 378	3.9654 6	49.64 43	234.11 6	1.34 874	24.9	77.0197	473.7 17	102.2	74.35 9	79.9	24.3 656	32.7	412.6 28	11.92 39	208. 73	0.106 4
02:36:09 AM	156	51296 8	1601. 17	340. 07	1.01011	342.783	57.463	43.9 115	995. 405	994.945	496.763	0.867 333	3.9608 8	49.49 39	234.84 8	1.35 447	24.9	77.0036	473.7 03	102.27 6	74.31 09	79.9	24.3 122	32.7	409.3 68	11.89 73	208. 871	0.106 4
02:36:10 AM	156	51296 9	1600. 91	339. 197	1.01011	342.767	57.486 7	43.8 904	995. 402	995.171	494.178	0.918 665	3.9662 3	49.64 21	235.11 8	1.36 54	24.9	77.0007	473.7 01	102.54	74.30 2	79.9	24.3 794	32.8 043	406.0 53	11.85 16	208. 988	0.008 867
02:36:11 AM	156	51297 0	1601. 24	339. 418	1.01011	342.728	57.502 8	43.8 865	995. 4	995.171	500.256	0.833 054	3.9601 2	49.76 27	235.68 8	1.38 342	24.9	77.0001	473.7	102.58 9	74.30 04	79.9	24.3 962	32.8 823	402.7 87	11.87 43	209. 015	0.106 4
02:37:16 AM	156	51303 5	1403. 72	328. 432	1.01014	331.807	48.723 2	43.9 47	995. 393	994.945	396.675	0.058 071	3.5307 2	54.76 36	207.95 5	1.33 82	24.9004	71.1033	459.1 04	100.87 3	74.2	79.877 1	24.1 013	32.6	499.7 83	10.01 67	208. 072	0
02:37:17 AM	156	51303 6	1403. 3	328. 702	1.01014	331.831	48.737 4	43.9 613	995. 395	994.945	402.062	0.032 255	3.5291 9	54.71 86	206.18 3	1.36 036	24.9001	71.1006	459.1 01	100.81 4	74.2	79.895 8	24.1 002	32.6	497.0 06	9.978 63	207. 992	0.047 291
02:37:18 AM	156	51303 7	1403. 73	328. 55	1.01002	331.841	48.747 1	43.9 494	995. 395	994.945	401.475	0.131 419	3.5322 4	54.94 4	207.41	1.35 79	24.8591	71.1001	459.1	100.80 3	74.2	79.899 2	24.1	32.6	494.2 27	10.01 83	207. 861	0.106 4
02:37:19 AM	156	51303 8	1405. 2	328. 451	1.00987	331.829	48.748 6	43.9 681	995. 397	995.171	396.569	0.128 45	3.5291 9	54.67 54	206.56 1	1.36 49	24.8109	71.07	458.3 82	100.8	74.2	79.899 9	24.1	32.6	491.4 54	10.03 39	207. 68	0.079 8
02:37:20 AM	156	51303 9	1403. 71	328. 252	1.00983	331.806	48.762 3	43.9 397	995. 397	994.945	399.361	0.110 74	3.5291 9	54.55 34	206.07 3	1.34 817	24.802	70.85	458.1 52	100.8	74.2	79.9	24.1	32.6	488.6 92	9.993 4	207. 512	0.038 424
02:37:21 AM	156	51304 0	1403. 8	328. 364	1.00984	331.775	48.764 6	43.9 627	995. 398	994.945	396.135	0.138 58	3.5291 9	54.47 75	206.18 5	1.35 341	24.8004	70.8093	458.1 1	100.8	74.2	79.843	24.1	32.6	485.9 08	10.00 4	207. 351	0.106 4
02:37:22 AM	156	51304 1	1403. 37	328. 564	1.00984	331.741	48.759 7	43.9 663	995. 397	995.171	391.338	0.037 989	3.5261 3	54.59 35	206.01 3	1.36 74	24.8001	70.8017	458.1 02	100.87 5	74.2	79.808	24.1	32.6 344	483.1 19	10.03 07	207. 313	0.038 424
02:37:23 AM	156	51304 2	1403. 34	328. 731	1.00984	331.713	48.754 6	43.9 59	995. 396	994.945	400.783	0.220 143	3.5276 6	54.29 09	205.71 8	1.36 698	24.8	70.8003	458.1	100.89 5	74.2	79.801 5	24.1	32.6 878	480.3 59	10.01 22	207. 325	0.085 714
02:37:24 AM	156	51304 3	1403. 58	328. 736	1.01056	331.717	48.790 6	43.9 694	995. 396	994.945	394.546	0.212 91	3.5345 4	54.51 65	205.88 4	1.35 257	25.0382	70.8001	457.9 6	100.89 9	74.2	79.800 3	24.1	32.6 977	477.5 71	10.00 65	207. 337	0.050 25
02:37:25 AM	156	51304 4	1403. 34	328. 587	1.01072	331.757	48.807 6	43.9 757	995. 397	995.171	394.04	0.230 132	3.5375 9	55.02 17	206.22	1.35 456	25.0886	70.6628	457.8 3	100.9	74.2	79.8	24.1	32.6 996	474.7 94	10.00 28	207. 375	0.106 4
02:37:26 AM	156	51304 5	1403. 63	328. 804	1.01074	331.813	48.819 7	43.9 461	995. 398	994.945	398.141	0.130 572	3.5353	54.90 31	206.44	1.33 595	25.0979	70.6116	457.8 05	100.9	74.40 59	79.81	24.1	32.6 999	472.0 29	10.00 48	207. 359	0.008 867
02:37:27 AM	156	51304 6	1404. 01	329. 031	1.01075	331.875	48.830 3	43.9 622	995. 398	995.171	399.739	0.164 472	3.5383 6	54.77 66	206.46 2	1.35 078	25.0996	70.6022	457.8 01	100.72 9	74.48 26	79.883 3	24.1	32.7	469.2 07	10.03 74	207. 293	0.065 025
02:37:28 AM	156	51304 7	1403. 59	329. 126	1.01076	331.942	48.841 1	43.9 652	995. 398	994.945	398.854	0.108 594	3.5353	54.94 43	206.29 7	1.36 075	25.0999	70.6004	457.8	100.62 4	74.49 68	79.896 9	24.1	32.7 746	466.4 71	10.04 62	207. 275	0.106 4
02:37:29 AM	156	51304 8	1403. 55	328. 797	1.01075	332.012	48.852 3	43.9 323	995. 393	994.945	396.489	0.405 745	3.5406 5	55.25 14	206.48 9	1.34 712	25.1	70.6001	457.8	100.60 4	74.49 94	79.899 4	24.1	32.7 953	463.6 84	9.998 74	207. 267	0.050 25
02:37:30 AM	156	51304 9	1403. 15	328. 773	1.01076	332.069	48.862 3	43.9 522	995. 391	994.945	400.581	0.419 093	3.5337 7	55.31 31	206.48 5	1.33 595	25.1	70.5656	456.8 47	100.60 1	74.49 99	79.899 9	24.1	32.7 991	460.9 44	10.02 13	207. 283	0.144 828
02:37:31 AM	156	51305 0	1403. 21	328. 567	1.01075	332.106	48.861 2	43.9 383	995. 391	994.945	393.128	0.017 57	3.5322 4	55.06 2	206.55 1	1.34 721	25.1	70.5122	456.6 46	100.6	74.5	79.9	24.0 43	32.7 998	458.1 56	10.03 33	207. 347	0.106 4
02:37:32 AM	156	51305 1	1403. 25	328. 393	1.01075	332.131	48.847 6	43.9 168	995. 391	994.945	397.228	0.134 132	3.5375 9	55.04 91	206.97 5	1.35 071	25.1	70.5023	456.6 08	100.6	74.5	80.037 2	24.0 08	32.8	455.4 02	10.03 55	207. 355	0.026 601

02:37:33 AM	156	51305 2	1403. 36	328. 222	1.01076	332.146	48.824 4	43.9 465	995. 393	994.945	393.013	0.115 164	3.5383 6	54.79 08	206.28 7	1.35 429	25.1	70.5004	456.6 02	100.35 6	74.5	80.088 4	24.0 205	32.8 569	452.5 9	10.03 6	207. 392	0.192 118
02:37:34 AM	156	51305 3	1403. 36	328. 39	1.01076	332.16	48.799	43.9 493	995. 391	994.945	393.423	0.218 463	3.5406 5	54.71 85	205.86 6	1.36 277	25.1	70.5001	456.6	100.31	74.5	80.097 8	24.0 853	32.8 92	449.8 3	10.03 6	207. 504	0.106 4
02:37:35 AM	156	51305 4	1403. 23	328. 375	1.01076	332.175	48.780 6	43.9 507	995. 392	994.945	396.448	0.204 691	3.5375 9	54.83 08	206.58 7	1.36 336	25.1	70.5	456.6	100.30 2	74.5	80.099 6	24.0 179	32.8 985	447.0 59	10.04 18	207. 636	0.106 4
02:37:36 AM	156	51305 5	1403. 23	328. 612	1.01075	332.183	48.770 5	43.9 423	995. 393	995.171	396.199	0.037 5	3.5398 8	55.06 08	206.56 9	1.37 803	25.1	70.2763	456.6	100.3	74.5	80.099 9	24.0 033	32.8 997	444.3 08	10.06 02	207. 824	0.056 158
02:37:37 AM	156	51305 6	1403. 55	328. 459	1.01076	332.171	48.772 4	43.9 475	995. 393	994.945	392.194	0.108 71	3.5437	54.82 4	207.60 9	1.35 446	25.1	70.2141	456.6	100.3	74.57 94	80.1	24.0 006	32.8 999	441.5 44	10.03 17	207. 985	0.106 4
02:37:38 AM	156	51305 7	1403. 74	328. 665	1.01076	332.155	48.782 9	43.9 509	995. 39	994.945	398.797	0.025 75	3.5475 2	54.85 85	206.98 7	1.34 813	25.1	70.2026	456.6	100.49 5	74.59 62	80.1	24.0 001	32.9	438.7 47	9.985 86	208. 053	0.017 734
02:37:39 AM	156	51305 8	1403. 23	329. 122	1.01076	332.153	48.803 4	43.9 468	995. 39	994.945	392.583	0.094 09	3.5505 8	54.56 21	205.25 5	1.33 998	25.1	70.2005	456.6	100.58 1	74.59 93	80.1	24	32.9	435.9 98	10.02 23	208. 008	0.017 734
02:37:40 AM	156	51305 9	1403. 69	328. 374	1.01076	332.162	48.824 4	43.9 534	995. 39	995.171	398.642	0.008 39	3.5513 4	54.44 39	206.07 9	1.38 073	25.1	70.2001	456.5 05	100.59 6	74.59 99	80.1	24	32.9	433.2 23	10.01 87	207. 857	0.115 271
02:37:41 AM	156	51306 0	1403. 16	328. 208	1.01075	332.158	48.838 4	43.9 528	995. 394	994.945	399.667	0.278 42	3.5544	54.52 84	207.14 3	1.36 349	25.1	70.1532	456.1 75	100.59 9	74.6	80.1	24	32.9	430.5 25	10.00 04	207. 614	0.056 158
02:37:42 AM	156	51306 1	1403. 41	328. 671	1.01075	332.133	48.843 1	43.9 395	995. 392	994.945	392.376	0.019 21	3.5528 7	54.37 61	205.89 9	1.36 012	25.1	70.1098	456.1 14	100.6	74.54 3	80.1	24	32.9	427.6 27	10.01 19	207. 382	0.133 005
02:37:43 AM	156	51306 2	1403. 72	328. 544	1.01076	332.105	48.831 9	43.9 561	995. 392	994.945	395.069	0.201 07	3.5566 9	54.52 42	206.75 5	1.37 325	25.1	70.1018	456.1 03	100.49 7	74.50 8	80.1	24	32.9	424.8 89	9.988 9	207. 258	0.047 291
02:37:44 AM	156	51306 3	1403. 7	328. 636	1.01075	332.09	48.819 2	43.9 449	995. 395	995.171	398.569	0.052 36	3.5528 7	54.36 53	206.27 8	1.36 447	25.1	70.1003	456.1	100.33 6	74.50 15	80.1	24	32.9	422.1 29	10.00 54	207. 163	0.106 4
02:37:45 AM	156	51306 4	1403. 48	328. 765	1.01075	332.094	48.816 3	43.9 549	995. 393	994.945	396.672	0.157 29	3.5482 9	54.66 28	206.87 7	1.35 76	25.1	70.1001	456.1	100.30 7	74.50 03	80.1	24	32.9	419.3 35	10.00 36	207. 13	0.047 291
02:38:49 AM	156	51312 8	1208. 52	310. 266	1.00986	313.477	39.695 3	43.9 972	995. 388	994.945	310.79	0.420 66	3.0516 5	55.23 96	179.63	1.36 682	24.8	64.9005	442.4 01	99.3	73.90 1	79.8	24.1 278	32.8 229	269.5 49	8.267 46	210. 158	0.106 4
02:38:50 AM	156	51312 9	1208. 47	310. 35	1.00985	313.455	39.694 2	43.9 809	995. 389	995.171	309.519	0.507 09	3.0539 4	55.02 59	178.92 6	1.36 293	24.8	64.9001	442.4	99.3	73.90 02	79.8	24.1 621	32.8 042	267.3 09	8.255 15	210. 226	0
02:38:51 AM	156	51313 0	1208. 67	310. 048	1.00984	313.43	39.682 7	43.9 686	995. 393	994.945	318.917	0.480 34	3.0592 9	55.03 64	177.67 2	1.40 015	24.8	64.7969	442.1 62	99.3	73.9	79.8	24.1 93	32.8 008	264.9 97	8.277 52	210. 281	0.212 808
02:38:52 AM	156	51313 1	1208. 48	310. 436	1.00985	313.423	39.670 6	43.9 664	995. 394	994.945	311.864	0.499 28	3.0585 3	54.87 67	177.62 4	1.40 747	24.8	64.6365	442.1 11	99.3	73.9	79.8	24.1 987	32.8 001	262.7 4	8.208 9	210. 308	0.106 4
02:38:53 AM	156	51313 2	1208. 39	310. 726	1.00985	313.441	39.660 9	43.9 856	995. 393	994.945	310.011	0.540 49	3.0547 1	54.78 69	177.77 2	1.40 571	24.8	64.6068	442.1 02	99.3	73.9	79.731 4	24.1 998	32.8	260.4 52	8.233 64	210. 242	0.115 271
02:38:54 AM	156	51313 3	1208. 64	310. 621	1.00985	313.472	39.660 7	43.9 787	995. 393	994.945	312.419	0.590 65	3.0631 1	54.21 5	177.67 5	1.38 373	24.8	64.6012	442.1	99.3	73.9	79.705 8	24.2	32.8 57	258.1 66	8.278 02	210. 14	0.106 4
02:38:55 AM	156	51313 4	1208. 42	310. 762	1.00985	313.507	39.672 6	43.9 725	995. 393	994.945	304.49	0.650 87	3.0615 8	54.35 38	176.84	1.36 559	24.8	64.6002	442.1	99.3	73.9	79.701 1	24.2	32.8 92	255.8 95	8.271 05	210. 053	0.106 4
02:38:56 AM	156	51313 5	1208. 55	310. 604	1.00985	313.527	39.686 1	43.9 763	995. 393	994.945	313.169	0.596 11	3.0631 1	54.63 34	176.92 7	1.39 686	24.8	64.6	441.5 14	99.3	73.9	79.700 2	24.2	32.8 985	253.5 56	8.238 77	209. 952	0.162 562
02:38:57 AM	156	51313 6	1208. 61	310. 61	1.00985	313.543	39.699	43.9 87	995. 392	994.945	319.047	0.466 8	3.0638 8	54.39	176.58 6	1.40 945	24.8	64.5206	441.2 58	99.3	73.9	79.7	24.2	32.8 997	251.3 68	8.212 67	209. 97	0.106 4
02:38:58 AM	156	51313 7	1208. 46	309. 992	1.00984	313.56	39.695 7	43.9 649	995. 393	994.945	317.361	0.569 55	3.0661 7	54.30 65	177.18 9	1.42 101	24.8	64.5038	441.2 11	99.3	73.82 06	79.7	24.2	32.8 999	249.0 39	8.210 27	209. 95	0.106 4
02:38:59 AM	156	51313 8	1207. 98	310. 077	1.00985	313.565	39.683 6	43.9 749	995. 393	995.171	312.018	0.398 52	3.0722 8	53.90 51	177.73 7	1.38 486	24.8	64.5007	441.2 02	99.231 4	73.80 38	79.7	24.2	32.9	246.7 31	8.213 48	209. 804	0.047 291

02:39:00 AM	156	51313 9	1208. 26	310. 435	1.00984	313.549	39.671 2	43.9 767	995. 396	994.945	316.783	0.561 56	3.0692 2	54.03 01	177.61 3	1.40 562	24.8	64.5001	441.2	99.205 8	73.80 07	79.7	24.2	32.9	244.4 55	8.207 94	209. 582	0.106 4
02:39:01 AM	156	51314 0	1208. 42	310. 245	1.00985	313.524	39.656 1	43.9 771	995. 394	994.945	315.924	0.416 42	3.0684 6	53.64 75	177.51 8	1.41 351	24.8	64.5	441.0 63	99.201 1	73.80 01	79.7	24.2	32.9	242.2 3	8.218 47	209. 335	0.026 601
02:39:02 AM	156	51314 1	1208. 65	310. 544	1.00985	313.502	39.654 6	43.9 772	995. 394	994.945	312.072	0.510 7	3.0692 2	53.66 47	177.01 3	1.38 246	24.8	64.3775	440.8 49	99.200 2	73.8	79.7	24.2	32.9	239.9 3	8.229 25	209. 176	0.094 581
02:39:03 AM	156	51314 2	1208. 43	310. 402	1.00986	313.504	39.658 7	43.9 909	995. 39	994.945	309.674	0.487 65	3.0684 6	53.74 2	176.89 3	1.38 358	24.8	64.3144	440.8 09	99.2	73.8	79.7	24.2	32.9	237.6 6	8.257 11	209. 167	0.106 4
02:39:04 AM	156	51314 3	1208. 29	310. 165	1.00985	313.516	39.663	43.9 797	995. 391	994.945	312.508	0.544 18	3.0722 8	53.75 6	177.05 2	1.42 287	24.8	64.3027	440.8 02	99.159 1	73.8	79.7	24.2	32.9	235.2 83	8.221 16	209. 287	0.106 4
02:39:05 AM	156	51314 4	1208. 707	309. 707	1.00985	313.523	39.660 1	43.9 776	995. 39	994.945	309.482	0.589 69	3.0761	53.80 66	176.08 5	1.38 836	24.8	64.3005	440.8	99.110 9	73.8	79.7	24.2	32.8 282	233.0 53	8.178 43	209. 403	0.106 4
02:39:06 AM	156	51314 5	1208. 23	309. 834	1.00985	313.505	39.649 7	43.9 773	995. 389	994.945	321.926	0.519 56	3.0745 7	53.92 87	176.51 6	1.37 674	24.8	64.3001	440.8	99.102	73.8	79.7	24.2	32.8 052	230.7 81	8.227 76	209. 463	0.026 601
02:39:07 AM	156	51314 6	1208. 69	310. 243	1.00985	313.462	39.636 8	43.9 772	995. 389	994.945	306.381	0.507 28	3.0753 4	53.35 68	176.31 4	1.35 584	24.8	64.2458	440.0 54	99.100 4	73.8	79.7	24.2	32.8 01	228.5 19	8.244 12	209. 468	0.106 4
02:39:08 AM	156	51314 7	1208. 32	310. 488	1.00985	313.411	39.625 5	43.9 772	995. 389	994.945	319.237	0.560 73	3.0592 9	53.48 32	175.63 4	1.37 097	24.8	64.127	439.8 47	99.100 1	73.87 6	79.7	24.2	32.8 002	226.2 72	8.225 79	209. 432	0.106 4
02:39:09 AM	156	51314 8	1208. 52	310. 153	1.00985	313.369	39.625 3	43.9 772	995. 391	994.945	310.862	0.543 1	3.0753 4	53.50 47	176.63 5	1.41 971	24.8	64.105	439.8 09	99.1	74.14	79.7	24.2	32.8	224.0 09	8.236 53	209. 464	0.047 291
02:39:10 AM	156	51314 9	1208. 13	310. 375	1.00986	313.329	39.633 9	44.0 02	995. 391	994.945	313.978	0.556 5	3.0585 3	53.20 31	175.99 8	1.42 686	24.8	64.1009	439.8 02	98.702 9	74.18 89	79.7	24.2	32.7 063	221.6 95	8.277 66	209. 594	0.106 4
02:39:11 AM	156	51315 0	1208. 92	309. 87	1.00986	313.285	39.633 7	43.9 818	995. 387	994.945	309.857	0.657 58	3.0753 4	53.07 49	176.14	1.40 326	24.8	64.1002	439.8	98.619 1	74.19 79	79.7	24.2	32.6 197	219.4 07	8.254 12	209. 795	0.106 4
02:39:12 AM	156	51315 1	1208. 64	310. 333	1.0106	313.258	39.661 3	43.9 78	995. 387	994.945	309.91	0.618 75	3.0753 4	52.82 21	175.60 7	1.37 842	25.0444	64.1	439.6 13	98.603 5	74.19 96	79.7	24.2	32.6 036	217.1 2	8.228 43	210. 210	0.133 005
02:39:13 AM	156	51315 2	1208. 66	310. 443	1.01074	313.26	39.667 2	43.9 773	995. 385	994.945	308.931	0.450 75	3.0806 8	52.82 77	175.50 2	1.41 404	25.0897	63.9565	439.4 39	98.600 7	74.19 99	79.7	24.2	32.6 007	214.8 48	8.225 59	210. 136	0.106 4
02:39:14 AM	156	51315 3	1208. 46	309. 897	1.01077	313.285	39.672 8	43.9 772	995. 385	994.945	311.762	0.445 73	3.0806 8	52.66 72	175.59 7	1.38 721	25.0981	63.9105	439.4 07	98.600 1	74.12 82	79.727 1	24.2	32.6 001	212.4 43	8.329 55	210. 188	0.008 867
02:39:15 AM	156	51315 4	1208. 16	309. 75	1.01078	313.296	39.679 4	43.9 924	995. 384	994.945	305.607	0.551 16	3.0783 9	52.77 74	175.10 1	1.37 442	25.0996	63.9019	439.4 01	98.6	74.10 52	79.786 5	24.2	32.6	210.2 03	8.337 77	210. 27	0.106 4
02:39:16 AM	156	51315 5	1208. 54	309. 724	1.01077	313.279	39.676 9	43.9 8	995. 385	994.945	320.687	0.486 96	3.0814 5	52.46 6	175.85	1.37 512	25.0999	63.9004	439.4	98.6	74.10 1	79.797 5	24.2	32.6	207.9 2	8.294 64	210. 473	0.026 601
02:39:17 AM	156	51315 6	1208. 74	310. 044	1.01019	313.243	39.640 6	43.9 777	995. 387	994.945	308.399	0.529 32	3.0822 1	52.57 4	175.42 9	1.40 055	24.9046	63.9001	439.3 4	98.6	74.10 02	79.799 5	24.2	32.6	205.6 96	8.284 41	210. 828	0.106 4
02:39:18 AM	156	51315 7	1208. 2	309. 902	1.00992	313.213	39.611 1	43.9 845	995. 388	994.945	321.385	0.462 13	3.0913 8	52.75 43	175.06 8	1.42 014	24.8194	63.8532	438.9	98.6	74.1	79.799 9	24.2	32.6	203.3 88	8.323 79	211. 287	0.106 4
02:40:38 AM	156	51323 7	1010. 31	276. 258	1.01075	279.96	29.500 7	43.9 089	995. 386	994.945	194.922	0.107 911	2.5412 6	52.35 6	148.82	1.47 088	25.1	57.0022	413.7 05	96.415 2	74.2	79.83	24.5 928	32.6	324.6 64	6.200 77	212. 94	0.106 4
02:40:39 AM	156	51323 8	1012. 02	276. 375	1.01075	279.947	29.629 9	43.9 133	995. 386	994.945	182.731	0.297 938	2.5374 4	52.26 86	148.76 2	1.36 819	25.1	57.0004	413.7 01	96.239 9	74.2	79.805 6	24.5 987	32.4 458	322.9 1	6.194 31	212. 724	0
02:40:40 AM	156	51323 9	1010. 39	276. 157	1.01074	279.819	29.606 9	43.8 968	995. 384	994.718	204.115	0.263 295	2.5412 6	52.55 25	148.45 1	1.48 276	25.1	57.0001	413.7	96.207 4	74.2	79.801	24.5 998	32.4 085	321.2 09	6.210 6	212. 509	0.065 025
02:40:41 AM	156	51324 0	1016. 67	274. 854	1.01075	279.629	29.592 7	43.9 015	995. 384	994.718	190.841	0.110 408	2.5947 4	51.48 07	149.24	1.38 562	25.1	56.8594	412.8 85	96.201 4	74.2	79.800 2	24.6	32.4 016	319.4 62	6.214 06	212. 32	0.106 4
02:40:42 AM	156	51324 1	1022. 23	277. 386	1.01074	279.45	29.600 6	43.8 935	995. 384	994.718	201.984	0.050 24	2.5527 2	52.16 47	148.91 2	1.50 02	25.1	56.7295	412.7 34	96.200 3	74.15 9	79.8	24.6	32.4 003	317.7 42	6.230 23	212. 169	0.085 714

02:40:43 AM	156	51324 2	1017. 55	275. 396	1.01074	279.304	29.639 4	43.8 871	995. 384	994.718	191.528	0.139 577	2.5985 6	51.21 76	149.69	1.36 139	25.1	56.7055	412.7 06	96.200 1	74.11 09	79.8	24.6	32.4 001	315.9 76	6.219 19	212. 103	0.085 714
02:40:44 AM	156	51324 3	1017. 29	276. 371	1.01074	279.22	29.687 4	43.8 955	995. 384	994.718	195.975	0.037 956	2.6000 9	51.33 82	150.65 8	1.47 436	25.1	56.701	412.7 01	96.2	74.10 2	79.8	24.6	32.4	314.2 43	6.250 29	212. 018	0.106 4
02:40:45 AM	156	51324 4	1013. 86	278. 578	1.01074	279.24	29.726	43.8 85	995. 384	994.945	184.187	0.248 025	2.5489	51.41 78	148.07 6	1.37 126	25.1	56.7002	412.7	96.2	74.10 04	79.8	24.6	32.4	312.5 38	6.272 43	211. 962	0.047 291
02:40:46 AM	156	51324 5	1014. 76	275. 043	1.01075	279.374	29.736 8	43.9 034	995. 381	994.945	184.224	0.019 626	2.6031 5	51.20 85	149.25 4	1.49 849	25.1	56.7	412.3 94	96.2	74.10 01	79.8	24.6	32.4	310.8 1	6.253 75	212. 015	0.106 4
02:40:47 AM	156	51324 6	1011. 76	278. 727	1.01075	279.433	29.758 3	43.9 126	995. 381	994.718	208.574	0.242 235	2.5259 8	51.52	147.60 1	1.50 488	25.1	56.6206	412.2 36	96.2	74.1	79.8	24.6	32.4	309.0 59	6.252 93	212. 114	0.106 4
02:40:48 AM	156	51324 7	1008. 69	277. 682	1.01076	279.457	29.734 6	43.9 117	995. 381	994.945	203.193	0.050 39	2.5573	51.33 85	148.65 2	1.39 056	25.1	56.6038	412.2 07	96.2	73.93 71	79.8	24.6	32.4	307.3 51	6.249 63	212. 324	0.008 867
02:40:49 AM	156	51324 8	1017. 97	276. 98	1.01075	279.468	29.730 9	43.8 954	995. 381	994.945	195.145	0.142 74	2.5741 1	51.40 21	148.33 6	1.50 73	25.1	56.6007	412.2 01	96.131 4	73.90 69	79.8	24.6	32.4	305.5 91	6.252 31	212. 537	0.106 4
02:40:50 AM	156	51324 9	1015. 63	276. 774	1.01075	279.471	29.733 9	43.9 015	995. 381	994.718	206.029	0.241 923	2.5916 9	51.17 37	148.61 9	1.36 786	25.1	56.6001	412.2	96.105 8	73.90 13	79.8	24.6	32.4	303.8 58	6.257 04	212. 591	0.106 4
02:40:51 AM	156	51325 0	1009. 69	277. 548	1.01076	279.504	29.719 5	43.9 12	995. 381	994.945	200.517	0.592 17	2.5382	51.63 71	147.19 7	1.48 509	25.1	56.6	412.0 37	96.101 1	73.90 02	79.8	24.6	32.4	302.1 73	6.269 72	212. 641	0.133 005
02:40:52 AM	156	51325 1	1007. 84	275. 904	1.01075	279.549	29.721 9	43.9 072	995. 381	994.718	181.138	0.582 07	2.5473 7	51.49 24	147.11 8	1.35 953	25.1	56.5387	411.6 81	96.100 2	73.9	79.8	24.6	32.4	300.4 3	6.263 09	212. 679	0.106 4
02:40:53 AM	156	51325 2	1015. 79	276. 412	1.01075	279.577	29.702 2	43.9 048	995. 381	994.718	192.648	0.371 412	2.5702 9	51.33 1	148.21 9	1.48 837	25.1	56.5072	411.6 15	96.1	74.01 39	79.8	24.6	32.4	298.7 57	6.270 94	212. 755	0.011 82
02:40:54 AM	156	51325 3	1010. 53	277. 607	1.01075	279.601	29.660 3	43.8 983	995. 381	994.945	193.795	0.452 492	2.5603 6	51.45 26	147.63 5	1.38 992	25.1	56.5013	411.6 03	96.1	74.08 4	79.720 6	24.6	32.4	297.0 11	6.282 07	212. 975	0.106 4
02:40:55 AM	156	51325 4	1010. 38	276. 871	1.01075	279.646	29.624 2	43.9 065	995. 381	994.718	203.139	0.347 074	2.5878 7	51.07 53	148.53 7	1.49 32	25.1	56.5002	411.6 01	96.1	74.09 7	79.703 8	24.6	32.3 349	295.2 61	6.239 07	213. 295	0.106 4
02:40:56 AM	156	51325 5	1013. 94	276. 888	1.01047	279.691	29.620 7	43.8 914	995. 381	994.945	198.626	0.007 331	2.6123 2	50.64 62	148.84 5	1.40 88	25.0063	56.5	411.6	96.1	74.09 94	79.700 7	24.6 1	32.3 065	293.4 73	6.223 67	213. 493	0.076 847
02:40:57 AM	156	51325 6	1017. 5	277. 449	1.01021	279.725	29.654 7	43.9 242	995. 382	994.945	209.267	0.367 106	2.5916 9	50.76 29	147.01 2	1.45 185	24.9197	56.3916	411.0 98	96.1	74.09 99	79.700 1	24.6 833	32.3 012	291.7 91	6.244 52	213. 532	0
02:40:58 AM	156	51325 7	1016. 97	277. 901	1.01016	279.752	29.715 6	43.9 296	995. 382	994.718	187.164	0.215 032	2.5657 1	51.05 6	148.03 2	1.38 868	24.9037	56.154	410.9 37	96.1	74.12 71	79.7	24.6 175	32.3 002	290.0 39	6.204 06	213. 239	0.085 714
02:40:59 AM	156	51325 8	1018. 19	275. 011	1.01015	279.782	29.792	43.9 25	995. 382	994.718	175.498	0.505 871	2.6000 9	50.72 76	148.14 2	1.49 294	24.9007	56.11	410.9 07	96.1	74.18 65	79.757	24.6 032	32.3	288.3 63	6.245 93	212. 581	0.106 4
02:41:00 AM	156	51325 9	1014. 9	275. 004	1.01015	279.728	29.786 4	43.9 215	995. 382	994.718	196.734	0.266 818	2.5985 6	50.60 35	148.72 7	1.35 133	24.9001	56.1019	410.9 01	95.941 2	74.19 75	79.792	24.6 006	32.3	286.6 84	6.238 23	211. 972	0.079 8
02:41:01 AM	156	51326 0	1020. 27	274. 463	1.01014	279.646	29.724 3	43.9 025	995. 382	994.718	192.505	0.121 25	2.6191 9	50.36 19	148.88 8	1.42 446	24.9	56.1003	410.9	95.907 6	74.19 95	79.798 5	24.6 001	32.3	284.9 04	6.242 53	211. 611	0.038 424
02:41:02 AM	156	51326 1	1011. 16	275. 908	1.01015	279.514	29.633 4	43.9 368	995. 382	994.718	191.597	0.274 65	2.5924 5	50.56 19	148.15 5	1.36 033	24.9	56.1001	410.5 25	95.901 4	74.19 99	79.799 7	24.6	32.3	283.1 8	6.237 75	211. 646	0.106 4
02:41:03 AM	156	51326 2	1013. 68	275. 219	1.01015	279.424	29.549 3	43.9 436	995. 382	994.718	195.443	0.055 625	2.6123 2	50.65 61	148.72 7	1.51 867	24.9	55.8942	410.1 79	95.900 3	74.2	79.799 9	24.6	32.3	281.4 39	6.219 54	212. 121	0.026 601
02:41:04 AM	156	51326 3	1013. 77	276. 205	1.01016	279.336	29.551 8	43.9 603	995. 382	994.945	208.947	0.059 204	2.6115 5	50.24 03	148.84 7	1.35 936	24.9	55.8174	410.1 15	95.9	74.2	79.781	24.6	32.3	279.7 47	6.210 34	212. 573	0.067 98
02:41:05 AM	156	51326 4	1014. 72	277. 749	1.01014	279.297	29.570 6	43.9 062	995. 382	994.718	205.181	0.166 79	2.6046 8	50.55 53	148.26 8	1.47 914	24.9	55.8032	410.1 03	95.847 8	74.2	79.715	24.6	32.3	277.9 11	6.229 65	212. 826	0.059 11
02:41:06 AM	156	51326 5	1021. 29	279. 564	1.01015	279.372	29.658 4	43.9 375	995. 382	994.945	209.375	0.277 985	2.5741 1	50.48 95	147.92 5	1.35 276	24.9	55.8006	410.1	95.808 9	74.2	79.702 8	24.6	32.3 794	276.2 07	6.250 06	212. 768	0.106 4
02:41:07 AM	156	51326 6	1014. 32	275. 339	1.01015	279.521	29.737 3	43.9 473	995. 382	994.718	212.607	0.270 974	2.6077 3	50.66 6	147.80 1	1.51 538	24.9	55.8001	410.1	95.801 6	74.2	79.700 5	24.6	32.3 962	274.5 93	6.226 93	212. 4	0.106 4

02:42:46 AM	156	51336 5	1604. 24	280. 146	1.0099	281.871	47.326 9	44.0 366	995. 369	994.718	370.001	1.043 05	4.2657 4	34.72 09	217.79 9	1.35 347	24.8	62.4999	406.6	95.1	75.7	80.2	24.5	32.4	365.3 74	9.747 94	170. 93	0.056 158
02:42:47 AM	156	51336 6	1603. 03	280. 624	1.00988	281.837	47.347 6	43.9 882	995. 367	994.718	374.357	1.078 14	4.2672 7	34.48 98	218.88 2	1.35 917	24.8	62.5	406.9 59	95.1	75.7	80.2	24.5	32.4	362.6 69	9.751 01	193. 355	0.106 4
02:42:48 AM	156	51336 7	1603. 56	280. 675	1.0099	281.852	47.396 7	44.0 342	995. 367	994.718	369.13	0.935 22	4.2672 7	34.28 48	218.41 2	1.34	24.8	62.5	407.0 74	95.1	75.7	80.2	24.5	32.4	360.0 14	9.760 03	205. 036	0.106 4
02:42:49 AM	156	51336 8	1603. 83	280. 771	1.00989	281.916	47.466 3	44.0 095	995. 369	994.718	366.633	0.790 713	4.2733 8	34.84 54	218.77 3	1.35 971	24.8	62.5	407.0 95	95.1	75.7	80.2	24.5	32.4	357.2 56	9.769 13	207. 589	0.038 424
02:42:50 AM	156	51336 9	1603. 54	281. 286	1.00989	282.036	47.534 3	44.0 165	995. 369	994.718	367.686	0.994 092	4.2665 71	35.07 71	219.95 5	1.37 699	24.8	62.5	407.0 99	95.1	75.7	80.2	24.5	32.4	354.4 9	9.788 44	207. 776	0.106 4
02:42:51 AM	156	51337 0	1602. 75	280. 412	1.00988	282.211	47.585 4	43.9 903	995. 371	994.718	366.342	1.012 17	4.2611 6	35.42 7	218.69 2	1.36 508	24.8	62.5	407.1	95.1	75.7	80.2	24.5	32.4	351.7 84	9.792 29	207. 616	0.106 4
02:42:52 AM	156	51337 1	1602. 64	279. 549	1.00987	282.405	47.600 7	43.9 796	995. 373	994.718	367.221	0.889 572	4.2642 1	35.32 61	220.29 1	1.37 439	24.8	62.5	406.9 13	95.1	75.7	80.2	24.5	32.4	349.0 4	9.784 9	207. 485	0.047 291
02:42:53 AM	156	51337 2	1602. 19	279. 408	1.00988	282.546	47.573	44.0 033	995. 373	994.718	373.905	1.112 78	4.2626 8	35.75 78	219.98 4	1.37 673	24.8	62.5686	406.7 39	95.1	75.7	80.2	24.5	32.4	346.3 49	9.796 07	207. 497	0.106 4
02:42:54 AM	156	51337 3	1602. 77	279. 365	1.00988	282.618	47.514 2	43.9 983	995. 374	994.718	373.241	1.218 04	4.2619 2	35.57 81	219.37 2	1.37 486	24.8	62.5942	406.7 07	95.1	75.7	80.2	24.5	32.4	343.6 35	9.789 71	207. 643	0.050 25
02:42:55 AM	156	51337 4	1602. 76	279. 515	1.00989	282.653	47.449 5	44.0 291	995. 374	994.718	365.116	1.187 95	4.2649 8	35.56 23	220.91 9	1.36 579	24.8	62.5989	406.7 01	95.157	75.7	80.2	24.5	32.4	340.9 1	9.820 06	207. 875	0.106 4
02:42:56 AM	156	51337 5	1602. 45	279. 093	1.00988	282.672	47.394 8	44.0 237	995. 376	994.718	366.86	1.137 22	4.2649 8	35.88 19	219.58	1.36 496	24.8	62.5998	406.7	95.192	75.7	80.2	24.5	32.4	338.1 8	9.825 69	208. 207	0.106 4
02:42:57 AM	156	51337 6	1602. 26	278. 969	1.00988	282.683	47.361 7	43.9 957	995. 376	994.718	370.228	1.182 31	4.2611 6	36.26 54	220.47 5	1.35 763	24.8	62.6	406.7	95.198 5	75.7	80.2	24.5	32.4	335.4 65	9.826 73	208. 576	0.088 67
02:42:58 AM	156	51337 7	1602. 87	279. 111	1.00988	282.687	47.344 7	44.0 048	995. 377	994.718	374.887	1.212 75	4.2726 2	36.69 04	221.24 3	1.38 089	24.8	62.6	407.0 26	95.199 7	75.7	80.2	24.5	32.4	332.7 29	9.803 43	208. 91	0.106 4
02:42:59 AM	156	51337 8	1602. 78	279. 164	1.00989	282.669	47.325 6	44.0 224	995. 377	994.718	369.544	1.160 83	4.2642 1	37.28 83	220.89	1.36 172	24.8	62.6	407.0 86	95.2	75.79 37	80.2	24.5	32.4	330.0 54	9.839 18	209. 217	0.017 734
02:43:00 AM	156	51337 9	1603. 8	279. 431	1.00987	282.612	47.316 8	43.9 898	995. 377	994.718	373.401	1.167 22	4.2695 6	37.02 06	221.79	1.38 182	24.8	62.6	407.0 97	95.22	75.88 03	80.2	24.5	32.4	327.3 18	9.809 21	209. 434	0.106 4
02:43:01 AM	156	51338 0	1603. 08	280. 035	1.00987	282.531	47.326 1	43.9 795	995. 377	994.718	365.427	0.959 604	4.2649 8	37.26 25	221.65 6	1.37 598	24.8	62.6	407.1	95.366 6	75.89 63	80.2	24.5	32.4	324.5 75	9.805 56	209. 527	0.106 4
02:43:02 AM	156	51338 1	1602. 89	280. 127	1.00987	282.452	47.353 6	43.9 776	995. 377	994.718	365.906	0.908 379	4.2642 1	37.67 23	221.16 1	1.36 35	24.8	62.6	407.1	95.393 8	75.89 93	80.2	24.5	32.4	321.9 45	9.840 01	209. 534	0.026 601
02:43:03 AM	156	51338 2	1602. 94	279. 841	1.00987	282.379	47.393 2	43.9 773	995. 377	994.718	370.534	0.927 241	4.2649 8	37.70 45	222.92 3	1.37 614	24.8	62.6	407.2 84	95.398 9	75.89 99	80.2	24.5	32.4	319.2 3	9.783 62	209. 473	0.106 4
02:43:04 AM	156	51338 3	1603. 45	279. 723	1.00987	282.3	47.423 1	43.9 772	995. 377	994.718	378.854	1.018 14	4.2649 8	37.45 53	222.28 7	1.37 237	24.8	62.6	407.3 78	95.399 8	75.9	80.2	24.5	32.4	316.4 37	9.829 46	209. 298	0.047 291
02:43:05 AM	156	51338 4	1603. 46	280. 255	1.00988	282.243	47.443	44.0 014	995. 377	994.718	368.664	1.031 06	4.2649 8	38.16 23	222.53 3	1.36 513	24.8	62.6	407.3 96	95.4	75.9	80.2	24.6	32.4	313.7 29	9.801 45	209. 157	0.047 291
02:43:06 AM	156	51338 5	1603. 45	280. 121	1.00989	282.255	47.458	44.0 377	995. 377	994.718	366.657	1.102 88	4.2695 6	37.96 19	222.20 2	1.36 372	24.8	62.6	407.3 99	95.194 1	75.9	80.2	24.6	32.3	311.0 24	9.769 33	208. 987	0.106 4
02:43:07 AM	156	51338 6	1603. 39	280. 35	1.00988	282.313	47.471 1	44.0 014	995. 378	994.718	366.785	0.981 46	4.2680 3	38.69 08	221.83 7	1.38 006	24.8	62.6	407.4	95.117 4	75.9	80.2	24.6	32.2	308.2 3	9.775 8	208. 764	0.124 138
02:43:08 AM	156	51338 7	1603. 45	280. 658	1.00987	282.383	47.493	43.9 817	995. 377	994.718	376.811	1.028 22	4.2649 8	38.64 31	223.22 5	1.36 06	24.8	62.6	407.4 54	95.103 2	75.9	80.2	24.6	32.2	305.6 08	9.808 46	208. 574	0.106 4
02:43:09 AM	156	51338 8	1603. 52	280. 663	1.00987	282.469	47.519 1	43.9 78	995. 377	994.718	363.997	0.920 157	4.2603 9	38.84 73	223.53 2	1.36 621	24.8	62.7225	407.5 73	95.100 6	75.9	80.2	24.6	32.2	302.8 61	9.814 36	208. 352	0.106 4
02:43:10 AM	156	51338 9	1618. 33	276. 979	1.00987	282.572	47.570 2	43.9 773	995. 376	994.718	370.769	1.187 09	4.3283 9	37.81 34	226.85 5	1.36 567	24.8	62.7856	407.5 95	95.100 1	75.9	80.2	24.6	32.2	300.1 16	9.818 82	208. 166	0.076 847

02:43:11 AM	156	51339 0	1688.48	266.235	1.00988	282.503	47.8845	43.9883	995.374	994.416	381.176	2.45613	4.4537	34.3823	236.162	1.37056	24.8	62.7973	407.599	95.2032	75.9	80.2	24.6	32.2	297.408	9.82795	207.93	0.1064
02:43:12 AM	156	51339 1	1768.34	254.058	1.00989	281.92	48.4857	44.0132	995.374	994.718	384.393	3.39087	4.57442	31.0928	248.146	1.3708	24.8	62.7995	407.6	95.3635	75.9	80.2	24.6	32.3	294.611	9.83459	207.244	0.1064
02:43:13 AM	156	51339 2	1810.57	240.24	1.00988	280.451	48.9668	44.007	995.373	994.718	375.904	3.76427	4.6088	29.487	253.944	1.36814	24.8	62.7999	407.6	95.3932	75.9	80.2	24.6	32.3	291.926	9.86335	206.066	0.162562
02:43:14 AM	156	51339 3	1874.88	210.537	1.00988	277.89	49.1065	43.9964	995.372	994.718	356.819	3.78035	4.72647	26.148	264.147	1.35276	24.8	62.819	406.308	95.3988	75.9	80.2	24.6	32.3	289.473	9.8255	204.572	0.1064
02:43:15 AM	156	51339 4	1935.72	176.344	1.00987	273.573	48.2325	43.9807	995.372	994.416	331.306	3.4039	4.81204	22.2663	271.154	1.3504	24.8	62.885	405.894	95.3998	75.9	80.2	24.6	32.3	287.186	9.68972	203.693	0.144828
02:45:05 AM	156	51350 4	2014.35	250.092	1.00985	250.998	53.1078	43.951	995.377	994.718	481.831	5.58142	4.77231	36.1638	299.42	1.36625	24.7982	70.47	410.9	96.3998	76.09	80.1	25	32.3	578.823	11.2875	212.189	0.1064
02:45:06 AM	156	51350 5	2014.84	251.134	1.00986	251.02	53.1399	43.9632	995.377	994.718	483.307	5.8275	4.77919	36.7921	299.698	1.35177	24.7997	70.4944	410.9	96.4	76.0167	80.043	25	32.3	575.75	11.2959	212.818	0.1064
02:45:07 AM	156	51350 6	2014.24	249.668	1.00985	251.146	53.186	43.9348	995.377	994.416	484.227	5.71317	4.78148	36.75	301.443	1.33129	24.7999	70.499	410.9	96.3229	76.0031	80.008	25	32.3	572.69	11.2529	213.379	0.1064
02:45:08 AM	156	51350 7	2014.29	249.349	1.00986	251.355	53.2365	43.9693	995.379	994.718	481.212	5.76317	4.77155	37.0158	300.826	1.35155	24.8	70.4998	410.9	96.3042	76.0006	80.0015	25	32.3	569.483	11.2258	213.737	0.1064
02:45:09 AM	156	51350 8	2015.19	247.644	1.00962	251.534	53.2299	43.9591	995.379	994.718	482.775	5.81047	4.78071	36.1886	300.865	1.35207	24.7206	70.5	411.064	96.3008	76.0001	80.0003	25	32.3	566.374	11.2421	213.816	0.1064
02:45:10 AM	156	51350 9	2013.57	247.469	1.00956	251.613	53.1599	43.928	995.379	994.718	477.328	5.82045	4.77307	36.4126	300.42	1.33462	24.7038	70.5651	411.256	96.3001	76	80.0001	25	32.3	563.3	11.2929	213.747	0.076847
02:45:11 AM	156	51351 0	2014.63	247.003	1.00955	251.582	53.0184	43.9551	995.379	994.718	478.297	5.63291	4.7662	36.5535	300.409	1.33982	24.7007	70.5935	411.292	96.3	76	80.01	25	32.3	560.208	11.2776	213.764	0.0798
02:45:12 AM	156	51351 1	2014.39	249.047	1.00955	251.494	52.8706	43.9512	995.379	994.718	480.046	5.66651	4.77002	37.0577	300.716	1.3308	24.7001	70.5988	411.298	96.2532	76	80.0833	25	32.4	557.136	11.2705	214.037	0.026601
02:45:13 AM	156	51351 2	2016.2	249.198	1.00956	251.426	52.7975	43.9578	995.377	994.718	477.032	5.75943	4.76849	36.9613	299.507	1.3599	24.7	70.5998	411.3	96.2098	76	80.0969	25.0651	32.4	553.942	11.2692	214.513	0.1064
02:45:14 AM	156	51351 3	2014.54	250.011	1.00956	251.43	52.8275	43.9673	995.372	994.718	479.102	5.80098	4.7746	37.2546	300.486	1.3319	24.7	70.6	411.3	96.2018	76	80.0994	25.0935	32.4	550.891	11.2822	215.04	0.05911
02:45:15 AM	156	51351 4	2013.61	248.486	1.00957	251.459	52.9264	43.9735	995.371	994.718	475.841	5.81264	4.77155	37.1488	300.268	1.33323	24.7	70.6	411.618	96.2003	76	80.0999	25.0988	32.4	547.751	11.248	215.315	0.038424
02:45:16 AM	156	51351 5	2013.2	246.42	1.00956	251.433	53.0009	43.945	995.371	994.718	470.822	5.70141	4.77155	37.2791	299.736	1.33156	24.7	70.6	411.685	96.2001	76	80.1	25.0998	32.4	544.69	11.2239	215.252	0.06798
02:45:17 AM	156	51351 6	2014.69	245.452	1.00955	251.294	52.9729	43.9371	995.371	994.718	473.594	5.61085	4.76773	37.2163	300.89	1.32877	24.7	70.6	411.697	96.22	76	80.1	25.1	32.4	541.595	11.2228	214.951	0.08867
02:45:18 AM	156	51351 7	2014.14	246.508	1.00956	251.044	52.8181	43.9599	995.371	994.718	476.2	5.6818	4.77307	37.4526	299.852	1.33019	24.7	70.6	411.699	96.3666	76	80.1	25.0254	32.5139	538.552	11.2251	214.699	0.1064
02:45:19 AM	156	51351 8	2013.95	246.856	1.00956	250.737	52.6288	43.954	995.369	994.718	481.037	5.59548	4.76925	37.308	300.676	1.32655	24.7	70.6	411.7	96.3938	76	80.1	25.0047	32.584	535.423	11.2323	214.685	0.02069
02:45:20 AM	156	51351 9	2013.55	246.282	1.00956	250.421	52.503	43.9497	995.367	994.718	474.775	5.60571	4.76849	37.069	301.412	1.32992	24.7	70.6	411.21	96.3989	76	80.1	25.0418	32.597	532.344	11.2089	214.949	0.065025
02:45:21 AM	156	51352 0	2014.12	247.201	1.00956	250.15	52.4615	43.9287	995.367	994.718	473.42	5.54131	4.76391	37.4109	302.046	1.34148	24.7	70.6	410.957	96.3998	76	80.1	25.0892	32.5995	529.355	11.1697	215.346	0.1064
02:45:22 AM	156	51352 1	2014.05	246.618	1.00956	249.951	52.4821	43.9378	995.366	994.718	473.538	5.67866	4.77537	38.0009	301.569	1.34107	24.7	70.6	410.911	96.4	76	80.1	25.098	32.599	526.271	11.1683	215.6	0.1064
02:45:23 AM	156	51352 2	2014.07	246.377	1.00956	249.815	52.5074	43.945	995.366	994.718	476.792	5.60663	4.7662	38.0217	301.844	1.33631	24.7	70.6	410.902	96.5954	76	80.1	25.0996	32.6	523.112	11.1485	215.601	0.017734
02:45:24 AM	156	51352 3	2014.28	247.099	1.00956	249.743	52.5143	43.9467	995.366	994.718	478.688	5.59329	4.77002	38.5588	301.527	1.34	24.7	70.6	410.9	96.6806	76	80.1	25.0999	32.6	519.981	11.1342	215.338	0.017734

02:45:25 AM	156	51352 4	2014. 03	247. 395	1.00956	249.673	52.521 9	43.9 267	995. 363	994.718	472.741	5.624 8	4.7700 2	38.42 19	301.54 8	1.34 316	24.7	70.6	410.8 46	96.696 4	76	80.1	25.1	32.6	516.8 98	11.16 76	214. 966	0.106 4
02:45:26 AM	156	51352 5	2014. 21	246. 919	1.00956	249.582	52.550 4	43.9 518	995. 367	994.718	477.258	5.539 65	4.7677 3	38.27 72	301.91 4	1.35 459	24.7	70.657	410.7 27	96.699 3	76	80.1	25.1	32.6	513.7 48	11.17 38	214. 65	0.026 601
02:45:27 AM	156	51352 6	2014. 45	247. 372	1.00957	249.421	52.589 3	43.9 681	995. 37	994.718	477.394	5.517 83	4.7669 6	38.22 6	301.66 3	1.35 024	24.7	70.692	410.7 05	96.699 9	76	80.1	25.1	32.6	510.6 81	11.19 21	214. 431	0.065 025
02:45:28 AM	156	51352 7	2014. 52	247. 456	1.00957	249.253	52.629 2	43.9 386	995. 364	994.718	477.525	5.604 36	4.7738 4	38.38 84	301.59 6	1.36 153	24.7	70.6985	410.7 01	96.7	76	80.1	25.1	32.6	507.6 31	11.17 88	214. 361	0.056 158
02:45:29 AM	156	51352 8	2013	247. 126	1.00957	249.161	52.664 7	43.9 626	995. 366	994.718	479.878	5.290 37	4.7593 2	38.30 2	301.75	1.35 087	24.7	70.6997	410.7	96.7	76	80.1	25.1	32.6	504.5 54	11.20 92	214. 345	0.020 69
02:45:30 AM	156	51352 9	2014. 58	246. 65	1.00956	249.187	52.669 9	43.9 364	995. 366	994.718	480.456	5.251 82	4.7677 3	38.23 94	302.35 9	1.35 126	24.7	70.7	410.7	96.7	76	80.1	25.1	32.6	501.4 55	11.15 37	214. 37	0
02:45:31 AM	156	51353 0	2014. 29	246. 842	1.00957	249.253	52.652 8	43.9 42	995. 366	994.718	475.021	5.423 05	4.7639 1	38.08 71	301.8	1.34 354	24.7	70.7	410.7	96.7	76	80.1	25.1	32.6	498.3 33	11.19 74	214. 387	0.085 714
02:45:32 AM	156	51353 1	2014. 12	247. 688	1.00957	249.303	52.625	43.9 522	995. 366	994.718	477.279	5.492 38	4.7608 5	37.79 17	300.65 6	1.35 156	24.7	70.7	410.7	96.7	76	80.1	25.1	32.6	495.2 49	11.23 52	214. 434	0
02:45:33 AM	156	51353 2	2013. 71	248. 357	1.00957	249.361	52.620 3	43.9 448	995. 365	994.718	478.591	5.356 31	4.7677 3	37.91 23	300.87 9	1.34 703	24.7	70.7	410.7	96.7	76	80.043	25.1	32.6	492.2 03	11.20 88	214. 543	0.124 138
02:45:34 AM	156	51353 3	2014. 43	248. 156	1.00955	249.45	52.651 1	43.9 231	995. 365	994.718	479.375	5.510 72	4.7684 9	37.71 66	300.18 7	1.33 57	24.7	70.7	410.7	96.858 8	76	80.008	25.1	32.5	489.1 18	11.18 42	214. 656	0.106 4
02:46:41 AM	156	51360 0	2404. 34	147. 364	1.00985	148.41	37.486 2	43.8 854	995. 36	994.718	490.882	3.038 27	5.1581 6	19.58 6	382.06 2	1.36 252	24.8	72.2	370.6 44	98.699 4	76.50 01	79.8	25.3	32.9	316.1 22	9.585 81	258. 499	0.106 4
02:46:42 AM	156	51360 1	2406. 38	147. 008	1.00985	148.486	37.486 3	43.8 597	995. 358	994.718	489.565	3.065 45	5.1535 8	21.82 29	381.83 5	1.36 769	24.8	72.2	370.4 45	98.699 9	76.5	79.8	25.3	32.9	313.4 34	9.557 4	258. 374	0.106 4
02:46:43 AM	156	51360 2	2410. 24	146. 463	1.00985	148.561	37.487 3	43.8 915	995. 36	994.718	485.596	3.193 67	5.1658	22.43 87	385.68 1	1.37 133	24.8	72.2	370.4 08	98.7	76.57 94	79.8	25.3	32.9	310.7 92	9.547 94	258. 237	0.106 4
02:46:44 AM	156	51360 3	2406. 42	146. 428	1.00985	148.605	37.460 7	43.8 827	995. 362	994.718	486.182	2.962 24	5.1528 1	22.19 74	384.09 5	1.36 107	24.8	72.2	370.4 02	98.504 62	76.59 62	79.8	25.3	32.9	308.1 89	9.560 27	258. 102	0.047 291
02:46:45 AM	156	51360 4	2406. 41	146. 971	1.00984	148.628	37.411	43.8 768	995. 365	994.718	481.066	3.222 53	5.1520 5	22.68 39	384.55 8	1.35 339	24.8	72.2	370.4	98.419 4	76.59 93	79.8	25.3	32.9	305.4 73	9.551 25	257. 984	0.106 4
02:46:46 AM	156	51360 5	2409. 86	147. 794	1.00984	148.644	37.375 8	43.8 84	995. 366	994.718	485.193	3.155 91	5.1528 1	20.99 72	385.22 6	1.36 241	24.8	72.2	370.2 1	98.403 6	76.59 99	79.8	25.3	32.9	302.8 63	9.559 11	257. 93	0.106 4
02:46:47 AM	156	51360 6	2402. 52	149. 306	1.00985	148.681	37.395 7	43.8 853	995. 366	994.718	490.108	2.494 07	5.1696 2	21.39 17	382.23 3	1.36 964	24.8	72.2	369.7 95	98.400 7	76.6	79.8	25.3	32.9	300.1 52	9.553 56	257. 977	0.017 734
02:46:48 AM	156	51360 7	2401. 47	147. 736	1.00984	148.753	37.487 5	43.8 667	995. 366	994.718	492.248	2.744 15	5.1482 3	21.10 41	383.21 6	1.36 995	24.8	72.2	369.7 18	98.400 1	76.6	79.8	25.3	32.9	297.5 19	9.534 9	257. 944	0.076 847
02:46:49 AM	156	51360 8	2402. 49	146. 688	1.00984	148.807	37.591 2	43.8 821	995. 366	994.718	487.581	2.837 45	5.1489 9	22.45 51	384.64 7	1.37 066	24.8	72.2	369.7 03	98.4	76.6	79.8	25.3	32.9	294.8 76	9.548 71	257. 642	0.047 291
02:46:50 AM	156	51360 9	2408. 11	147. 938	1.00984	148.816	37.626 5	43.8 85	995. 368	994.718	489.949	2.927 97	5.1535 8	21.37 16	384.87 4	1.36 71	24.8	72.2	369.7 01	98.4	76.6	79.8	25.3	32.7	292.1 84	9.550 43	257. 203	0.106 4
02:46:51 AM	156	51361 0	2404. 25	148. 403	1.00983	148.83	37.610 8	43.8 676	995. 371	994.718	494.235	2.921 3	5.1459 4	22.11 32	383.70 4	1.37 538	24.8	72.2	369.7	98.4	76.6	79.8	25.3	32.7	289.4 88	9.544 15	256. 717	0.106 4
02:46:52 AM	156	51361 1	2405. 55	148. 559	1.00983	148.889	37.587 9	43.8 682	995. 371	994.718	487.846	2.810 89	5.1535 8	22.26 51	384.03 4	1.37 347	24.8	72.238	369.7	98.4	76.6	79.8	25.3	32.7	286.8 06	9.560 36	256. 412	0.162 562
02:46:53 AM	156	51361 2	2408. 75	147. 391	1.00981	148.969	37.607 4	43.8 327	995. 374	994.718	485.327	3.202 2	5.1482 3	22.05 15	384.92 9	1.38 183	24.8	72.37	369.7	98.4	76.6	79.8	25.3	32.7	284.1 08	9.576 29	256. 389	0.011 82
02:46:54 AM	156	51361 3	2406	148. 23	1.00981	149.015	37.652 8	43.8 487	995. 379	994.718	483.787	2.643 03	5.1474 6	22.06 58	382.78 4	1.37 905	24.8	72.3944	369.7	98.4	76.6	79.8	25.3	32.7	281.4 66	9.557 25	256. 43	0.106 4
02:46:55 AM	156	51361 4	2402. 67	147. 031	1.00982	149.055	37.674 2	43.8 674	995. 379	994.718	485.636	2.582 75	5.1543 4	21.64 14	383.77 9	1.35 823	24.8	72.399	369.7	98.638 2	76.6	79.8	25.3	32.7	278.9 45	9.518 59	256. 429	0.106 4
02:46:56 AM	156	51361 5	2408. 78	147. 774	1.00982	149.098	37.643 1	43.8 669	995. 378	994.718	482.629	3.059 29	5.1528 1	22.32 27	385.18 2	1.36 442	24.8	72.3998	369.7	98.688 6	76.6	79.8	25.4	32.7	276.2 37	9.476 11	256. 335	0.106 4

02:46:57 AM	156	513616	240616	148213	1.00982	149.175	37.597	43.8707	995.378	994.718	479.859	3.04137	5.16198	23.2303	384.299	1.37955	24.8	72.4	369.278	98.6979	76.6	79.8	25.4	32.7	273.524	9.49896	256.115	0.1064
02:46:58 AM	156	513617	240801	148128	1.00983	149.276	37.587	43.8829	995.377	994.718	483.329	2.94693	5.15663	22.9359	385.371	1.37808	24.8	72.4	368.889	98.6996	76.6	79.8	25.4	32.7	270.824	9.55978	255.898	0.183251
02:46:59 AM	156	513618	240743	150043	1.00983	149.379	37.6333	43.8784	995.375	994.718	486.89	2.6603	5.15816	23.8797	384.51	1.37849	24.8	72.4	368.816	98.6999	76.6	79.8	25.4	32.7	268.161	9.60711	255.713	0.1064
02:47:00 AM	156	513619	240561	15048	1.00983	149.465	37.7282	43.8751	995.375	994.945	493.641	3.18204	5.14441	23.5544	385.248	1.38086	24.8	72.4	368.803	98.945	76.6	79.8	25.4	32.7	265.446	9.63351	255.667	0.008867
02:47:01 AM	156	513620	240584	148273	1.00983	149.56	37.8527	43.8579	995.375	994.718	492.276	2.93469	5.1551	22.4734	385.958	1.36356	24.8	72.4	368.801	99.0713	76.6	79.8	25.4	32.7	262.84	9.62078	255.755	0.04138
02:47:02 AM	156	513621	240918	148954	1.00983	149.678	37.9599	43.8586	995.375	994.718	485.839	3.03849	5.15205	22.5244	386.009	1.36713	24.8	72.4	368.8	99.0947	76.6	79.8	25.4	32.7	260.178	9.61254	255.856	0.01182
02:47:03 AM	156	513622	240556	148791	1.00983	149.808	38.0007	43.8727	995.372	994.945	482.216	2.95957	5.15128	22.9288	385.764	1.36071	24.8	72.4	368.879	99.099	76.6	79.8	25.4	32.7	257.515	9.5999	255.881	0.1064
02:47:04 AM	156	513623	240717	14884	1.00983	149.904	37.9805	43.8567	995.371	994.945	485.09	2.9206	5.15358	23.1267	386.557	1.35617	24.8	72.4	368.896	99.0998	76.6	79.8	25.4	32.7	254.86	9.64697	255.796	0
02:47:05 AM	156	513624	240907	150687	1.00983	149.969	37.9485	43.8554	995.369	994.945	489.209	3.09524	5.15128	23.9156	386.571	1.37139	24.8	72.4	368.899	99.05	76.6	79.8	25.4	32.7	252.176	9.62747	255.764	0.047291
02:47:06 AM	156	513625	240569	151262	1.00984	150.087	37.9675	43.8751	995.369	994.718	482.446	2.98017	5.14746	23.1003	386.076	1.37735	24.8	72.4	368.9	98.6834	76.6	79.8	25.4	32.7	249.401	9.70243	255.837	0.08867
02:47:07 AM	156	513626	240598	150109	1.00984	150.289	38.0779	43.8707	995.367	994.718	481.531	3.04964	5.14823	23.8808	387.623	1.37143	24.8	72.4	368.9	98.6154	76.6	79.8	25.4	32.7	246.756	9.72753	256.02	0.1064
02:47:08 AM	156	513627	240603	149788	1.00984	150.52	38.1832	43.8693	995.366	994.945	487.28	2.85091	5.14976	23.6978	385.901	1.376	24.8	72.4	369.095	98.6029	76.6	79.8	25.4	32.7	244.057	9.68522	256.187	0
02:47:09 AM	156	513628	241002	150035	1.00985	150.721	38.2354	43.8826	995.362	994.718	479.49	3.06391	5.15128	22.8147	387.001	1.36024	24.8	72.4	369.181	98.6005	76.6	79.8	25.5	32.7	241.415	9.63273	256.202	0.017734
02:47:10 AM	156	513629	240826	150307	1.00985	150.898	38.2509	43.8851	995.364	994.718	489.691	2.93465	5.15052	23.9864	386.263	1.36388	24.8	72.4	369.196	98.6001	76.6	79.8	25.5	32.7	238.748	9.64763	256.08	0.1064

APPENDIX AV: RAW DATA – BDJ50 BLEND AT 15°BTDC

Manual Log Description : Power Curve on 50%

Jatropha & 50% base diesel

Manual Log Start Date :

2012/03/02

Manual Log Start Time :

10:20:57 AM

TIME	mSec	Eng_Ti me	Speed	Torque	~ECE_Corr_ Factor	~Torque _Corr	~Power _Corr	Humidity	~P_ Baro	P_Pre_Co mpressor	P_Post_Co mpressor	P_Exh aust	P_Oil_ Filter	P_Co ol_In	P_Cool _Out	P_F uel	T_Air_In_ Snorkel	T_Post_Co mpressor	T_Exh aust	T_Oil_ Sump	T_Co ol_In	T_Cool _Out	T_F uel	T_C ell	Fuel_ Mass	Fuel_ Flow	~SFC	Smoke
10:20:59 AM	625	516929	260675	259064	1.0109	261.355	71.2806	45.6392	995.31	994.718	896.418	9.36191	5.05425	40.1106	458.837	1.49824	24.9	104.4	481.3	106.58	75.9	80.2	26.0999	32.3	430.646	16.9069	241.951	0.106404
10:21:00 AM	609	516933	260631	259165	1.0109	261.363	71.3458	45.6391	995.314	994.718	893.306	9.24099	5.05425	40.2049	459.617	1.50285	24.9	104.4	481.3	106.433	75.9	80.2	26.1	32.3	418.186	16.9848	241.447	0.1064
10:21:01 AM	609	516934	260657	259017	1.01091	261.373	71.4096	45.6574	995.308	994.945	895.793	9.16822	5.05654	40.2466	457.648	1.50004	24.9	104.4	481.43	106.406	75.9	80.2	26.1	32.3	412.153	16.9388	240.896	0.08867
10:21:02 AM	609	516935	260631	25889	1.01092	261.384	71.4594	45.6561	995.302	994.718	900.019	9.21954	5.03209	40.3825	457.012	1.50844	24.9	104.4	481.487	106.401	75.9	80.2	26.1	32.3	407.087	16.9256	240.417	0.085714
10:21:03 AM	609	516936	260682	259437	1.01092	261.386	71.484	45.6553	995.307	994.718	894.184	9.32231	5.03209	40.2513	456.808	1.50072	24.9	104.4	481.498	106.4	75.9	80.2	26.1	32.3	402.347	16.9052	240.029	0.1064
10:21:04 AM	609	516937	260696	259457	1.01092	261.407	71.4961	45.6575	995.309	994.718	897.999	9.27919	5.03209	40.0046	454.52	1.50842	24.9	104.4	481.5	106.615	75.9	80.2	26.1	32.3	397.538	16.9161	239.762	0.085714
10:21:05 AM	609	516938	260669	259685	1.01092	261.462	71.516	45.6699	995.304	994.718	898.144	9.32476	5.04049	40.2289	456.608	1.50717	24.9	104.4	481.5	106.684	75.9	80.2	26.1	32.3	392.837	16.9245	239.518	0.1064
10:21:06 AM	609	516939	260692	259185	1.01092	261.558	71.5441	45.6556	995.302	994.945	899.154	9.37852	5.04202	39.7847	457.31	1.50356	24.9	104.4	481.603	106.697	75.9	80.2	26.1	32.3	388.17	16.96347	239.017	0.106734
10:21:07 AM	609	516940	26066	25946	1.01094	261.678	71.5771	45.6732	995.293	994.718	890.412	9.24406	5.04814	40.2266	455.239	1.50194	24.9	104.4	481.764	106.699	75.9	80.2	26.1	32.3	383.493	16.9991	239.211	0.1064
10:21:08 AM	609	516941	260623	259664	1.01094	261.803	71.5997	45.6755	995.29	994.718	902.007	9.36357	5.05348	39.8358	456.38	1.48674	24.9	104.4	481.793	106.7	75.9	80.2	26.0185	32.3999	378.804	16.9493	239.206	0.1064
10:21:09 AM	609	516942	260641	25952	1.01095	261.922	71.6101	45.6782	995.286	994.718	902.324	9.31664	5.05272	39.4349	457.617	1.49366	24.9	104.4	481.799	106.741	75.9	80.2	26.0034	32.4	374.043	16.9116	239.268	0.1064
10:21:10 AM	609	516943	260657	259927	1.01094	262.031	71.6174	45.6512	995.29	994.718	894.611	9.42882	5.05578	39.8699	457.731	1.4979	24.9	104.4	481.8	106.789	75.9	80.2	26.0006	32.3314	369.35	16.9642	239.344	0.1064
10:21:11 AM	609	516944	260636	25967	1.01094	262.124	71.6282	45.6649	995.288	994.718	893.872	9.21697	5.03667	39.641	457.368	1.50841	24.9	104.4	481.8	106.798	75.9	80.2	26.0001	32.3065	364.696	16.9597	239.373	0.1064
10:21:12 AM	609	516945	260655	259254	1.01095	262.2	71.6407	45.6642	995.28	994.718	902.265	9.31776	5.0382	39.9482	456.911	1.51035	24.9	104.4	481.656	106.8	75.9	80.2	26	32.3012	360.005	16.9947	239.3	0.1064
10:21:13 AM	609	516946	26067	259538	1.01096	262.243	71.6416	45.6782	995.28	994.945	898.401	9.37722	5.05043	40.8716	459.461	1.48546	24.9	104.4	481.61	106.8	75.8729	80.2	26	32.3002	355.297	16.9702	239.286	0.1064
10:21:14 AM	609	516947	260677	259421	1.01095	262.274	71.6318	45.6755	995.28	994.718	891.737	9.38824	5.02903	40.6645	460.06	1.48611	24.9	104.4	481.602	106.8	75.8135	80.2	25.9229	32.3	350.606	16.9833	239.327	0.047291
10:21:15 AM	609	516948	260678	259686	1.01096	262.307	71.6222	45.6842	995.281	994.945	895.102	9.29553	5.04508	39.7672	458.667	1.49411	24.9	104.4	481.6	106.8	75.8025	80.2	25.9042	32.3	345.852	16.927	239.416	0.1064
10:21:16 AM	609	516949	260639	25948	1.011	262.346	71.6147	45.6684	995.277	994.945	890.882	9.18337	5.05348	41.342	456.719	1.48919	24.92	104.4	481.6	106.8	75.8005	80.2	25.9008	32.3	341.16	16.9738	239.507	0.065025
10:21:17 AM	609	516950	260647	259286	1.01146	262.378	71.6416	45.6654	995.277	994.718	891.24	9.28126	5.02827	41.0268	457.077	1.49086	25.0666	104.4	481.647	106.8	75.8001	80.2	25.9001	32.3	336.374	16.9325	239.519	0.115271

10:21:18 AM	609	51695 1	2606. 53	259. 829	1.01156	262.39	71.647 2	45.6 824	995. 275	994.945	895.117	9.370 46	5.0382	41.12 17	459.35	1.50 093	25.0938	104.537	481.6 9	106.8	75.8	80.2	25.9	32.3	331.6 45	16.91 81	239. 448	0.106 4
10:21:19 AM	609	51695 2	2606. 39	259. 298	1.01158	262.406	71.645 1	45.6 855	995. 28	994.718	900.647	9.386 99	5.0412 6	40.89 63	458.10 6	1.49 19	25.0989	104.588	481.6 98	106.8	75.8	80.2	25.9	32.3	326.9 76	17.02 25	239. 355	0.106 4
10:21:20 AM	609	51695 3	2606. 93	259. 615	1.01157	262.422	71.647 2	45.6 762	995. 284	994.718	897.883	9.390 05	5.0435 5	41.22 96	457.08	1.50 298	25.0998	104.598	481.7	106.8	75.8	80.2	25.9	32.3	322.2 68	16.99 8	239. 35	0.076 847
10:21:21 AM	609	51695 4	2606. 53	259. 669	1.01156	262.438	71.651 7	45.6 729	995. 286	994.718	895.609	9.390 62	5.0527 2	41.35 11	458.73 5	1.50 052	25.1	104.6	481.7	106.8	75.8	80.2	25.9	32.3	317.5 27	16.97 36	239. 395	0.106 4
10:21:22 AM	609	51695 5	2606. 65	259. 508	1.01116	262.446	71.629 4	45.6 814	995. 282	994.718	898.711	9.178 99	5.0427 9	40.86 84	459.00 3	1.49 259	24.9628	104.6	481.7	106.8	75.8	80.2	25.9	32.3	312.8 42	16.94 65	239. 526	0.106 4
10:21:23 AM	609	51695 6	2606. 62	259. 861	1.01098	262.449	71.629 1	45.6 695	995. 282	994.718	894.644	9.129 99	5.0443 2	41.15 93	459.73 7	1.51 606	24.9116	104.6	481.6 19	106.8	75.8	80.2	25.9	32.3	308.0 92	16.96 87	239. 637	0.076 847
10:21:24 AM	609	51695 7	2606. 87	259. 819	1.01095	262.448	71.636 6	45.6 831	995. 288	994.718	890.6	9.106 01	5.0366 7	41.02 89	457.87	1.49 856	24.9022	104.6	481.6 03	106.8	75.8	80.2	25.9	32.3	303.4 02	16.96 98	239. 632	0.106 4
10:21:25 AM	609	51695 8	2606. 47	259. 678	1.01095	262.455	71.651 8	45.6 802	995. 287	994.718	890.924	9.233 39	5.0359 1	41.35 94	458.57 1	1.51 267	24.9004	104.6	481.6 01	106.87 6	75.8	80.2	25.9	32.3	298.6 49	17.01 86	239. 571	0.106 4
10:21:26 AM	609	51695 9	2607. 06	259. 427	1.01094	262.469	71.660 6	45.6 676	995. 289	994.718	888.178	9.231 92	5.0252 1	40.42 69	457.52 9	1.50 425	24.9001	104.6	481.6	107.14	75.8	80.2	25.9	32.3	293.9 51	17.02 26	239. 511	0.221 675
10:21:27 AM	609	51696 0	2607. 53	259. 935	1.01094	262.483	71.664 3	45.6 58	995. 289	994.718	897.078	9.440 28	5.0236 9	41.65 6	458.25 5	1.50 48	24.9	104.6	481.6	107.18 9	75.8	80.2	25.9	32.3	289.2 16	17.04 83	239. 552	0.038 424
10:21:28 AM	609	51696 1	2607. 64	260. 591	1.01094	262.507	71.679 8	45.6 791	995. 291	994.718	902.957	9.282 39	5.0259 8	41.11 67	458.36 9	1.49 889	24.9	104.6	481.6	107.19 8	75.8	80.2	25.9	32.3	284.4 75	17.07 75	239. 7	0.106 4
10:22:41 AM	609	51703 4	2402. 76	272. 722	1.01153	275.882	69.407 3	45.6 758	995. 291	994.718	797.848	8.060 57	4.9151 9	51.28 91	414.54 2	1.44 211	25.0897	98.6697	480.2	107.4	75.5	80	26	32.3	477.6 85	16.23 02	237. 466	0.106 4
10:22:42 AM	609	51703 5	2402. 92	272. 971	1.01155	275.897	69.391 3	45.6 554	995. 285	994.718	808.186	8.060 57	4.9213	52.16 47	413.26 6	1.46 335	25.0981	98.6129	480.2	107.4	75.5	80	26	32.3	473.1 15	16.22 51	237. 353	0.059 11
10:22:43 AM	609	51703 6	2402. 6	273. 21	1.01155	275.911	69.400 6	45.6 323	995. 286	994.718	804.972	8.060 57	4.9106	51.34 37	411.53 3	1.45 53	25.0996	98.6024	480.2	107.34 8	75.5	80	26	32.3	468.6 97	16.19 97	237. 088	0.026 601
10:22:44 AM	609	51703 7	2403. 32	273. 006	1.01155	275.934	69.431 1	45.6 459	995. 287	994.718	802.119	8.060 57	4.9083 1	50.98 74	414.14 5	1.46 03	25.0999	98.6004	480.2	107.30 9	75.5	80	26	32.3	464.2 06	16.23 93	236. 789	0.106 4
10:22:45 AM	609	51703 8	2402. 76	273. 068	1.01156	275.965	69.465 5	45.6 787	995. 29	994.718	803.027	8.047 53	4.9136 6	51.99 25	411.31 6	1.45 509	25.1	98.6001	480.2	107.30 2	75.5	80	26	32.3	459.7 79	16.23 11	236. 536	0.212 808
10:22:46 AM	609	51703 9	2402. 58	272. 87	1.01156	275.991	69.487 1	45.6 651	995. 291	994.718	804.223	8.058 16	4.9037 3	51.84 57	410.97 9	1.45 681	25.1	98.6	480.1 23	107.3	75.5	80	26	32.3	455.3 25	16.21 24	236. 355	0.106 4
10:22:47 AM	609	51704 0	2403. 19	272. 981	1.01156	276	69.495 9	45.6 67	995. 289	994.718	808.244	8.060 13	4.9098 4	51.44 76	410.92 9	1.45 323	25.1	98.6	480.1 04	107.3	75.5	80	26	32.3	450.9 08	16.15 13	236. 236	0.106 4
10:22:48 AM	609	51704 1	2402. 91	273. 257	1.01155	275.999	69.495 2	45.6 642	995. 296	994.718	811.375	8.060 49	4.9182 5	52.71 57	413.50 8	1.45 097	25.1	98.6	480.1 01	107.31	75.5	80	26	32.3	446.4 43	16.13 85	236. 085	0.106 4
10:22:49 AM	609	51704 2	2402. 87	273. 114	1.01155	275.999	69.493 2	45.6 653	995. 293	994.718	811.343	8.060 56	4.9129	52.20 68	412.69 5	1.46 634	25.1	98.6	480.1	107.38 3	75.5	80	26	32.3	442.0 03	16.16 83	235. 874	0.106 4
10:22:50 AM	609	51704 3	2402. 64	272. 916	1.01156	276.012	69.499 4	45.6 491	995. 289	994.945	807.903	8.060 57	4.9167 2	51.60 4	412.59 7	1.45 337	25.1	98.6	480.1	107.39 7	75.5	80	26	32.3	437.6 19	16.16 07	235. 626	0.020 69
10:22:51 AM	609	51704 4	2403. 05	272. 697	1.01155	276.039	69.498 9	45.6 577	995. 292	994.945	812.22	8.026 58	4.9098 4	52.24 92	410.51	1.46 833	25.1	98.6	479.8 15	107.39 9	75.5	80	26	32.3	433.1 61	16.12 81	235. 393	0.047 291
10:22:52 AM	609	51704 5	2402. 65	272. 551	1.01155	276.07	69.485 1	45.6 628	995. 295	994.718	802.499	8.054 28	4.9106	52.15 61	410.30 7	1.46 303	25.1	98.6	479.6 4	107.4	75.5	80	26	32.3	428.7 24	16.11 66	235. 211	0.106 4
10:22:53 AM	609	51704 6	2402. 78	272. 525	1.01155	276.084	69.455 4	45.6 703	995. 296	994.718	804.679	8.059 41	4.9083 1	51.46 04	412.64 8	1.45 227	25.1	98.6	479.6 07	107.4	75.5	80	25.9	32.3	424.2 59	16.11 44	235. 103	0.076 847
10:22:54 AM	609	51704 7	2403. 27	272. 97	1.01153	276.081	69.422 5	45.6 446	995. 302	994.718	802.377	8.048 62	4.9136 6	51.97 27	411.84 3	1.47 02	25.1	98.6	479.6 01	107.21 6	75.5	80	25.9	32.4	419.8 25	16.08 31	235. 026	0.106 4

10:22:55 AM	609	51704 8	2402. 68	272. 455	1.01154	276.077	69.404 8	45.6 73	995. 306	994.718	801.688	8.058 36	4.9129	51.76 89	413.00 1	1.45 129	25.1	98.6	479.6	107.12 2	75.5	80	25.9 023	32.4	415.4 68	16.06 71	234. 937	0.008 867
10:22:56 AM	609	51704 9	2402. 48	272. 747	1.01154	276.061	69.401 2	45.6 552	995. 302	994.718	805.432	8.060 16	4.9167 2	51.35 29	412.01 9	1.44 773	25.1	98.6	479.6	107.10 4	75.5	80	25.9 004	32.4	411.0 34	16.06 41	234. 804	0.106 404
10:22:57 AM	609	51705 0	2402. 55	272. 861	1.01155	276.036	69.407 7	45.6 603	995. 299	994.718	807.067	8.060 5	4.9106	51.60 2	411.17 3	1.45 203	25.1	98.4957	479.6	107.10 1	75.5	80	25.9 001	32.4	406.5 98	16.07 86	234. 631	0.106 4
10:22:58 AM	609	51705 1	2402. 54	272. 408	1.01154	276.008	69.410 4	45.6 648	995. 3	994.718	806.266	8.060 56	4.9075 5	52.04 21	412.99 9	1.45 677	25.1	98.4177	479.6	107.1	75.5	80	25.9	32.4	402.0 84	16.06 34	234. 462	0.011 82
10:22:59 AM	609	51705 2	2402. 65	272. 782	1.01153	275.977	69.407 2	45.6 322	995. 3	994.945	809.803	8.060 57	4.9174 8	51.93 19	411.31 6	1.45 839	25.1	98.4033	479.6	107.12 7	75.5	80	25.8 729	32.4	397.7 05	16.00 82	234. 312	0.106 4
10:23:00 AM	609	51705 3	2402. 78	273. 127	1.01154	275.95	69.402 4	45.6 253	995. 291	994.718	809.285	8.060 57	4.9098 4	52.32 21	411.9	1.45 454	25.1	98.4006	479.6	107.18 6	75.5	80	25.8 135	32.4	393.2 55	15.97 69	234. 157	0.047 291
10:23:01 AM	609	51705 4	2402. 93	273. 165	1.01157	275.934	69.412 3	45.6 7	995. 285	994.718	807.428	8.124 53	4.9113 7	52.42 75	412.51 5	1.45 441	25.1	98.4001	479.6	107.19 7	75.5	80	25.8 025	32.4	388.7 52	15.99 17	233. 963	0
10:23:02 AM	609	51705 5	2402. 36	272. 583	1.01156	275.928	69.431 7	45.6 539	995. 283	994.718	811.266	8.072 43	4.9067 9	51.78 43	414.06 4	1.47 431	25.1	98.362	479.7 3	107.2	75.5	80	25.8 005	32.4	384.2 96	16.01 3	233. 714	0.106 4
10:23:03 AM	609	51705 6	2402. 43	272. 653	1.01155	275.912	69.447 5	45.6 344	995. 286	994.718	802.126	8.062 77	4.9121 3	52.36 17	415.23 1	1.46 357	25.1	98.23	479.7 87	107.2	75.5	80	25.8 001	32.4	379.9 28	16.00 13	233. 416	0.124 138
10:23:04 AM	609	51705 7	2402. 83	272. 299	1.01155	275.888	69.444 1	45.6 472	995. 287	994.718	798.985	8.060 98	4.9136 6	51.66 16	412.44 4	1.45 777	25.1	98.2056	479.7 98	107.2	75.5	80	25.8	32.4	375.4 77	15.98 34	233. 176	0.106 4
10:23:05 AM	609	51705 8	2403. 03	272. 488	1.01156	275.86	69.413 8	45.6 436	995. 286	994.945	809.362	8.060 65	4.9136 6	51.72 29	412.99 2	1.44 383	25.1	98.201	479.8	107.2	75.5	80	25.8	32.4	371.0 57	15.99 29	233. 061	0.011 82
10:23:06 AM	609	51705 9	2403. 06	272. 578	1.01156	275.843	69.376 7	45.6 42	995. 281	994.945	810.874	8.022 82	4.9159 5	52.38 7	413.28 2	1.45 109	25.1	98.2002	479.8	107.2	75.5	80	25.8	32.4	366.5 88	15.97 83	233. 061	0.106 4
10:23:07 AM	609	51706 0	2403. 03	272. 786	1.01156	275.836	69.356	45.6 237	995. 278	994.718	811.851	8.053 58	4.9144 3	51.98 38	412.31 6	1.44 784	25.1	98.2	479.6 77	107.2	75.5	80	25.8	32.4	362.1 71	15.99 72	233. 109	0.020 69
10:23:08 AM	609	51706 1	2402. 76	272. 844	1.01155	275.836	69.365 4	45.6 044	995. 277	994.945	806.288	8.034 5	4.9121 3	51.99 21	412.84 1	1.45 017	25.1	98.2	479.5 33	107.2	75.5	80	25.8	32.4	357.7 43	15.93 37	233. 144	0.026 601
10:23:09 AM	609	51706 2	2402. 69	272. 691	1.01156	275.843	69.392 3	45.6 273	995. 276	994.718	804.971	8.055 74	4.9159 5	51.60 63	410.51 4	1.45 585	25.1	98.2	479.5 06	107.2	75.5	80	25.8	32.4	353.3 13	15.92 77	233. 074	0.088 67
10:23:10 AM	609	51706 3	2402. 27	272. 196	1.01156	275.847	69.411 8	45.6 026	995. 271	994.718	796.947	8.013 05	4.9167 2	51.51 21	410.62 9	1.43 702	25.1	98.2	479.5 01	107.2	75.5	80	25.8	32.4	348.9 17	16.00 11	232. 941	0.106 4
10:24:39 AM	609	51715 2	2199. 61	305. 061	1.01099	309.045	71.141 4	45.7 079	995. 265	994.945	758.939	11.02 64	4.6920 8	63.61 28	369.30 7	1.44 899	24.9	94.4	496.2	106.37 9	75.29 59	79.9	25.7 001	32.5	515.2 92	16.00 67	228. 329	0.047 291
10:24:40 AM	609	51715 3	2199. 8	305. 62	1.01098	309.036	71.099 7	45.6 902	995. 264	994.718	762.905	11.01 84	4.6966 7	62.46 72	368.39 6	1.47 706	24.9	94.4	496.2	106.39 6	75.29 92	79.9	25.7	32.6	510.7 71	16.01 04	228. 196	0.106 4
10:24:41 AM	609	51715 4	2199. 33	305. 631	1.01098	309.015	71.077 3	45.6 87	995. 262	994.945	765.058	10.94 49	4.6982	62.69 51	370.08 7	1.47 129	24.9	94.4	496.2 57	106.39 9	75.29 99	79.9	25.7	32.6	506.3 52	16.00 29	228. 144	0.011 82
10:24:42 AM	609	51715 5	2198. 85	305. 467	1.01099	309.002	71.088 9	45.6 863	995. 257	994.718	760.164	11.14 05	4.6974 3	63.34 03	368.34 7	1.44 847	24.9	94.3254	496.2 92	106.4	75.3	79.9	25.7	32.6	501.8 89	16.01 7	228. 028	0.106 4
10:24:43 AM	609	51715 6	2199. 75	305. 214	1.01099	308.979	71.111 4	45.6 93	995. 254	994.718	754.523	11.02 06	4.6997 3	62.95 01	370.89 3	1.46 057	24.9	94.3047	496.2 99	106.4	75.15 08	79.934 4	25.7	32.6	497.4 8	16.00 24	227. 896	0.017 734
10:24:44 AM	609	51715 7	2199. 17	305. 412	1.01099	308.943	71.126 3	45.6 91	995. 257	994.945	761.09	11.18 2	4.6997 3	62.02 84	371.38 6	1.46 109	24.9	94.3009	496.3	106.20 5	75.10 94	79.987 8	25.6 314	32.7	493.0 34	16.06 6	227. 761	0.106 4
10:24:45 AM	609	51715 8	2199. 89	305. 389	1.01099	308.899	71.130 2	45.6 92	995. 258	994.718	758.626	11.06 42	4.7035 5	62.83 65	368.51 9	1.47 794	24.9	94.3002	496.3	106.11 9	75.10 17	79.997 7	25.6 058	32.7	488.5 35	16.04 82	227. 693	0.106 4
10:24:46 AM	609	51715 9	2199. 78	305. 352	1.01099	308.864	71.125 8	45.7 091	995. 257	994.945	764.746	11.09 42	4.7050 7	61.76 42	370.50 1	1.45 906	24.9	94.3	496.3 2	106.10 4	75.10 03	79.999 6	25.6 011	32.7	484.1 67	16.09 47	227. 749	0.008 867
10:24:47 AM	609	51716 0	2199. 43	305. 941	1.01098	308.829	71.124 6	45.6 905	995. 264	994.718	764.52	10.98 54	4.7012 5	62.55 38	369.75 1	1.43 59	24.9	94.3	496.4 67	106.10 1	75.10 01	79.999 9	25.6 002	32.7	479.7 1	16.05 86	227. 907	0
10:24:48 AM	609	51716 1	2199. 47	305. 82	1.01097	308.81	71.140 2	45.6 87	995. 271	994.718	764.653	10.92 28	4.7027 8	62.98 06	368.10 4	1.44 529	24.9	94.3	496.4 94	106.1	75.1	80	25.6	32.7	475.2 7	16.04 49	228. 095	0.115 271

10:24:49 AM	609	51716 2	2199. 25	305. 715	1.01097	308.805	71.161	45.6 864	995. 269	994.945	773.705	10.96 69	4.7027 8	62.51 16	370.22 8	1.48 135			496.4 99	106.1	75.1	79.922 9	25.6	32.7	470.8 16	16.11 75	228. 214	0.106 4
10:24:50 AM	609	51716 3	2199. 88	305. 848	1.01098	308.815	71.178 7	45.7 081	995. 265	994.718	764.568	10.95 1	4.7012 5	63.17 86	369.74	1.45 326	24.9	94.3	496.5	106.1	75.1	79.904 2	25.6	32.5 162	466.4 66	16.06 06	228. 307	0.038 424
10:24:51 AM	609	51716 4	2199. 57	306. 123	1.01099	308.846	71.195 4	45.7 113	995. 265	994.945	766.767	11.00 06	4.6989 6	63.01 89	368.65 9	1.47 528	24.9	94.3	496.5	106.1	75.1	79.900 8	25.5 59	32.4 215	461.9 04	16.09 83	228. 296	0.106 4
10:24:52 AM	609	51716 5	2199. 84	306. 161	1.01098	308.913	71.212 9	45.6 908	995. 264	994.718	766.794	11.03 62	4.6959	63.02 37	368.58 2	1.50 114	24.9	94.3	496.6 95	106.1	75.1	79.900 1	25.5 109	32.4 04	457.4 2	16.11 1	228. 308	0.106 4
10:24:53 AM	609	51716 6	2199. 24	306. 348	1.01099	308.995	71.241	45.7 079	995. 264	994.718	763.461	11.15 1	4.7004 9	62.56 7	370.34 3	1.47 209	24.9	94.3	496.7 81	106.1	75.1	79.9 02	25.5 007	32.4 007	453.0 46	16.02 36	228. 351	0.174 384
10:24:54 AM	609	51716 7	2199. 46	305. 835	1.01099	309.057	71.268 3	45.7 227	995. 265	994.945	762.677	11.11 02	4.6966 7	62.14 12	369.35 8	1.44 824	24.9	94.3	496.7 96	106.1	75.1	79.9 01	25.4 233	32.4 001	448.6 9	15.98 35	228. 264	0.106 4
10:24:55 AM	609	51716 8	2199. 66	305. 646	1.01097	309.091	71.281	45.6 958	995. 27	994.718	764.367	10.98 97	4.6959	62.45 24	369.93 7	1.47 006	24.9	94.3	496.7 99	106.1	75.1	79.9 729	25.4 729	32.4 001	444.2 42	15.96 31	228. 116	0.106 404
10:24:56 AM	609	51716 9	2199. 48	305. 222	1.01097	309.113	71.264 4	45.7 068	995. 27	994.945	771.1	11.08 04	4.6997 3	62.45 57	370.05 5	1.46 193	24.9	94.3	496.8 106.1	106.1	75.1	79.9 337	25.4 337	32.4 001	439.8 08	15.95 09	227. 782	0.106 4
10:24:57 AM	609	51717 0	2199. 59	305. 305	1.01098	309.117	71.218	45.6 973	995. 27	994.718	768.756	10.99 35	4.6997 3	62.28 93	368.41 6	1.46 635	24.9	94.3	496.8 41	106.1	75.1	79.9 063	25.4 063	32.4 001	435.4 4	15.92 5	227. 338	0.008 867
10:24:58 AM	609	51717 1	2199. 56	305. 73	1.01099	309.105	71.165	45.7 181	995. 268	994.945	766.582	11.08 11	4.6974 3	61.11 52	368.19 3	1.45 204	24.9	94.3	496.8 89	106.1	75.1	79.9 912	25.3 912	32.4 001	431.0 07	15.92 34	226. 966	0.174 384
10:24:59 AM	609	51717 2	2199. 54	305. 737	1.01099	309.099	71.127 9	45.7 292	995. 267	994.718	765.885	11.05 07	4.6997 3	62.19 45	368.33 3	1.47 018	24.9	94.3	496.8 98	106.1	75.23 03	79.91 169	25.3 169	32.4 001	426.5 17	15.92 61	226. 702	0.106 4
10:25:00 AM	609	51717 3	2199. 61	305. 65	1.011	309.104	71.122 7	45.7 365	995. 264	994.945	765.651	11.09 16	4.6943 8	62.09 66	368.44 2	1.45 13	24.9	94.3	496.9 106.1	106.1	75.28 71	79.983 3	25.3 031	32.4 001	422.1 57	15.92 24	226. 541	0.124 138
10:25:01 AM	609	51717 4	2199. 56	305. 732	1.011	309.104	71.142	45.7 532	995. 264	994.945	766.446	11.04 17	4.6959	62.02 73	368.58 2	1.45 857	24.9	94.3	496.9 106.1	106.1	75.29 76	79.996 9	25.3 006	32.4 001	417.6 97	15.92 77	226. 452	0.221 675
10:25:02 AM	609	51717 5	2199. 1	304. 975	1.01099	309.093	71.157	45.7 235	995. 267	994.718	772.494	11.03 87	4.7004 9	62.31 68	368.79 3	1.45 002	24.9	94.3	496.9 106.1	106.1	75.29 96	79.999 4	25.3 001	32.4 001	413.2 58	15.85 39	226. 382	0.106 4
10:25:03 AM	609	51717 6	2199. 83	304. 577	1.01099	309.06	71.149 3	45.7 477	995. 269	994.718	767.349	11.14 54	4.7088 9	62.17 31	367.87 8	1.46 694	24.9	94.2312	496.9 79	106.1	75.29 99	79.999 9	25.3 001	32.4 001	408.8 8	15.83 92	226. 233	0.174 384
10:25:04 AM	609	51717 7	2199. 99	305. 14	1.01099	308.99	71.108 4	45.7 508	995. 275	994.718	770.638	11.05 74	4.7058 4	61.25 78	368.56 7	1.45 846	24.9	94.1243	496.9 96	106.1	75.3 80	25.3 001	32.4 001	404.4 56	15.92 2	226. 074	0.106 4	
10:25:05 AM	609	51717 8	2199. 75	305. 511	1.01098	308.902	71.065 4	45.7 444	995. 277	994.718	767.452	11.09 29	4.7020 2	61.04 8	369.33 3	1.45 417	24.9	94.1045	496.9 99	106.12	75.3 80	25.3 001	32.4 001	400.0 08	15.92 27	225. 956	0.017 734	
10:25:06 AM	609	51717 9	2199. 59	305. 151	1.01098	308.824	71.051 5	45.7 393	995. 276	994.718	757.045	10.99 12	4.7043 1	62.05 27	368.71 5	1.47 021	24.9	94.1008	497	106.26 7	75.3 80	25.2 254	32.4 001	395.6 48	15.94 34	225. 919	0	
10:25:07 AM	609	51718 0	2200. 04	305. 258	1.01099	308.755	71.058 4	45.7 438	995. 27	994.718	765.044	11.08 06	4.7066	62.80 79	367.69 7	1.45 71	24.9	94.1002	497	106.29 4	75.3 80	25.2 047	32.4 001	391.2 57	15.92 5	226. 063	0.017 734	
10:25:08 AM	609	51718 1	2199. 5	305. 401	1.01099	308.699	71.078 2	45.7 516	995. 273	994.718	768.271	11.09 72	4.6928 5	61.44 42	368.73 1	1.46 436	24.9	94.1	496.9 48	106.29 9	75.3 80	25.2 009	32.4 001	386.8 51	15.95 92	226. 272	0.076 847	
10:26:09 AM	609	51724 2	2011. 38	315. 772	1.01105	318.913	67.265 7	45.7 982	995. 243	994.718	634.106	13.67 98	4.5125 3	71.29 99	333.08 9	1.46 695	24.8989	87.1266	504.1	105.1	75 80.1	25.1 047	32.3 001	471.9	14.76 81	221. 372	0.106 4	
10:26:10 AM	609	51724 3	2011. 6	315. 626	1.01106	318.974	67.256 2	45.8 317	995. 241	994.718	638.362	13.66 09	4.5163 5	71.32 29	333.34 5	1.47 72	24.8998	87.1049	504.1	105.13 4	75 80	25.1 009	32.3 001	467.7 3	14.75 81	221. 428	0.076 847	
10:26:11 AM	609	51724 4	2011. 4	315. 495	1.01106	319.029	67.247 8	45.8 463	995. 243	994.718	638.965	13.74 27	4.5087 1	71.63 39	331.82 7	1.47 414	24.9	87.1009	504.1	105.18 8	75 80	25.1 002	32.3 001	463.6 61	14.77 27	221. 576	0.106 4	
10:26:12 AM	609	51724 5	2011. 26	315. 467	1.01095	319.077	67.225 9	45.8 868	995. 248	994.945	631.841	13.75 79	4.5171 2	71.53 99	332.10 6	1.47 865	24.859	87.1002	504.1	105.19 8	75 80	25.1 002	32.3 928	459.5 84	14.73 96	221. 76	0.106 4	
10:26:13 AM	609	51724 6	2011. 28	315. 724	1.01078	319.114	67.199 2	45.8 359	995. 25	994.718	634.19	13.67 54	4.5117 7	70.71 08	332.96 2	1.46 47	24.8109	87.1	504.1 69	105.2	75 80	25.1 002	32.3 987	455.5 33	14.77 85	221. 88	0.106 4	
10:26:14 AM	609	51724 7	2011. 27	315. 79	1.01076	319.139	67.190 3	45.8 743	995. 251	994.718	640.348	13.74 54	4.5132 9	71.31 79	332.27 5	1.46 34	24.802	87.0185	504.1 94	105.2	75 80	25.1 002	32.3 998	451.4 46	14.70 93	221. 951	0.106 4	

10:26:15 AM	609	51724	2011.69	315.85	1.01075	319.159	67.1933	45.8651	995.255	994.945	636.702	13.6968	4.51329	70.7514	332.438	1.46141	24.8004	87.0034	504.199	105.2	75	79.9	25.1	32.4	447.339	14.7494	221.943	0.133005
10:26:16 AM	609	51724	2011.84	315.537	1.01074	319.172	67.2055	45.8395	995.259	994.718	634.621	13.9108	4.51406	71.2088	335.011	1.45754	24.8001	87.0006	504.2	105.123	75	79.9	25.1	32.4	443.23	14.7803	221.898	0.1064
10:26:17 AM	609	51725	2011.64	315.503	1.01075	319.165	67.2166	45.875	995.259	994.945	634.949	13.789	4.51788	71.5103	333.072	1.44363	24.8	87.0001	504.2	105.104	75	79.9	25.1	32.4	439.095	14.7471	221.855	0.008867
10:26:18 AM	609	51725	2011.14	315.15	1.01075	319.142	67.2153	45.8716	995.256	994.718	634.179	13.7912	4.51559	72.1639	334.322	1.47397	24.8	87	504.159	105.101	75	79.9	25.1	32.4	434.998	14.7387	221.814	0.1064
10:26:19 AM	609	51725	2011.9	315.219	1.01075	319.105	67.1952	45.8743	995.257	994.718	632.158	13.7669	4.51788	71.642	332.805	1.47334	24.8	86.8046	504.111	105.1	75	79.9	25.0229	32.4	430.999	14.6872	221.827	0.08867
10:26:20 AM	609	51725	2012.05	316.127	1.01074	319.059	67.1717	45.8737	995.263	994.718	641.755	13.7623	4.51788	71.5258	333.329	1.47297	24.8	86.7194	504.102	105.1	75.1372	79.9	25.0694	32.4	426.859	14.7124	221.784	0.1064
10:26:21 AM	609	51725	2011.63	316.102	1.01074	319.034	67.1669	45.8827	995.264	994.718	636.223	13.7615	4.51864	70.8311	332.769	1.47322	24.8	86.7036	504.1	105.157	75.1884	79.9	25.0943	32.4	422.691	14.7651	221.708	0.1064
10:26:22 AM	609	51725	2011.33	316.08	1.01074	319.046	67.1955	45.8877	995.266	994.718	633.693	13.7614	4.51253	70.3025	333.566	1.47825	24.8	86.7007	504.1	105.192	75.1978	79.9	25.0989	32.4	418.566	14.8178	221.636	0.1064
10:26:23 AM	609	51725	2011.71	315.719	1.01075	319.068	67.2366	45.8976	995.265	994.718	638.336	13.8033	4.51482	70.5716	332.608	1.47259	24.8	86.7001	504.1	105.199	75.1996	79.9	25.0998	32.4	414.496	14.8032	221.636	0.076847
10:26:24 AM	609	51725	2011.66	315.677	1.01076	319.079	67.2655	45.8921	995.257	994.718	637.676	13.6587	4.52246	70.6525	332.581	1.46009	24.8	86.6312	503.941	105.2	75.1999	79.9	25.0185	32.4	410.423	14.8212	221.778	0.1064
10:26:25 AM	609	51725	2012.38	316.289	1.01076	319.092	67.2751	45.8847	995.249	994.718	643.12	13.6117	4.51941	70.4939	332.833	1.4715	24.8	86.5243	503.908	105.2	75.2	79.9	25.078	32.4	406.342	14.8082	222.013	0.05025
10:26:26 AM	609	51725	2011.39	316.146	1.01077	319.124	67.272	45.897	995.249	994.718	632.822	13.6086	4.51941	70.581	331.426	1.45402	24.8	86.5045	503.901	105.2	75.2	80.0372	25.0959	32.4	402.261	14.7933	222.266	0.1064
10:26:27 AM	609	51726	2011.8	316.15	1.01078	319.165	67.2786	45.8993	995.243	994.718	636.079	13.7578	4.51788	69.5951	332.558	1.49179	24.8	86.5008	503.9	105.119	80.0884	25.0992	32.3478	397.991	14.8035	222.416	0.115271	
10:26:28 AM	609	51726	2011.48	316.499	1.01078	319.204	67.2995	45.8997	995.243	994.718	637.5	13.6754	4.52323	69.9792	332.433	1.52726	24.8	86.5002	503.9	105.103	75.2	80.0978	25.0999	32.3083	393.776	14.8514	222.468	0.1064
10:26:29 AM	609	51726	2011.15	316.406	1.01078	319.248	67.319	45.8998	995.242	994.718	633.393	13.7294	4.51635	70.6232	331.945	1.53916	24.8	86.5	503.843	105.101	75.2	80.0996	25.1016	32.3016	389.675	14.8916	222.465	0.038424
10:26:30 AM	609	51726	2011.21	315.994	1.01078	319.306	67.3357	45.8998	995.243	994.718	631.886	13.7	4.51941	70.0554	332.201	1.55669	24.8	86.4254	503.808	105.1	75.2	80.0999	25.1016	32.3003	385.527	14.9132	222.525	0.1064
10:26:31 AM	609	51726	2011.21	315.793	1.01077	319.362	67.333	45.8998	995.248	994.718	631.885	13.75	4.51406	70.3843	331.146	1.52208	24.8	86.4047	503.801	105.1	75.2	80.1	25.1001	32.3001	381.433	14.8999	222.731	0.017734
10:26:32 AM	609	51726	2010.94	315.624	1.01077	319.413	67.3139	45.8998	995.248	994.945	634.062	13.847	4.51864	70.7888	333.118	1.50915	24.8	86.4009	503.8	104.826	75.2	80.1	25.1016	32.3	377.349	14.852	223.026	0.1064
10:26:33 AM	609	51726	2010.9	315.23	1.01077	319.439	67.2766	45.8811	995.246	994.718	637.941	13.7772	4.51864	70.9101	333.047	1.53374	24.8	86.4002	503.8	104.723	75.2	80.1	25.1016	32.3	373.226	14.8377	223.323	0.02956
10:26:34 AM	609	51726	2011.24	315.686	1.01077	319.417	67.2295	45.8964	995.244	994.718	633.705	13.7643	4.51941	70.9025	331.704	1.54308	24.8	86.4	503.8	104.704	75.2	80.1	25.1016	32.3	369.061	14.8554	223.513	0.08867
10:26:35 AM	609	51726	2011.41	315.752	1.01078	319.367	67.1934	45.8992	995.244	994.718	635.979	13.7619	4.52476	70.8066	334.067	1.52907	24.8	86.2861	503.8	104.701	75.2	80.1	25.1016	32.3	364.981	14.8608	223.553	0.017734
10:26:36 AM	609	51726	2011.41	315.856	1.01077	319.335	67.1836	45.9089	995.247	994.718	636.684	13.7614	4.51941	70.4044	333.426	1.5189	24.8	86.216	503.8	104.7	75.0861	80.1	25.1016	32.3	360.908	14.8708	223.509	0.1064
10:26:37 AM	609	51727	2011.44	316.095	1.01076	319.332	67.1962	45.9034	995.254	994.718	637.471	13.7613	4.51559	70.8324	333.869	1.55564	24.8	86.203	503.8	104.666	75.016	79.9412	25.1016	32.3	356.774	14.8306	223.475	0.1064
10:26:38 AM	609	51727	2011.23	315.543	1.01077	319.335	67.2165	45.9044	995.254	994.718	644.017	13.7613	4.52476	70.6483	332.561	1.55699	24.8	86.2005	503.8	104.612	75.003	79.9076	25.1469	32.3	352.78	14.8541	223.44	0
10:27:56 AM	609	51734	1806.83	317.48	1.01115	320.694	60.6754	45.9676	995.234	994.945	557.069	8.52104	4.28408	77.9077	298.926	1.58456	25.1	80.4005	501.2	104.1	74.7	79.9	24.9	32.6	404.352	13.2975	221.459	0.026601

10:27:57 AM	609	51735 0	1806. 31	317. 681	1.01174	320.686	60.678	45.9 464	995. 236	994.945	553.676	8.568 38	4.2794 9	77.94 27	297.71 6	1.56 944	25.1	80.4001	501.1 9	104.1	74.7	79.9	24.9	32.6	400.7 57	13.27 47	221. 496	0.047 291
10:27:58 AM	609	51735 1	1806. 1	317. 548	1.01173	320.708	60.701 5	45.9 467	995. 237	994.718	555.003	8.591 58	4.2848 4	78.11 43	297.21 3	1.60 35	25.1	80.3063	501.1 17	104.1	74.7	79.9	24.9	32.6	397.0 91	13.25 59	221. 445	0.106 4
10:27:59 AM	609	51735 2	1806. 28	317. 172	1.01175	320.764	60.729 9	45.9 536	995. 232	994.945	541.805	8.400 32	4.2833 1	77.84 17	296.48 2	1.59 029	25.1	80.2197	501.1 03	104.1	74.7	79.9	24.9	32.6	393.3 12	13.25 24	221. 34	0.115 271
10:28:00 AM	609	51735 3	1806. 39	317. 181	1.01174	320.836	60.745 8	45.9 362	995. 232	994.718	539.872	8.489 8	4.2879 1	77.44 1	297.20 1	1.57 357	25.1	80.2037	501.1 01	104.01 9	74.7	79.9	24.9	32.6	389.6 63	13.25 18	221. 218	0.106 4
10:28:01 AM	609	51735 4	1805. 89	317. 064	1.01174	320.902	60.745 9	45.9 297	995. 232	994.718	533.342	8.379 28	4.2840 8	78.04 88	297.14 2	1.59 545	25.1	80.2007	501.1	103.84 1	74.7	79.9	24.8 282	32.6	385.9 62	13.26 4	221. 042	0.106 4
10:28:02 AM	609	51735 5	1806. 09	316. 732	1.01186	320.939	60.734 6	45.9 432	995. 234	994.718	526.256	8.369 97	4.2840 8	78.13 31	297.97 3	1.58 981	25.141	80.2001	501.1	103.80 8	74.7	79.9	24.8 052	32.6	382.2 5	13.27 15	220. 929	0.106 4
10:28:03 AM	609	51735 6	1806. 29	316. 322	1.01201	320.936	60.711 6	45.9 32	995. 236	994.718	527.284	8.241 25	4.2817 9	77.73 85	297.65 9	1.60 066	25.1891	80.17	500.8 39	103.80 1	74.7	79.9	24.8 01	32.6	378.6 12	13.24 25	220. 895	0.017 734
10:28:04 AM	609	51735 7	1806. 6	316. 751	1.01203	320.894	60.679	45.9 33	995. 236	994.718	524.47	8.204 39	4.2817 9	77.25 54	297.45 9	1.59 564	25.198	79.95	500.7 26	103.8	74.7	79.9	24.8 002	32.6	374.9 21	13.23 5	220. 918	0.026 601
10:28:05 AM	609	51735 8	1804. 36	317. 873	1.01204	320.857	60.650 7	45.9 419	995. 24	994.718	526.729	8.175 41	4.2787 3	77.68 86	297.43 5	1.58 385	25.1996	79.9093	500.7 05	103.8	74.7	79.843	24.8	32.6	371.2 94	13.24 85	221. 002	0.106 4
10:28:06 AM	609	51735 9	1806. 16	317. 66	1.01205	320.857	60.643 4	45.9 541	995. 238	994.718	541.128	8.145 66	4.2825 5	76.78 99	298.33 8	1.60 371	25.1999	79.9017	500.7 01	103.72 5	74.7	79.808	24.8	32.6	367.5 46	13.24 36	221. 063	0.076 847
10:28:07 AM	609	51736 0	1806. 11	317. 244	1.01204	320.893	60.668 8	45.9 378	995. 241	994.945	552.195	8.510 19	4.2879 8	76.60 38	297.32 8	1.60 816	25.2	79.9003	500.7	103.70 5	74.7	79.801 5	24.8	32.6	363.8 56	13.25 21	221. 041	0.106 4
10:28:08 AM	609	51736 1	1806. 23	317. 088	1.0118	320.932	60.692 4	45.9 143	995. 238	994.718	548.763	8.371 64	4.2886 6	77.22 55	297.17 8	1.60 42	25.1229	79.9001	500.6 18	103.70 1	74.7	79.800 3	24.8	32.6	360.2 48	13.29 69	220. 998	0.008 867
10:28:09 AM	609	51736 2	1806. 41	317. 104	1.01175	320.949	60.718 1	45.9 403	995. 235	994.718	555.373	8.400 54	4.2833 1	77.24 33	296.67 7	1.62 673	25.1042	79.8314	500.5 22	103.7	74.7	79.8	24.8	32.6	356.5 18	13.31 88	220. 986	0.106 4
10:28:10 AM	609	51736 3	1806. 1	317. 532	1.01173	320.935	60.721 4	45.9 511	995. 24	994.718	553.945	8.565 92	4.2879 8	76.60 87	295.71 6	1.61 252	25.1008	79.8058	500.5 04	103.7	74.7	79.8	24.8	32.6	352.8 25	13.32 35	221. 044	0.115 271
10:28:11 AM	609	51736 4	1806. 22	317. 503	1.01174	320.911	60.714 4	45.9 632	995. 24	994.718	555.426	8.618 66	4.2879 8	76.83 28	296.72 1	1.61 292	25.1001	79.8011	500.5 01	103.90 9	74.7	79.8	24.8	32.6	349.1 55	13.32 96	221. 251	0.026 601
10:28:12 AM	609	51736 5	1805. 99	317. 267	1.01174	320.908	60.710 8	45.9 501	995. 238	994.945	549.967	8.603 65	4.2886 6	76.96 7	296.55 1	1.60 657	25.1	79.8002	500.5	104.06 5	74.7	79.8	24.8	32.6	345.4 81	13.30 72	221. 521	0.106 4
10:28:13 AM	609	51736 6	1806. 43	317. 499	1.01174	320.923	60.723 4	45.9 681	995. 238	994.718	551.637	8.546 68	4.2871 3	76.37 43	297.00 3	1.60 338	25.1	79.8	500.5	104.09 3	74.7	79.8	24.8	32.6	341.8 27	13.26 19	221. 728	0.008 867
10:28:14 AM	609	51736 7	1805. 96	317. 108	1.01173	320.942	60.735 6	45.9 46	995. 242	994.718	545.448	8.545 04	4.2879 8	76.34 21	297.68	1.58 904	25.1	79.7458	500.4 23	104.09 9	74.7	79.8	24.8	32.6	338.1 11	13.28 79	221. 789	0.106 4
10:28:15 AM	609	51736 8	1806. 2	316. 719	1.01173	320.954	60.731 7	45.9 377	995. 241	994.945	526.75	8.177 88	4.2955 4	76.23 35	296.97 9	1.57 963	25.1	79.627	500.4 04	104.1	74.76 88	79.8	24.8	32.6	334.4 52	13.29 9	221. 706	0.088 67
10:28:16 AM	609	51736 9	1806. 25	316. 51	1.01173	320.963	60.714 9	45.9 659	995. 248	994.945	526.497	8.182 95	4.2863 7	76.48 91	296.75 4	1.57 734	25.1	79.605	500.4 01	104.1	74.87 57	79.8	24.8	32.6	330.8 06	13.26 39	221. 548	0.020 69
10:28:17 AM	609	51737 0	1806. 12	316. 751	1.01171	320.96	60.677 1	45.9 406	995. 254	994.945	529.32	8.304 23	4.2894 3	75.94 27	296.21 7	1.59 037	25.1	79.6009	500.4	104.1	74.89 55	79.8	24.8	32.6	327.2 28	13.25 39	221. 432	0.106 4
10:28:18 AM	609	51737 1	1806. 27	317. 092	1.01172	320.936	60.637 5	45.9 673	995. 254	994.718	531.654	8.313 56	4.2963 5	76.03 75	295.82 5	1.62 49	25.1	79.6002	500.4	104.1	74.89 92	79.8	24.8	32.6	323.4 69	13.21 74	221. 386	0.038 424
10:28:19 AM	609	51737 2	1805. 96	317. 418	1.01173	320.899	60.619 9	45.9 841	995. 25	994.718	542.669	8.445 69	4.2940 1	75.47 44	296.04 2	1.59 749	25.1	79.6	500.0 87	104.1	74.89 98	79.8	24.8	32.6	319.7 86	13.24 37	221. 327	0.106 4
10:28:20 AM	609	51737 3	1805. 94	317. 03	1.01172	320.866	60.628 3	45.9 5	995. 25	994.945	544.91	8.433 56	4.2924 8	76.26 51	295.22 6	1.61 296	25.1	79.5229	499.8 53	104.1	74.9	79.8	24.8	32.6	316.0 85	13.22 32	221. 234	0
10:28:21 AM	609	51737 4	1806. 48	317. 043	1.01172	320.854	60.654 4	45.9 474	995. 248	994.945	552.365	8.477 4	4.2886 6	76.10 89	295.90 7	1.59 587	25.1	79.5042	499.8 1	104.1	74.9	79.841	24.8	32.6	312.4 2	13.19 23	221. 076	0.106 4
10:28:22 AM	609	51737 5	1806. 05	317. 071	1.01173	320.852	60.678 8	45.9 74	995. 25	994.945	553.1	8.545 24	4.2993 6	76.32 51	297.14 8	1.58 994	25.1	79.5008	499.8 02	103.77 4	74.9	79.889 1	24.8	32.6	308.7 78	13.15 37	220. 82	0.106 4

10:28:23 AM	609	51737 6	1806.05	317.346	1.01172	320.843	60.689	45.9 374	995.25	994.945	553.577	8.550 87	4.2955 4	76.29 01	297.60 4	1.60 501	25.1	79.5001	499.8	103.63 2	74.9	79.898	24.8	32.6	305.0 69	13.19 29	220.53	0.106 404
10:28:24 AM	609	51737 7	1806.14	317.161	1.0117	320.829	60.689 2	45.9 325	995.261	994.718	547.548	8.294 53	4.2947 7	75.65	295.83 7	1.59 217	25.1	79.5	499.7 81	103.60 6	74.9	79.899 6	24.8	32.6	301.3 65	13.23 82	220.234	0.106 4
10:28:25 AM	609	51737 8	1806.16	316.787	1.0117	320.801	60.686 3	45.9 534	995.266	994.718	545.644	8.337 93	4.2970 7	76.02 87	296.39 5	1.60 419	25.1	79.4063	499.7 15	103.60 1	74.9	79.899 9	24.8	32.6	297.7 23	13.21 78	220.05	0.106 4
10:29:38 AM	609	51745 1	1600.24	317.477	1.01112	321.048	53.821 4	45.9 914	995.239	994.718	463.587	1.777 82	3.9838	82.33 71	266.71 1	1.57 916	24.8984	74.027	486.0 42	102.2	74.87 29	80.1	24.6	32.8 994	425.2 91	11.68 5	219.829	0.106 4
10:29:39 AM	609	51745 2	1600.11	317.802	1.01113	321.053	53.818 8	45.9 914	995.239	994.945	467.395	1.803 19	3.9807 5	82.03 33	265.59	1.58 605	24.8997	74.005	486.0 08	102.2	74.81 35	80.038 7	24.6	32.8 999	422.0 85	11.68 86	219.796	0.106 4
10:29:40 AM	609	51745 3	1600.15	317.815	1.01113	321.064	53.819 3	45.9 914	995.238	994.718	462.035	1.598 3	3.9761 6	82.11 16	263.97 8	1.57 781	24.8999	74.0009	486.0 01	101.88 2	74.80 25	80.007 2	24.6	32.7 771	418.8 44	11.72 42	219.732	0.106 4
10:29:41 AM	609	51745 4	1600.09	318.025	1.01114	321.089	53.824 1	46.0 025	995.238	994.718	455.682	1.821 5	3.9776 9	81.80 16	265.36 6	1.58 519	24.9	74.0002	486	101.81 5	74.80 05	80.001 3	24.6	32.8 326	415.5 8	11.70 2	219.697	0.106 4
10:29:42 AM	609	51745 5	1599.82	318.007	1.01113	321.135	53.836 1	45.9 989	995.241	994.945	463.361	1.948 4	3.9830 4	81.45 17	264.53 4	1.58 343	24.9	74	485.9 06	101.80 3	74.80 01	80.000 2	24.6	32.6 061	412.3 24	11.71 12	219.702	0.076 847
10:29:43 AM	609	51745 6	1600.07	317.818	1.01114	321.197	53.850 7	46.0 183	995.242	994.718	460.613	1.951 78	3.9830 4	80.96 2	264.85 5	1.55 751	24.9	73.8628	485.8 2	101.80 1	74.8	80	24.6	32.6 011	409.1 05	11.69 74	219.753	0.038 424
10:29:44 AM	609	51745 7	1600.46	317.94	1.01114	321.25	53.864 3	46.0 144	995.241	994.945	454.788	1.629 78	3.9860 9	81.13 97	264.28	1.57 062	24.9	73.8116	485.8 04	101.8	74.65 08	80	24.5 478	32.6 002	405.8 61	11.65 38	219.767	0.106 4
10:29:45 AM	609	51745 8	1600.18	317.355	1.01113	321.28	53.866 9	45.9 957	995.239	994.718	465.061	1.680 74	3.9807 5	80.55 91	264.02 7	1.56 756	24.9	73.8022	485.8 01	101.98 4	74.60 94	80	24.5 089	32.6 002	402.6 49	11.64 57	219.669	0.008 867
10:29:46 AM	609	51745 9	1599.59	317.7	1.01114	321.282	53.864 8	46.0 351	995.243	994.718	462.908	1.830 87	3.9792 2	81.28 72	262.79 6	1.56 465	24.9	73.8004	485.8	102.07 8	74.60 17	80	24.5 016	32.6 002	399.4 06	11.66 09	219.482	0.026 601
10:29:47 AM	609	51746 0	1600.43	317.505	1.01114	321.274	53.850 3	46.0 278	995.242	994.718	458.006	1.803 69	3.9792 2	81.30 7	263.94 4	1.56 358	24.9	73.8001	485.8	102.09 6	74.60 03	80	24.5 003	32.6 002	396.1 58	11.70 35	219.258	0.106 4
10:29:48 AM	609	51746 1	1600.32	317.802	1.01113	321.265	53.829 1	46.0 386	995.248	994.718	455.617	1.868 34	3.9807 5	81.19 59	262.91 2	1.58 561	24.9	73.6957	485.4 82	102.09 9	74.60 01	80	24.5 001	32.6 002	392.7 97	11.73 59	219.14	0.056 158
10:29:49 AM	609	51746 2	1600.48	317.746	1.01112	321.263	53.817 7	46.0 041	995.245	994.718	458.006	1.891 58	3.9799 8	80.80 31	263.89 7	1.56 752	24.9	73.6177	485.4 15	102.1	74.6	80	24.5	32.6 002	389.6 17	11.70 69	219.227	0.106 4
10:29:50 AM	609	51746 3	1600.2	318.292	1.01113	321.27	53.821 6	45.9 958	995.243	994.718	457.29	1.762	3.9807 5	81.02 84	263.37 7	1.59 966	24.9	73.6033	485.4 03	102.01 9	74.6	80	24.5	32.6 002	386.3 53	11.68 11	219.462	0.020 69
10:29:51 AM	609	51746 4	1600.38	318.051	1.01113	321.29	53.837	46.0 005	995.239	994.718	466.661	1.784 61	3.9792 2	80.58 25	263.33 7	1.59 75	24.9	73.6006	485.4 01	101.84 1	74.6	80	24.5	32.4 775	383.0 15	11.71 65	219.7	0.106 4
10:29:52 AM	609	51746 5	1600.27	318.248	1.01113	321.317	53.858 5	46.0 087	995.239	994.718	459.462	1.788 8	3.9784 5	80.88 61	263.34 1	1.61 354	24.9	73.6001	485.4	101.80 8	74.6	80	24.5	32.4 144	379.7 47	11.75 24	219.856	0.106 4
10:29:53 AM	609	51746 6	1599.89	318.226	1.01113	321.347	53.880 8	46.0 026	995.239	994.718	460.498	1.789 58	3.9845 7	81.27 41	264.17 9	1.60 186	24.9	73.6	485.1 39	101.80 1	74.6	80	24.5	32.4 027	376.6 24	11.73 09	219.898	0.097 54
10:29:54 AM	609	51746 7	1600.05	317.715	1.01113	321.368	53.888	46.0 062	995.238	994.945	463.799	1.728 2	3.9891 5	80.89 08	263.35 9	1.59 518	24.9	73.5206	485.0 26	101.8	74.6	80	24.5	32.4 005	373.3 41	11.74 75	219.912	0.115 271
10:29:55 AM	609	51746 8	1600.21	317.768	1.01114	321.37	53.889	46.0 22	995.238	994.945	457.372	1.923 46	3.9853 3	80.96 86	263.36 4	1.58 474	24.9	73.5038	485.0 05	101.8	74.6	79.906 3	24.5	32.4 001	370.1 7	11.75 06	219.999	0.106 4
10:29:56 AM	609	51746 9	1600.45	317.891	1.01114	321.354	53.880 1	46.0 433	995.242	994.718	461.157	1.798 43	3.9853 3	81.14 84	264.75 1	1.57 659	24.9	73.5007	485.0 01	101.8	74.6	79.819 7	24.5	32.4 2	366.8 64	11.75 6	220.142	0.059 11
10:29:57 AM	609	51747 0	1600.79	318.078	1.01115	321.343	53.870 3	46.0 542	995.242	994.718	458.616	1.965 7	3.9899 1	80.56 97	263.08 7	1.57 647	24.9	73.5001	485	101.8	74.6	79.803 6	24.5	32.5 667	363.6 64	11.73 07	220.297	0.056 158
10:29:58 AM	609	51747 1	1600.66	318.717	1.01115	321.356	53.872 8	46.0 494	995.243	994.945	462.811	1.731 8	3.9746 3	80.41 13	263.19 6	1.56 644	24.9	73.5	484.9 19	101.8	74.6	79.800 7	24.5	32.5 938	360.4 24	11.69 22	220.41	0.106 4
10:29:59 AM	609	51747 2	1600.41	318.525	1.01114	321.401	53.884 8	46.0 274	995.239	994.718	462.129	1.687 79	3.9784 5	80.73 73	263.62 3	1.56 944	24.9	73.3861	484.7 41	101.8	74.6	79.800 1	24.5	32.5 989	357.1 91	11.69 4	220.373	0.106 4

10:30:00 AM	609	51747 3	1600.32	318.692	1.01114	321.482	53.915 5	46.0 186	995.237	994.718	461.467	1.586 03	3.9906 8	80.62 3	263.21 7	1.58 171	24.9	73.316	484.7 08	101.8	74.6	79.8	24.5	32.5 998	353.8 78	11.73 25	220. 21	- 0.011 82
10:30:01 AM	609	51747 4	1600.65	318.709	1.01115	321.567	53.949 9	46.0 232	995.232	994.945	464.45	1.676 5	3.9868 6	79.78 88	263.45 3	1.57 285	24.9	73.303	484.7 01	101.92 3	74.6	79.8	24.5	32.6	350.5 94	11.74 65	219. 962	0.106 4
10:30:02 AM	609	51747 5	1600.64	318.945	1.01114	321.655	53.976 6	46.0 028	995.232	994.945	462.744	1.941 7	3.9883 9	81.29 66	263.21 7	1.55 408	24.9	73.3005	484.7	102.06 7	74.6	79.8	24.5	32.6 686	347.3 74	11.71 75	219. 738	0.106 4
10:30:03 AM	609	51747 6	1600.39	318.784	1.01114	321.738	54.000 6	46.0 119	995.232	994.718	459.986	1.876 85	3.9883 9	80.96 65	264.17 1	1.55 997	24.9	73.3001	484.7	102.09 4	74.6	79.8	24.5	32.6 942	344.1 23	11.71 23	219. 596	0.065 025
10:30:04 AM	609	51747 7	1600.61	318.914	1.01115	321.816	54.018 8	46.0 203	995.235	994.718	463.21	1.710 67	3.9975 6	80.19 36	264.15 3	1.56 449	24.9	73.2729	484.7	102.09 9	74.6	79.8	24.5	32.6 989	340.8 75	11.73 88	219. 547	0.239 409
10:30:05 AM	609	51747 8	1600.48	318.71	1.01114	321.881	54.029 7	46.0 275	995.235	994.718	463.356	1.796 59	3.9914 4	80.23 76	263.77 2	1.55 922	24.9	73.2135	484.7	102.1	74.63 8	79.8	24.5	32.6 998	337.6 4	11.74 29	219. 531	0.106 4
10:30:06 AM	609	51747 9	1600.41	318.602	1.01115	321.936	54.032 9	46.0 384	995.234	994.945	463.275	1.749 46	3.9937 3	80.14 02	263.71 3	1.57 833	24.9	73.2025	484.7	102.1	74.77	79.8	24.5	32.7	334.3 91	11.73 86	219. 515	0
10:30:07 AM	609	51748 0	1600.64	318.737	1.01115	321.987	54.03	46.0 179	995.231	994.718	457.269	1.782 29	3.9929 7	80.63 03	263.99 9	1.57 748	24.9	73.2005	484.7	101.78 2	74.79 44	79.8	24.5	32.5 771	331.1 49	11.70 34	219. 519	0.106 4
10:31:31 AM	609	51756 4	1401.36	308.589	1.01118	312.562	45.884 9	46.0 509	995.213	994.718	371.892	1.378 55	3.5803 8	83.98 15	234.25 3	1.54 883	24.9	67.2565	467.8 53	100.2	74.5	79.9	24.1 387	493.2 44	10.07 22	222. 675	0.106 4	
10:31:32 AM	609	51756 5	1400.64	308.979	1.01119	312.544	45.881 5	46.0 77	995.213	994.718	363.061	1.182 96	3.5826 7	83.91 74	232.96 2	1.55 027	24.9	67.2105	467.8 1	100.2	74.5	79.9	24.1 072	490.4 86	10.05 43	222. 329	0.106 4	
10:31:33 AM	609	51756 6	1401.57	308.722	1.01119	312.518	45.864 4	46.0 764	995.215	994.718	366.723	1.131 91	3.5872 6	83.76 34	233.57 2	1.54 276	24.9	67.2019	467.8 02	100.13 5	74.5	79.9	24.1 113	487.7 63	10.02 18	222. 024	0.085 714	
10:31:34 AM	609	51756 7	1401.69	309.451	1.01119	312.504	45.856	46.0 817	995.215	994.718	373.061	1.410 18	3.5712 1	83.92 21	233.26 9	1.54 993	24.9	67.2004	467.8	100.10 6	74.5	79.9	24.1 836	485.0 07	10.01 58	221. 806	0.106 4	
10:31:35 AM	609	51756 8	1401.81	309.01	1.01119	312.509	45.844 3	46.0 744	995.214	994.718	376.721	1.619 39	3.5803 8	83.55 31	233.51 6	1.54 526	24.9	67.2001	467.8	100.10 1	74.5	79.9	24.1 97	482.2	10.01 47	221. 621	0.050 25	
10:31:36 AM	609	51756 9	1402.4	308.679	1.01119	312.502	45.848 1	46.0 659	995.214	994.718	369.726	1.472 69	3.5895 5	83.31 2	232.93 1	1.54 876	24.9	67.0594	467.4 74	100.1	74.5	79.9	24.1 343	479.4 28	10.01 52	221. 445	0.106 4	
10:31:37 AM	609	51757 0	1402.3	308.567	1.01119	312.477	45.858 1	46.0 798	995.214	994.718	374.832	1.301 29	3.5842	83.47 05	233.20 5	1.55 599	24.9	66.9295	467.4 14	100.1	74.5	79.9	24.1 585	476.6 4	10.01 32	221. 228	0.106 4	
10:31:38 AM	609	51757 1	1401.94	308.507	1.01119	312.44	45.856 2	46.0 824	995.214	994.718	368.12	1.410 13	3.5834 4	83.06 58	233.80 3	1.55 982	24.9	66.9055	467.4 03	100.1	74.5	79.9	24.1 652	473.8 93	9.961 33	221. 009	0.041 38	
10:31:39 AM	609	51757 2	1402.36	308.87	1.01119	312.409	45.846 5	46.0 692	995.214	994.718	367.485	1.284 49	3.5864 9	83.23 42	232.27 6	1.56 163	24.9	66.901	467.4	100.1	74.5	79.9	24.1 121	471.1 11	10.02 22	220. 809	0.106 4	
10:31:40 AM	609	51757 3	1403.95	308.923	1.01118	312.385	45.834 6	46.0 608	995.214	994.718	372.209	1.251 79	3.5834 4	82.78 45	232.23 064	1.58	24.9	66.9002	467.4	100.1	74.5	79.9	24.1 022	468.3 23	10.01 63	220. 718	0.106 4	
10:31:41 AM	609	51757 4	1402.55	308.454	1.01119	312.37	45.841 1	46.0 632	995.214	994.718	368.393	1.524 35	3.5895 5	82.60 37	232.11 747	1.55	24.9	66.89	467.0 09	100.1	74.5	79.9	24.1 004	465.6 03	10.01 48	220. 662	0.038 424	
10:31:42 AM	609	51757 5	1401.76	308.882	1.01119	312.344	45.849 7	46.0 793	995.216	994.718	368.97	1.431 19	3.5903 1	82.80 72	232.00 4	1.55 955	24.9	66.8167	466.8 39	100.1	74.5	79.9	24.1 001	462.8 59	9.980 13	220. 664	0.106 4	
10:31:43 AM	609	51757 6	1401.67	308.823	1.01119	312.3	45.854 2	46.0 665	995.216	994.718	369.708	1.459 78	3.5864 9	82.62 02	232.37 3	1.56 091	24.9	66.8031	466.8 07	100.1	74.5	79.9	24.1	460.1 04	10.00 51	220. 679	0.106 4	
10:31:44 AM	609	51757 7	1401.78	308.697	1.01118	312.268	45.850 2	46.0 559	995.217	994.945	374.1	1.325 05	3.5849 6	82.63 5	232.25 1	1.56 221	24.9	66.8006	466.8 01	99.876 3	74.5	79.9	24.1	457.3 67	9.980 43	220. 643	0.029 56	
10:31:45 AM	609	51757 8	1402.16	308.806	1.01118	312.256	45.843 1	46.0 465	995.216	994.718	371.886	1.343 52	3.5941 3	82.05 04	232.38 8	1.56 732	24.9	66.8001	466.8	99.814 1	74.5	79.9	24.1	454.6 18	9.940 61	220. 554	0.106 4	
10:31:46 AM	609	51757 9	1402.49	308.581	1.01119	312.252	45.837 6	46.0 713	995.216	994.718	368.587	1.521 11	3.5987 2	82.39 69	232.70 5	1.55 922	24.9	66.8	466.6 28	99.802 6	74.5	79.9	24.1	451.8 31	9.945 1	220. 369	0.026 601	

10:31:47 AM	609	51758 0	1402. 4	308. 807	1.01119	312.238	45.838 1	46.0 667	995. 216	994.718	360.356	1.278 51	3.5918 4	82.08 24	232.04 9	1.55 505	24.9	66.6628	466.3 61	99.800 5	74.5	79.9	24.1	32.4	449.0 87	9.978 39	220. 163	0.038 424
10:31:48 AM	609	51758 1	1401. 69	308. 935	1.01119	312.222	45.84	46.0 799	995. 216	994.416	369.254	1.283 35	3.5857 3	82.12 46	231.20 1	1.53 447	24.9	66.6116	466.3 11	99.800 1	74.5	79.9	24.1	32.4	446.2 9	10.00 34	219. 95	0.106 4
10:31:49 AM	609	51758 2	1401. 83	308. 479	1.01119	312.206	45.838 3	46.0 824	995. 216	994.718	368.471	1.324 08	3.5910 8	82.19 76	231.73	1.55 786	24.9	66.6022	466.3 02	99.706 3	74.5	79.9	24.1	32.4	443.5 29	9.985 87	219. 856	0.056 158
10:31:50 AM	609	51758 3	1401. 89	308. 696	1.01119	312.195	45.834 5	46.0 761	995. 216	994.718	364.993	1.259 62	3.5964 2	82.31 88	231.53 2	1.55 834	24.9	66.6004	466.3	99.619 7	74.5	79.9	24.1	32.6 059	440.7 71	9.961 57	219. 907	0.230 542
10:31:51 AM	609	51758 4	1401. 91	309. 148	1.01118	312.192	45.828 3	46.0 566	995. 216	994.718	363.69	1.840 12	3.5964 2	81.81 47	231.64	1.55 238	24.9	66.6001	466.3	99.603 7	74.5	79.9	24.1	32.6 826	438.0 12	9.935 34	220. 023	0.106 4
10:31:52 AM	609	51758 5	1401. 52	308. 241	1.01118	312.206	45.829 9	46.0 552	995. 216	994.718	365.615	1.469 48	3.5979 5	81.86 47	230.82 1	1.57 193	24.9	66.5729	465.9 27	99.600 7	74.5	79.9	24.1	32.6 968	435.2 47	9.949 74	220. 089	0.144 828
10:31:53 AM	609	51758 6	1401. 58	308. 26	1.01119	312.202	45.831 7	46.0 729	995. 216	994.718	369.008	1.546 1	3.5918 4	81.82 87	230.76 8	1.56 35	24.9	66.5135	465.8 24	99.600 1	74.5	79.9	24.1	32.6 994	432.5 35	9.946 52	220. 005	0.056 158
10:31:54 AM	609	51758 7	1401. 82	308. 069	1.01119	312.166	45.821 1	46.0 679	995. 214	994.718	371.933	1.254 14	3.6002 4	81.24 13	231.03 1	1.53 693	24.9	66.5025	465.8 04	99.6	74.5	79.769 7	24.1	32.6 999	429.7 42	9.955 81	219. 81	0.106 4
10:31:55 AM	609	51758 8	1401. 74	308. 322	1.01119	312.111	45.802 6	46.0 802	995. 214	994.945	368.503	1.357 87	3.5979 5	81.33 56	230.36	1.55 186	24.9	66.5005	465.8 01	99.6	74.5	79.712 9	24.1	32.7	426.9 5	10.00 35	219. 653	0.106 4
10:31:56 AM	609	51758 9	1402. 15	308. 076	1.01119	312.063	45.774 2	46.0 595	995. 212	994.718	368.387	1.363 04	3.5994 8	81.37 43	231.16 4	1.57 522	24.9	66.5001	465.8	99.6	74.5	79.702 4	24.1	32.7	424.2 16	10.01 83	219. 709	0.106 4
10:31:57 AM	609	51759 0	1402. 19	308. 254	1.01119	312.014	45.755 7	46.0 725	995. 212	994.718	374.154	1.435 76	3.6078 9	81.31 52	230.47 5	1.56 815	24.9	66.5	465.5 91	99.6	74.5	79.700 4	24.1	32.7	421.4 5	9.989 7	219. 965	0.038 424
10:31:58 AM	609	51759 1	1401. 95	308. 494	1.01119	311.971	45.752 7	46.0 761	995. 212	994.718	369.274	1.578 36	3.6010 1	81.47 9	229.97 2	1.55 814	24.9	66.3565	465.4 35	99.6	74.5	79.700 1	24.1	32.7	418.6 47	9.990 22	220. 342	0.106 4
10:31:59 AM	609	51759 2	1401. 64	308. 357	1.01112	311.94	45.757 7	46.0 817	995. 212	994.718	373.216	1.487 89	3.6040 6	81.16 83	230.00 9	1.56 968	24.9	66.3105	465.4 07	99.6	74.5	79.7	24.1	32.7	415.8 96	10.02 84	220. 689	0.065 025
10:32:00 AM	609	51759 3	1401. 86	308. 25	1.01118	311.911	45.763 2	46.0 42	995. 212	994.718	373.688	1.526 21	3.6002 4	81.33 18	230.89 9	1.55 688	24.9	66.3019	465.4 01	99.477 5	74.5	79.7	24.1	32.7	413.1 93	9.999 39	220. 911	0.153 695
10:33:17 AM	609	51767 0	1207. 32	290. 287	1.01116	293.922	37.135 6	45.9 995	995. 212	994.718	284.209	0.446	3.1089 5	81.58 75	202.41 2	1.59 91	24.9	61.5062	449.5 07	97.9	74.67	79.9	23.9	32.4 001	509.4 83	8.207 5	222. 631	0.038 424
10:33:18 AM	609	51767 1	1207. 24	290. 478	1.01117	293.897	37.130 4	46.0 283	995. 212	994.718	294.486	0.329 3	3.1074 3	81.40 92	202	1.62 536	24.9	61.5011	449.5 01	97.820 6	74.69 44	79.9	23.9	32.4	507.2 16	8.199 39	222. 656	0.106 4
10:33:19 AM	609	51767 2	1206. 9	290. 201	1.01117	293.864	37.122 8	46.0 094	995. 212	994.718	290.084	0.313 1	3.1120 1	81.45 71	202.81 6	1.62 815	24.9	61.5002	449.5	97.803 8	74.69 9	79.9	23.9	32.4	504.9 71	8.197 89	222. 822	0.097 54
10:33:20 AM	609	51767 3	1207. 26	290. 014	1.01118	293.809	37.113 9	46.0 285	995. 212	994.718	290.725	0.440 92	3.1166	81.31 05	202.28 2	1.62 788	24.9	61.5	449.2 19	97.800 7	74.69 98	79.9	23.9	32.4	502.7 62	8.179 8	223. 066	0
10:33:21 AM	609	51767 4	1207. 28	290. 09	1.01117	293.731	37.103 1	46.0 097	995. 212	994.718	293.371	0.293 77	3.1089 5	81.18 54	201.34 8	1.60 28	24.9	61.4314	448.9 59	97.800 1	74.7	79.9	23.9	32.4	500.4 98	8.126 12	223. 192	0.144 828
10:33:22 AM	609	51767 5	1207. 37	290. 166	1.01117	293.656	37.091 6	46.0 055	995. 212	994.718	289.354	0.447 7	3.1150 7	80.80 34	202.03 8	1.63 108	24.9	61.4058	448.9 11	97.8	74.7	79.9	23.9	32.4	498.2 42	8.138 87	223. 156	0.106 4
10:33:23 AM	609	51767 6	1207. 11	290. 257	1.01117	293.604	37.086 2	46.0 055	995. 212	994.416	292.563	0.527 73	3.1135 4	80.71 26	202.02 5	1.61 441	24.9	61.4011	448.9 02	97.852 2	74.7	79.9	23.9	32.4	495.9 97	8.110 32	222. 918	0.011 82
10:33:24 AM	609	51767 7	1207. 32	290. 305	1.01116	293.571	37.085 9	45.9 94	995. 212	994.718	284.853	0.393 1	3.1143	80.89 53	200.96 3	1.61 024	24.9	61.4002	448.9	97.891 1	74.7	79.9	23.9	32.3 206	493.7 33	8.122 65	222. 475	0.106 4
10:33:25 AM	609	51767 8	1207. 06	290. 229	1.01172	293.554	37.111 7	46.0 005	995. 212	994.718	297.733	0.298 71	3.1166	80.43 36	201.79 8	1.64 529	25.0838	61.4	448.9	97.898 4	74.7	79.9	23.9	32.3 038	491.4 57	8.166 05	222. 092	0.020 69
10:33:26 AM	609	51767 9	1207. 52	290. 111	1.01203	293.546	37.129 8	46.0 014	995. 212	994.718	289.202	0.445 57	3.1211 8	80.71 81	201.64 3	1.65 871	25.1785	61.2772	448.4 93	97.899 7	74.7	79.9	23.9	32.3 007	489.1 87	8.174 09	221. 847	0.106 4

10:33:27 AM	609	517680	1207.6	290.262	1.0121	293.543	37.138	46.0217	995.212	994.718	288.241	0.31621	3.12424	80.3546	202.528	1.62225	25.196	61.1328	448.417	97.8999	74.7	79.9	23.9	32.3001	486.94	8.15334	221.804	0.008867
10:33:28 AM	609	517681	1207.39	290.27	1.0121	293.544	37.1389	46.025	995.212	994.718	282.668	0.49213	3.11889	80.4761	201.506	1.59425	25.1993	61.1061	448.403	97.9	74.7	79.9	23.9	32.3	484.716	8.13712	221.967	0.1064
10:33:29 AM	609	517682	1207.39	290.353	1.0121	293.551	37.1399	45.9934	995.212	994.718	281.103	0.31945	3.12271	80.1931	201.012	1.67702	25.1999	61.1011	448.401	97.9	74.7	79.9	23.9	32.3	482.397	8.11198	222.112	0.1064
10:33:30 AM	609	517683	1207.09	290.453	1.01203	293.568	37.1404	46.0088	995.212	994.718	283.292	0.47684	3.11889	80.0902	200.318	1.64843	25.1729	61.1002	448.4	97.9	74.7	79.9	23.9	32.3911	480.184	8.10533	222.1	0.076847
10:33:31 AM	609	517684	1206.1	290.527	1.01183	293.59	37.1318	46.0073	995.212	994.718	298.037	0.36328	3.12118	79.9158	200.131	1.64585	25.1135	61.1	448.032	97.9	74.7	79.9	23.9	32.3984	477.933	8.09893	221.892	0.1064
10:33:32 AM	609	517685	1206.96	289.929	1.01179	293.621	37.1292	45.9943	995.212	994.718	278.152	0.53938	3.12653	79.9803	199.669	1.62776	25.1025	60.9458	447.843	97.9	74.7	79.9	23.9	32.3997	475.674	8.11582	221.571	0.1064
10:33:33 AM	609	517686	1207.17	289.995	1.01178	293.645	37.1285	45.9919	995.212	994.718	286.443	0.37066	3.12347	79.8335	200.381	1.60245	25.1005	60.9085	447.808	97.9	74.7	79.9	23.9	32.3999	473.451	8.15654	221.254	0
10:33:34 AM	609	517687	1207.09	290.165	1.01179	293.663	37.121	46.0109	995.212	994.718	288.332	0.28242	3.12347	79.4645	199.836	1.64263	25.1001	60.9016	447.801	97.6847	74.7	79.9	23.9	32.4	471.094	8.14415	221.15	0.1064
10:33:35 AM	609	517688	1207.36	290.154	1.01178	293.675	37.115	45.995	995.212	994.718	289.406	0.27292	3.12347	79.6507	201.431	1.66243	25.1	60.9003	447.8	97.6157	74.7	79.9	23.9	32.4	468.849	8.15943	221.258	0.09754
10:33:36 AM	609	517689	1207.07	290.057	1.01131	293.678	37.0928	45.9921	995.212	994.718	287.356	0.34137	3.12882	79.3879	200.431	1.66788	24.9458	60.9001	447.637	97.6029	74.7	79.9	23.9	32.4	466.588	8.15644	221.531	0.1064
10:33:37 AM	609	517690	1205.71	290.485	1.01119	293.669	37.0876	45.999	995.212	994.718	290.789	0.28191	3.11354	79.5773	200.144	1.57344	24.9085	60.8431	447.281	97.6005	74.7	79.9	23.9	32.4	464.36	8.1365	221.875	0.1064
10:33:38 AM	609	517691	1207.61	289.952	1.01117	293.641	37.0885	45.9928	995.212	994.718	281.072	0.33486	3.13035	79.7646	200.461	1.5823	24.9016	60.808	447.215	97.6001	74.7	79.9	23.9	32.4	462.138	8.09875	222.079	0.1064
10:33:39 AM	609	517692	1207.49	289.955	1.01116	293.6	37.0862	45.9917	995.212	994.718	289.634	0.30859	3.13111	79.9206	200.486	1.61962	24.9003	60.8015	447.203	97.6	74.7	79.9	23.9	32.4	459.89	8.0929	222.095	0.02069
10:33:40 AM	609	517693	1207.65	290.132	1.01116	293.559	37.0894	45.9914	995.212	994.718	279.854	0.35467	3.1357	79.6162	200.584	1.64276	24.9001	60.8003	447.201	97.6	74.7	79.9	23.9	32.5372	457.622	8.1018	221.888	0.085714
10:33:41 AM	609	517694	1207.39	290.19	1.01116	293.526	37.0894	45.9914	995.212	994.718	289.154	0.23238	3.1334	79.6032	200.709	1.6093	24.9	60.8001	447.2	97.6	74.7	79.9	23.9	32.5884	455.376	8.13297	221.542	0.1064
10:33:42 AM	609	517695	1207.7	290.133	1.01116	293.493	37.0909	45.9914	995.212	994.718	285.129	0.32496	3.13417	79.6986	200.898	1.65104	24.9	60.7458	446.913	97.6	74.7	79.9	23.9	32.5978	453.06	8.16796	221.261	0.065025
10:33:43 AM	609	517696	1207.72	291.374	1.01117	293.46	37.1086	46.0041	995.212	994.718	289.363	0.37133	3.10437	79.7945	200.621	1.6708	24.9	60.627	446.821	97.6	74.7	79.9	23.9	32.5996	450.72	8.17444	221.209	0.1064
10:33:44 AM	609	517697	1205.77	290.643	1.01116	293.443	37.1137	45.9937	995.212	994.718	288.761	0.37564	3.12653	79.6003	200.181	1.64397	24.9	60.605	446.804	97.6	74.7	79.9	23.9	32.5999	448.528	8.17369	221.399	0.01182
10:33:45 AM	609	517698	1207.33	290.058	1.01116	293.435	37.1232	45.9918	995.212	994.945	291.176	0.33077	3.13646	79.4686	200.81	1.59438	24.9	60.6009	446.801	97.6	74.7	79.9	23.9	32.5312	446.318	8.15791	221.789	0.183251
10:33:46 AM	609	517699	1207.59	290.275	1.0112	293.429	37.1308	45.9915	995.212	994.718	301.809	0.30849	3.13722	79.4044	200.796	1.57544	24.92	60.6002	446.8	97.6	74.7	79.9	23.8349	32.4243	444.068	8.13146	222.138	0.1064
10:34:47 AM	609	517700	1013.31	260.756	1.0118	265.737	28.1902	45.9827	995.212	994.416	180.117	0.43516	2.60544	80.5337	177.265	1.62974	25.1058	55.6435	424.122	95.9	74.4	79.8	23.9999	32.3992	332.093	6.30451	225.466	0.1064
10:34:48 AM	609	517701	1011.42	261.305	1.01178	265.692	28.1642	45.9608	995.212	994.416	169.242	0.18515	2.58634	80.1659	175.342	1.55559	25.1011	55.5266	423.941	95.9	74.4	79.8	23.9387	32.3999	330.329	6.34307	225.44	0.038424
10:34:49 AM	609	517702	1010.49	262.548	1.01178	265.631	28.1274	45.9771	995.212	994.718	175.68	0.48045	2.58634	80.2921	176.122	1.54138	25.1002	55.5049	423.908	95.9	74.4	79.8	23.954	32.4	328.571	6.33286	225.727	0.153695
10:34:50 AM	609	517703	1014.09	262.701	1.01178	265.627	28.0984	45.9795	995.212	994.718	178.013	0.20935	2.59245	80.038	175.981	1.56367	25.1	55.5009	423.901	95.9	74.5032	79.8	23.9915	32.4	326.793	6.30968	226.283	0.1064

10:34:51 AM	609	51776 4	1015. 1	262. 696	1.01178	265.618	28.101 1	45.9 892	995. 212	994.718	173.264	0.298 65	2.5978	80.20 57	175.34 5	1.63 001	25.1	55.5002	423.9	95.9	74.66 35	79.868 6	23.9 984	32.4	324.9 96	6.326 14	226. 9	0.017 734
10:34:52 AM	609	51776 5	1016. 38	263. 502	1.01178	265.635	28.136 3	45.9 669	995. 212	994.718	189.171	0.365 27	2.5978	79.74 61	175.04	1.56 878	25.1	55.5	423.9	95.492 7	74.69 32	79.894 2	23.9 997	32.5 043	323.2 72	6.347 47	227. 38	0.059 11
10:34:53 AM	609	51776 6	1013. 74	262. 196	1.01183	265.678	28.173 5	45.9 85	995. 212	994.416	183.214	0.407 5	2.6054 4	79.74 7	175.69 9	1.52 459	25.119	55.5	423.9	95.417 2	74.69 87	79.898 9	23.9 999	32.5 823	321.5 83	6.329 3	227. 556	0.106 4
10:34:54 AM	609	51776 7	1012. 46	262. 995	1.01204	265.712	28.215 1	45.9 827	995. 212	994.718	188.233	0.420 73	2.5733 5	79.71 91	175.06 1	1.66 673	25.185	55.5	423.2 74	95.403 2	74.69 98	79.899 8	24	32.5 967	319.8 03	6.314 58	227. 457	0.106 4
10:34:55 AM	609	51776 8	1016. 53	262. 116	1.01209	265.716	28.210 2	45.9 898	995. 212	994.718	200.599	0.482 14	2.6184 3	79.35 82	175.93 1	1.49 924	25.1972	55.3508	422.8 88	95.400 6	74.7	79.9	24	32.5 994	318.0 22	6.327 31	227. 294	0.056 158
10:34:56 AM	609	51776 9	1012. 03	262. 493	1.01209	265.682	28.212 2	45.9 662	995. 212	994.416	177.369	0.246 79	2.6062	79.32 64	174.46 8	1.67 093	25.1995	55.3094	422.8 16	95.400 1	74.46 18	79.9	24	32.5 999	316.3 21	6.364 92	227. 149	0.106 4
10:34:57 AM	609	51777 0	1012. 68	263. 311	1.01208	265.645	28.216 5	45.9 64	995. 212	994.416	180.083	0.506 11	2.5993 3	79.24 14	174.66 7	1.51 341	25.1999	55.3017	422.8 03	95.537 4	74.41 14	79.9	24	32.5 8	314.5 74	6.337 53	227. 118	0
10:34:58 AM	609	51777 1	1011. 99	262. 659	1.01208	265.634	28.217 4	45.9 516	995. 212	994.718	198.107	0.393 91	2.6107 9	79.16 28	174.70 5	1.64 904	25.2	55.3003	422.8 01	95.588 4	74.40 21	79.9	24	32.4 333	312.8 51	6.274 31	227. 156	0.106 4
10:34:59 AM	609	51777 2	1008. 44	262. 326	1.01186	265.635	28.187 4	45.9 45	995. 212	994.718	181.879	0.355 72	2.6184 3	78.56 96	174.87 8	1.50 096	25.1282	55.3001	422.6 29	95.597 8	74.40 04	79.9	24	32.4 062	311.1 17	6.266 84	227. 091	0.106 4
10:35:00 AM	609	51777 3	1005. 52	264. 001	1.0118	265.694	28.167 8	45.9 809	995. 212	994.718	192.568	0.320 14	2.5764 1	79.11 1	173.41 1	1.66 162	25.1052	55.1861	422.0 35	95.599 6	74.40 01	79.9	24	32.4 011	309.3 96	6.281 73	226. 891	0.056 158
10:35:01 AM	609	51777 4	1009. 51	260. 694	1.01178	265.792	28.119 6	45.9 605	995. 212	994.416	183.042	0.371 19	2.6230 1	78.40 47	174.18	1.55 077	25.101	55.116	421.9 25	95.599 9	74.4	79.9	24	32.4 002	307.6 51	6.280 61	226. 559	0.029 56
10:35:02 AM	609	51777 5	1011. 39	260. 601	1.01178	265.871	28.080 5	45.9 724	995. 212	994.718	182.144	0.289 45	2.6283 6	78.07 35	174.42 4	1.63 004	25.1002	55.103	421.9 05	95.496 8	74.4	79.820 6	24	32.4	305.9 37	6.247 64	226. 267	0.106 4
10:35:03 AM	609	51777 6	1012. 7	261. 906	1.01178	265.88	28.076 8	45.9 786	995. 212	994.718	178.051	0.247 14	2.6291 3	78.05 6	173.92 7	1.54 516	25.1	55.1005	421.9 01	95.336 5	74.4	79.803 8	24	32.4	304.1 48	6.253 39	226. 016	0.106 4
10:35:04 AM	609	51777 7	1011. 53	262. 489	1.01178	265.848	28.076 2	45.9 846	995. 212	994.718	186.877	0.512 57	2.6184 3	78.22 66	174.29 1	1.56 898	25.1	55.1001	421.9	95.306 8	74.4	79.800 7	24	32.4	302.3 63	6.277 03	225. 897	0.020 69
10:35:05 AM	609	51777 8	1015. 99	260. 124	1.01178	265.838	28.085 8	45.9 787	995. 212	994.416	194.311	0.477 88	2.6375 3	77.75 35	173.48 8	1.55 814	25.1	55.1	421.4 2	95.301 3	74.4	79.800 1	24	32.4	300.6 59	6.250 48	225. 793	0.106 4
10:35:06 AM	609	51777 9	1011. 64	259. 702	1.01178	265.795	28.096 9	45.9 89	995. 212	994.718	174.137	0.461 58	2.6230 1	78.37 25	173.79 2	1.59 669	25.1	54.8556	421.2 41	95.300 2	74.38 1	79.8	24	32.4	298.9 08	6.224 99	225. 62	0.106 4
10:35:07 AM	609	51778 0	1011. 45	261. 205	1.01178	265.693	28.080 2	45.9 91	995. 212	994.416	175.8	0.546 22	2.6230 1	77.52 96	174.12 7	1.47 838	25.1	54.8103	421.2 08	95.3	74.31 5	79.8	24	32.4	297.1 51	6.260 9	225. 45	0.076 847
10:35:08 AM	609	51778 1	1010. 81	261. 856	1.01178	265.588	28.053 3	45.9 884	995. 212	994.718	195.365	0.376 32	2.6077 3	77.98 64	173.01 6	1.67 777	25.1	54.8019	421.2 01	95.3	74.30 28	79.8	24	32.3 729	295.4 6	6.268 87	225. 349	0.106 4
10:35:09 AM	609	51778 2	1011. 58	260. 376	1.01178	265.497	28.016 7	45.9 908	995. 212	994.718	181.079	0.337 7	2.6123 2	77.94 91	172.68 2	1.65 339	25.1	54.8004	421.2	95.3	74.30 05	79.8	24	32.3 135	293.7 24	6.262 22	225. 376	0.106 4
10:35:10 AM	609	51778 3	1011. 96	260. 006	1.01178	265.4	27.997 6	45.9 913	995. 212	994.416	172.818	0.429 02	2.6276	77.91 92	173.93 6	1.50 49	25.1	54.8001	420.5 44	95.3	74.30 01	79.8	24	32.3 025	291.9 7	6.258 87	225. 565	0.106 4
10:35:11 AM	609	51778 4	1012. 02	262. 576	1.01178	265.247	27.993 8	45.9 874	995. 212	994.718	194.378	0.440 13	2.5962 7	77.59 79	173.10 2	1.42 299	25.1	54.6697	419.9 38	95.3	74.3	79.8	24	32.3 005	290.2 64	6.262 01	225. 877	0.106 4
10:35:12 AM	609	51778 5	1009. 27	261. 214	1.01178	265.093	27.970 2	45.9 832	995. 212	994.718	180.793	0.418 13	2.6054 4	78.04 87	173.22 2	1.57 089	25.1	54.6129	419.8 26	95.3	74.3	79.8	24	32.3 001	288.5 45	6.261 76	226. 169	0.106 4
10:35:13 AM	609	51778 6	1014. 19	259. 501	1.01178	264.963	27.976 8	45.9 899	995. 212	994.416	177.88	0.451 43	2.6512 8	77.31 26	172.88 8	1.60 065	25.1	54.6024	419.8 05	95.247 8	74.3	79.8	24	32.3	286.8 18	6.241 07	226. 357	0.079 8
10:35:14 AM	609	51778 7	1010. 87	262. 15	1.01178	264.827	27.975 5	45.9 911	995. 212	994.718	183.171	0.379 88	2.6153 7	77.64 84	172.74 6	1.52 509	25.1	54.6004	419.8 01	95.208 9	74.3	79.8	24	32.3	285.0 57	6.225 57	226. 372	0.094 581

10:35:15 AM	609	51778 8	1014 26	260 549	1.01178	264.733	27.984 3	45.9 913	995. 212	994.416	181.05	0.526 65	2.6497 6	77.15 41	174.51 8	1.44 53	25.1	54.6001	419.8	95.201 6	74.3	79.8	24	32.3	283.2 89	6.246 18	226. 24	0.106 4
10:35:16 AM	609	51778 9	1013. 85	263. 008	1.01178	264.691	28.027 7	45.9 914	995. 212	994.416	189.75	0.556 72	2.6260 7	77.17 26	173.32 4	1.63 358	25.1	54.5181	419.3 24	95.200 3	74.3	79.8	24	32.3	281.5 06	6.275 48	225. 977	0.047 291
10:36:20 AM	609	51785 3	1602. 37	280. 368	1.01058	283.583	47.625	46.0 83	995. 212	994.416	381.233	3.324 22	4.2970 7	51.07 02	233.41 8	1.59 546	24.7	60.3999	431.7 2	94.3	76.19 96	80.099 6	23.9	31.9 069	559.2 97	10.37 55	218. 941	0.124 138
10:36:21 AM	609	51785 4	1602. 38	279. 725	1.01058	283.745	47.589 4	46.0 83	995. 212	994.416	374.404	3.360 38	4.3001 2	51.96 41	233.52 3	1.60 366	24.7	60.5838	432.6	94.3	76.19 99	80.099 9	23.9	31.9 013	556.4 43	10.37 64	219. 286	0.106 4
10:36:22 AM	609	51785 5	1602. 47	279. 768	1.01058	283.78	47.549 3	46.0 83	995. 212	994.416	376.963	3.405 61	4.2924 8	51.43 47	233.94 5	1.59 045	24.7	60.6785	432.7 63	94.3	76.32 25	80.1	23.9	31.9 002	553.6 23	10.35 45	219. 636	0.106 4
10:36:23 AM	609	51785 6	1602. 88	280. 172	1.01058	283.727	47.512 6	46.0 83	995. 212	994.718	374.999	3.494 38	4.2978 3	51.60 96	232.15 6	1.58 977	24.7	60.696	432.7 93	94.3	76.38 56	80.331 4	23.9	31.9	550.7	10.36 83	219. 955	0.008 867
10:36:24 AM	609	51785 7	1602. 56	280. 382	1.01057	283.656	47.489 2	46.0 703	995. 212	994.416	378.118	3.378 64	4.3031 8	51.57 87	232.97 1	1.62 173	24.7	60.6993	432.7 99	94.3	76.39 73	80.387 3	23.9	32.0 954	547.8 06	10.38 78	220. 244	0.106 4
10:36:25 AM	609	51785 8	1602. 58	280. 716	1.01058	283.588	47.488 3	46.0 806	995. 212	994.416	382.548	3.534 87	4.2940 1	51.37 33	234.38 2	1.60 681	24.7	60.6999	432.8	94.3	76.39 95	80.397 6	23.9	32.1 806	544.8 76	10.39 49	220. 458	0.026 601
10:36:26 AM	609	51785 9	1602. 41	281. 195	1.01058	283.542	47.512 9	46.0 825	995. 212	994.416	382.418	3.419 89	4.2917 2	51.68 55	235.49 8	1.59 618	24.7	60.73	433.2 3	94.3	76.39 99	80.399 6	23.9	32.1 964	542.0 2	10.36 81	220. 632	0.106 4
10:36:27 AM	609	51786 0	1602. 82	281. 33	1.01058	283.505	47.557 6	46.0 829	995. 212	994.416	384.514	3.386 79	4.2963 6	51.82 6	234.99 6	1.59 639	24.7	60.95	433.3 69	94.3	76.4	80.399 9	23.9	32.1 993	539.1 27	10.35 19	220. 699	0.094 581
10:36:28 AM	609	51786 1	1602. 87	280. 936	1.01058	283.491	47.611 9	46.0 829	995. 212	994.416	384.027	3.478 86	4.2924 8	51.80 55	234.72 6	1.59 021	24.7	60.9907	433.3 94	94.3	76.4	80.4	23.9	32.1 999	536.3 15	10.34 72	220. 607	0.106 4
10:36:29 AM	609	51786 2	1602. 85	281. 117	1.01057	283.487	47.653	46.0 785	995. 212	994.416	387.37	3.444 73	4.2970 7	52.26 56	234.48 5	1.58 972	24.7	60.9983	433.3 99	94.225 4	76.4	80.4	23.9	32.2	533.4 3	10.37 5	220. 384	0.079 8
10:36:30 AM	609	51786 3	1602. 39	281. 229	1.01058	283.502	47.676 9	46.0 821	995. 212	994.416	387.705	3.519 62	4.2894 3	52.27 15	234.16 7	1.60 261	24.7	60.9997	433.4	94.204 7	76.4	80.4	23.9	32.2	530.5 7	10.35 88	220. 08	0.106 4
10:36:31 AM	609	51786 4	1602. 41	281. 002	1.01058	283.533	47.681 4	46.0 828	995. 212	994.416	382.096	3.344 2	4.2901 9	51.92 55	235.08 7	1.59 535	24.7	60.9999	434.0 09	94.200 9	76.4	80.4	23.9	32.2	527.6 66	10.33 08	219. 797	0.106 4
10:36:32 AM	609	51786 5	1602. 23	281. 005	1.01058	283.574	47.674 4	46.0 829	995. 212	994.416	382.361	3.492 46	4.2879 3	51.77 32	235.23 7	1.58 172	24.7	61.2058	434.5 72	94.200 2	76.4	80.4	23.9	32.2	524.8 42	10.33 91	219. 603	0.017 734
10:36:33 AM	609	51786 6	1601. 91	281. 022	1.01058	283.622	47.664 1	46.0 829	995. 212	994.718	384.032	3.326 53	4.2901 9	51.82 09	235.05 5	1.60 414	24.7	61.2826	434.6 76	94.2	76.33 14	80.438	23.9	32.2	521.9 31	10.34 07	219. 503	0.076 847
10:36:34 AM	609	51786 7	1602. 63	281. 186	1.01058	283.688	47.657 3	46.0 829	995. 212	994.416	380.518	3.348 36	4.2932 5	52.86 13	235.38 6	1.61 095	24.7	61.2968	434.6 96	94.257 58	76.30 58	80.57	23.9	32.2	519.0 19	10.35 23	219. 407	0.106 4
10:36:35 AM	609	51786 8	1602. 13	281. 493	1.01058	283.782	47.657 3	46.0 83	995. 212	994.416	383.706	3.295 3	4.2917 2	52.47 27	235.16 9	1.60 972	24.7	61.2994	434.6 99	94.292 11	76.30 11	80.594 4	23.9	32.2	516.1 51	10.36 35	219. 351	0.026 601
10:36:36 AM	609	51786 9	1601. 88	281. 105	1.01058	283.897	47.663 3	46.0 83	995. 212	994.416	385.341	3.434 79	4.2924 8	52.77 71	235.40 6	1.60 424	24.7	61.2999	434.7	94.298 5	76.30 02	80.599	23.9	32.2	513.3 27	10.34 34	219. 353	0.106 4
10:36:37 AM	609	51787 0	1601. 92	280. 704	1.01058	283.998	47.672 5	46.0 83	995. 212	994.718	386.164	3.381 63	4.2932 5	52.67 26	234.94 7	1.60 051	24.7	61.3819	435.1 07	94.299 7	76.3	80.599 8	23.9	32.2	510.4 12	10.36 61	219. 365	0.065 025
10:36:38 AM	609	51787 1	1602. 03	280. 576	1.01058	284.052	47.668 5	46.0 83	995. 212	994.416	385.123	3.403 23	4.2978 3	52.75 29	234.71 3	1.62 103	24.7	61.4781	435.1 83	94.299 9	76.25 32	80.6	23.9	32.2	507.4 91	10.39 09	219. 467	0.106 4
10:36:39 AM	609	51787 2	1602. 01	280. 637	1.01058	284.058	47.648 9	46.0 83	995. 212	994.416	383.363	3.385 09	4.2901 9	53.45 11	235.66 5	1.58 975	24.7	61.4959	435.1 97	94.33	76.20 98	80.462 8	23.9	32.2	504.6 17	10.39 04	219. 598	0.017 734
10:36:40 AM	609	51787 3	1601. 79	280. 435	1.01058	284.028	47.620 5	46.0 83	995. 212	994.416	380.386	3.254 16	4.2924 8	53.03 15	236.29 7	1.58 51	24.7	61.4992	435.1 99	94.55	76.20 18	80.411 6	23.9	32.2	501.7 42	10.35 43	219. 763	0.106 4
10:36:41 AM	609	51787 4	1601. 75	280. 446	1.01058	283.977	47.589	46.0 83	995. 212	994.416	379.879	3.235 74	4.2894 3	53.08 14	234.94 7	1.58 32	24.7	61.4999	435.2	94.590 7	76.20 03	80.402 2	24	32.2	498.9 24	10.37 05	219. 988	0.020 69
10:36:42 AM	609	51787 5	1601. 67	280. 156	1.01058	283.92	47.564 6	46.0 83	995. 212	994.416	385.686	3.279 57	4.2909 5	53.02 96	235.31 5	1.59 224	24.7	61.5	435.5 06	94.598 3	76.20 01	80.400 4	24	32.2	496.0 76	10.35 12	220. 172	0.038 424
10:36:43 AM	609	51787 6	1601. 82	280. 261	1.01058	283.858	47.544 4	46.0 83	995. 212	994.416	382.506	3.324 93	4.2932 5	52.88 93	234.25 5	1.57 799	24.7	61.5794	435.6 64	94.599 7	76.2	80.400 1	24	32.2	493.1 57	10.36 42	220. 269	0.106

10:38:15 AM	609	517968	2013.51	254.655	1.01085	257.093	54.1915	45.9915	995.211	994.718	482.313	9.7319	4.78606	46.319	306.914	1.54304	24.8	69.5999	441.3	96.095	76.1	80	24.3	32.4	182.972	11.9756	223.426	0.017734
10:38:16 AM	609	517969	2013.5	254.674	1.01085	257.123	54.2106	45.9933	995.211	994.416	476.952	9.82685	4.77842	47.0768	308.188	1.54237	24.8	69.6	441.3	96.0991	76.1	80	24.3	32.4	179.588	11.9927	223.501	0.076847
10:38:17 AM	609	517970	2013.53	255.064	1.01085	257.163	54.2349	45.9917	995.211	994.416	480.994	9.85993	4.77766	47.2353	308.735	1.53222	24.8	69.6815	441.3	96.0998	76.1	80	24.3	32.4	176.227	12.0741	223.513	0.076847
10:38:18 AM	609	517971	2013.82	254.579	1.01085	257.225	54.2614	45.9915	995.211	994.718	477.714	9.91735	4.785372	46.797	308.317	1.53862	24.8	69.6966	441.3	96.1	76.1	80	24.3	32.4	172.888	12.056	223.567	0.200985
10:38:19 AM	609	517972	2013.47	254.712	1.01085	257.28	54.2839	45.9914	995.211	994.416	485.876	9.95277	4.78071	47.5417	309.869	1.53146	24.8	69.6994	441.3	95.8763	76.1	80	24.3	32.4	169.57	12.0169	223.69	0.1064
10:38:20 AM	609	517973	2013.62	254.633	1.01085	257.304	54.2951	45.9914	995.211	994.416	484.571	9.95651	4.785392	47.6992	311.37	1.55348	24.8	69.6999	441.3	95.8141	76.1	80	24.3	32.4	166.232	12.0532	223.886	0.106404
10:38:21 AM	609	517974	2013.73	255.1	1.01085	257.297	54.2972	45.9822	995.211	994.416	484.059	10.081	4.78454	48.0072	309.217	1.55622	24.8	69.7	441.423	95.8026	76.1	80	24.3	32.4	162.893	12.0381	224.079	0.1064
10:38:22 AM	609	517975	2013.53	254.833	1.01085	257.295	54.3004	45.9897	995.211	994.416	483.2	10.0456	4.78377	47.9841	311.468	1.55388	24.8	69.8303	441.567	95.8005	76.1	80	24.3	32.4	159.527	12.0423	224.162	0.038424
10:38:23 AM	609	517976	2013.41	254.89	1.01085	257.321	54.3084	45.9862	995.211	994.416	487.024	9.92991	4.78988	48.0263	308.166	1.55408	24.8	69.8871	441.594	95.8001	76.1	80	24.3	32.4	156.166	12.0877	224.182	0.1064
10:38:24 AM	609	517977	2156.43	193.354	1.01085	257.139	54.5035	45.9904	995.211	994.416	454.166	6.71103	5.11843	36.4394	339.889	1.5732	24.8	69.8976	441.599	95.8	76.1	80	24.3	32.4	152.951	12.1014	224.159	0.1064
10:38:25 AM	609	517978	2302.83	92.476	1.01085	254.4	53.9892	45.9912	995.211	994.718	320.929	3.32587	5.21852	26.9649	364.835	1.56021	24.8	69.8996	441.6	95.8	76.1	80	24.3	32.4	150.99	11.7907	224.135	0.02069
10:39:14 AM	609	518027	2406.42	161.035	1.01115	162.505	40.9356	45.9366	995.203	994.416	475.557	3.60672	5.17497	28.4929	391.475	1.51439	24.9	70.4998	390.5	96.8906	76.7	79.9	24.9	32.4	545.594	10.5605	261.458	0.1064
10:39:15 AM	609	518028	2405.65	160.907	1.01115	162.558	40.9838	45.9353	995.204	994.718	479.829	3.60704	5.17268	28.3576	389.017	1.51432	24.9	70.5	390.397	96.8983	76.7	79.9	24.9	32.4	542.657	10.5973	261.43	0.085714
10:39:16 AM	609	518029	2404.23	161.647	1.01114	162.591	41.0168	45.9293	995.204	994.718	477.478	3.5143	5.17115	27.8665	388.447	1.5088	24.9	70.5686	390.236	96.8997	76.7	79.9	24.9	32.4	539.77	10.5707	261.271	0.1064
10:39:17 AM	609	518030	2403.66	161.39	1.01114	162.618	41.0294	45.9113	995.206	994.718	478.891	3.51232	5.18414	28.7155	389.598	1.50911	24.9	70.5942	390.207	96.8999	76.7	79.9	24.9	32.4	536.789	10.5467	261.03	0.1064
10:39:18 AM	609	518031	2406.47	161.502	1.01115	162.644	41.0544	45.9403	995.206	994.718	476.911	3.57956	5.18337	28.9468	391.239	1.50835	24.9	70.5989	390.201	97.2652	76.7	79.9	24.9	32.4	533.879	10.5585	260.762	0.192118
10:39:19 AM	609	518032	2406.16	161.628	1.01115	162.684	41.0888	45.9325	995.206	994.416	478.108	3.53871	5.17268	29.199	388.385	1.52009	24.9	70.5998	390.2	97.538	76.7	79.9	24.9	32.4	530.947	10.5565	260.493	0.1064
10:39:20 AM	609	518033	2406.79	161.707	1.01171	162.741	41.1446	45.9419	995.206	994.416	472.357	3.79744	5.16733	29.6399	388.49	1.515	25.0838	70.6	390.2	97.5885	76.7	79.9	24.9	32.4	527.994	10.5761	260.183	0.026601
10:39:21 AM	609	518034	2407.9	161.595	1.01201	162.818	41.1846	45.9237	995.207	994.416	475.353	3.90583	5.17191	29.8565	389.45	1.51489	25.1785	70.6688	390.123	97.5979	76.7	79.9	24.9	32.4	525.077	10.5825	259.925	0.09754
10:39:22 AM	609	518035	2406.57	162.693	1.01206	162.924	41.2101	45.9256	995.206	994.416	475.544	3.84517	5.1658	30.0039	391.197	1.52149	25.196	70.7757	390.104	97.5996	76.7469	79.9	24.9	32.4	522.155	10.5837	259.728	0.1064
10:39:23 AM	609	518036	2405.34	162.938	1.01208	163.082	41.2537	45.9254	995.205	994.718	481.438	3.62725	5.17573	29.4845	393.794	1.51881	25.1993	70.7955	390.101	97.5999	76.7902	79.9	24.9	32.4	519.221	10.5707	259.62	0.1064
10:39:24 AM	609	518037	2405.14	162.281	1.01207	163.272	41.3254	45.922	995.206	994.718	473.14	3.68244	5.16427	29.6448	389.49	1.51668	25.1999	70.7992	390.1	97.2741	76.7982	79.9	24.9	32.5043	516.301	10.5772	259.514	0.056158
10:39:25 AM	609	518038	2404.67	162.053	1.01207	163.436	41.3879	45.9039	995.207	994.416	478.551	3.61015	5.16809	29.5968	389.37	1.51296	25.2	70.7998	390.1	97.2137	76.797	79.9	24.9	32.5993	513.3823	10.5992	259.32	0.230542
10:39:26 AM	609	518039	2405.62	162.562	1.01208	163.552	41.4145	45.9379	995.207	994.416	480.295	3.57981	5.17421	29.4811	391.285	1.52857	25.2	70.8	390.1	97.2025	76.7999	79.9	24.9	32.5967	510.438	10.5926	259.059	0.1064
10:39:27 AM	609	518040	2408.64	163.487	1.01207	163.675	41.4275	45.9132	995.209	994.416	483.146	4.10128	5.17497	30.4023	389.839	1.52361	25.2	70.8771	390.15	97.2005	76.8	79.9	25	32.5994	507.499	10.5856	258.808	0.017734

10:39:28 AM	609	51804 1	2404.95	163.314	1.01207	163.848	41.452 2	45.9 098	995.209	994.416	476.302	3.637 71	5.1680 9	31.03 55	390.33	1.51 106	25.2	70.8958	390.1	97.200 1	76.72 29	79.9	25	32.5 999	504.5 5	10.58 43	258.652	0.106 4
10:39:29 AM	609	51804 2	2406.97	163.032	1.01207	164.043	41.498 4	45.9 084	995.209	994.416	479.795	3.685 96	5.1642 7	30.80 17	392.47 4	1.50 848	25.2	70.8992	390.1	97.460 5	76.70 42	79.9	25	32.6	501.6 34	10.59 29	258.561	0.106 4
10:39:30 AM	609	51804 3	2405.04	163.756	1.01206	164.215	41.569 4	45.9 014	995.209	994.718	481.799	3.528 1	5.1711 5	30.65 63	391.38 3	1.51 204	25.2	70.8999	390.1	97.574 2	76.70 08	79.9	25	32.4 371	498.6 66	10.59 58	258.383	0.200 985
10:39:31 AM	609	51804 4	2406.54	164.331	1.01206	164.382	41.626 5	45.9 001	995.209	994.718	474.997	3.703 25	5.1696 2	31.43 36	392.04 9	1.52 489	25.2	70.9	390.1 38	97.595 2	76.70 01	79.9	25	32.4 371	495.7 13	10.58 62	258.112	0.106 4
10:39:32 AM	609	51804 5	2405.04	163.974	1.01207	164.59	41.679 7	45.9 048	995.209	994.718	473.96	3.623 73	5.1635 1	31.46 78	391.69	1.52 247	25.2	70.9569	390.2 7	97.599 1	76.7	79.9	25	32.4 013	492.7 5	10.59 18	257.787	0.008 867
10:39:33 AM	609	51804 6	2404.03	163.327	1.01207	164.802	41.729 8	45.9 075	995.209	994.416	473.996	3.776 89	5.1650 4	31.19 49	392.11 2	1.53 064	25.2	70.992	390.2 94	97.599 8	76.63 87	79.9	25	32.4 002	489.7 89	10.60 85	257.432	0.162 562
10:39:34 AM	609	51804 7	2405.79	163.391	1.01206	164.966	41.756 3	45.9 013	995.211	994.416	481.631	3.668 66	5.1688 6	31.98 9	391.22 6	1.51 973	25.2	70.9985	390.2 99	97.518 7	76.60 72	79.822 9	25	32.4	486.9 17	10.62 97	257.166	0.106 4
10:39:35 AM	609	51804 8	2404.84	164.531	1.01206	165.096	41.757 3	45.9 084	995.211	994.416	480.265	3.796 66	5.1734 4	31.78 03	389.94 8	1.51 111	25.2	70.9997	390.3	97.340 5	76.60 13	79.804 2	25	32.5 372	483.9 75	10.62 4	257.039	0.115 271
10:39:36 AM	609	51804 9	2405.97	164.765	1.01206	165.215	41.751 3	45.9 014	995.211	994.718	476.97	3.585 89	5.1680 9	31.97 85	392.16 8	1.51 433	25.2	70.9999	390.3	97.307 5	76.60 03	79.800 8	25	32.5 884	481.0 12	10.59 86	257.059	0.106 4
10:39:37 AM	609	51805 0	2406.82	164.967	1.01206	165.364	41.789 6	45.9 001	995.211	994.416	484.713	3.763 32	5.1703 8	31.22 84	391.48 5	1.52 836	25.2	71.02	390.4 44	97.301 4	76.6	79.800 1	25	32.5 978	478.0 1	10.64 54	257.147	0.088 67
10:39:38 AM	609	51805 1	2406.09	165.074	1.01206	165.563	41.879 7	45.8 999	995.211	994.718	481.208	3.839 1	5.1719 1	31.99 44	391.83 8	1.50 816	25.2	71.1666	390.4 9	97.300 3	76.62	79.8	25	32.5 996	475.0 99	10.64 82	257.18	0.115 271
10:39:39 AM	609	51805 2	2404.79	164.806	1.01206	165.783	41.970 5	45.9 034	995.211	994.718	472.924	3.543 59	5.1619 8	32.22 83	390.96 9	1.51 197	25.2	71.1938	390.4 98	97.3	76.76 66	79.861 3	25	32.5 999	472.1 59	10.65 45	257.037	0.106 4
10:39:40 AM	609	51805 3	2404.96	163.945	1.01206	165.96	42.020 6	45.9 005	995.211	994.416	475.776	3.704 88	5.1696 2	30.88 73	393.17 8	1.51 225	25.2	71.1989	390.5	97.145 8	76.79 38	79.892 8	25.0 771	32.6	469.1 86	10.67 8	256.822	0.017 734
10:39:41 AM	609	51805 4	2403.46	163.323	1.01206	166.059	41.998 9	45.9	995.211	994.718	473.542	3.636 09	5.1658	31.49 46	392.51 5	1.50 293	25.2	71.1998	390.5	97.108 5	76.79 89	79.898 7	25.0 958	32.6	466.3 25	10.62 25	256.654	0.106 4
10:39:42 AM	609	51805 5	2404.03	163.51	1.01206	166.107	41.920 1	45.8 999	995.211	994.718	476.247	3.516 88	5.1558 7	31.73 45	393.90 6	1.51 285	25.2	71.2	390.3 97	97.101 6	76.79 98	79.899 7	25.0 992	32.6	463.3 41	10.63 03	256.641	0.106 4
10:39:43 AM	609	51805 6	2405.03	164.348	1.01206	166.128	41.824 3	45.8 998	995.211	994.718	476.12	3.537 77	5.1619 8	31.71 15	393.30 5	1.51 289	25.2	71.2	390.2 36	97.100 3	76.8	79.9	25.0 999	32.6	460.3 99	10.61 3	256.853	0.094 581
11:11:20 AM	609	51925 2	2608.05	270.24	1.01098	273.625	74.756 9	45.5 806	995.048	995.7	949.812	10.54 03	5.0137 5	41.39 99	460.45 5	1.42 679	24.8254	107.2	490.7 19	108.09 8	75.7	80.2	26.2	35.0 931	526.0 56	16.88 98	226.145	0.017 734
11:11:21 AM	609	51925 3	2608.05	270.444	1.01091	273.625	74.734 2	45.5 848	995.046	995.398	951.068	10.51 04	5.0030 6	40.99 05	459.80 6	1.42 751	24.8047	107.2	490.7 85	108.1	75.7	80.2	26.2	35.0 987	521.3 14	16.90 97	226.579	0.106 4
11:11:22 AM	609	51925 4	2608.42	270.533	1.0109	273.637	74.712 5	45.5 928	995.046	995.398	953.112	10.63 54	5.0076 4	40.79 82	460.86 2	1.41 942	24.8009	107.2	490.7 97	108.1	75.63 87	80.2	26.2	35.0 998	516.6 93	16.90 51	227.094	0.038 424
11:11:23 AM	609	51925 5	2608.45	271.091	1.0109	273.654	74.698 4	45.5 943	995.049	995.7	959.315	10.55 03	5.0168 1	40.74 2	460.90 7	1.43 173	24.8002	107.2	490.7 99	108.13 4	75.60 72	80.045 8	26.2	35.1	511.9 74	16.87 73	227.655	0.106 4
11:11:24 AM	609	51925 6	2608.33	271.215	1.0109	273.684	74.708 1	45.5 946	995.047	995.7	961.982	10.59 84	5.0206 3	41.62	461.69 5	1.43 156	24.8	107.2	490.8	108.18 8	75.60 13	80.008 5	26.2	35.1	507.2 63	16.84 86	228.121	0.076 847
11:11:25 AM	609	51925 7	2608.06	271.439	1.01104	273.722	74.759 5	45.5 946	995.045	995.398	955.928	10.46 45	5.0137 5	41.61 45	461.49 3	1.43 783	24.8469	107.2	490.8	108.19 8	75.60 03	80.001 6	26.2	35.1	502.5 64	16.94 32	228.378	0.106 4
11:11:26 AM	609	51925 8	2608.77	271.791	1.01118	273.761	74.838 7	45.5 947	995.045	995.398	957.366	10.51 86	4.9946 5	41.07 24	461.65 8	1.43 579	24.8902	107.22	491.1 59	108.2	75.6	80.000 3	26.2	35.1	497.8 34	16.92 06	228.473	0.106 4
11:11:27 AM	609	51925 9	2608.86	271.585	1.01121	273.818	74.910 3	45.5 947	995.045	995.398	957.835	10.55 59	5.0236 9	41.27 38	461.12 5	1.42 912	24.8982	107.367	491.2 74	108.2	75.61 9	80.000 1	26.2	35.1	493.1 56	16.93 15	228.401	0.106 4
11:11:28 AM	609	51926 0	2608.9	271.641	1.01121	273.876	74.967 9	45.5 947	995.045	995.398	960.476	10.58 94	5.0152 8	41.24 09	461.30 8	1.44 558	24.8997	107.394	491.2 95	108.2	75.68 5	80	26.2	35.1	488.4 51	16.94 04	228.327	0.106 4
11:11:29 AM	609	51926 1	2608.3	271.781	1.01121	273.942	75.004 3	45.5 947	995.045	995.398	951.124	10.49 98	5.0084 13	41.37	464.54 5	1.44 49	24.8999	107.399	491.2 99	108.2	75.69 72	80	26.1 478	35.1	483.7 77	17.06 62	228.321	0.047 291

11:11:30 AM	609	51926 2	2608. 26	271. 344	1.01121	274.016	75.024 8	45.5 947	995. 045	995.398	963.284	10.50 39	5.0038 2	41.81 67	461.06 6	1.43 684				75.69 95	80	26.1 089	35.1	478.9 76	16.99 3	228. 436	0.106 4		
11:11:31 AM	609	51926 3	2608. 05	271. 666	1.01121	274.091	75.030 6	45.5 947	995. 045	995.398	949.752	10.47 41	5.0022 9	41.94 99	460.01 7	1.43 115		24.9	107.4	491.3 41	108.2	75.69 99	80	26.1 016	35.1	474.3 37	16.98 2	228. 633	0.008 867
11:11:32 AM	609	51926 4	2608. 05	271. 442	1.01122	274.157	75.021	45.5 947	995. 043	995.398	970.045	10.52 04	5.0076 4	42.07 24	461.89 1	1.42 574		24.9	107.53	491.3 89	108.2	75.7	80	26.1 003	35.1	469.5 86	17.00 43	228. 861	0.106 4
11:11:33 AM	609	51926 5	2608. 54	271. 674	1.01122	274.226	75.008 3	45.5 947	995. 043	995.398	969.163	10.52 89	4.9992 4	42.26 16	462.69 1	1.43 651		24.9	107.587	491.3 98	108.2	75.7	80	26.1 001	35.1	464.8 76	17.02 25	229. 067	0.088 67
11:11:34 AM	609	51926 6	2608. 12	271. 573	1.01122	274.316	74.999 3	45.5 824	995. 043	995.398	958.858	10.47 35	5.0099 3	42.14 67	460.73 7	1.45 966		24.9	107.598	491.4	108.25 7	75.7	80	26.0 349	35.1	459.9 79	17.08 57	229. 178	0.106 4
11:11:35 AM	609	51926 7	2608. 22	271. 33	1.01121	274.414	74.992 4	45.5 899	995. 043	995.398	953.513	10.43 01	5.0022 9	42.15 24	461.25 5	1.43 082		24.9	107.6	491.4	108.29 2	75.7	80	26.0 065	35.1	455.3 52	17.05 24	229. 332	0.056 158
11:11:36 AM	609	51926 8	2608. 59	271. 146	1.01122	274.489	74.988 6	45.5 938	995. 041	995.398	957.097	10.49 24	5.0175 7	41.54 31	462.95 5	1.39 016		24.9	107.6	491.4	108.29 9	75.7	80	26.0 012	35.1	450.8 55	17.00 39	229. 488	0.106 4
11:11:37 AM	609	51926 9	2607. 94	271. 118	1.01121	274.528	74.973 6	45.5 757	995. 041	995.398	962.494	10.46 62	5.0076 4	40.92 18	463.32 9	1.36 522		24.9	107.634	491.5 59	108.3	75.7	80	26.0 002	35.1	446.2 77	16.96 93	229. 638	0.011 82
11:11:38 AM	609	51927 0	2608. 06	271. 31	1.01122	274.531	74.951 7	45.5 972	995. 043	995.398	960.839	10.51 89	5.0099 3	41.81 68	462.00 2	1.37 987		24.9	107.688	491.5 92	108.3	75.61 81	80	25.9 186	35.1	441.5 33	16.96 56	229. 74	0.115 271
11:11:39 AM	609	51927 1	2608. 1	271. 107	1.01121	274.514	74.922 7	45.5 743	995. 042	995.398	958.694	10.46 47	5.0076 4	41.65 31	462.31 7	1.38 559		24.9	107.698	491.5 99	108.29	75.52 19	80	25.9 034	35.1	436.8 03	16.91 46	229. 645	0.106 4
11:11:40 AM	609	51927 2	2608. 2	271. 212	1.01122	274.477	74.899 4	45.5 909	995. 042	995.398	962.808	10.48 8	4.9977 1	42.46 83	463.48 7	1.36 968		24.9	107.7	491.6	108.21 7	75.50 41	80	25.9 006	35.0 063	432.1 39	16.86 45	229. 418	0.047 291
11:11:41 AM	609	51927 3	2607. 77	270. 679	1.01121	274.435	74.883 4	45.5 859	995. 042	995.398	949.515	10.45 9	4.9908 3	41.90 53	463.25 3	1.37 522		24.9	107.7	491.6	108.20 3	75.50 07	80	25.9 001	34.9 197	427.4 23	16.88 44	229. 078	0.106 4
11:11:42 AM	609	51927 4	2607. 76	270. 012	1.01122	274.374	74.859 4	45.5 93	995. 042	995.398	937.931	10.43	4.9954 2	42.53 35	464.27 8	1.34 977		24.9	107.7	491.4 86	108.20 1	75.50 01	80	25.8 9	34.9 036	422.8 6	16.87 15	228. 738	0.124 138
11:11:43 AM	609	51927 5	2607. 72	269. 872	1.01122	274.28	74.808 7	45.5 944	995. 043	995.398	934.385	10.48 16	4.9900 7	43.63 56	461.77 5	1.36 414		24.9	107.7	491.4 16	108.2	75.5	80	25.8 167	34.9 007	418.1 02	16.84 95	228. 426	0.106 4
11:11:44 AM	609	51927 6	2608. 03	270. 088	1.01121	274.159	74.736 2	45.5 946	995. 045	995.398	934.559	10.29 82	4.9954 2	42.93 77	464.52 5	1.36 313		24.9	107.7	491.4 03	108.2	75.57 94	80	25.8 031	34.9 001	413.4 13	16.86 68	228. 252	0.085 714
11:11:45 AM	609	51927 7	2607. 93	269. 716	1.01121	274.036	74.651 5	45.5 946	995. 045	995.398	939.911	10.45 75	5	42.94 71	462.96 5	1.37 285		24.9	107.7	491.4 01	108.2	75.59 62	80	25.8 006	34.9 38	408.6 71	16.82 51	228. 21	0.085 714
11:11:46 AM	609	51927 8	2607. 89	269. 877	1.01121	273.907	74.583 3	45.5 947	995. 045	995.398	932.582	10.51 73	5.0068 8	43.20 9	462.84	1.36 88		24.9	107.7	491.4	108.2	75.59 93	80	25.8 001	35.0 7	404.0 76	16.86 25	228. 24	0.106 4
11:11:47 AM	609	51927 9	2608. 36	269. 899	1.01098	273.769	74.531 5	45.5 947	995. 045	995.398	937.955	10.52 84	4.9969 4	43.41 3	463.26 4	1.35 039		24.8229	107.7	491.1 02	108.2	75.59 99	80	25.8	35.0 944	399.4 46	16.94 38	228. 394	0.017 734
11:11:48 AM	609	51928 0	2608. 36	270. 26	1.01091	273.629	74.519 1	45.5 888	995. 045	995.398	942.771	10.49 64	4.9969 4	42.62 27	463.41 1	1.34 409		24.8042	107.635	490.4 49	108.2	75.6	80	25.8	35.0 99	394.7 43	16.92 07	228. 577	0.106 4
11:11:49 AM	609	51928 1	2608. 35	270. 235	1.01091	273.511	74.525	45.5 936	995. 045	995.398	949.588	10.52 45	5.0107	42.93 35	464.34 7	1.35 147		24.8008	107.606	490.3 28	108.2	75.6	80	25.8	35.0 998	390.1 04	16.89 82	228. 8	0.124 138
11:12:51 AM	609	51934 3	2403. 95	284. 387	1.01091	288.06	72.481	45.5 947	995. 042	995.398	850.878	9.390 75	4.8678 2	54.88 72	418.37 6	1.35 504		24.8004	102.207	490.3 01	108.8	75.32 5	79.804 3	25.9 998	35.2	528.5 74	15.80 07	220. 261	0.106 4
11:12:52 AM	609	51934 4	2404. 56	284. 916	1.01091	288.009	72.444 7	45.5 947	995. 042	995.398	847.435	9.390 75	4.8769 9	55.22 24	418.89	1.34 454		24.8001	102.201	490.3	108.8	75.38 61	79.882 3	35.1 26	524.1 729	15.84 76	220. 343	0.079 8	
11:12:53 AM	609	51934 5	2404. 04	285. 209	1.01091	287.972	72.437 9	45.5 947	995. 042	995.398	853.292	9.390 75	4.8716 4	55.72 19	419.10 8	1.34 232		24.8	102.2	490.3	108.8	75.39 74	79.896 7	35.1 26	519.8 135	15.83 39	220. 14	0.026 601	
11:12:54 AM	609	51934 6	2404. 72	284. 924	1.01114	287.966	72.477 3	45.5 947	995. 042	995.398	850.564	9.390 75	4.8739 3	56.62 38	416.82 3	1.34 517		24.8771	102.2	490.1 77	108.8	75.39 95	79.899 4	35.1 26	515.3 025	15.86 62	220. 28	0	
11:12:55 AM	609	51934 7	2404. 75	285. 239	1.01112	287.996	72.518 5	45.5 947	995. 042	995.398	856.947	9.390 75	4.8617 1	55.97 07	416.98	1.34 143		24.8958	102.135	490.0 33	108.8	75.39 99	79.899 9	35.1 26	510.9 005	15.84 25	220. 724	0.106 4	
11:12:56 AM	609	51934 8	2404. 38	285. 652	1.01121	288.048	72.560 1	45.5 947	995. 044	995.398	859.331	9.390 75	4.8685 8	55.74 88	418.65 3	1.33 822		24.8992	102.106	490.0 06	108.8	75.4	79.91	35.1 26	506.5 001	15.84 43	220. 813	0.106 4	

11:12:57 AM	609	51934 9	2404. 34	285. 543	1.01121	288.114	72.607 6	45.5 947	995. 044	995.398	848.842	9.421 34	4.8754 6	56.13 05	418.83 9	1.34 213	24.8999	102.101	490.0 01	108.84 7	75.4	79.983 3	26	35.1	502.1 82	15.87 94	220. 828	0.020 69
11:12:58 AM	609	51935 0	2404. 43	285. 242	1.01121	288.16	72.645 4	45.5 777	995. 044	995.398	849.111	9.396 42	4.8739 3	55.40 74	418.54 5	1.34 488	24.9	102.1	490	108.89	75.4	79.996 9	26	35.1	497.7 99	15.90 75	220. 824	0.106 4
11:12:59 AM	609	51935 1	2404. 21	285. 057	1.01121	288.17	72.662 8	45.5 915	995. 044	995.398	851.683	9.391 8	4.8716 4	55.29 73	418.02 3	1.34 952	24.9	102.1	490	108.89 8	75.4	79.999 4	26	35.1	493.4 06	15.91 71	220. 819	0.047 291
11:13:00 AM	609	51935 2	2404. 12	285. 213	1.01121	288.166	72.660 7	45.5 772	995. 044	995.398	845.871	9.390 94	4.8701 1	55.20 29	418.27 5	1.34 634	24.9	102.018	490	108.9	75.4	79.999 9	25.9 531	35.1	488.9 61	15.94 76	220. 899	0.106 4
11:13:01 AM	609	51935 3	2403. 97	285. 039	1.01121	288.178	72.638 4	45.5 88	995. 044	995.398	856.737	9.390 79	4.8746 9	55.48 83	417.86 1	1.34 419	24.9	101.922	490	108.9	75.27 71	25.9 098	35.1	484.5 55	15.94 2	221. 106	0.200 985	
11:13:02 AM	609	51935 4	2404. 13	284. 801	1.01121	288.209	72.605 8	45.5 934	995. 044	995.398	847.259	9.390 76	4.8746 9	55.77 46	417.25 2	1.35 396	24.9	101.904	490	108.93	75.13 28	79.934 9	25.9 018	35.1	480.1 71	15.92 35	221. 383	0.106 4
11:13:03 AM	609	51935 5	2404. 14	284. 686	1.01121	288.24	72.576	45.5 812	995. 044	995.171	846.626	9.296	4.8716 4	55.26 42	418.23 1	1.34 441	24.9	101.901	490	109.15	75.10 61	79.906 5	25.9 003	35.0 063	475.7 62	15.93 35	221. 645	0.106 4
11:13:04 AM	609	51935 6	2404. 15	284. 889	1.0112	288.264	72.544 3	45.5 502	995. 04	995.398	854.699	9.373 19	4.8647 6	55.96 73	418.02 8	1.34 884	24.9	101.9	490	109.19 1	75.10 11	79.901 2	25.9 001	34.9 197	471.3 59	15.94 54	221. 883	0.106 4
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11:13:06 AM	609	51935 8	2404. 28	284. 715	1.01121	288.283	72.497	45.5 57	995. 039	995.398	853.572	9.391 6	4.8693 5	55.33 61	417.59 1	1.34 516	24.9	101.823	490	109.2	75.1	79.9	25.9 007	34.9 007	462.5 27	15.92 94	222. 143	0.026 601
11:13:07 AM	609	51935 9	2404. 61	284. 782	1.01121	288.263	72.491 6	45.5 796	995. 039	995.398	850.317	9.390 91	4.8670 5	56.10 06	418.41 1	1.34 795	24.9	101.804	490	109.2	75.17 71	79.872 9	25.9 001	34.9 001	458.1 69	15.90 87	222. 232	0.059 11
11:13:08 AM	609	51936 0	2404. 65	285. 41	1.01121	288.241	72.501 9	45.5 755	995. 039	995.398	855.131	9.390 78	4.8708 7	55.98 46	417.73 6	1.35 848	24.9	101.801	490	109.00 5	75.19 58	79.813 5	25.9 001	34.9 001	453.6 1	15.91 88	222. 252	0.106 4
11:13:09 AM	609	51936 1	2404. 55	285. 655	1.01122	288.225	72.53	45.5 789	995. 039	995.398	850.741	9.390 75	4.864 64	55.90 64	416.34 2	1.37 199	24.9	101.8	490	108.91 9	75.19 92	79.802 5	25.9 001	34.9 001	449.1 94	15.98 38	222. 226	0.085 714
11:13:10 AM	609	51936 2	2404. 4	285. 361	1.01122	288.216	72.570 4	45.5 87	995. 035	995.398	855.328	9.390 75	4.8678 2	55.68 31	416.72 4	1.34 499	24.9	101.8	489.9 9	108.90 4	75.19 99	79.800 5	25.8 349	34.9 001	444.8 41	15.99 58	222. 183	0.106 4
11:13:11 AM	609	51936 3	2404. 68	285. 694	1.01123	288.22	72.625 1	45.5 932	995. 035	995.398	858.764	9.390 75	4.8647 6	55.93 14	417.10 9	1.35 985	24.9	101.8	489.9 17	108.90 1	75.2	79.800 1	25.8 065	34.9 001	440.4 38	15.97 51	222. 159	0.085 714
11:13:12 AM	609	51936 4	2404. 46	285. 233	1.01121	288.238	72.666 3	45.5 49	995. 035	995.398	846.307	9.390 75	4.8670 5	55.39 56	419.18 9	1.36 895	24.9	101.8	489.9 03	108.9	75.31 39	79.8	25.8 012	34.9 001	435.9 77	15.97 07	222. 201	0.106 4
11:13:13 AM	609	51936 5	2403. 64	284. 592	1.01122	288.255	72.681 2	45.5 837	995. 035	995.171	845.088	9.418 02	4.8609 4	55.95 83	417.70 8	1.35 786	24.9	101.8	489.9 01	108.9	75.38 4	79.874 6	25.8 002	34.9 001	431.5 82	16.01 276	222. 276	0.020 69
11:13:14 AM	609	51936 6	2404. 51	284. 62	1.01122	288.247	72.655 6	45.5 926	995. 035	995.398	847.166	9.395 8	4.8708 7	55.87 41	419.85 6	1.34 005	24.9	101.8	489.9	108.9	75.39 7	79.895 3	25.8 001	35.0 303	427.1 99	15.97 94	222. 353	0.106 4
11:13:15 AM	609	51936 7	2404. 42	284. 832	1.01122	288.227	72.600 2	45.5 843	995. 035	995.398	851.632	9.391 69	4.8746 9	55.94	419.44 6	1.34 295	24.9	101.8	489.9	108.9	75.39 95	79.899 1	25.8 001	35.0 871	422.7 92	15.97 15	222. 439	0.076 847
11:13:16 AM	609	51936 8	2404. 41	285. 138	1.0112	288.225	72.550 6	45.5 342	995. 035	995.398	853.388	9.390 92	4.8708 7	56.47 15	418.36 9	1.34 914	24.9	101.78	489.9 72	108.9	75.39 99	79.899 8	25.8 001	35.0 001	418.3 99	15.97	222. 541	0.106 4
11:13:17 AM	609	51936 9	2404. 62	285. 231	1.01122	288.249	72.535 8	45.5 809	995. 037	995.398	847.936	9.390 78	4.8739 3	55.90 41	418.42 2	1.34 643	24.9	101.633	489.9 95	108.9	75.4	79.9	25.8 001	35.0 996	413.9 66	15.95 634	222. 634	0.106 4
11:13:18 AM	609	51937 0	2404. 73	285. 27	1.01121	288.285	72.552 1	45.5 769	995. 039	995.398	851.16	9.390 75	4.8724 7	56.10 89	417.88	1.33 957	24.9	101.606	489.9 99	108.9	75.4	79.843	25.8 001	35.0 999	409.6 49	15.93 27	222. 654	0.047 291
11:13:19 AM	609	51937 1	2404. 02	285. 238	1.01121	288.331	72.586 5	45.5 824	995. 039	995.398	851.039	9.390 75	4.8670 5	56.48 13	418.32 5	1.33 833	24.9	101.601	490	108.9	75.4	79.808	25.8 001	35.0 62	405.1 77	15.87 32	222. 568	0.106 4
11:13:20 AM	609	51937 2	2403. 92	285. 036	1.01121	288.38	72.618 5	45.5 567	995. 039	995.171	847.32	9.390 75	4.8624 7	55.51 43	420.57 9	1.35 159	24.9	101.6	490	108.9	75.4	79.801 5	25.8 001	34.9 3	400.6 7	15.88 48	222. 321	0.106 4
11:14:30 AM	609	51944 2	2200. 19	317. 429	1.01215	321.318	74.091 1	45.5 753	995. 031	995.398	802.961	12.96 31	4.6546 5	65.29 42	373.71 7	1.31 881	25.2	98.1	508.2	107.7	75.25 42	80.034 4	25.5 001	34.9 001	503.3 69	15.52 75	200. 467	0.017 734

11:14:31 AM	609	51944 3	2200. 04	317. 407	1.01216	321.366	74.066 5	45.5 911	995. 031	995.171	807.612	12.91 21	4.6477 7	66.37 89	374.27 1	1.31 318	25.2	98.1	508.2	107.82 3	75.29 15	80.087 8	25.5	34.9	499.0 91	15.54 12	206. 514	0.094 581
11:14:32 AM	609	51944 4	2200. 42	316. 829	1.01216	321.416	74.043 3	45.5 94	995. 034	995.398	799.759	12.98 47	4.6599 9	65.40 44	375.23 5	1.33 119	25.2	98.1	508.2	107.88 6	75.29 84	80.097 7	25.5	34.9	494.7 69	15.52 87	210. 797	0.106 4
11:14:33 AM	609	51944 5	2200. 32	317. 447	1.01215	321.439	74.020 1	45.5 564	995. 034	995.398	815.226	12.99 82	4.6554 1	65.85 12	373.89 121	1.32 121	25.2	98.1	508.2 4	107.89 7	75.29 97	80.099 6	25.5	34.9	490.4 79	15.54 43	211. 847	0.047 291
11:14:34 AM	609	51944 6	2200. 4	317. 526	1.01216	321.436	74.001 9	45.5 951	995. 034	995.171	810.745	13.02 89	4.6561 7	65.12 8	373.38 3	1.31 704	25.2	98.1	508.5 33	107.9	75.29 99	80.099 9	25.5	34.9	486.0 87	15.56 57	212. 232	0.067 98
11:14:35 AM	609	51944 7	2200. 47	317. 544	1.01216	321.431	74.002 5	45.5 947	995. 031	995.398	803.009	12.96 06	4.6638 1	64.91 91	373.09	1.33 558	25.2	98.1	508.5 88	107.9	75.24 3	80.1	25.5	34.9	481.6 94	15.61 57	212. 424	0.153 695
11:14:36 AM	609	51944 8	2200. 16	317. 174	1.01216	321.421	74.014 6	45.5 947	995. 03	995.171	806.869	13.03 04	4.6638 1	64.81 02	374.78 1	1.31 962	25.2	98.1	508.5 98	107.88 1	75.20 8	80.1	25.5 469	34.9	477.4 55	15.65 591	212. 591	0.106 4
11:14:37 AM	609	51944 9	2200. 34	316. 402	1.01216	321.388	74.018 7	45.5 947	995. 03	995.171	803.106	13.00 66	4.6584 7	65.32 42	372.87 7	1.30 161	25.2	98.1	508.6	107.81 5	75.20 15	80.1	25.5 712	34.8 387	473.1 69	15.63 62	212. 847	0.041 38
11:14:38 AM	609	51945 0	2200. 62	316. 45	1.01216	321.305	73.994 1	45.5 947	995. 031	995.171	806.422	12.96 11	4.6630 5	63.65 7	372.41 2	1.32 166	25.2	98.1	508.6	107.80 3	75.20 03	80.1	25.5 132	34.8 072	468.8 02	15.62 83	213. 14	0.011 82
11:14:39 AM	609	51945 1	2200. 74	316. 803	1.01216	321.196	73.938 1	45.5 947	995. 034	995.171	804.481	12.95 18	4.6561 7	64.92 14	373.71 2	1.29 72	25.2	98.1	508.3 94	107.80 1	75.20 01	80.1	25.5 024	34.8 013	464.4 37	15.64 98	213. 486	0.106 4
11:14:40 AM	609	51945 2	2200. 57	317. 303	1.01216	321.108	73.893 3	45.5 947	995. 036	995.398	805.514	12.99 21	4.6607 6	64.72 68	372.52 3	1.31 76	25.2	97.8556	508.3 17	107.8	75.2	80.1	25.5 005	34.8 002	460.1 42	15.62 65	213. 792	0.011 82
11:14:41 AM	609	51945 3	2200. 59	317. 883	1.01216	321.062	73.888 5	45.5 947	995. 034	995.398	810.059	12.99 95	4.6584 7	64.88 18	372.06 2	1.29 9	25.2	97.8103	508.3 03	107.8	75.2	80.1	25.5 001	34.8	455.8 31	15.58 68	214. 002	0.106 4
11:14:42 AM	609	51945 4	2200. 39	317. 342	1.01216	321.048	73.929 5	45.5 881	995. 034	995.171	807.726	13.00 09	4.6607 6	64.06 19	373.12 1	1.29 123	25.2	97.8019	508.3 01	107.65 6	75.2	80.1	25.5	34.8 19	451.4 62	15.61 09	214. 071	0.106 4
11:14:43 AM	609	51945 5	2200. 58	317. 205	1.01216	321.045	73.989 7	45.5 934	995. 034	995.398	808.361	12.97 64	4.6599 9	64.51 27	372.52 4	1.31 839	25.2	97.8004	508.3	107.61	75.2	80.1	25.5	34.8 85	447.1 03	15.65 65	213. 989	0.008 867
11:14:44 AM	609	51945 6	2200. 52	316. 913	1.01216	321.037	74.022 6	45.5 944	995. 034	995.398	813.865	12.82 02	4.6661 1	64.22 32	372.60 2	1.33 039	25.2	97.8001	508.4 23	107.60 2	75.2	80.1	25.5	34.8 972	442.7 78	15.70 02	213. 856	0.106 4
11:14:45 AM	609	51945 7	2200. 57	317. 097	1.01216	321.022	74.016 4	45.5 946	995. 031	995.398	811.326	12.96 77	4.6706 9	63.08 55	371.76 8	1.30 032	25.2	97.8651	508.5 67	107.6	75.2	80.1	25.5	34.8 995	438.4 89	15.66 72	213. 81	0.106 4
11:14:46 AM	609	51945 8	2200. 5	317. 34	1.01216	321.009	73.990 9	45.5 946	995. 03	995.398	802.359	12.79 24	4.6638 1	63.13 86	370.59 3	1.30 09	25.2	97.8935	508.5 94	107.6	75.2	80.1	25.5	34.8 999	434.1 1	15.61 1	213. 889	0.106 4
11:14:47 AM	609	51945 9	2200. 81	317. 157	1.01216	320.996	73.969 7	45.5 947	995. 033	995.171	805.096	12.87 2	4.6638 1	63.31 2	371.29 4	1.30 752	25.2	97.8988	508.5 99	107.64 7	75.2	80.1	25.5	34.9	429.7 62	15.68 39	214. 04	0.106 4
11:14:48 AM	609	51946 0	2201. 19	317. 065	1.01216	320.971	73.969 8	45.5 991	995. 033	995.171	807.737	12.85 44	4.6615 2	63.15 08	373.36 2	1.30 689	25.2	97.8998	508.6	107.69	75.2	80.1	25.5	34.8 254	425.3 99	15.70 53	214. 193	0.008 867
11:14:49 AM	609	51946 1	2200. 94	317. 5	1.01216	320.949	73.981 9	45.6 009	995. 031	995.398	802.459	12.77 57	4.6561 7	63.58 57	372.41 5	1.31 403	25.2	97.9	508.6	107.69 8	75.2	80.1	25.5	34.8 047	421.0 22	15.65 98	214. 285	0.106 4
11:14:50 AM	609	51946 2	2200. 46	317. 452	1.01216	320.959	73.997 1	45.5 958	995. 03	995.171	809.304	12.83 43	4.6569 4	63.80 16	372.42 4	1.32 843	25.2	97.8312	508.6	107.7	75.2	80.1	25.5	34.8 009	416.6 11	15.69 16	214. 328	0.106 4
11:14:51 AM	609	51946 3	2200. 87	317. 096	1.01216	321.012	74.007 7	45.5 988	995. 03	995.398	800.857	12.93 29	4.6607 6	63.93 54	371.62 6	1.31 016	25.2	97.7243	508.6	107.7	75.2	80.1	25.5	34.8 002	412.2 63	15.77 6	214. 403	0.085 714
11:14:52 AM	609	51946 4	2200. 98	317. 117	1.01216	321.073	74.011 9	45.5 954	995. 03	995.171	807.706	12.87 69	4.6622 9	62.93 7	369.85 1	1.30 309	25.2	97.7045	508.6	107.7	75.2	80.1	25.4 387	34.8	407.9 93	15.75 6	214. 54	0.144 828
11:14:53 AM	609	51946 5	2201. 2	317. 909	1.01217	321.108	74.018	45.6 122	995. 029	995.171	808.635	12.86 24	4.6538 8	62.65 83	368.53 8	1.31 977	25.2	97.7008	508.6	107.61 9	75.2	80.1	25.4 072	34.8	403.6 27	15.72 3	214. 727	0.106 4
11:14:54 AM	609	51946 6	2200. 96	317. 936	1.01216	321.129	74.035	45.5 979	995. 03	995.171	807.853	12.88 78	4.6653 4	62.90 52	369.05 1	1.32 41	25.2	97.7002	508.6	107.60 3	75.2	80.1	25.4 013	34.8	399.2 56	15.69 939	214. 939	0.008 867
11:14:55 AM	609	51946 7	2200. 83	317. 89	1.01216	321.153	74.064	45.6 02	995. 031	995.398	802.318	12.98 02	4.6638 1	62.35 37	368.54 166	1.39 166	25.2	97.7	508.7 57	107.60 1	75.2	80.1	25.4 002	34.8	394.6 55	15.76 9	215. 053	0.094 581

11:14:56 AM	609	51946 8	2200. 56	317. 813	1.01217	321.19	74.104 8	45.5 983	995. 028	995.171	809.569	13.14 17	4.6599 9	61.54 22	367.96 5	1.42 798			508.8 73	107.6	75.2	80.1	25.4	34.8	390.0 58	15.83 44	215. 076	0.106 4
11:14:57 AM	609	51946 9	2201. 29	317. 744	1.01216	321.239	74.134 2	45.5 953	995. 029	995.398	805.737	13.02 73	4.6577	62.02 01	369.97 5	1.42 996			508.8 95	107.6	75.05 08	80.1	25.4	34.8	385.6 61	15.83 59	215. 1	0.115 271
11:14:58 AM	609	51947 0	2201. 15	318. 286	1.01217	321.299	74.149 4	45.6 122	995. 027	995.398	813.999	13.00 6	4.6622 9	61.89 84	370.84 3	1.43 391			508.8 99	107.47 7	75.00 94	80.1	25.4	34.8	381.2 51	15.83 93	215. 192	0.133 005
11:14:59 AM	609	51947 1	2201. 27	318. 533	1.01217	321.371	74.160 5	45.6 062	995. 027	995.171	812.724	13.00 21	4.6630 5	61.63 04	370.19 5	1.42 524			508.9	107.41 4	75.00 17	80.1	25.4	34.7 206	376.8 52	15.87 18	215. 441	0.106 4
11:16:13 AM	609	51954 5	2012. 82	332. 532	1.01105	336.193	70.903	45.8 404	995. 006	995.398	684.813	14.90 25	4.4728	60.19 77	322.92 6	1.50 906			520.4 02	106.8	74.58 78	79.7	25.1	34.8	431.4 51	14.82 02	212. 324	0.106 4
11:16:14 AM	609	51954 6	2012. 75	332. 197	1.01105	336.242	70.916 4	45.8 52	995. 006	995.171	686.727	15.10 87	4.4682 1	59.90 5	322.81 6	1.52 395			520.4	106.71 9	74.59 77	79.7	25.1	34.8	427.1 57	14.92 37	212. 171	0.124 138
11:16:15 AM	609	51954 7	2013. 23	332. 743	1.01104	336.275	70.905 2	45.8 245	995. 005	995.398	690.699	15.05 66	4.4773 8	59.46 79	321.94 6	1.54 945			520.4	106.70 3	74.59 96	79.7	25.1	34.8	423.0 19	14.98 53	212. 065	0.106 4
11:16:16 AM	609	51954 8	2012. 74	332. 944	1.01105	336.288	70.889 6	45.8 37	995. 002	995.398	682.044	14.93 02	4.4781 5	59.34 04	321.30 6	1.53 693			520.3 48	106.70 1	74.59 99	79.7	25.1	34.8	418.8 98	14.98 14	212. 112	0.106 4
11:16:17 AM	609	51954 9	2013. 06	333. 035	1.01106	336.292	70.888 3	45.8 541	995. 001	995.398	683.984	15.04 57	4.4682 1	58.53 44	321.64 5	1.55 461			520.3 09	106.7	74.6	79.7	25.1	34.8	414.7 4	14.96 27	212. 384	0.106 4
11:16:18 AM	609	51955 0	2013. 28	333. 15	1.01106	336.303	70.908 8	45.8 601	994. 999	995.398	687.354	15.05 19	4.4781 5	58.57 94	321.93 1	1.58 343			520.3 02	106.7	74.67 71	79.727 1	25.1	34.8	410.5 96	15.01 89	212. 791	0.106 4
11:16:19 AM	609	51955 1	2012. 76	333. 351	1.01106	336.332	70.943 6	45.8 479	995. 001	995.171	687.68	15.05 16	4.4689 8	57.80 2	322.20 5	1.58 84			520.3	106.63 5	74.69 58	79.786 5	25.1	34.8	406.3 98	15.03 88	213. 206	0.008 867
11:16:20 AM	609	51955 2	2012. 71	333. 262	1.01107	336.387	70.980 9	45.8 693	994. 998	995.398	683.83	15.01 17	4.4743 3	58.34 32	321.72	1.57 949			520.3	106.60 6	74.69 92	79.797 5	25.1	34.8	402.2 6	15.07 67	213. 514	0.106 4
11:16:21 AM	609	51955 3	2012. 81	332. 741	1.01108	336.461	71.000 2	45.8 861	994. 993	995.171	687.408	14.94 67	4.4827 3	58.16 86	321.11 7	1.56 485			520.2 9	106.60 1	74.69 99	79.799 5	25.1	34.8	398.0 95	15.07 35	213. 738	0.079 8
11:16:22 AM	609	51955 4	2012. 28	333. 036	1.01107	336.529	70.999	45.8 873	995. 002	995.398	687.252	14.93 96	4.4743 3	57.27 41	320.78 2	1.57 049			520.2 17	106.6	74.7	79.799 9	25.1	34.8	394.0 22	15.06 07	213. 975	0.106 4
11:16:23 AM	609	51955 5	2012. 72	332. 907	1.01106	336.571	70.986 3	45.8 886	995. 008	995.398	681.601	14.99 13	4.4705 1	57.74 14	320.85 4	1.58 677			520.2 03	106.6	74.7	79.8	25.1	34.8	389.9 2	15.04 47	214. 203	0
11:16:24 AM	609	51955 6	2012. 46	333. 087	1.01106	336.592	70.970 9	45.8 978	995. 012	995.398	688.52	15.05 46	4.4712 7	57.26 22	321.00 3	1.59 142			520.2 01	106.62 7	74.7	79.877 1	25.1	34.8	385.7 37	14.95 22	214. 408	0.106 4
11:16:25 AM	609	51955 7	2012. 71	333. 351	1.01106	336.606	70.960 5	45.8 872	995. 019	995.171	682.931	14.92 99	4.4758 6	57.26 49	320.29 2	1.59 776			520.2	106.68 6	74.7	79.895 8	25.1	34.8	381.5 79	14.88 83	214. 404	0.038 424
11:16:26 AM	609	51955 8	2012. 36	333. 203	1.01104	336.632	70.963 6	45.8 741	995. 019	995.171	682.248	14.95 03	4.4728	57.42 27	321.05 4	1.58 683			520.2	106.69 7	74.7	79.899 2	25.1	34.8	377.4 44	14.90 2	214. 146	0.097 54
11:16:27 AM	609	51955 9	2012. 27	333. 326	1.01105	336.683	70.977 7	45.8 827	995. 019	995.398	683.181	14.91 05	4.4804 4	57.57 18	319.94 6	1.59 252			520.2	106.7	74.7	79.899 9	25.1	34.8	373.3 54	14.91 8	213. 687	0.008 867
11:16:28 AM	609	51956 0	2012. 97	333. 13	1.01106	336.754	70.997 1	45.8 967	995. 018	995.398	684.823	15.03 6	4.4735 6	57.68 28	319.19 5	1.59 962			520.2	106.7	74.7	79.9	25.1	34.8	369.2 24	14.94 24	213. 125	0.106 4
11:16:29 AM	609	51956 1	2012. 91	333. 294	1.01106	336.811	71.016	45.8 993	995. 017	995.171	687.309	15.01 03	4.4689 8	56.95 61	320.03 3	1.62 144			520.2	106.7	74.7	79.9	25.1	34.8	365.0 73	14.87 48	212. 714	0.050 25
11:16:30 AM	609	51956 2	2012. 62	333. 165	1.01106	336.848	71.029 4	45.9 138	995. 018	995.398	683.82	14.97 86	4.4857 9	57.05 24	320.63	1.58 812			520.2	106.40 2	74.7	79.9	25.1	34.8	361.0 03	14.86 23	212. 41	0.106 4
11:16:31 AM	609	51956 3	2012. 47	332. 577	1.01106	336.862	71.023 7	45.9 024	995. 018	995.398	683.88	14.92 75	4.4773 8	56.83 09	319.94 5	1.57 277			520.2	106.31 9	74.7	79.9	25.1	34.8	356.8 37	14.80 27	212. 209	0.106 4
11:16:32 AM	609	51956 4	2012. 59	333. 168	1.01108	336.849	71.008 2	45.9 214	995. 006	995.398	686	14.86 47	4.4750 9	56.65 85	320.44 2	1.56 963			520.3 38	106.30 3	74.7	79.9	25.0 254	34.8	352.7 37	14.83 02	211. 994	0.088 67
11:16:33 AM	609	51956 5	2012. 59	332. 936	1.01107	336.826	70.981 3	45.9 038	995. 01	995.398	686.673	14.89 47	4.4750 9	56.67 03	321.24 3	1.57 328			520.5	106.30 1	74.7	79.9	25.0 733	34.8	348.6 73	14.87 07	211. 759	0.106 4

11:16:34 AM	609	51956	2012.	332.				45.9	995.			15.02	4.4743	56.41	320.76	1.57			520.5			25.0		344.5	14.90	211.	0.026			
		6	34	66	1.01107	336.81	70.959	006	008	995.171	681.021	99	3	29	9	348	24.8	89.9	91	106.3	74.7	79.9	429	34.8	09	06	572	601		
11:16:35 AM	609	51956	2012.	332.				45.9	995.			14.91	4.4804	56.35	319.65	1.57			520.5	106.50		25.0		340.3	14.88	211.	0.106			
		7	79	821	1.01108	336.794	70.945	001	001	995.171	682.023	36	4	95	7	366	24.8	89.9	98	9	74.7	79.9	079	67	67	528	4			
11:16:36 AM	609	51956	2012.	332.				45.8	994.			14.95	4.4773	56.32	318.95	1.58			520.6	106.66		25.0	34.7	336.2	14.88	211.	0.076			
		8	4	865	1.01108	336.78	70.933	999	997	995.171	685.545	55	8	1	9	234	24.8	89.9	520.6	5	74.7	79.9	015	282	34	73	664	847		
11:16:37 AM	609	51956	2012.	332.				45.9	994.			14.99	4.4789	56.22	318.62	1.59			520.6	106.69		25.0	34.7	332.1	14.88	211.	0.106			
		9	74	585	1.01108	336.765	70.927	048	997	995.398	686.506	04	1	87	1	265	24.8	89.9	520.6	3	74.7	79.9	003	052	33	31	888	4		
11:16:38 AM	609	51957	2012.	333.				45.9	994.			14.92	4.4819	56.04	318.21	1.58			520.4	106.69		25.0	34.7	327.9	14.86	212.	0.174			
		0	66	223	1.01109	336.743	70.923	047	995	995.398	689.548	07	7	19	318.21	898	24.8	89.8729	46	9	74.7	79.9	718	01	89	73	082	384		
11:16:39 AM	609	51957	2013.	333.				45.9	994.			14.90	4.4804	55.94	320.36	1.60			520.4			25.0	34.7	323.8	14.86	212.	0.106			
		1	1	235	1.01109	336.717	70.929	007	994	995.171	682.234	5	4	47	320.36	1	24.8	89.8135	08	106.7	74.78	79.9	335	002	43	09	167	4		
11:16:40 AM	609	51957	2013.	333.				45.9	994.			15.01	4.4766	55.64	319.49	1.58			520.4			25.0		319.7	14.85	212.	0.106			
		2	14	245	1.0111	336.7	70.949	2	988	995.171	687.564	27	2	83	8	496	24.8	89.8025	02	106.7	74.87	79.9	062	34.7	55	97	141	4		
11:16:41 AM	609	51957	2013.	332.				45.9	994.			14.98	4.4827	55.78	318.61	1.56			520.4	106.30		25.0		315.6	14.88	212.	0.106			
		3	14	923	1.01111	336.69	70.974	411	985	995.171	688.628	6	3	23	6	722	24.8	89.8005	520.4	3	74.89	79.9	012	34.7	24	82	034	4		
11:16:42 AM	609	51957	2012.	333.				45.9	994.			14.99	4.4865	55.63	319.06	1.57			520.4	106.21		25.0		311.4	14.90	211.	0.212			
		4	54	062	1.0111	336.68	70.994	169	987	995.171	684.531	61	5	1	301	301	24.8	89.8001	520.4	9	74.89	79.9	002	34.7	9	18	922	808		
11:17:56 AM	609	51964	1807.	333.				45.9	994.			9.270	4.2405	53.99	275.99	1.57			517.8			24.8	34.7	440.3	13.26	209.	0.106			
		8	13	797	1.01212	337.563	63.953	945	918	995.398	602.333	6	3	31	9	358	25.0915	83.8697	41	105.6	74.7	79.800	1	84	006	74	209.	473	4	
11:17:57 AM	609	51964	1807.	333.				45.9	994.			9.217	4.2397	54.50	275.82	1.58			517.8			24.8	34.7	436.6	13.29	209.	0.106			
		9	22	943	1.01215	337.6	63.971	945	912	995.398	604.011	04	6	48	4	559	25.0984	83.8129	07	105.6	74.7	79.8	224	001	66	35	651	4		
11:17:58 AM	609	51965	1807.	333.				46.0	994.			9.358	4.2405	54.51	275.81	1.57			517.8			24.8		432.9	13.28	209.	0.047			
		0	34	917	1.01216	337.632	63.979	2	915	995.398	604.146	56	3	87	6	443	25.0997	83.8024	01	105.6	74.7	79.879	4	042	55	29	834	291		
11:17:59 AM	609	51965	1807.	333.				46.0	994.			9.277	4.2367	54.06	276.87	1.57			517.8			24.8		429.3	13.29	209.	0.106			
		1	55	969	1.01216	337.684	63.976	04	909	995.171	605.196	3	1	47	4	996	25.0999	83.8004	517.8	105.6	74.7	79.896	2	008	34.7	23	81	973	4	
11:18:00 AM	609	51965	1807.	334.				46.0	994.			9.155	4.2412	54.18	274.63	1.57			517.8			24.8		425.6	13.28	210.	0.106			
		2	07	12	1.01218	337.762	63.974	206	903	995.398	604.665	88	9	64	3	13	25.1	83.8001	517.8	105.6	74.7	79.899	3	191	34.7	48	42	094	4	
11:18:01 AM	609	51965	1807.	334.				46.0	994.			9.192	4.2474	54.47	276.71	1.57			517.7			24.8		422.0	13.26	210.	0.106			
		3	43	053	1.01217	337.842	63.975	109	906	995.398	601.662	66	4	03	4	948	25.1	83.762	25	105.6	74.7	79.899	9	85	34.7	06	5	17	4	
11:18:02 AM	609	51965	1807.	334.				46.0	994.			9.237	4.2367	54.83	275.53	1.57			517.7			24.8		418.2	13.28	210.				
		4	25	408	1.01217	337.905	63.985	057	907	995.398	605.323	06	1	38	6	429	25.1	83.63	05	105.6	74.76	79.9	972	34.7	76	69	183	0		
11:18:03 AM	609	51965	1807.	334.				46.0	994.			9.131	4.2435	53.85	275.92	1.58			517.7			24.8		414.5	13.29	210.	0.065			
		5	34	159	1.01217	337.951	63.999	234	911	995.171	604.261	83	8	61	5	139	25.1	83.6056	01	105.6	74.87	80.030	3	995	34.7	77	88	168	025	
11:18:04 AM	609	51965	1807.	334.				46.0	994.			9.342	4.2412	54.22	275.71	1.57			517.7			24.8		410.8	13.29	210.	0.106			
		6	74	145	1.01219	337.999	64.016	301	899	995.398	602.899	77	9	9	1	736	25.1	83.601	517.7	105.6	74.89	80.087	1	999	34.5	594	95	65	121	4
11:18:05 AM	609	51965	1807.	334.				46.0	994.			9.381	4.2474	54.20	275.95	1.56			517.7			24.8		407.2	13.27	210.	0.008			
		7	51	652	1.01219	338.057	64.030	194	893	995.171	603.827	86	4	3	5	336	25.1	83.6002	517.7	105.6	74.89	80.097	6	24.9	34.4	295	38	04	086	867
11:18:06 AM	609	51965	1807.	334.				45.9	994.			9.313	4.2466	54.25	275.78	1.58			517.7			24.8		403.4	13.28	210.	0.106			
		8	5	492	1.01218	338.124	64.041	966	89	995.171	602.884	09	4	53	9	414	25.1	83.6	517.7	105.6	74.89	80.099	6	24.8	34.4	055	82	69	067	4
11:18:07 AM	609	51965	1807.	334.				46.0	994.			9.018	4.2466	54.43	276.95	1.59			517.7			24.8		399.7	13.25	210.	0.106			
		9	1807	286	1.0122	338.195	64.056	071	883	995.398	596.796	4	4	07	7	13	25.1	83.6	517.7	105.6	74.9	80.099	9	167	34.4	01	96	11	036	4
11:18:08 AM	609	51966	1806.	333.				46.0	994.			9.031	4.2420	53.87	276.51	1.58			517.7			24.8		396.1	13.24	209.	0.047			
		0	87	898	1.0122	338.233	64.061	048	883	995.398	597.282	19	5	51	2	339	25.1	83.6	517.7	105.6	74.9	80.1	031	002	02	8	95	291		
11:18:09 AM	609	51966	1806.	333.				45.9	994.			9.273	4.2412	53.88	274.84	1.56			517.7			24.8		392.4	13.21	209.	0.038			
		1	85	642	1.01219	338.241	64.05	939	881	995.398	601.09	77	9	24	8	739	25.1	83.6	517.7	105.33	74.9	80.1	006	34.4	49	81	812	424		
11:18:10 AM	609	51966	1807.	334.				46.0	994.			9.274	4.2458	53.92	274.77	1.57			517.7			24.8		388.6	13.24	209.	0.106			
		2	65	003	1.01221	338.231	64.024	093	873	995.171	603.563	32	7	92	7	944	25.1	83.6	517.7	105.22	74.9	80.1	001	34.4	97	54	657	4		
11:18:11 AM	609	51966	1807.	334.				46.0	994.			9.369	4.2435	53.60	274.50	1.57			517.6			24.8		385.0	13.25	209.	0.106			
		3	45	757	1.01222	338.233	63.997	127	869	995.398	602.129	17	8	29	6	893	25.1	83.6	517.6	105.20	74.9	80.1	24.8	34.4	34	58	508	4		
11:18:12 AM	609	51966	1806.	334.				46.0	994.			9.242	4.2435	53.54	274.80	1.59			517.6			24.8		381.3	13.24	209.	0.106			
		4	93	891	1.01222	338.269	63.997	094	865	995.398	603.143	33	8	41	2	643	25.1	83.5531	17	105.20	74.9	80.1	24.8	34.4	8	01	44	404		

11:18:13 AM	609	519665	1807.25	334.466	1.01222	338.327	64.0297	45.9966	994.86	995.398	581.646	9.10361	4.24664	54.0392	275.802	1.57842	25.1	83.5098	517.603	105.2	74.8478	80.1	24.8	34.4	377.649	13.2407	209.397	0.1064
11:18:14 AM	609	519666	1807.1	334.539	1.01222	338.377	64.0671	46.0007	994.861	995.398	589.933	8.96482	4.24893	52.9669	275.637	1.56475	25.1	83.5018	517.601	105.254	74.8089	80.1	24.8718	34.4	373.999	13.2526	209.383	0.056158
11:18:15 AM	609	519667	1807.07	334.448	1.01223	338.407	64.0927	46.009	994.858	995.398	588.746	9.10443	4.25046	52.6113	274.72	1.57016	25.1	83.5003	517.6	105.373	74.8016	80.1	24.8335	34.5225	370.304	13.2724	209.343	0.1064
11:18:16 AM	609	519668	1806.6	334.305	1.01223	338.427	64.0934	46.0262	994.86	995.171	588.318	9.05356	4.24435	53.7129	274.137	1.49341	25.1	83.5001	517.6	105.395	74.8003	80.1	24.8062	34.5856	366.793	13.2614	209.305	0.183251
11:18:17 AM	609	519669	1806.83	333.476	1.01222	338.431	64.0651	45.9978	994.863	995.398	599.735	9.2784	4.24664	53.7809	276.279	1.48631	25.1	83.5	517.669	105.399	74.8001	80.1	24.8012	34.5973	363.21	13.1981	209.314	0.02069
11:18:18 AM	609	519670	1807.12	333.32	1.01222	338.399	64.0257	46.0167	994.862	995.398	603.23	9.30529	4.24511	53.9589	275.068	1.50059	25.1	83.3371	517.694	105.4	74.8	80.1	24.8002	34.5995	359.519	13.1884	209.316	0
11:18:19 AM	609	519671	1806.42	333.881	1.01223	338.332	63.9763	46.0102	994.858	995.398	604.882	9.18062	4.24358	53.3442	274.39	1.50368	25.1	83.3069	517.699	105.4	74.7185	80.1	24.8	34.5999	355.791	13.2225	209.311	0.1064
11:18:20 AM	609	519672	1807.35	334.021	1.01222	338.256	63.9345	46.0106	994.864	995.398	604.193	9.35181	4.25199	52.8861	273.592	1.49881	25.1	83.3013	517.7	105.176	74.7034	80.1	24.8	34.619	352.157	13.2873	209.278	0.1064
11:18:21 AM	609	519673	1807.04	333.805	1.01222	338.214	63.9167	46.0261	994.866	995.398	599.987	9.33821	4.24969	53.1191	274.827	1.50078	25.1	83.3002	517.7	105.114	74.7006	80.1	24.8	34.685	348.472	13.2406	209.283	0.076847
11:18:22 AM	609	519674	1807.22	333.812	1.01222	338.203	63.9209	46.0018	994.867	995.171	604.975	9.34023	4.24969	52.341	275.972	1.48507	25.1	83.3	517.666	105.103	74.7001	80.1	24.8	34.6972	344.774	13.2496	209.374	0.1064
11:18:23 AM	609	519675	1806.88	334.085	1.01222	338.208	63.9408	46.0025	994.864	995.398	601.582	9.20609	4.25504	52.6565	272.515	1.48162	25.1	83.2387	517.612	105.1	74.7	80.1	24.8	34.6995	341.087	13.2336	209.535	0.106404
11:18:24 AM	609	519676	1807.36	333.368	1.01223	338.193	63.9507	46.0077	994.862	995.398	603.337	9.1902	4.25046	53.028	273.342	1.48364	25.1	83.2072	517.602	105.1	74.8303	80.1	24.8	34.6999	337.412	13.214	209.651	0.1064
11:18:25 AM	609	519677	1806.93	334.181	1.01222	338.138	63.9537	46.0163	994.864	995.398	604.35	9.22361	4.25046	52.7054	274.746	1.48621	25.1	83.2013	517.6	105.1	74.8871	80.1	24.8	34.7	333.632	13.2594	209.657	0.1064

APPENDIX AW: RAW DATA – BDJ10 BLEND AT 20°BTDC

Manual Log Description : Power Curve on 90% base diesel &
 10% Jatropa 20° timing
 Manual Log Start Date :
 2012/03/07
 Manual Log Start Time :
 10:45:55 AM

TIME	mSec	Eng_Tim_e	Speed	Torque	~ECE_Corr_Factor	~Torque_Corr	~Power_Corr	Humidity	~P_Bar	P_Pre_Co_mpressor	P_Post_Co_mpressor	P_Exhaust	P_Oil_Filter	P_Cool_In	P_Cool_Out	P_Fuel	T_Air_In_Snorkel	T_Post_Co_mpressor	T_Exhaust	T_Oil_Sump	T_Cool_In	T_Cool_Out	T_Fuel	T_Cell	Fuel_Mass	Fuel_Flow	~SF_C	Smoke
10:45:57 AM	0	524891	2605.76	286.858	1.00862	289.219	78.9648	43.7948	996.335	994.718	895.749	8.75666	5.06036	69.1869	472.133	1.43667	24.8	103.81	482.959	103.7	76.3214	81.6067	26.2	31.3025	401.942	17.0473	217.979	0.056158
10:45:57 AM	984	524894	2605.99	286.631	1.00862	289.289	78.9765	43.7942	996.335	994.718	897.692	8.654	5.0382	68.4724	477.603	1.42548	24.8	103.883	482.911	103.946	77.2001	82.0777	26.2	31.3005	390.784	17.0324	217.852	0.1064
10:45:58 AM	984	524895	2606.4	286.87	1.00862	289.324	78.9802	43.7941	996.335	994.718	903.779	8.78105	5.03973	68.1205	479.897	1.43316	24.8	103.897	482.902	104.234	77.363	82.1773	26.2	31.3652	384.833	17.0129	217.781	0.09754
10:45:59 AM	984	524896	2606.25	287.214	1.00862	289.334	78.9772	43.7941	996.335	994.718	899.311	8.80536	5.03209	69.5143	479.784	1.43077	24.8	103.899	482.9	104.288	77.3931	82.1958	26.2	31.3936	379.873	17.0318	217.709	0.1064
10:46:01 AM	984	524897	2606.63	286.647	1.00862	289.358	78.9741	43.7941	996.335	994.416	902.925	8.7321	5.04432	70.9146	479.556	1.41422	24.8	103.954	482.972	104.298	77.3987	82.1992	26.2	31.3988	375.106	17.0525	217.634	0.1064
10:46:02 AM	0	524898	2606.54	287.262	1.00862	289.389	78.9792	43.7941	996.335	994.718	900.105	8.93394	5.0298	71.133	478.198	1.42211	24.8	104.073	482.995	104.3	77.3998	82.1999	26.2	31.3998	370.342	17.0406	217.576	0.04138
10:46:03 AM	0	524899	2606.8	286.936	1.00862	289.403	78.9948	43.7941	996.335	994.718	898.571	8.68685	5.03897	70.4955	476.094	1.41979	24.8	104.095	482.999	104.3	77.4	82.2	26.2	31.4	365.662	17.0685	217.536	0.0798
10:46:04 AM	0	524900	2606.37	287.183	1.00862	289.414	79.0136	43.7941	996.335	994.718	906.002	8.64106	5.0489	70.0721	474.205	1.43401	24.8	104.099	483	104.3	77.54	82.2	26.2	31.4	360.753	16.9899	217.556	0.1064
10:46:04 AM	984	524901	2606.53	286.836	1.00862	289.443	79.0254	43.7941	996.335	994.718	901.475	8.81742	5.04737	70.654	472.669	1.42914	24.8	104.1	483	104.3	78.5665	82.9304	26.2	31.4	356.092	16.9997	217.54	0.1064
10:46:05 AM	984	524902	2606.7	287.182	1.00862	289.482	79.0286	43.7941	996.335	994.718	896.404	8.77512	5.03438	71.0569	474.789	1.4232	24.8	104.1	483	104.515	78.7567	83.4759	26.2	31.4	351.325	16.9909	217.467	0.153695
10:46:06 AM	984	524903	2606.49	287.489	1.00862	289.519	79.0353	43.799	996.335	994.718	898.367	8.7627	5.04737	70.8047	474.129	1.42757	24.8	104.1	483	104.584	78.792	83.577	26.2	31.4	346.585	17.0153	217.327	0.1064
10:46:07 AM	984	524904	2606.59	287.389	1.00885	289.577	79.0652	43.795	996.335	994.718	897.236	8.65512	5.03362	71.4971	476.638	1.43672	24.8771	104.1	483	104.597	78.7985	83.5957	26.2	31.4	341.842	17.0128	217.146	0.1064
10:46:09 AM	0	524905	2606.26	287.319	1.00891	289.646	79.0921	43.7942	996.335	994.718	904.159	8.76155	5.03515	72.4664	477.566	1.42886	24.8958	104.1	483	104.599	78.7997	83.5992	26.3	31.4	337.012	17.0887	217.041	0.02956
10:46:10 AM	0	524906	2606.14	287.082	1.00892	289.71	79.112	43.7941	996.335	994.718	901.141	8.82748	5.0298	70.5118	475.866	1.44699	24.8992	104.1	483	104.6	78.6697	83.5999	26.3	31.4	332.335	17.0776	217.036	0.038424
10:46:11 AM	0	524907	2606.19	287.02	1.00892	289.738	79.1151	43.7941	996.335	994.718	896.563	8.85639	5.03209	70.1826	476.43	1.44278	24.8999	104.1	483	104.694	78.6129	83.2823	26.3	31.4	327.577	17.0438	217.151	0.026601
10:46:11 AM	984	524908	2606.6	286.946	1.00892	289.745	79.0927	43.7941	996.335	994.416	905.383	8.90765	5.03285	69.8227	481.14	1.44728	24.9	104.1	483	104.78	78.6024	83.2153	26.3	31.3282	322.857	17.0698	217.325	0.1064
10:46:12 AM	984	524909	2606.57	286.747	1.00875	289.726	79.0457	43.7941	996.335	994.718	900.363	8.94575	5.03744	69.7041	481.482	1.43301	24.843	104.1	483	104.796	78.6004	83.2028	26.3	31.3052	318.142	17.0856	217.525	0.1064
10:46:13 AM	984	524910	2606.15	286.783	1.00864	289.664	79.0028	43.7941	996.335	994.718	899.792	9.02589	5.0298	69.1631	477.513	1.42706	24.808	104.1	483	104.799	78.6001	83.2005	26.3	31.301	313.347	17.125	217.69	0.1064

10:46:15 AM	0	524911	2606.23	286.75	1.00862	289.565	78.9734	43.7941	996.335	994.718	898.409	8.95227	5.02292	67.067	474.962	1.42921	24.8015	104.1	483	104.8	77.2932	83.2001	26.3	31.3002	308.574	17.1573	217.875	0.094581
10:46:15 AM	984	524912	2605.82	286.771	1.00862	289.453	78.9567	43.7941	996.335	994.718	902.879	8.92667	5.02598	66.5999	476.345	1.42714	24.8003	104.1	483	104.8	75.262	82.0361	26.3	31.3	303.78	17.1456	218.134	0.1064
10:46:16 AM	984	524913	2606.32	286.512	1.00862	289.356	78.9449	43.8067	996.335	994.718	907.294	9.11182	5.03362	65.9306	474.797	1.42361	24.8001	104.1	483	104.881	74.8856	81.4364	26.3	31.341	299.17	17.1274	218.392	0.1064
10:46:17 AM	984	524914	2606.47	286.686	1.00864	289.275	78.9331	43.7964	996.335	994.718	902.787	9.04193	5.03056	66.4798	474.595	1.43666	24.81	104.1	483	104.897	74.8159	81.3253	26.3	31.3891	294.451	17.1145	218.685	0.1064
10:46:18 AM	984	524915	2606.15	286.654	1.00887	289.22	78.9384	43.7945	996.335	994.718	899.122	8.78666	5.02674	65.5986	472.436	1.42718	24.8833	104.1	482.896	104.899	74.8029	81.3047	26.3	31.398	289.661	17.1275	218.879	0.239409
10:46:19 AM	984	524916	2606.25	286.44	1.00891	289.193	78.9323	43.7941	996.335	994.416	903.062	8.7799	5.02751	64.9247	472.346	1.42462	24.8969	104.1	482.818	104.9	74.8005	81.3009	26.3	31.3996	284.969	17.1278	218.945	0.1064
10:46:20 AM	984	524917	2606.5	286.399	1.00892	289.168	78.9231	43.7941	996.335	994.718	907.644	8.78977	5.02369	65.1076	469.213	1.42185	24.8994	104.1	482.803	104.9	75.3222	81.0563	26.3	31.3999	280.244	17.1124	218.944	0.1064
10:46:22 AM	984	524918	2606.66	286.928	1.00892	289.135	78.9138	43.7941	996.335	994.718	900.204	8.89043	5.02292	64.3922	471.405	1.41827	24.8999	104.1	482.801	105.226	75.467	80.5216	26.3	31.4	275.456	17.1439	218.918	0.200985
10:46:22 AM	984	524919	2606.55	286.881	1.00892	289.121	78.9153	43.7941	996.335	994.718	897.275	8.78919	5.01681	63.8097	470.231	1.42966	24.9	104.1	482.8	105.368	75.4939	80.4225	26.3	31.4	270.641	17.1334	218.924	0.1064
10:46:24 AM	0	524920	2606.69	286.86	1.00892	289.156	78.9285	43.7941	996.335	994.718	906.986	8.92217	5.02292	64.2454	470.219	1.41631	24.9	104.1	482.8	105.394	75.4989	80.4042	26.3	31.4	265.999	17.1181	218.937	0.1064
10:46:24 AM	984	524921	2606.25	286.945	1.00892	289.216	78.9553	43.786	996.335	994.718	903.481	8.89999	5.02216	64.3399	471.955	1.42889	24.9	104.1	482.8	105.399	75.4998	80.4008	26.3	31.4	261.237	17.0695	218.923	0.1064
10:46:25 AM	984	524922	2606.51	286.898	1.00892	289.268	78.9865	43.7965	996.335	994.718	901.889	8.8362	5.01834	64.5592	470.309	1.42363	24.9	104.1	482.8	105.4	76.6245	80.4001	26.3	31.4	256.405	17.1327	218.838	0.01182
10:47:42 AM	0	524998	2402.24	298.362	1.00861	301.536	75.843	43.7896	996.335	994.718	805.378	7.74025	4.90373	78.7436	434.822	1.42251	24.8	98.4085	481.601	106.8	75.4382	80.0638	26.6	31.3524	566.028	16.3024	213.245	0.02069
10:47:42 AM	984	524999	2402.75	298.417	1.00861	301.478	75.8347	43.7932	996.335	994.718	811.57	7.79756	4.90296	78.8161	433.231	1.4247	24.8	98.4016	481.6	106.995	75.4886	80.2562	26.6	31.4	561.537	16.3016	213.988	0.017734
10:47:44 AM	0	525000	2402.92	298.995	1.00861	301.405	75.8202	43.7939	996.335	994.718	802.907	7.67822	4.90602	79.0189	436.145	1.42884	24.8	98.4003	481.6	107.081	75.4979	80.2919	26.6	31.4	557.052	16.2973	215.016	0.1064
10:47:44 AM	984	525001	2402.41	299.113	1.00862	301.362	75.8097	43.794	996.335	994.718	804.654	7.52528	4.89914	78.5285	438.351	1.44666	24.8	98.4001	481.581	107.096	75.4996	80.2985	26.6	31.4	552.581	16.283	215.916	0
10:47:46 AM	0	525002	2402.53	298.81	1.00862	301.381	75.8131	43.7941	996.335	994.416	802.9	7.49695	4.90067	78.2687	435.315	1.42435	24.8	98.3431	481.515	107.099	75.4999	80.2997	26.6	31.4	548.165	16.2929	216.502	0.04138
10:47:46 AM	984	525003	2402.7	298.845	1.00862	301.406	75.83	43.8147	996.335	994.718	809.529	7.56288	4.90755	78.6698	436.532	1.43163	24.8	98.308	481.503	107.1	75.5	80.2999	26.6	31.4	543.628	16.2544	216.755	0.047291
10:47:48 AM	0	525004	2402.66	299.265	1.00862	301.405	75.852	43.7979	996.335	994.718	805.349	7.7186	4.90755	78.6127	437.517	1.42645	24.8	98.3015	481.501	107.1	75.5	80.3746	26.6	31.4	539.177	16.2163	216.703	0.076847
10:47:49 AM	0	525005	2402.51	299.142	1.00862	301.441	75.8736	43.7948	996.335	994.718	810.058	7.83098	4.90755	78.8247	437.108	1.44418	24.8	98.3003	481.5	107.1	75.5	80.3953	26.6	31.4	534.63	16.1863	216.504	0.1064
10:47:49 AM	984	525006	2402.58	299.058	1.00875	301.537	75.8976	43.7942	996.335	994.718	804.022	7.66886	4.9022	78.4234	434.262	1.44547	24.8469	98.3	481.5	107.1	75.5	80.3991	26.6	31.4	530.218	16.2031	216.234	0.1064
10:47:50 AM	984	525007	2402.72	299.451	1.00889	301.635	75.9236	43.7941	996.335	994.718	804.388	7.52355	4.90679	79.7916	434.52	1.44667	24.8902	98.3	481.5	107.1	75.5	80.3998	26.6	31.4	525.677	16.153	215.89	0.02956
10:47:51 AM	984	525008	2402.78	299.543	1.00891	301.701	75.9454	43.7941	996.335	994.718	810.186	7.66966	4.90755	79.7652	438.171	1.43366	24.8982	98.3	481.5	107.1	75.424	80.4	26.5	31.4	521.245	16.1388	215.526	0.1064
10:47:53 AM	984	525009	2403.04	299.267	1.00892	301.774	75.9651	43.7941	996.335	994.718	809.131	7.58126	4.89609	80.41	437.68	1.42998	24.8997	98.3	481.5	107.1	75.16	80.2861	26.5	31.4	516.719	16.1672	215.189	0.094581
10:47:54 AM	0	525010	2402.89	299.478	1.00891	301.864	75.9812	43.7782	996.335	994.718	811.746	7.61994	4.90144	79.9244	438.116	1.42707	24.8999	98.3	481.5	107.1	75.1111	80.216	26.4	31.4	512.199	16.1173	214.924	0.1064

10:47:54 AM	984	525011	2402.72	299.617	1.00892	301.937	75.9973	43.7911	996.335	994.718	803.355	7.62731	4.89074	79.8983	434.26	1.44683	24.9	98.3	481.5	107.1	75.1021	80.203	26.4124	31.4	507.698	16.0969	214.656	0.1064
10:47:55 AM	984	525012	2402.65	299.686	1.00892	302.006	76.0139	43.7935	996.335	994.718	805.881	7.54984	4.90831	79.5211	436.327	1.42885	24.9	98.3	481.5	107.1	75.1004	80.2005	26.4023	31.4	503.267	16.1377	214.426	0.1064
10:47:56 AM	984	525013	2402.6	299.747	1.00892	302.084	76.0285	43.794	996.335	994.718	806.003	7.67377	4.90449	79.8695	435.822	1.43721	24.9	98.2314	481.5	107.1	75.1001	80.2001	26.4004	31.4	498.824	16.1403	214.238	0.212808
10:47:57 AM	984	525014	2402.63	299.587	1.00892	302.162	76.0435	43.8024	996.335	994.718	811.906	7.66043	4.90067	80.4395	436.921	1.42285	24.9	98.2058	481.5	107.1	75.3745	80.2	26.4001	31.4	494.347	16.1497	214.088	0.1064
10:47:58 AM	984	525015	2402.62	299.671	1.00892	302.212	76.058	43.789	996.335	994.718	809.274	7.80135	4.9022	79.6815	435.946	1.42699	24.9	98.2011	481.5	107.152	75.4767	80.2	26.3478	31.4	489.86	16.1599	214.027	0.1064
10:48:00 AM	0	525016	2402.86	299.846	1.00891	302.25	76.0653	43.7723	996.335	994.718	808.365	7.75646	4.90296	79.9711	436.717	1.42964	24.9	98.2002	481.5	107.191	75.4957	80.2	26.3089	31.4	485.355	16.1307	214.051	0.08867
10:48:01 AM	0	525017	2402.47	299.535	1.00874	302.298	76.0565	43.79	996.335	994.718	804.516	7.58182	4.8915	79.7405	437.212	1.42671	24.8387	98.2	481.5	107.198	75.4992	80.2	26.3016	31.4	480.894	16.1375	214.087	0.1064
10:48:02 AM	0	525018	2403.23	299.643	1.00863	302.32	76.052	43.7745	996.335	994.416	809.661	7.59272	4.89532	79.3697	437.646	1.43136	24.8072	98.2344	481.262	107.2	75.4999	80.2	26.3003	31.4	476.388	16.1974	214.13	0.09754
10:48:03 AM	0	525019	2403.28	299.658	1.00862	302.316	76.0549	43.7904	996.335	994.718	806.589	7.59454	4.90144	79.4158	439.142	1.42781	24.8013	98.2878	481.211	107.2	75.5468	80.2	26.3001	31.4	471.96	16.1768	214.184	0.056158
10:48:03 AM	984	525020	2403.31	299.412	1.00862	302.295	76.057	43.7934	996.335	994.718	810.647	7.57607	4.90067	80.3768	435.74	1.43676	24.8002	98.2977	481.202	107.2	75.5901	80.2686	26.2388	31.4	467.461	16.1578	214.221	0.1064
10:48:04 AM	984	525021	2403.57	299.542	1.00862	302.27	76.057	43.7939	996.335	994.718	809.863	7.64171	4.90296	79.434	437.389	1.44216	24.8	98.2996	481.2	107.281	75.5982	80.2942	26.2072	31.3478	463.047	16.1885	214.3	0.1064
10:48:05 AM	984	525022	2403.45	299.475	1.00862	302.237	76.0494	43.794	996.335	994.718	810.792	7.83863	4.89838	79.9578	438.783	1.4401	24.8	98.2999	481.2	107.297	75.5997	80.2989	26.2013	31.3089	458.566	16.1409	214.418	0.1064
10:48:07 AM	0	525023	2403.34	299.367	1.00862	302.187	76.0401	43.7941	996.335	994.718	813.074	7.61882	4.89303	80.1652	436.742	1.43201	24.8	98.3	481.2	107.299	75.5999	80.2998	26.2002	31.3016	454.0	16.0915	214.434	0.06798
10:48:08 AM	0	525024	2403.24	299.495	1.00862	302.145	76.0296	43.7941	996.335	994.718	808.638	7.62731	4.89838	79.7646	438.631	1.42745	24.8	98.1458	481.2	107.3	75.6	80.3	26.1229	31.3003	449.607	16.1329	214.39	0.1064
10:48:09 AM	0	525025	2403.26	299.223	1.00862	302.107	76.0176	43.7941	996.335	994.718	802.247	7.77702	4.89914	80.0697	436.06	1.42049	24.8	98.1085	481.2	107.3	75.4458	80.3	26.1042	31.3001	445.221	16.1476	214.29	0.1064
10:48:10 AM	0	525026	2403.29	299.129	1.00861	302.064	76.0054	43.7788	996.335	994.718	806.106	7.59178	4.89838	80.2422	436.212	1.42721	24.8	98.1016	481.2	107.163	75.4085	80.3	26.1008	31.3	440.757	16.1143	214.13	0.056158
10:48:10 AM	984	525027	2403.16	299.674	1.00861	302.015	75.9952	43.7912	996.335	994.718	808.069	7.597	4.89685	80.6577	438.63	1.43742	24.8	98.1003	481.2	107.112	75.4016	80.3	26.1001	31.3815	436.264	16.0964	214.043	0.04138
10:49:22 AM	984	525099	2199.19	330.76	1.00892	334.102	76.9124	43.7941	996.333	994.718	760.373	9.96645	4.67145	97.0911	398.738	1.44547	24.9	94.6	498.1	106.624	74.8027	80.0085	25.9	31.4	397.088	15.948	208.559	0.1064
10:49:23 AM	984	525100	2199.27	330.987	1.00924	334.016	76.9131	43.8115	996.33	994.718	761.042	10.087	4.67145	96.6176	401.938	1.42539	25.0043	94.6	498.1	106.605	74.8005	80.0016	25.9	31.4	392.68	15.9305	208.831	0.1064
10:49:24 AM	984	525101	2198.92	330.988	1.00948	333.984	76.9128	43.7973	996.331	994.718	751.136	9.98421	4.67222	96.7435	402.768	1.44737	25.0823	94.6	498.1	106.601	74.8001	80.0003	25.919	31.4	388.282	15.9624	209.047	0.192118
10:49:25 AM	984	525102	2199.07	331.053	1.00952	333.971	76.9143	43.7947	996.331	994.718	759.632	9.96516	4.67451	96.5547	403.062	1.41656	25.0967	94.6	498.1	106.6	74.7458	80.0001	25.985	31.4	383.948	15.9273	209.194	0.1064
10:49:26 AM	984	525103	2198.69	331.077	1.00953	333.977	76.9266	43.7982	996.331	994.718	755.772	9.99222	4.67375	96.6213	400.692	1.41746	25.0994	94.6	498.1	106.6	74.627	79.8861	25.9201	31.4	379.536	15.9442	209.243	0
10:49:27 AM	984	525104	2199	330.926	1.00954	334.005	76.9415	43.7992	996.331	994.718	759.869	9.99417	4.66916	96.9946	401.81	1.43807	25.0999	94.6	498.1	106.838	74.605	79.816	25.9037	31.5	375.119	15.9312	209.242	0.1064
10:49:28 AM	984	525105	2199.02	331.043	1.00954	334.053	76.9531	43.795	996.331	994.718	759.176	9.96722	4.67222	96.8329	403.068	1.43207	25.1	94.6	498.1	106.889	74.6009	79.803	25.9475	31.6635	370.68	16.0134	209.214	0.008867
10:49:29 AM	984	525106	2198.85	330.807	1.00882	334.09	76.8988	43.8145	996.331	994.718	756.623	10.2676	4.66611	97.0704	402.932	1.42478	24.8618	94.6	498.1	106.898	74.6002	79.8005	25.9632	31.6932	366.278	15.8967	209.216	0.01182

10:49:30 AM	984	525107	2199.16	330.737	1.00866	334.079	76.8788	43.8227	996.331	994.718	758.844	10.0391	4.66687	97.0712	400.601	1.40904	24.8114	94.3847	498.1	106.9	74.6	79.8001	25.9117	31.6987	361.858	15.8777	209.205	0.1064
10:49:31 AM	984	525108	2199.07	331.129	1.00863	334.028	76.8663	43.8012	996.331	994.718	758.668	9.94057	4.66763	96.4993	401.214	1.44892	24.8021	94.3157	498.1	106.9	74.6	79.8271	25.9816	31.6998	357.44	15.8401	209.151	0
10:49:32 AM	984	525109	2199.12	331.271	1.00863	333.965	76.8617	43.8046	996.331	994.718	762.463	9.95707	4.66687	96.709	403.187	1.42471	24.8004	94.3029	498.1	106.843	74.6	79.8865	25.9966	31.7	353.084	15.848	208.991	0.183251
10:49:33 AM	984	525110	2199.23	331.042	1.00862	333.919	76.871	43.796	996.333	994.718	755.656	9.96013	4.67527	96.8584	400.612	1.43321	24.8001	94.3005	498.1	106.808	74.6	79.8975	25.9994	31.7	348.725	15.8532	208.686	0
10:49:34 AM	984	525111	2199.05	331.143	1.00917	333.894	76.9257	43.8098	996.333	994.718	758.673	10.106	4.67145	96.8214	400.136	1.39073	24.9838	94.3001	498.1	106.801	74.6	79.8995	25.9999	31.7	344.295	15.8674	208.395	0.1064
10:49:35 AM	984	525112	2198.96	331.061	1.00947	333.914	76.96	43.7998	996.333	994.945	758.211	10.042	4.67375	97.5644	401.312	1.39555	25.0785	94.2532	498.019	106.8	74.6	79.8999	26	31.7	339.879	15.8876	208.139	0.01182
10:49:36 AM	984	525113	2199.39	331.413	1.00952	333.972	76.9724	43.8043	996.335	994.718	761.493	10.0587	4.67145	97.033	402.237	1.42902	25.096	94.2099	498.003	106.8	74.7565	79.9	26	31.7	335.411	15.8958	208.035	0.1064
10:49:37 AM	984	525114	2199.02	331.416	1.00953	334.072	76.9801	43.8034	996.335	994.718	760.653	10.1958	4.66763	96.2027	399.079	1.4394	25.0993	94.2018	498.001	106.84	74.8734	80.0435	26	31.7	331.033	15.8736	208.071	0.02956
10:49:38 AM	984	525115	2199.21	331.448	1.00953	334.192	76.994	43.8075	996.332	994.718	758.655	10.0044	4.67527	97.1811	399.36	1.42937	25.0999	94.2003	498	107.133	74.8951	80.0895	26	31.643	326.587	15.8295	208.143	0.1064
10:49:39 AM	984	525116	2199.43	331.251	1.00954	334.296	77.0149	43.8099	996.332	994.945	761.077	10.054	4.67145	97.4947	401.648	1.39478	25.1	94.2001	498	107.188	74.8991	80.0981	26	31.608	322.529	15.8334	208.164	0.1064
10:49:40 AM	984	525117	2199.07	331.384	1.00954	334.38	77.0291	43.8084	996.332	994.718	753.635	10.1125	4.67222	97.2779	402.609	1.41544	25.1	94.2	498	107.198	74.8998	80.0996	26	31.6015	317.884	15.8755	208.087	0.01182
10:49:41 AM	984	525118	2198.9	331.189	1.00954	334.438	77.0377	43.8094	996.332	994.718	762.41	10.0007	4.66687	97.5453	402.191	1.38669	25.1	94.1206	498	107.2	74.9	80.0999	26	31.6003	313.46	15.8935	207.953	0.1064
10:49:42 AM	984	525119	2199.46	331.363	1.00954	334.488	77.038	43.8096	996.332	994.718	762.635	10.077	4.67145	97.4377	402.334	1.4269	25.1	94.1038	498	107.2	74.9	80.1	26	31.6	308.992	15.9147	207.855	0.1064
10:49:43 AM	984	525120	2199.43	331.341	1.00955	334.515	77.0372	43.8371	996.332	994.718	758.971	10.0201	4.67757	97.2937	402.906	1.46769	25.1	94.1007	498	107.2	74.9	80.1	25.9254	31.6	304.539	15.9635	207.906	0.1064
10:49:44 AM	984	525121	2198.78	331.56	1.00954	334.529	77.0387	43.8131	996.332	994.718	757.362	9.97181	4.66993	97.5272	400.819	1.39777	25.1	94.1001	498	107.2	74.9	80.1	25.9698	31.6	300.153	15.9429	208.114	0.133005
10:49:45 AM	984	525122	2198.94	331.285	1.00954	334.54	77.0438	43.8195	996.332	994.945	758.618	9.99685	4.67222	97.189	401.618	1.4152	25.1	94.1	498	107.2	74.9	80.1	25.9476	31.6	295.744	15.9193	208.387	0.1064
10:49:46 AM	984	525123	2198.96	331.623	1.00954	334.554	77.0475	43.7988	996.329	994.718	759.632	10.1059	4.67298	97.9052	399.791	1.42201	25.1	94.2139	498	107.2	74.9	80.1	25.9088	31.6	291.359	15.884	208.617	0.047291
10:49:47 AM	984	525124	2198.89	331.737	1.00954	334.564	77.0532	43.8042	996.329	994.718	754.398	10.1505	4.67757	97.8022	401.442	1.44262	25.1	94.284	498	107.2	74.7046	80.1	25.9016	31.6	286.919	15.8775	208.702	0
10:49:48 AM	984	525125	2199.01	331.732	1.00955	334.598	77.0638	43.8193	996.329	994.718	758.195	10.0473	4.67527	97.8569	400.036	1.42969	25.1	94.297	498	107.028	74.6194	80.1	25.9003	31.6	282.512	15.8934	208.621	0
10:49:49 AM	984	525126	2199.14	331.523	1.00954	334.651	77.0759	43.8071	996.329	994.718	760.47	10.0108	4.66993	97.9472	401.699	1.39652	25.1	94.2995	498	106.761	74.6036	80.1	25.9001	31.6	278.119	15.914	208.466	0.174384
10:49:50 AM	984	525127	2199	331.229	1.00908	334.683	77.0477	43.8159	996.33	994.718	760.809	10.1425	4.67145	96.876	401.252	1.37304	24.9435	94.2999	498	106.711	74.6007	80.1	25.9	31.6	273.848	15.9238	208.303	0.094581
10:49:51 AM	984	525128	2199.06	331.196	1.00872	334.639	77.0169	43.8247	996.332	994.718	756.537	10.0876	4.67451	97.4305	401.657	1.42429	24.8266	94.28	498.072	106.702	74.6001	80.1	25.9	31.6	269.412	15.8871	208.234	0.094581
10:51:14 AM	984	525211	2010.86	344.074	1.00868	347.293	73.1331	43.9616	996.335	994.718	639.385	13.548	4.46974	106.433	364.429	1.50651	24.8	86.905	509.402	106.2	74.8891	80.0651	25.5042	31.3	494.35	15.0776	207.734	0.017734
10:51:15 AM	984	525212	2010.91	344.167	1.00868	347.274	73.1354	43.9703	996.335	994.718	647.221	13.7218	4.47509	107.044	362.605	1.5106	24.8	86.9009	509.4	105.711	74.898	80.0935	25.4395	31.3	490.183	15.0451	207.85	0.280788
10:51:16 AM	984	525213	2010.38	343.81	1.00869	347.245	73.1244	43.9759	996.335	994.416	642.62	13.5329	4.47662	107.277	365.675	1.49192	24.8	86.9002	509.4	105.621	74.8996	80.0988	25.4073	31.3	486.032	15.0412	207.914	0.1064
10:51:17 AM	984	525214	2011.23	344.406	1.00868	347.211	73.1042	43.9567	996.335	994.416	643.518	13.5801	4.47509	106.901	366.236	1.49201	24.8	86.9	509.514	105.604	74.8999	80.0998	25.4014	31.3	481.901	15.056	207.906	0.017734

10:51:18 AM	984	525215	2011.08	344.4	1.00868	347.191	73.093	43.9734	996.335	994.718	642.318	13.4421	4.47204	106.883	365.062	1.45828	24.8	86.7412	509.584	105.601	74.9	80.1	25.4003	31.3	477.732	15.0323	207.854	0.1064
10:51:19 AM	984	525216	2010.72	344.104	1.00869	347.183	73.0934	43.9765	996.335	994.718	643.865	13.6573	4.47815	107.075	363.962	1.44042	24.8	86.7076	509.597	105.6	74.9	80.1	25.4	31.3	473.649	15.0296	207.752	0.02069
10:51:20 AM	984	525217	2010.95	344.166	1.00869	347.173	73.1056	43.977	996.335	994.718	639.483	13.4993	4.47356	106.871	363.997	1.49378	24.8	86.7014	509.599	105.6	74.9	80.1	25.4	31.3	469.492	15.0495	207.654	0.076847
10:51:21 AM	984	525218	2010.95	344.173	1.00869	347.157	73.1122	43.9771	996.335	994.718	649.337	13.4384	4.47204	107.158	363.348	1.50307	24.8	86.7003	509.6	105.6	74.9718	80.1813	25.3	31.3	465.312	15.0284	207.589	0.01182
10:51:22 AM	984	525219	2011.25	344.2	1.00869	347.151	73.1118	43.9772	996.335	994.718	644.75	13.4906	4.47662	107.571	364.957	1.48435	24.8	86.7001	509.6	105.885	74.9948	80.3595	25.3098	31.3	461.138	14.9886	207.509	0.1064
10:51:23 AM	984	525220	2011.22	344.202	1.00869	347.181	73.1105	43.9772	996.335	994.718	646.935	13.5615	4.46821	108.142	367.207	1.51454	24.8	86.7	509.6	106.06	74.999	80.3925	25.3018	31.3	456.997	14.991	207.432	0.153695
10:51:24 AM	984	525221	2010.66	343.957	1.00869	347.206	73.1102	43.9772	996.335	994.718	644.922	13.4071	4.46745	108.952	367.962	1.45336	24.8	86.7	509.6	106.093	74.9998	80.3986	25.3003	31.3	452.954	15.0146	207.329	0.1064
10:51:25 AM	984	525222	2010.87	343.785	1.00869	347.191	73.1082	43.9772	996.335	994.718	639.992	13.5642	4.46898	109.414	365.408	1.46688	24.8	86.6063	509.6	106.099	75	80.3997	25.3001	31.3	448.849	14.9469	207.182	0.115271
10:51:26 AM	984	525223	2010.6	343.94	1.00869	347.133	73.0957	43.9772	996.335	994.416	648.079	13.6364	4.47051	108.399	365.792	1.4836	24.8	86.5197	509.6	106.1	74.9181	80.4	25.3	31.3	444.648	15.0518	207.049	0.1064
10:51:27 AM	984	525224	2010.93	343.771	1.00869	347.081	73.0739	43.9772	996.335	994.718	644.97	13.5759	4.47204	108.138	365.571	1.4906	24.8	86.5036	509.6	106.005	74.8219	80.1762	25.3	31.4	440.507	15.0537	207.024	0.01182
10:51:28 AM	984	525225	2010.96	344.472	1.00868	347.043	73.0577	43.9658	996.335	994.718	647.286	13.566	4.47586	107.942	365.123	1.50797	24.8	86.5007	509.6	105.675	74.8041	80.1141	25.3	31.3	436.263	14.9817	207.068	0.1064
10:51:29 AM	984	525226	2010.97	344.152	1.00868	347.022	73.0565	43.9683	996.335	994.718	648.23	13.5134	4.47356	107.616	364.275	1.50241	24.8	86.5001	509.6	105.614	74.8008	80.1026	25.3	31.3	432.197	15.0158	207.184	0.1064
10:51:30 AM	984	525227	2010.92	343.934	1.00868	347.014	73.0719	43.9755	996.335	994.718	641.09	13.5382	4.47204	107.293	365.53628	1.51628	24.8	86.5	509.477	105.603	74.801	80.1005	25.3	31.3	428.054	14.9662	207.296	0.144828
10:51:31 AM	984	525228	2010.8	344.013	1.00869	347.008	73.0879	43.9769	996.335	994.416	639.421	13.582	4.4835	106.881	365.109	1.54085	24.8	86.3412	509.414	105.6	74.8	80.1001	25.3	31.3	423.825	14.9878	207.249	0.1064
10:51:32 AM	984	525229	2011.09	343.81	1.00869	347.01	73.0904	43.9771	996.335	994.718	640.425	13.5146	4.4812	107.353	364.577	1.50573	24.8	86.3076	509.403	105.6	74.3112	80.0532	25.3	31.3	419.749	15.0163	207.137	0.1064
10:51:33 AM	984	525230	2011.28	344.144	1.00869	347.021	73.0869	43.9772	996.335	994.416	647.455	13.2668	4.47586	106.761	362.485	1.481	24.8	86.3014	509.4	105.665	74.2206	80.0098	25.3	31.3	415.635	14.9766	207.017	0.047291
10:51:34 AM	984	525231	2011.23	344.106	1.00869	347.038	73.078	43.9772	996.335	994.718	643.108	13.6697	4.47662	107.666	363.484	1.48057	24.8	86.3003	509.4	105.694	74.2038	80.0018	25.29	31.3	411.469	14.9575	206.915	0.1064
10:51:35 AM	984	525232	2011.03	344.549	1.0089	347.057	73.0946	43.9772	996.335	994.718	648.193	13.6705	4.47433	107.353	362.37	1.45018	24.8718	86.3	509.373	105.699	74.2007	80.0003	25.2	31.3	407.295	14.9836	206.885	0.1064
10:51:36 AM	984	525233	2010.77	344.229	1.00897	347.088	73.1128	43.9772	996.335	994.718	648.579	13.7078	4.47051	106.796	363.391	1.50934	24.8948	86.2431	509.314	105.7	74.2001	80.0001	25.2	31.3	403.137	14.9799	206.853	0.08867
10:51:37 AM	984	525234	2010.97	344.139	1.00899	347.124	73.129	43.9772	996.335	994.718	644.06	13.6243	4.46898	106.172	362.061	1.48548	24.899	86.208	509.302	105.7	74.2	80	25.2	31.3	399.068	14.9371	206.771	0.047291
10:51:38 AM	984	525235	2010.73	344.176	1.00899	347.171	73.1417	43.9772	996.334	994.718	650.195	13.5285	4.46898	106.265	360.418	1.46508	24.8998	86.2015	509.3	105.666	74.2	79.7618	25.2	31.3	394.931	14.9544	206.654	0.1064
10:51:39 AM	984	525236	2010.95	343.703	1.00899	347.209	73.1368	43.9772	996.334	994.718	637.38	13.4044	4.47815	106.46	361.866	1.45967	24.9	86.2003	509.3	105.612	74.2	79.7114	25.2	31.2	390.827	14.9447	206.527	0.1064
10:51:40 AM	984	525237	2010.84	343.593	1.00899	347.223	73.1188	43.9772	996.334	994.718	645.052	13.5628	4.47815	105.389	362.131	1.47857	24.9	86.2001	509.3	105.602	74.2	79.7021	25.2	31.2	386.633	14.9341	206.396	0.047291
10:51:41 AM	984	525238	2010.63	343.468	1.00899	347.189	73.0859	43.9845	996.334	994.718	642.312	13.4812	4.47356	105.246	363.119	1.49383	24.9	86.2	509.225	105.6	74.2	79.7004	25.2	31.2	382.484	14.953	206.298	0.07734
10:51:42 AM	984	525239	2010.83	343.055	1.00899	347.083	73.0467	43.9785	996.334	994.718	637.987	13.3392	4.48044	105.364	363.445	1.48956	24.9	86.2	509.205	105.6	74.2271	79.7001	25.2	31.2	378.346	14.956	206.307	0.1064

10:51:43 AM	984	525240	2011.08	343.428	1.00899	346.923	73.0057	43.9774	996.332	994.718	643.795	13.1046	4.47586	105.576	360.567	1.46955	24.9	86.2	509.201	105.6	74.2865	79.7	25.2	31.2	374.213	14.936	206.349	0.1064
10:52:57 AM	984	525314	1805.54	344.68	1.00876	347.952	65.7796	44.0837	996.323	994.718	555.815	8.08573	4.2199	107.28	322.796	1.50896	24.8047	80.3775	506.9	105.301	74.5	79.9999	25	31.6	416.671	13.4633	206.075	0.02956
10:52:58 AM	984	525315	1805.77	344.863	1.00874	347.934	65.7741	44.0827	996.326	994.718	547.302	7.99554	4.22448	107.312	323.257	1.51786	24.8009	80.3144	506.9	105.3	74.5	80	25	31.6	412.942	13.4906	206.048	0.076847
10:52:59 AM	984	525316	1805.47	344.857	1.00874	347.917	65.7679	44.073	996.326	994.718	545.865	8.02374	4.22066	107.182	323.045	1.52862	24.8002	80.3027	506.9	105.218	74.5	80	25	31.6	409.236	13.4826	206.1	0.133005
10:53:00 AM	984	525317	1805.38	344.824	1.00874	347.895	65.764	44.0944	996.326	994.718	539.819	7.98459	4.2199	106.632	323.178	1.50617	24.8	80.3005	506.9	105.122	74.5	80	25	31.6	405.556	13.4295	206.258	0.1064
10:53:01 AM	984	525318	1805.19	345.165	1.00889	347.876	65.7735	44.0861	996.329	994.718	533.25	7.84538	4.22295	106.547	323.523	1.49527	24.8522	80.3001	506.9	105.104	74.5	80	25	31.6	401.829	13.3895	206.387	0.02956
10:53:02 AM	984	525319	1805.1	344.854	1.00899	347.879	65.7817	44.0416	996.33	994.416	531.942	7.83877	4.23059	106.105	322.378	1.46735	24.8911	80.2729	506.751	105.101	74.5	80	25	31.6	398.188	13.4203	206.431	0.1064
10:53:03 AM	984	525320	1805.39	344.675	1.00903	347.895	65.7899	44.0762	996.331	994.718	544.699	8.09054	4.22448	106.082	323.218	1.49486	24.8984	80.2135	506.709	105.1	74.4656	80	25	31.6	394.407	13.4364	206.322	0.1064
10:53:04 AM	984	525321	1805.49	344.599	1.00903	347.907	65.7901	44.0755	996.331	994.718	558.741	8.12369	4.2283	106.248	321.489	1.52164	24.8997	80.2025	506.702	105.1	74.4122	79.9349	24.99	31.6	390.692	13.4033	206.115	0.06798
10:53:05 AM	984	525322	1805.38	344.683	1.00903	347.905	65.7819	44.0615	996.329	994.718	557.942	8.0998	4.21913	105.861	321.799	1.50619	24.8999	80.2005	506.7	104.862	74.4023	79.9065	24.9167	31.6	386.998	13.4487	205.932	0.1064
10:53:06 AM	984	525323	1805.17	344.74	1.00904	347.904	65.7714	44.0798	996.326	994.718	554.746	8.01084	4.22066	105.791	322.683	1.49444	24.9	80.2001	506.7	104.811	74.4004	79.9012	24.9031	31.7	383.266	13.4986	205.901	0.1064
10:53:07 AM	984	525324	1805.24	344.637	1.00905	347.902	65.76	44.0956	996.326	994.718	551.229	8.15265	4.22219	105.981	321.572	1.47361	24.9	80.2	506.472	104.802	74.4001	79.9002	24.9006	31.7	379.583	13.4389	206.016	0.038424
10:53:08 AM	984	525325	1805.7	345.309	1.00905	347.883	65.7508	44.0986	996.329	994.718	535.964	8.07764	4.21302	106.418	320.648	1.48148	24.9	80.0508	506.332	104.8	74.4	79.9	24.9001	31.7	375.871	13.4053	206.182	0.260099
10:53:09 AM	984	525326	1804.83	344.577	1.00904	347.857	65.7453	44.0901	996.331	994.718	535.024	7.93972	4.22219	106.168	320.742	1.49299	24.9	80.0094	506.306	104.8	74.5492	79.9	24.9	31.7	372.108	13.3761	206.318	0.1064
10:53:10 AM	984	525327	1804.95	344.323	1.00904	347.83	65.7422	44.0976	996.33	994.718	533.595	7.99622	4.22448	105.749	320.253	1.48658	24.9	80.0017	506.301	104.861	74.5906	79.9	24.9	31.8	368.397	13.4181	206.286	0.05025
10:53:11 AM	984	525328	1805.34	344.113	1.00904	347.789	65.728	44.0886	996.33	994.718	527.192	8.04865	4.22906	106.329	321.78	1.51636	24.9	80.0003	506.3	104.893	74.5983	79.9	24.9	31.7	364.652	13.4055	206.131	0.038424
10:53:12 AM	984	525329	1805.23	344.144	1.00904	347.723	65.7136	44.0973	996.33	994.416	528.232	8.08314	4.23136	105.779	321.168	1.49925	24.9	80.0001	506.3	104.899	74.5997	79.9	24.9	31.7	360.983	13.3647	205.955	0.09754
10:53:13 AM	984	525330	1805.71	343.815	1.00904	347.646	65.6906	44.0989	996.33	994.718	528.231	8.03998	4.22906	105.581	320.85	1.49402	24.9	79.9532	505.974	104.9	74.5999	79.9	24.9	31.7	357.378	13.4288	205.793	0.05911
10:53:14 AM	984	525331	1805.62	344.146	1.00905	347.551	65.6685	44.0992	996.327	994.718	533.375	8.12782	4.22142	105.454	321.907	1.51009	24.9	79.9099	505.914	104.9	74.5531	79.9	24.9	31.7	353.57	13.4319	205.79	0.1064
10:53:15 AM	984	525332	1805.78	344.689	1.00904	347.45	65.6605	44.0933	996.327	994.718	535.438	8.1306	4.22524	105.558	321.889	1.52171	24.9	79.9018	505.903	104.881	74.5098	79.9746	24.9	31.7	349.839	13.3832	205.862	0.1064
10:53:16 AM	984	525333	1805.48	344.817	1.00904	347.394	65.6681	44.0909	996.327	994.718	546.582	8.31622	4.23288	105.346	322.563	1.52833	24.9	79.9003	505.9	104.815	74.5018	79.9953	24.9	31.7	346.082	13.3541	205.928	0.008867
10:53:17 AM	984	525334	1805.28	344.513	1.00894	347.411	65.6847	44.0877	996.327	994.718	556.313	8.11968	4.22372	104.861	319.938	1.49202	24.8656	79.9001	505.9	104.803	74.5003	79.9991	24.9	31.7	342.405	13.3504	205.954	0
10:53:18 AM	984	525335	1805.18	344.636	1.00877	347.466	65.7017	44.0819	996.33	994.718	559.572	8.11309	4.22906	104.831	320.06	1.4853	24.8122	79.9	505.835	104.801	74.5001	79.9998	24.9	31.7	338.744	13.3623	205.802	0.1064
10:53:19 AM	984	525336	1805.27	344.972	1.00874	347.518	65.7221	44.0901	996.332	994.718	557.171	8.10368	4.22601	105.021	319.513	1.50832	24.8023	79.7412	505.806	104.8	74.5	80	24.9	31.7	335.083	13.3797	205.566	0.1064
10:53:20 AM	984	525337	1805.36	344.899	1.00874	347.6	65.7379	44.0976	996.332	994.718	558.327	8.1784	4.23365	104.746	320.322	1.5102	24.8004	79.7076	505.801	104.8	74.5	80	24.9	31.7	331.334	13.3779	205.321	0.1064

10:53:21 AM	984	525338	1805.08	344.844	1.00874	347.703	65.7471	44.0989	996.332	994.718	544.547	8.14393	4.22677	104.243	319.166	1.49404	24.8001	79.7014	505.8	104.731	74.5	80	24.9	31.8	327.617	13.3721	205.149	0.065025
10:53:22 AM	984	525339	1805.35	344.583	1.00874	347.78	65.7538	44.0992	996.33	994.718	531.57	8.00484	4.22372	104.351	320.063	1.4854	24.8	79.7003	505.8	104.706	74.5	80	24.9	31.8	323.885	13.4051	205.111	0.1064
10:53:23 AM	984	525340	1805.78	344.599	1.00896	347.792	65.7707	44.0992	996.331	994.718	528.569	8.05025	4.23059	104.544	320.089	1.51263	24.8746	79.7001	505.731	104.701	74.5	80	24.9	31.8	320.164	13.433	205.186	0.1064
10:53:24 AM	984	525341	1805.61	344.701	1.00903	347.783	65.7686	44.0992	996.331	994.718	545.626	8.18147	4.22448	104.679	318.187	1.49572	24.8953	79.6387	505.624	104.7	74.5	80	24.9	31.8	316.497	13.3671	205.299	0.02956
10:53:25 AM	984	525342	1805.49	345.173	1.00904	347.803	65.7649	44.0992	996.331	994.718	546.192	8.25859	4.23594	104.835	319.528	1.52369	24.8991	79.6072	505.604	104.7	74.5	80	24.8478	31.8	312.755	13.3772	205.403	0.268966
10:53:26 AM	984	525343	1805.57	345.212	1.00904	347.85	65.7721	44.0992	996.333	994.718	547.322	8.14389	4.23594	104.632	320.33	1.52648	24.8998	79.6013	505.601	104.7	74.5	79.9185	24.8089	31.8	309.076	13.41	205.488	0.1064
10:54:32 AM	984	525409	1598.88	345.475	1.00881	348.821	58.4066	44.0869	996.274	994.718	477.593	1.57536	3.87683	107.243	285.935	1.45781	24.8007	75.2105	497.504	103.7	74.1	79.9	24.6042	31.4002	519.39	11.9276	206.406	0.1064
10:54:33 AM	984	525410	1599.45	345.314	1.00881	348.815	58.3918	44.0935	996.272	994.718	473.299	1.31415	3.88753	107.527	287.187	1.48627	24.8001	75.2019	497.501	103.757	74.1	79.9	24.6008	31.4	516.087	11.9118	206.228	0.038424
10:54:34 AM	984	525411	1598.95	345.829	1.00881	348.775	58.3807	44.0982	996.27	994.718	468.372	1.60437	3.87913	107.581	287.445	1.45753	24.8	75.2004	497.5	103.792	74.1	79.9	24.6001	31.4	512.821	11.9074	206.052	0.038424
10:54:35 AM	984	525412	1599.25	345.419	1.0094	348.734	58.4071	44.0782	996.263	994.718	475.6	1.60808	3.88065	107.043	285.865	1.47337	24.9954	75.2001	497.5	103.799	74.1	79.9	24.6	31.4	509.556	11.9165	205.953	0.1064
10:54:36 AM	984	525413	1598.82	345.059	1.00968	348.715	58.4169	44.0953	996.26	994.718	473.745	1.63676	3.88371	106.914	285.61	1.50836	25.0806	75.1591	497.093	103.8	74.1	79.9	24.6	31.4	506.147	11.9667	205.928	0.1064
10:54:37 AM	984	525414	1599.33	345.162	1.00973	348.671	58.408	44.0985	996.259	994.718	469.386	1.4537	3.88447	106.878	285.841	1.46935	25.0964	75.1109	497.017	103.8	74.1	79.9	24.6	31.4	502.795	11.9915	206.003	0.1064
10:54:38 AM	984	525415	1598.53	344.806	1.00973	348.628	58.3849	44.0991	996.266	994.718	471.144	1.49567	3.89059	106.58	285.786	1.46332	25.0993	75.102	497.003	103.76	74.1	79.9	24.6	31.4	499.547	11.9617	206.199	0.1064
10:54:39 AM	984	525416	1598.98	344.894	1.00974	348.591	58.3607	44.0992	996.268	994.718	475.268	1.3675	3.89211	106.725	285.851	1.45065	25.0999	75.1004	497.001	103.467	74.1	79.9	24.5531	31.4	496.188	11.9553	206.472	0.1064
10:54:40 AM	984	525417	1598.96	344.521	1.0095	348.551	58.3214	44.0992	996.272	994.718	470.552	1.17055	3.88982	106.703	286.83	1.4765	25.0187	75.1001	497	103.412	74.1	79.9	24.5098	31.4	492.939	11.9541	206.767	0.026601
10:54:41 AM	984	525418	1599.29	345.298	1.00893	348.44	58.2699	44.0992	996.28	994.718	474.895	1.57164	3.88906	106.736	285.955	1.48203	24.8405	75.1	496.805	103.402	74.1	79.9	24.5018	31.4	489.54	12.0112	206.997	0.1064
10:54:42 AM	984	525419	1599.07	345.345	1.00882	348.304	58.2639	44.0992	996.288	994.718	476.742	1.43568	3.88829	106.429	286.114	1.45111	24.8075	74.9412	496.719	103.4	74.1	79.9	24.5003	31.4	486.321	11.9318	207.136	0.1064
10:54:43 AM	984	525420	1599.5	345.135	1.0088	348.225	58.273	44.0992	996.287	994.718	472.947	1.41947	3.89746	106.142	285.223	1.46487	24.8014	74.9076	496.704	103.4	74.17	79.9	24.5001	31.4	483.094	11.9463	207.175	0.1064
10:54:44 AM	984	525421	1599.53	345.134	1.00879	348.19	58.2961	44.0992	996.288	994.718	479.82	1.31523	3.90052	105.972	286.257	1.49312	24.8003	74.9014	496.701	103.606	74.1962	79.9	24.5	31.438	479.715	11.9525	207.151	0.115271
10:54:45 AM	984	525422	1599.42	345.321	1.0088	348.167	58.3196	44.0992	996.28	994.718	476.515	1.45684	3.89517	106.135	285.489	1.47634	24.8	74.9003	496.7	103.683	74.1993	79.9	24.5	31.57	476.484	11.9684	207.057	0.1064
10:54:46 AM	984	525423	1599.59	345.189	1.00949	348.188	58.3727	44.0992	996.27	994.718	474.278	1.3514	3.89364	105.723	284.387	1.46877	25.0238	74.9	496.643	103.697	74.1999	79.9	24.5	31.5944	473.103	11.9297	206.917	0.1064
10:54:47 AM	984	525424	1599.26	345.487	1.00969	348.291	58.3884	44.0992	996.269	994.718	482.399	1.5388	3.89594	106.183	284.939	1.5013	25.0859	74.8388	496.445	103.699	74.2	79.9	24.5	31.599	469.796	11.9141	206.781	0.008867
10:54:48 AM	984	525425	1599.26	345.378	1.00973	348.415	58.3922	44.0992	996.266	994.718	477.113	1.27656	3.89059	106.618	283.752	1.50215	25.0974	74.8072	496.408	103.7	74.2	79.9	24.4282	31.5998	466.494	11.898	206.63	0.1064
10:54:49 AM	984	525426	1599.38	345.218	1.00973	348.508	58.395	44.0992	996.272	994.718	475.354	1.32817	3.89746	105.946	285.864	1.46628	25.0995	74.8013	496.402	103.7	74.2	79.9	24.4665	31.6	463.216	11.8862	206.475	0.09754
10:54:50 AM	984	525427	1599.1	345.088	1.00973	348.568	58.3954	44.0992	996.271	994.718	480.753	1.36811	3.89211	105.585	283.823	1.45413	25.0999	74.8002	496.4	103.7	74.2	79.9	24.4469	31.6	459.921	11.9135	206.258	0.1064

10:54:51 AM	984	525428	1599.2	345.257	1.00927	348.608	58.3642	44.0992	996.265	994.718	474.252	1.10764	3.89364	105.682	283.781	1.45616	24.9435	74.8	496.4	103.7	74.2	79.9	24.4087	31.6	456.651	11.8911	206.051	0.1064
10:54:52 AM	984	525429	1599.42	345.537	1.0089	348.604	58.3395	44.092	996.265	994.718	479.52	1.26841	3.89823	105.268	284.353	1.47069	24.8266	74.762	496.176	103.7	74.2	79.9	24.4016	31.6	453.294	11.8659	205.872	0.162562
10:54:53 AM	984	525430	1599.22	345.687	1.00883	348.579	58.3375	44.0979	996.267	994.718	474.792	1.49186	3.89211	104.705	285.502	1.47136	24.8049	74.63	496.114	103.7	74.2	79.9	24.4003	31.6	450.07	11.8612	205.747	0.047291
10:54:54 AM	984	525431	1599.39	344.994	1.00882	348.557	58.3467	44.099	996.27	994.718	474.178	1.30852	3.8967	105.272	284.083	1.50296	24.8009	74.6056	496.103	103.7	74.2	79.8387	24.4001	31.6	446.74	11.8705	205.644	0.09754
10:54:55 AM	984	525432	1599.49	345.474	1.00882	348.512	58.3579	44.0992	996.265	994.718	482.409	1.47153	3.89899	105.158	284.173	1.45172	24.8002	74.601	496.1	103.469	74.2	79.8072	24.4	31.6	443.468	11.8594	205.484	0.1064
10:54:56 AM	984	525433	1598.95	345.666	1.00882	348.463	58.3631	44.0992	996.263	994.718	472.347	1.29591	3.90205	105.387	284.949	1.45015	24.8	74.6002	496.1	103.413	74.2	79.8013	24.4	31.6	440.087	11.8601	205.315	0.056158
10:54:57 AM	984	525434	1599.18	344.968	1.00883	348.442	58.3606	44.0992	996.259	994.718	476.644	1.50125	3.90434	105.098	283.293	1.44495	24.8	74.6	495.891	103.402	74.2	79.8002	24.4	31.6	436.794	11.8604	205.185	0.076847
10:54:58 AM	984	525435	1599.07	344.981	1.00882	348.438	58.349	44.0912	996.266	994.718	480.96	1.57508	3.89976	104.699	283.657	1.47917	24.8	74.5283	495.735	103.4	74.2	79.8	24.4	31.6	433.509	11.8367	205.093	0.1064
10:54:59 AM	984	525436	1599.29	344.787	1.00881	348.402	58.3337	44.0978	996.269	994.718	467.866	1.43545	3.90358	104.587	282.734	1.44936	24.8	74.5052	495.707	103.4	74.05	79.8	24.4	31.6	430.21	11.8474	205.031	0.1064
10:55:00 AM	984	525437	1599.29	344.978	1.00881	348.316	58.3168	44.099	996.27	994.718	472.181	1.59625	3.90052	104.735	282.73	1.46556	24.8	74.501	495.701	103.523	74.0105	79.8	24.4	31.6	426.97	11.8838	205.022	0
10:55:01 AM	984	525438	1599.46	345.19	1.00881	348.239	58.302	44.0926	996.271	994.718	471.151	1.29228	3.90052	104.467	284.068	1.49767	24.8	74.5002	495.7	103.586	74.00	79.8	24.4	31.6	423.584	11.8511	205.033	0.1064
10:56:37 AM	984	525534	1400.78	329.016	1.00918	332.228	48.75	44.0738	996.212	994.718	388.069	1.27538	3.478	109.522	257.714	1.47868	24.9	68.7036	480.703	102.1	74.2	80.1	24.2	31.6	498.251	10.041	208.261	0.1064
10:56:38 AM	984	525535	1400.81	329.011	1.00916	332.204	48.7396	44.0556	996.22	994.718	380.708	1.51424	3.47417	109.231	256.643	1.46961	24.9	68.7007	480.701	102.1	74.2	80.1	24.2	31.6	495.517	10.0944	208.197	0.008867
10:56:39 AM	984	525536	1400.84	329.005	1.00918	332.201	48.7213	44.068	996.213	994.416	387.725	1.26281	3.48029	109.767	257.144	1.4827	24.9	68.7001	480.7	102.031	74.2	80.1771	24.2	31.6	492.71	10.0722	208.179	0.115271
10:56:40 AM	984	525537	1401.17	328.898	1.00916	332.188	48.7164	44.0542	996.22	994.416	379.975	1.42417	3.4757	109.673	257.768	1.48258	24.9	68.7	480.7	101.924	74.2	80.1958	24.2	31.6	489.904	10.0829	208.24	0.1064
10:56:41 AM	984	525538	1400.62	329.25	1.00916	332.175	48.7168	44.07	996.224	994.416	386.005	1.14185	3.47188	109.899	257.589	1.44882	24.9	68.7	480.7	101.905	74.2	80.1992	24.2	31.6	487.124	10.0859	208.413	0.038424
10:56:42 AM	984	525539	1400.95	329.211	1.00916	332.159	48.7174	44.0693	996.225	994.718	381.243	1.3941	3.47647	110.264	258.351	1.46483	24.9	68.67	480.198	101.901	74.2	80.1999	24.2	31.6	484.32	10.0657	208.597	0.1064
10:56:43 AM	984	525540	1401.09	329.287	1.00916	332.154	48.7287	44.0823	996.228	994.718	385.074	1.4867	3.47723	110.239	258.167	1.45284	24.9	68.45	480.037	101.9	74.17	80.2	24.2	31.6	481.53	10.0436	208.7	0.1064
10:56:44 AM	984	525541	1401.67	329.37	1.00916	332.167	48.7368	44.0614	996.228	994.718	388.046	1.42546	3.48105	109.532	258.167	1.47014	24.9	68.4093	480.007	101.9	73.95	80.0861	24.2	31.7	478.717	10.0919	208.696	0.1064
10:56:45 AM	984	525542	1401.12	329.252	1.00915	332.201	48.7466	44.0357	996.226	994.718	384.703	1.48453	3.4864	109.627	258.062	1.45525	24.9	68.4017	480.001	101.825	73.9093	80.016	24.2	31.6	475.996	10.0933	208.624	0.026601
10:56:46 AM	984	525543	1401.13	329.186	1.00917	332.225	48.7565	44.075	996.222	994.718	382.712	1.36567	3.48029	109.53	257.51	1.45321	24.9	68.4003	480	101.805	73.9017	80.003	24.2	31.4	473.245	10.0737	208.55	0.02069
10:56:47 AM	984	525544	1401.13	329.415	1.00916	332.245	48.7605	44.0587	996.221	994.718	378.7	1.25776	3.47952	109.626	258.256	1.44431	24.9	68.4001	479.794	101.801	73.903	80.0005	24.2	31.4	470.445	10.0501	208.529	0.065025
10:56:48 AM	984	525545	1401.61	329.266	1.00918	332.268	48.7635	44.0917	996.215	994.416	379.345	0.99252	3.47035	109.67	256.329	1.46924	24.9	68.2046	479.473	101.8	73.901	80.0001	24.143	31.4	467.634	10.0515	208.539	0.085714
10:56:49 AM	984	525546	1401.18	328.907	1.00918	332.28	48.7596	44.0566	996.207	994.718	379.318	1.29539	3.48258	109.327	255.73	1.46354	24.9	68.1194	479.414	101.8	73.9	80	24.1424	31.4003	464.91	10.0343	208.484	0.1064
10:56:50 AM	984	525547	1400.97	329.707	1.00919	332.266	48.7584	44.0612	996.202	994.718	374.654	1.233	3.46424	109.72	255.43	1.50911	24.9	68.1036	479.402	101.8	73.9	79.8371	24.1893	31.4001	462.129	9.99347	208.357	0.10

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10:56:51 AM	984	525548	1401.06	328.9	1.0092	332.23	48.7493	44.0849	996.198	994.718	378.095	1.36609	3.48564	109.332	255.873	1.47746	24.9	68.1007	479.4	101.8	73.9	79.8069	24.198	31.4	459.266	9.98543	208.108	0.124138
10:56:52 AM	984	525549	1401.97	329.522	1.00902	332.182	48.7357	44.0734	996.201	994.416	376.394	1.23706	3.46959	109.897	255.874	1.4965	24.8387	68.1001	479.4	101.8	73.9	79.8013	24.1251	31.4	456.436	10.0151	207.798	0.1064
10:56:53 AM	984	525550	1401.41	329.119	1.00892	332.129	48.725	44.0713	996.195	994.718	380.062	1.19493	3.48334	109.272	256.508	1.4366	24.8072	68.0656	478.937	101.8	73.9	79.8002	24.1659	31.4	453.718	10.0455	207.521	0.1064
10:56:54 AM	984	525551	1401.41	329.243	1.0089	332.086	48.7214	44.0729	996.196	994.718	378.601	1.36883	3.48793	109.39	255.952	1.47112	24.8013	68.0122	478.825	101.8	73.859	79.8	24.1415	31.4	450.971	10.0418	207.344	0.017734
10:56:55 AM	984	525552	1401.34	329.196	1.00889	332.051	48.7266	44.0807	996.199	994.718	382.621	1.38497	3.48716	109.234	257.246	1.47393	24.8002	68.0023	478.805	101.8	73.8109	79.7349	24.1077	31.4	448.18	10.0077	207.332	0.192118
10:56:56 AM	984	525553	1400.93	328.957	1.00889	332.037	48.7239	44.0736	996.204	994.416	380.634	1.1215	3.48411	109.364	256.656	1.48819	24.8	68.0004	478.801	101.721	73.802	79.7065	24.1014	31.3	445.412	10.019	207.424	0.174384
10:56:57 AM	984	525554	1401.03	328.676	1.00888	332.016	48.7205	44.0808	996.207	994.718	381.259	1.44196	3.48869	109.335	256.86	1.48129	24.8	68.0001	478.8	101.704	73.8004	79.7012	24.1003	31.3089	442.57	10.0358	207.543	0.1064
10:56:58 AM	984	525555	1400.76	328.498	1.00888	331.974	48.706	44.0783	996.214	994.718	378.45	1.39849	3.49175	109.607	256.338	1.4904	24.8	68	478.891	101.701	73.8001	79.7002	24.1	31.3016	439.816	10.0523	207.618	0.09754
10:56:59 AM	984	525556	1400.92	328.121	1.00887	331.895	48.6785	44.0677	996.215	994.718	377.053	1.56274	3.49098	109.685	256.645	1.46735	24.8	67.9229	478.435	101.7	73.8	79.7	24.1	31.3003	437.065	10.0067	207.68	0.02069
10:57:00 AM	984	525557	1403.18	328.221	1.00888	331.786	48.6476	44.0834	996.207	994.416	376.819	1.41988	3.4971	109.731	256.06	1.47115	24.8	67.9042	478.407	101.7	73.8	79.7	24.1	31.3001	434.237	10.0189	207.757	0.026601
10:57:01 AM	984	525558	1401.68	327.995	1.00887	331.651	48.6301	44.0609	996.208	994.416	377.741	1.26359	3.49404	109.358	255.914	1.48222	24.8	67.9008	478.401	101.505	73.8	79.7	24.1	31.29	431.457	10.0726	207.866	0.1064
10:57:02 AM	984	525559	1401.66	328.297	1.00887	331.504	48.6131	44.0581	996.21	994.416	378.796	1.1353	3.49862	109.113	255.05	1.45864	24.8	67.9001	478.4	101.419	73.8	79.7	24.1	31.2167	428.725	10.0324	208.017	0.026601
10:57:03 AM	984	525560	1400.63	328.844	1.00888	331.387	48.6097	44.0864	996.207	994.416	375.405	1.30686	3.49328	108.972	255.552	1.48318	24.8	67.9	478.286	101.404	73.8	79.7	24.1	31.2031	425.984	10.0179	208.133	0.1064
10:57:04 AM	984	525561	1401.37	328.576	1.0089	331.329	48.6153	44.0916	996.195	994.718	380.436	1.41732	3.49251	108.886	255.994	1.49099	24.8	67.7435	477.89	101.401	73.8	79.7	24.1	31.2006	423.226	9.99838	208.214	0.144828
10:57:05 AM	984	525562	1401.53	328.389	1.00891	331.335	48.6296	44.0978	996.193	994.718	377.022	1.38025	3.50015	108.97	256.304	1.49468	24.8	67.6266	477.817	101.4	73.95	79.7	24.1	31.2001	420.465	9.97313	208.174	0.1064
10:57:06 AM	984	525563	1401.11	329.056	1.00891	331.358	48.6456	44.0917	996.188	994.718	375.505	1.50896	3.49175	109.26	255.459	1.47581	24.8	67.6049	477.803	101.469	74.0734	79.7771	24.1	31.2	417.642	9.98716	207.974	0.1064
10:58:15 AM	984	525632	1206.75	310.231	1.00921	313.188	39.574	44.0423	996.178	994.416	288.773	0.54531	3.01345	109.206	229.647	1.51607	24.9	62.5219	460.525	100.4	74.0591	80	24.1115	31.4	558.601	8.24498	210.544	0.017734
10:58:16 AM	984	525633	1205.44	310.776	1.00921	313.184	39.5621	44.0475	996.183	994.718	296.299	0.61092	2.99205	108.953	227.454	1.55669	24.9	62.5041	460.505	100.38	74.0109	80	24.1	31.4	556.328	8.25099	210.161	0.1064
10:58:17 AM	984	525634	1206.63	310.173	1.00921	313.171	39.5459	44.0445	996.176	994.416	295.104	0.53084	3.0188	108.834	228.599	1.4997	24.9	62.5008	460.501	100.233	74.002	80	24.1	31.4283	554.113	8.20161	209.933	0.047291
10:58:18 AM	984	525635	1206.17	310.484	1.00922	313.15	39.5467	44.0395	996.168	994.718	291.224	0.71215	3.01268	108.747	229.684	1.4999	24.9	62.5001	460.5	100.206	74.0004	80	24.1	31.5053	551.811	8.16659	209.847	0.1064
10:58:19 AM	984	525636	1206.64	309.883	1.00922	313.12	39.548	44.0496	996.167	994.416	298.038	0.65011	3.0188	108.449	229.577	1.49946	24.9	62.5	460.158	100.201	74.0001	80	24.1	31.5963	549.599	8.15246	209.784	0.1064
10:58:20 AM	984	525637	1206.19	310.321	1.00923	313.098	39.5568	44.0659	996.168	994.718	291.654	0.62966	3.01498	108.405	228.574	1.51741	24.9	62.2618	459.948	100.2	74	80	24.1	31.5993	547.335	8.13679	209.564	0.1064
10:58:21 AM	984	525638	1206.41	310.36	1.00923	313.097	39.5603	44.0502	996.164	994.718	289.645	0.50912	3.01803	107.764	227.374	1.49451	24.9	62.2114	459.909	100.2	73.8412	79.959	24.1	31.5999	545.022	8.18773	209.108	0.1064

10:58:22 AM	984	525639	1206.33	310.58	1.00923	313.133	39.5607	44.0567	996.167	994.416	294.024	0.49326	3.01727	107.8	227.917	1.51668	24.9	62.2021	459.802	100.2	73.8076	79.9109	24.1198	31.6	542.751	8.22507	208.672	0.1064
10:58:23 AM	984	525640	1206.76	310.869	1.00922	313.182	39.5666	44.0468	996.169	994.718	284.747	0.59049	3.02185	107.911	227.127	1.49536	24.9	62.2004	459.9	100.2	73.8014	79.902	24.1037	31.6	540.46	8.22319	208.451	0.133005
10:58:24 AM	984	525641	1207.34	310.844	1.00922	313.241	39.5817	44.0511	996.172	994.416	290.573	0.55137	3.02567	107.296	227.671	1.49623	24.9	62.2001	459.805	100.2	73.8003	79.9004	24.1007	31.6	538.206	8.21992	208.516	0.1064
10:58:25 AM	984	525642	1205.13	311.583	1.00921	313.324	39.6088	44.0239	996.175	994.416	301.736	0.55249	3.00733	107.018	227.617	1.55054	24.9	62.1478	459.475	100.2	73.8	79.9001	24.1001	31.6	535.961	8.20444	208.851	0.1064
10:58:26 AM	984	525643	1206.21	310.645	1.00922	313.442	39.6281	44.0501	996.171	994.718	303.06	0.38932	3.01956	106.789	227.261	1.55932	24.9	62.1089	459.414	100.2	73.8	79.9	24.1	31.6	533.678	8.1812	209.124	0.026601
10:58:27 AM	984	525644	1206.06	310.392	1.00921	313.55	39.6393	44.0144	996.169	994.416	299.982	0.62536	3.02032	106.739	226.759	1.56777	24.9	62.1016	459.403	100.173	73.8	79.7458	24.1	31.6	531.385	8.19471	209.186	0.076847
10:58:28 AM	984	525645	1206.06	310.385	1.00923	313.602	39.6323	44.081	996.168	994.416	293.338	0.46363	3.02338	106.622	226.356	1.53282	24.9	62.1003	459.4	100.114	73.8	79.7085	24.1	31.6	529.16	8.24692	209.112	0.1064
10:58:29 AM	984	525646	1206.12	310.32	1.00923	313.609	39.6123	44.0653	996.168	994.718	290.465	0.38647	3.02567	106.542	226.358	1.44714	24.9	62.1001	459.4	100.103	73.8	79.7016	24.1	31.6	526.835	8.19402	208.998	0.1064
10:58:30 AM	984	525647	1205.89	310.106	1.00923	313.575	39.5892	44.0341	996.162	994.416	286.95	0.46023	3.02796	106.545	225.451	1.59735	24.9	62.08	458.969	100.1	73.8	79.7003	24.1	31.6	524.545	8.22255	208.979	0.153695
10:58:31 AM	984	525648	1206.13	309.655	1.00924	313.48	39.566	44.0681	996.162	994.718	296.117	0.40086	3.02949	106.514	225.303	1.59463	24.9	61.9334	458.831	100.1	73.8	79.7001	24.1	31.6	522.263	8.2433	209.159	0.1064
10:58:32 AM	984	525649	1205.72	309.715	1.00923	313.324	39.5421	44.0443	996.161	994.718	293.599	0.42762	3.0379	106.423	226.131	1.5997	24.9	61.9062	458.806	100.1	73.8	79.7	24.1	31.6	520.007	8.18841	209.388	0.1064
10:58:33 AM	984	525650	1206.13	310.17	1.00923	313.153	39.5251	44.0517	996.161	994.718	294.148	0.49049	3.02949	106.257	225.946	1.57649	24.9	61.9011	458.801	99.4059	73.8	79.7	24.1	31.6	517.746	8.19585	209.56	0.1064
10:58:34 AM	984	525651	1206.83	310.334	1.00922	313.041	39.5159	44.0335	996.162	994.416	297.945	0.36278	3.03637	106.339	226.223	1.5364	24.9	61.9002	458.8	99.2382	73.8	79.7	24.1	31.6865	515.445	8.21392	209.681	0.1064
10:58:35 AM	984	525652	1206.78	310.525	1.00922	312.99	39.5211	44.0284	996.162	994.416	303.487	0.47345	3.03255	106.215	225.556	1.52552	24.9	61.9	458.554	99.2071	73.8	79.7	24.1	31.6975	513.157	8.22376	209.662	0.1064
10:58:36 AM	984	525653	1206.33	310.556	1.00923	312.992	39.5449	44.0505	996.17	994.416	290.337	0.61545	3.03331	106.428	226.189	1.51818	24.9	61.8283	458.266	99.2013	73.8	79.7	24.1	31.6995	510.85	8.22073	209.618	0.1064
10:58:37 AM	984	525654	1206.76	310.335	1.00921	313.041	39.5741	44.0222	996.174	994.416	301.31	0.51811	3.03713	106.439	225.163	1.49417	24.9	61.8052	458.212	99.2002	73.9435	79.7	24.09	31.6999	508.555	8.23499	209.598	0.076847
10:58:38 AM	984	525655	1206.29	310.612	1.00921	313.123	39.5937	44.0329	996.181	994.416	295.894	0.63533	3.03484	105.927	224.533	1.57781	24.9	61.801	458.202	99.3139	73.9895	79.7	24.0167	31.7	506.257	8.22564	209.594	0.1064
10:58:39 AM	984	525656	1205.96	310.369	1.00921	313.23	39.6049	44.0536	996.181	994.416	298.561	0.52863	3.03178	105.505	225.887	1.48949	24.9	61.8002	458.2	99.3841	73.9981	79.7	24.0777	31.7	504.02	8.23446	209.617	0.1064
10:58:40 AM	984	525657	1206.61	309.807	1.00919	313.312	39.6018	44.0244	996.184	994.718	292.341	0.61985	3.04095	105.374	224.556	1.45933	24.9	61.8	458.2	99.397	73.9996	79.7	24.0959	31.7	501.736	8.23963	209.663	0.047291
10:58:41 AM	984	525658	1206.25	310.075	1.0092	313.33	39.5829	44.0335	996.187	994.416	294.353	0.47658	3.03561	105.161	224.437	1.44997	24.9	61.6968	457.803	99.3995	73.9999	79.7	24.0992	31.7	499.493	8.27151	209.745	0.065025
10:58:42 AM	984	525659	1205.6	309.365	1.00918	313.276	39.5517	44.0232	996.198	994.416	298.442	0.3031	3.03866	104.978	225.282	1.59922	24.9	61.5365	457.719	99.3999	74.0468	79.7	24.0999	31.7	497.147	8.26504	209.9	0.1064
10:58:43 AM	984	525660	1206.04	309.459	1.00917	313.156	39.5233	44.0178	996.201	994.718	286.87	0.53923	3.03943	105.106	224.479	1.55101	24.9	61.5068	457.704	99.4	74.0901	79.8372	24.1	31.7	494.941	8.23613	210.173	0.01182
10:58:44 AM	984	525661	1206.7	309.79	1.00918	312.995	39.4963	44.0547	996.199	994.416	298.517	0.43469	3.04095	104.885	224.009	1.61451	24.9	61.5013	457.701	99.4	74.0982	79.8884	24.1	31.7	492.671	8.22608	210.459	0.04138
10:59:35 AM	984	525712	1008.97	277.543	1.00983	280.579	29.6556	44.0275	996.159	994.718	192.166	0.21504	2.49311	102.669	197.718	1.28722	25.1	57.1006	437.701	97.9443	73.4011	79.9062	24.2	31.4	584.279	6.2939	214.872	0.1064

10:59:36 AM	984	525713	1009.1	278.639	1.00984	280.513	29.6656	43.999	996.148	994.718	179.785	0.18688	2.48241	102.741	198.081	1.54723	25.1	57.1001	437.7	97.9082	73.402	79.9011	24.2	31.4	582.529	6.29804	214.605	0.085714
10:59:37 AM	984	525714	1009.88	277.714	1.00984	280.49	29.658	43.9871	996.146	994.416	186.505	0.40406	2.49235	102.249	197.523	1.26095	25.1	56.9772	436.73	97.9015	73.4	79.9002	24.2	31.4	580.773	6.29876	214.385	0.1064
10:59:38 AM	984	525715	1011.28	277.197	1.00984	280.43	29.6628	43.9825	996.147	994.416	180.238	0.43967	2.50382	102.049	197.402	1.51551	25.1	56.8328	436.461	97.9003	73.4344	79.9	24.2	31.4	578.995	6.32954	214.316	0.065025
10:59:39 AM	984	525716	1010.47	278.185	1.00984	280.365	29.6597	43.984	996.143	994.416	197.021	0.3689	2.50153	101.791	197.284	1.32635	25.1	56.8061	436.411	97.9201	73.4878	79.8349	24.21	31.4	577.27	6.32792	214.407	0.056158
10:59:40 AM	984	525717	1008.44	279.617	1.00984	280.372	29.6601	43.9784	996.146	994.416	187.518	0.3638	2.46481	102.303	196.183	1.5116	25.1	56.8011	436.402	98.0667	73.4977	79.8065	24.2833	31.4	575.534	6.30928	214.624	0.1064
10:59:41 AM	984	525718	1011.23	277.904	1.00984	280.452	29.6749	43.9957	996.144	994.416	189.993	0.441	2.50535	101.821	197.522	1.26025	25.1	56.8002	436.4	98.0938	73.4996	79.8012	24.2969	31.4	573.82	6.28521	214.813	0.153695
10:59:42 AM	984	525719	1013.74	278.743	1.00985	280.548	29.7143	44.0029	996.149	994.416	178.045	0.18348	2.48853	102.2	196.431	1.53572	25.1	56.8	435.774	98.0989	73.4999	79.8002	24.2994	31.4	571.988	6.2693	214.825	0.065025
10:59:43 AM	984	525720	1009.08	277.439	1.00984	280.612	29.7254	44.0175	996.15	994.416	171.935	0.34038	2.49923	101.642	196.087	1.27962	25.1	56.5017	435.388	98.0998	73.5	79.8	24.2999	31.4	570.254	6.35767	214.627	0.1064
10:59:44 AM	984	525721	1010.22	276.754	1.00983	280.636	29.7261	43.9846	996.152	994.416	177.491	0.42799	2.5107	101.303	196.31	1.42156	25.1	56.4188	435.316	98.1	73.5	79.7458	24.3	31.4	568.525	6.31916	214.418	0.1064
10:59:45 AM	984	525722	1007.5	277.148	1.00983	280.581	29.6846	43.9884	996.152	994.416	179.513	0.34751	2.50076	101.399	196.197	1.38708	25.1	56.4035	435.303	97.9628	73.5	79.627	24.3	31.4	566.794	6.29386	214.292	0.1064
10:59:46 AM	984	525723	1011.26	276.83	1.00983	280.478	29.6277	43.9858	996.153	994.718	193.156	0.40899	2.50688	100.632	195.639	1.3894	25.1	56.4006	435.301	97.9116	73.5	79.605	24.3	31.6444	565.064	6.30375	214.472	0.038424
10:59:47 AM	984	525724	1010.33	277.328	1.00983	280.315	29.6155	43.9788	996.155	994.416	183.986	0.34239	2.51146	100.63	195.641	1.45947	25.1	56.4001	435.015	97.9022	73.5	79.6009	24.3	31.6897	563.35	6.27147	214.764	0.05911
10:59:48 AM	984	525725	1012.82	278.288	1.00982	280.134	29.6112	43.984	996.161	994.718	189.709	0.59582	2.51375	100.463	195.63	1.32919	25.1	56.2435	434.025	97.9004	73.5	79.6002	24.3	31.6981	561.642	6.26059	214.867	0.1064
10:59:49 AM	984	525726	1012.45	278.008	1.00982	280.03	29.6669	43.9873	996.164	994.416	188.13	0.66487	2.50993	100.491	194.717	1.56526	25.1	56.1266	433.842	97.9001	73.6139	79.6	24.3	31.6996	559.839	6.25857	214.702	0.212808
10:59:50 AM	984	525727	1011.27	278.745	1.00981	280.022	29.7075	43.9791	996.166	994.416	182.554	0.58948	2.49923	100.351	195.293	1.27508	25.1	56.1049	433.808	97.7968	73.684	79.6	24.3	31.6999	558.135	6.24411	214.216	0.1064
10:59:51 AM	984	525728	1011.88	278.339	1.0098	280.125	29.7362	43.9683	996.174	994.416	185.893	0.59839	2.51681	99.8244	194.528	1.55483	25.1	56.1009	433.801	97.6365	73.697	79.6	24.3	31.7	556.316	6.30364	213.577	0.1064
10:59:52 AM	984	525729	1010.97	277.107	1.0098	280.314	29.7347	43.9798	996.176	994.718	176.188	0.37922	2.53209	99.8861	195.511	1.37932	25.1	56.1002	433.8	97.6068	73.6995	79.6	24.3	31.7	554.593	6.32705	213.133	0.04138
10:59:53 AM	984	525730	1012.35	278.792	1.00981	280.515	29.7326	43.9986	996.176	994.416	167.393	0.31478	2.51528	99.3099	194.878	1.21453	25.1	56.1	433.045	97.6012	73.6999	79.6	24.3	31.7	552.85	6.30329	213.049	0.1064
10:59:54 AM	984	525731	1012.56	278.279	1.00981	280.708	29.7411	43.9981	996.177	994.416	183.907	0.58801	2.52751	99.3823	194.261	1.53143	25.1	55.9371	432.764	97.6002	73.719	79.6	24.3	31.7	551.131	6.28411	213.243	0.1064
10:59:55 AM	984	525732	1009.06	278.614	1.0098	280.851	29.7579	43.9948	996.183	994.718	190.66	0.47524	2.50382	99.5615	193.941	1.28442	25.1	55.9069	432.712	97.6	73.785	79.7043	24.3	31.7	549.414	6.28055	213.6	0.144828
10:59:56 AM	984	525733	1009.84	278.424	1.00979	280.907	29.7808	43.9915	996.193	994.416	179.331	0.41719	2.50229	99.4441	193.794	1.50914	25.1	55.9013	432.702	97.6	73.7972	79.7823	24.3	31.7	547.674	6.27989	213.751	0.200985
10:59:57 AM	984	525734	1011.36	278.114	1.00978	280.888	29.7653	43.9864	996.192	994.416	186.901	0.52803	2.52674	99.1246	195.112	1.30775	25.1	55.9002	432.7	97.6	73.7995	79.7967	24.3	31.7	545.874	6.30339	213.651	0.1064
10:59:58 AM	984	525735	1011.64	278.355	1.00978	280.843	29.7432	43.9789	996.193	994.416	179.117	0.64192	2.53056	98.6863	194.075	1.38692	25.1	55.9	432.332	97.6	73.7999	79.7994	24.3	31.7	544.105	6.32816	213.512	0.1064
10:59:59 AM	984	525736	1008.27	277.993	1.00978	280.856	29.7234	43.9775	996.192	994.718	175.439	0.37741	2.52292	98.9578	193.987	1.30594	25.1	55.7046	431.898	97.6	73.8	79.7999	24.3	31.7	542.4	6.31811	213.517	0.1064

11:00:00 AM	984	525737	1011.24	277.623	1.00978	280.865	29.7243	43.9825	996.19	994.718	193.963	0.45089	2.53056	98.5038	194.307	1.45841	25.1	55.6194	431.818	97.6	73.9954	79.81	24.3	31.7	540.669	6.29663	213.751	0.1064
11:00:01 AM	984	525738	1011.55	277.705	1.00978	280.842	29.7245	43.9721	996.187	994.416	189.291	0.55905	2.53744	98.4405	193.726	1.36776	25.1	55.6036	431.803	97.6	74.0806	79.8833	24.3	31.7	538.869	6.28877	214.069	0.1064
11:00:02 AM	984	525739	1013.27	279.123	1.00979	280.758	29.7295	43.9762	996.181	994.718	178.163	0.50356	2.51987	97.9678	192.438	1.48529	25.1	55.6007	431.801	97.6	74.0964	79.8969	24.3	31.7	537.119	6.26595	214.249	0.1064
11:00:03 AM	984	525740	1010.07	278.462	1.00981	280.783	29.7406	43.9935	996.175	994.416	194.608	0.5561	2.52674	98.0197	193.017	1.37	25.1	55.6001	431.8	97.6	74.0993	79.8994	24.3	31.7	535.388	6.27791	214.126	0.1064
11:00:04 AM	984	525741	1010.34	278.933	1.00981	280.874	29.7441	43.986	996.168	994.416	194.419	0.71288	2.52216	97.2625	192.377	1.50107	25.1	55.5591	431.06	97.6	74.0999	79.8999	24.3	31.7	533.625	6.28527	213.843	0.1064
11:00:44 AM	984	525781	1602.13	293.621	1.00894	295.103	49.5696	44.0264	996.148	994.416	368.143	3.12115	4.20079	74.7271	252.487	1.51989	24.8	60.7956	434.294	97.1936	75.5072	80.1313	24.1	31.3	426.659	10.0312	203.408	0.085714
11:00:45 AM	984	525782	1601.7	292.958	1.00894	295.356	49.5995	44.0409	996.153	994.416	360.154	3.05341	4.19927	74.9719	251.198	1.51895	24.8	60.7992	434.299	96.8729	75.5013	80.1873	24.1	31.1775	423.902	10.0584	203.612	0.221675
11:00:46 AM	984	525783	1601.48	292.66	1.00893	295.575	49.6098	44.0243	996.153	994.416	368.216	3.14956	4.19697	74.6218	249.229	1.51294	24.8	60.7998	434.3	96.8135	75.5002	80.1976	24.0656	31.1144	421.082	10.0773	203.858	0.1064
11:00:47 AM	984	525784	1600.58	291.901	1.00892	295.659	49.5995	44.0023	996.156	994.416	365.821	3.08615	4.20614	75.1772	251.21	1.53924	24.8	60.8	434.712	96.8025	75.5	80.1996	24.0122	31.1027	418.272	10.0647	204.086	0.008867
11:00:48 AM	984	525785	1600.17	292.142	1.00893	295.589	49.5569	44.0302	996.153	994.416	364.932	2.91427	4.19545	74.1928	250.975	1.55186	24.8	60.9629	434.865	96.8005	75.5	80.1999	24.0023	31.1005	415.487	10.0562	204.341	0.192118
11:00:49 AM	984	525786	1599.72	292.143	1.00893	295.471	49.4898	44.0401	996.156	994.416	363.709	2.9666	4.20003	74.3625	251.04	1.54181	24.8	60.9931	434.894	96.8001	75.5	80.2	24.0004	31.1001	412.677	10.0457	204.628	0.106404
11:00:50 AM	984	525787	1600.34	292.116	1.00894	295.329	49.4291	44.0499	996.158	994.416	362.871	2.99353	4.1985	74.2423	250.776	1.50527	24.8	60.9987	434.899	96.3373	75.5	80.2	24.0001	31.1001	409.943	10.0533	204.872	0.008867
11:00:51 AM	984	525788	1600.45	292.645	1.00893	295.145	49.3954	44.0306	996.155	994.416	366.224	3.09651	4.1985	74.4498	251.259	1.55064	24.8	60.9998	434.9	96.2254	75.5	80.2	24	31.1	407.156	10.0862	205.112	0.076847
11:00:52 AM	984	525789	1600.1	293.174	1.00893	295	49.3993	44.0242	996.151	994.416	365.266	3.00727	4.20003	74.3162	251.16	1.51488	24.8	61	434.9	96.2047	75.5	80.2	24	31.1	404.412	10.0277	205.279	0.1064
11:00:53 AM	984	525790	1600.03	293.071	1.00895	294.972	49.4364	44.0674	996.144	994.416	369.29	2.90002	4.19697	74.6136	251.941	1.51212	24.8	61.1954	434.9	96.2009	75.5	80.2	24	31.1	401.619	10.0228	205.303	0.008867
11:00:54 AM	984	525791	1600.83	292.959	1.00894	295.059	49.4854	44.0484	996.147	994.416	365.163	2.88445	4.19927	75.0552	252.028	1.5147	24.8	61.2806	434.9	96.2002	75.2847	80.19	24	31.1	398.79	10.0552	205.224	0.085714
11:00:55 AM	984	525792	1601.45	293.909	1.00895	295.208	49.5382	44.0336	996.144	994.416	368.779	2.84522	4.19621	74.9101	251.782	1.47968	24.8	61.2964	434.9	96.4087	75.2157	80.1167	24	31.1	395.981	10.0631	205.03	0.1064
11:00:56 AM	984	525793	1601.14	293.907	1.00896	295.415	49.5867	44.0689	996.144	994.416	373.137	2.91824	4.19545	75.2805	250.95	1.50085	24.8	61.2993	434.9	96.5646	75.2029	80.1031	24	31.1	393.156	10.0592	204.786	0.085714
11:00:57 AM	984	525794	1600.4	293.57	1.00895	295.685	49.6268	44.0478	996.143	994.416	374.922	3.08255	4.19697	75.9829	252.083	1.53326	24.8	61.2999	434.9	96.5934	75.2005	80.1006	24	31.1	390.385	10.0418	204.609	0.085714
11:00:58 AM	984	525795	1600.43	293.752	1.00894	295.934	49.6574	44.0145	996.139	994.416	365.875	2.90522	4.19545	76.3012	251.377	1.54135	24.8	61.3409	435.615	96.5988	75.2001	80.1001	24	31.1	387.589	10.0569	204.464	0.1064
11:00:59 AM	984	525796	1600.4	294.33	1.00896	296.114	49.681	44.0447	996.132	994.416	374.355	3.0134	4.19315	76.5659	251.193	1.51298	24.8	61.3891	435.766	96.5998	75.241	80.1	24	31.1	384.73	10.0783	204.369	0.076847
11:01:00 AM	984	525797	1600.6	294.61	1.00897	296.263	49.6999	44.0693	996.129	994.416	371.79	3.00705	4.19315	75.9989	251.276	1.52726	24.8	61.398	435.794	96.6	75.2891	79.9697	24	31.1	381.986	10.085	204.314	0.02069
11:01:01 AM	984	525798	1600.91	294.917	1.00897	296.459	49.722	44.0696	996.13	994.416	372.933	3.02243	4.19774	76.1815	250.35	1.5419	24.8	61.3996	435.799	96.6	75.298	79.9129	24.0651	31.2043	379.199	10.0862	204.292	0.1064
11:01:02 AM	984	525799	1600.53	294.543	1.00897	296.66	49.7587	44.0367	996.125	994.416	375.293	3.07156	4.19468	76.4818	251.245	1.50542	24.8	61.3999	435.8	96.6	75.2996	79.9024	24.0935	31.2823	376.365	10.0865	204.32	0.1064
11:01:03 AM	984	525800	1600.35	294.055	1.00898	296.816	49.7929	44.0404	996.121	994.416	364.97	2.84841	4.19774	76.3597	251.435	1.5291	24.8	61.4	436.29	96.6	75.2999	79.9004	24.0644	31.2967	373.617	10.0988	204.364	0.017734
11:01:04 AM	984	525801	1600.85	293.871	1.00898	296.903	49.8058	44.0559	996.121	994.416	368.2	2.87079	4.19927	77.0045	251.096	1.53697	24.8	61.5588	436.543	96.6	75.3	79.9001	24.0119	31.2994	370.801	10.1064	204.403	0.065025

11:01:05 AM	984	525802	1600.41	293.696	1.00898	296.945	49.7907	44.0659	996.121	994.416	369.017	2.86322	4.19697	76.5213	251.697	1.50511	24.8	61.5924	436.589	96.6	75.4542	79.9937	24.0837	31.2999	367.962	10.0965	204.446	0.1064
11:01:06 AM	984	525803	1600.9	293.666	1.00898	296.94	49.7583	44.0516	996.12	994.416	367.666	3.04758	4.19697	76.1634	252.503	1.50653	24.8	61.5986	436.598	96.3395	75.4915	80.0803	24.097	31.3	365.156	10.0921	204.516	0.085714
11:01:07 AM	984	525804	1600.52	293.171	1.00899	296.87	49.7212	44.0786	996.121	994.416	367.723	3.10652	4.20003	76.2297	251.75	1.51135	24.8	61.5997	436.6	96.2258	75.4984	80.0964	24.0994	31.3	362.427	10.0905	204.639	0.1064
11:01:08 AM	984	525805	1600.32	292.79	1.00899	296.708	49.684	44.0826	996.12	994.416	374.64	3.07381	4.19774	77.0174	252.211	1.53364	24.8	61.6	436.62	96.2048	75.4997	80.0993	24.0999	31.3	359.672	10.0784	204.779	0
11:01:09 AM	984	525806	1600.49	292.97	1.00899	296.476	49.6436	44.059	996.116	994.416	373.185	3.0893	4.19697	76.7657	250.92	1.50407	24.8	61.6612	436.767	96.2009	75.4999	80.0999	24.1	31.3	356.886	10.0674	204.88	0.1064
11:01:10 AM	984	525807	1600.15	293.088	1.00899	296.228	49.5986	44.0648	996.116	994.416	369.985	2.98889	4.19621	76.0506	251.69	1.54279	24.8	61.6928	436.794	96.2002	75.5	80.1	24.1	31.3	354.054	10.0849	204.956	0.209985
11:01:11 AM	984	525808	1600.37	293.23	1.009	296.046	49.5667	44.0876	996.116	994.416	369.752	2.85881	4.19621	76.4375	251.938	1.49988	24.8	61.6987	436.799	96.4064	75.5	80.1	24.1	31.3	351.219	10.1137	205.032	0.09754
11:01:12 AM	984	525809	1600.69	293.052	1.009	295.921	49.553	44.0725	996.116	994.416	367.573	2.88768	4.19315	76.4906	252.994	1.49759	24.8	61.6998	436.8	96.7271	75.5	80.1	24.1	31.1	348.468	10.0915	205.134	0.1064
11:01:13 AM	984	525810	1600.59	293.139	1.00899	295.812	49.5567	44.0775	996.115	994.416	365.942	2.87411	4.19315	76.738	252.545	1.49997	24.8	61.7	436.8	96.7865	75.5	80.1	24.1	31.1	345.638	10.08205	205.265	0.209985
11:02:05 AM	984	525862	1600.54	281.706	1.00897	283.457	47.5145	44.077	996.135	994.416	344.247	2.81333	4.19927	78.5376	254.776	1.52994	24.8	61.7	430.893	96.6998	75.4	80.1001	24.2988	31.1007	203.05	9.62794	205.386	0.124138
11:02:06 AM	984	525863	1600.39	281.947	1.00897	283.605	47.5592	44.0799	996.14	994.416	348.95	2.91949	4.19545	78.873	254.593	1.5125	24.8	61.7	430.817	96.7	75.4	80.1	24.2998	31.1001	200.573	9.61829	204.829	0.0798
11:02:07 AM	984	525864	1600.46	282.035	1.00898	283.788	47.6083	44.0957	996.134	994.416	348.499	2.95309	4.19315	78.4813	254.254	1.50546	24.8	61.7	430.803	96.7344	75.4	80.1	24.3	31.1	197.904	9.63142	204.354	0.1064
11:02:08 AM	984	525865	1598.89	282.248	1.00896	283.958	47.6412	44.06	996.138	994.416	354.452	2.85207	4.19239	78.9498	253.838	1.5099	24.8	61.7	430.801	96.7878	75.4	80.1	24.3	31.1	195.221	9.63801	204.04	0.115271
11:02:09 AM	984	525866	1600.44	281.478	1.00897	284.123	47.6575	44.092	996.138	994.416	352.765	2.96479	4.1985	78.5429	253.229	1.525	24.8	61.7	430.8	96.7977	75.4	80.1	24.3	31.1	192.513	9.66892	203.907	0.1064
11:02:10 AM	984	525867	1599.89	281.375	1.00898	284.263	47.6554	44.0954	996.137	994.416	350.049	2.84658	4.19697	78.3742	255.123	1.53286	24.8	61.7	430.663	96.7996	75.4	80.1	24.3	31.1	189.847	9.66695	203.914	0.008867
11:02:11 AM	984	525868	1600.45	281.607	1.00896	284.312	47.6399	44.0743	996.137	994.416	356.929	2.89237	4.19927	78.6365	255.238	1.52268	24.8	61.6185	430.612	96.7999	75.4	80.1	24.3	31.1	187.172	9.67547	204.077	0.05911
11:02:12 AM	984	525869	1601.18	282.39	1.00898	284.297	47.6323	44.0881	996.131	994.416	349.194	2.89376	4.20385	79.1272	254.506	1.52342	24.8	61.6034	430.602	96.8	75.4	80.1	24.3	31.1	184.5	9.69784	204.306	0.02069
11:02:13 AM	984	525870	1600.81	282.734	1.00898	284.312	47.6398	44.0937	996.131	994.416	344.988	2.77262	4.20309	79.2495	254.873	1.5232	24.8	61.6006	430.6	96.6508	75.4	80.1	24.3	31.1	181.81	9.68442	204.592	0.1064
11:02:14 AM	984	525871	1600.75	283.115	1.00898	284.419	47.6806	44.08	996.13	994.19	347.466	2.73812	4.19927	79.024	256.263	1.5297	24.8	61.6001	430.6	96.6094	75.4	80.1	24.3	31.2	179.097	9.70828	204.805	0.1064
11:02:15 AM	984	525872	1601.51	283.212	1.00897	284.585	47.7493	44.0732	996.134	994.19	351.593	2.93832	4.20079	78.7313	254.971	1.48036	24.8	61.6	430.669	96.6017	75.4	80.1	24.3	31.2	176.487	9.69483	204.926	0.008867
11:02:16 AM	984	525873	1601.19	283.592	1.00897	284.801	47.8196	44.0821	996.134	994.416	352.739	2.87361	4.19697	78.8947	254.856	1.50628	24.8	61.6651	430.776	96.6003	75.4	80.1	24.3	31.2	173.76	9.70196	204.908	0.1064
11:02:17 AM	984	525874	1601.06	283.515	1.00897	285.066	47.8846	44.0795	996.139	994.416	348.394	2.91812	4.19239	79.2594	255.487	1.517	24.8	61.6935	430.796	96.6001	75.2628	80.1	24.3	31.2	171.065	9.71738	204.762	0.1064
11:02:18 AM	984	525875	1600.78	282.797	1.00897	285.382	47.9187	44.089	996.138	994.416	343.182	2.88648	4.19621	78.7863	255.78	1.4932	24.8	61.6988	430.799	96.6	75.2116	80.0185	24.3	31.3	168.391	9.70184	204.617	0.133005
11:02:19 AM	984	525876	1600.69	282.221	1.00897	285.599	47.9188	44.0821	996.14	994.416	354.341	2.88757	4.1985	77.7722	255.253	1.53294	24.8	61.6998	430.8	96.6	75.2022	80.0034	24.3	31.3	165.701	9.69962	204.453	0.06798
11:02:20 AM	984	525877	1600.03	282.236	1.00897	285.646	47.8886	44.0961	996.14	994.19	354.382	2.88961	4.19468	78.5231	255.194	1.54276	24.8	61.7	430.8	96.6	75.2004	80.0006	24.3	31.3	162.965	9.70939	204.4	0
11:02:21 AM	984	525878	1600.35	281.958	1.00896	285.549	47.829	44.0921	996.143	994.416	345.342	2.70736	4.20003	77.9475	256.663	1.51494	24.8	61.6729	430.8	96.6	75.2001	80.0001	24.3	31.3	160.328	9.70687	204.453	0.10

11:02:22 AM	984	525879	1600.57	281.786	1.00895	285.382	47.7654	44.0601	996.143	994.416	357.186	2.94421	4.1985	77.9208	253.751	1.52826	24.8	61.6135	430.8	96.6	75.2	80	24.3349	31.3	157.637	9.67909	204.567	0.1064
11:02:23 AM	984	525880	1599.85	281.11	1.00896	285.15	47.7104	44.092	996.148	994.416	351.053	2.78506	4.1985	78.5311	254.553	1.52144	24.8	61.6025	430.8	96.6	75.2	80	24.3879	31.3	154.925	9.70476	204.755	0.01182
11:02:24 AM	984	525881	1600.09	281.182	1.00895	284.86	47.668	44.0742	996.15	994.416	354.317	2.96718	4.19468	78.3985	254.997	1.52383	24.8	61.6005	430.8	96.4412	75.2	80	24.3978	31.3	152.244	9.74558	204.955	0.144828
11:02:25 AM	984	525882	1600.77	281.175	1.00895	284.535	47.6257	44.0736	996.15	994.416	342.92	2.85159	4.20156	78.652	253.882	1.50388	24.8	61.6001	430.8	96.4076	75.2	80	24.3996	31.3	149.554	9.70162	205.195	0.1064
11:02:26 AM	984	525883	1601.31	281.11	1.00896	284.261	47.5851	44.0945	996.151	994.416	350.429	2.87213	4.20079	78.986	255.495	1.49969	24.8	61.6	430.458	96.4014	75.2	80	24.3999	31.3	146.927	9.72649	205.461	0.01182
11:02:27 AM	984	525884	1600.81	281.59	1.00895	284.076	47.5643	44.0779	996.152	994.19	353.665	3.04648	4.20156	79.4431	254.073	1.50832	24.8	61.6	430.248	96.4003	75.2	80	24.4	31.3	144.294	9.67473	205.728	0.056158
11:02:28 AM	984	525885	1599.68	281.573	1.00894	283.963	47.5598	44.0493	996.151	994.416	347.95	2.87663	4.19545	79.6106	254.93	1.51406	24.8	61.6	430.209	96.4	75.2	80	24.4	31.3	141.621	9.64648	205.871	0.1064
11:02:29 AM	984	525886	1600.54	281.785	1.00895	283.89	47.5729	44.0747	996.151	994.416	343.248	2.94975	4.20003	79.5009	253.938	1.52026	24.8	61.6	430.202	96.5838	75.2	80	24.4	31.3	138.907	9.67307	205.822	0.065025
11:02:30 AM	984	525887	1600.53	282.098	1.00894	283.881	47.5943	44.0452	996.149	994.416	347.646	2.85721	4.19927	79.3043	254.915	1.5167	24.8	61.6	430.2	96.6785	75.2	80	24.4	31.3	136.227	9.63258	205.591	0.1064
11:02:31 AM	984	525888	1600.86	281.794	1.00893	283.964	47.6174	44.0151	996.147	994.416	349.959	2.85293	4.20767	79.2656	255.258	1.55402	24.8	61.6	430.2	96.696	75.2	80	24.4	31.3	133.484	9.63673	205.214	0.017734
11:02:32 AM	984	525889	1600.45	282.6	1.00895	284.136	47.6574	44.0636	996.143	994.416	353.797	2.96631	4.19697	78.8386	256.237	1.51488	24.8	61.6	430.2	96.6993	75.2	80	24.4	31.3	130.834	9.65384	204.824	0.1064
11:02:33 AM	984	525890	1600.87	282.789	1.00896	284.33	47.6977	44.0557	996.135	994.416	357.478	2.8927	4.19927	77.5384	256.71	1.54811	24.8	61.6	430.2	96.6999	75.2	80	24.4	31.3	128.074	9.64494	204.491	0.1064
11:02:34 AM	984	525891	1600.17	282.881	1.00897	284.536	47.7417	44.0748	996.137	994.416	353.289	2.83414	4.19545	78.6184	254.435	1.50914	24.8	61.6	430.2	96.8084	75.2	80	24.4	31.3	125.411	9.65536	204.2	0.124138
11:03:21 AM	984	525938	2011.89	269.518	1.00894	272.014	57.2941	44.018	996.138	994.416	461.309	8.87754	4.74251	59.0768	313.208	1.53086	24.8	66.8314	433.038	96.8	76	80	24.4	31.2	495.827	11.8827	210.371	0.10911
11:03:22 AM	984	525939	2011.63	268.977	1.00894	271.949	57.2624	44.0115	996.14	994.19	459	8.61244	4.74328	59.6128	311.584	1.49896	24.8	66.8873	433.089	96.8	75.8457	80	24.4	31.2	492.578	11.8593	209.229	0.1064
11:03:23 AM	984	525940	2012.22	269.226	1.00893	271.835	57.2448	43.9935	996.141	994.416	466.252	8.59668	4.74098	59.334	313.362	1.50286	24.8	66.8976	433.098	97.1257	75.8085	80	24.4	31.2	489.31	11.8242	208.726	0.05911
11:03:24 AM	984	525941	2012.18	270.205	1.00893	271.724	57.2433	43.9845	996.141	994.19	463.278	8.65086	4.73564	59.8089	313.733	1.50544	24.8	66.8996	433.1	97.2677	75.8016	80	24.4	31.2	486.023	11.8288	208.617	0.047291
11:03:25 AM	984	525942	2012.41	269.552	1.00893	271.699	57.2584	43.9866	996.141	994.19	462.294	8.6711	4.7364	60.4206	313.763	1.5139	24.8	66.8999	433.29	97.294	75.8003	80	24.4	31.2	482.762	11.8232	208.727	0.1064
11:03:26 AM	984	525943	2012.03	268.956	1.00893	271.734	57.2802	43.9878	996.142	994.416	463.024	8.69356	4.74022	61.4917	313.047	1.49166	24.8	67.0708	433.705	97.2989	75.8001	80	24.4	31.2	479.447	11.8257	208.756	0.056158
11:03:27 AM	984	525944	2012.32	268.767	1.00892	271.745	57.286	43.9791	996.143	994.416	462.868	8.8787	4.74328	61.7266	313.679	1.50382	24.8	67.1761	433.782	97.2998	75.9139	80	24.4	31.2	476.256	11.8226	208.601	0.008867
11:03:28 AM	984	525945	2012.67	269.066	1.00892	271.681	57.2649	43.9834	996.143	994.19	465.156	8.8832	4.74251	61.475	313.409	1.49066	24.8	67.1956	433.797	97.4031	75.984	80	24.4	31.2	472.96	11.8019	208.429	0.1064
11:03:29 AM	984	525946	2012.4	269.48	1.00892	271.621	57.2288	43.9783	996.144	994.19	463.935	8.99221	4.73793	62.248	313.047	1.50116	24.8	67.1992	433.799	97.5635	75.997	80	24.4	31.2	469.725	11.798	208.308	0.1064
11:03:30 AM	984	525947	2012.31	270.573	1.00894	271.63	57.2139	44.0096	996.139	994.416	462.477	9.13583	4.73029	61.7217	314.133	1.47745	24.8	67.1998	433.8	97.5932	75.9995	80	24.4	31.2	466.383	11.8174	208.281	0.1064
11:03:31 AM	984	525948	2012.35	270.424	1.00893	271.709	57.2477	43.9832	996.141	994.416	463.686	9.12633	4.73182	62.0815	315.817	1.47739	24.8	67.219	434.212	97.5987	75.9999	80	24.4	31.2	463.066	11.8346	208.262	0.017734
11:03:32 AM	984	525949	2012.47	270.614	1.00893	271.816	57.3307	43.9894	996.141	994.19	464.417	9.04214	4.73411	62.2004	314.192	1.52384	24.8	67.285	434.365	97.5998	76	80	24.5	31.2	459.766	11.8436	208.192	0.10

11:03:33 AM	984	525950	2012.62	271.006	1.00893	272	57.4248	43.9794	996.141	994.416	464.924	8.9511	4.73334	62.0878	315.091	1.52674	24.8	67.2972	434.394	97.6	76	80	24.5	31.2	456.476	11.852	208.098	0.124138
11:03:34 AM	984	525951	2012.47	271.88	1.00893	272.301	57.512	43.9776	996.135	994.19	460.862	8.81639	4.73411	62.5996	317.246	1.50841	24.8	67.2995	434.399	97.6	76	80	24.5	31.2	453.331	11.8226	207.967	0.056158
11:03:35 AM	984	525952	2011.82	271.577	1.00894	272.702	57.5849	43.9826	996.131	994.19	470.445	8.8454	4.73029	62.7689	316.228	1.50295	24.8	67.2999	434.4	97.6	76	80	24.5	31.2	449.893	11.8532	207.809	0.1064
11:03:36 AM	984	525953	2012.61	269.828	1.00894	273.07	57.6356	43.9863	996.133	994.416	459.64	9.04134	4.73334	63.1477	316.098	1.49834	24.8	67.3	434.809	97.6	76	80	24.5	31.2	446.636	11.9161	207.665	0.076847
11:03:37 AM	984	525954	2012.42	269.091	1.00894	273.23	57.6353	43.9869	996.134	994.19	464.813	9.06364	4.73716	63.8383	316.899	1.49902	24.8	67.5153	435.291	97.6	76	80	24.5	31.2	443.37	11.8663	207.59	0.153695
11:03:38 AM	984	525955	2012.93	269.282	1.00893	273.148	57.5611	43.979	996.138	994.416	466.11	8.92278	4.73564	63.3431	316.473	1.49767	24.8	67.5843	435.38	97.6	76	80.01	24.5	31.2	440.131	11.8984	207.649	0.065025
11:03:39 AM	984	525956	2013	270.802	1.00893	272.978	57.4596	43.9834	996.137	994.19	464.665	8.97854	4.72952	63.3574	316.982	1.48587	24.8	67.5971	435.396	97.6	76	80.0833	24.5	31.2	436.835	11.9191	207.924	0.1064
11:03:40 AM	984	525957	2012.17	270.915	1.00893	272.843	57.3851	43.9783	996.137	994.19	464.187	8.99322	4.72799	64.0172	318.19	1.48034	24.8	67.5995	435.399	97.6	76	80.0969	24.5	31.2	433.522	11.8917	208.343	0.1064
11:03:41 AM	984	525958	2012.1	270.787	1.00893	272.736	57.3881	43.9774	996.137	994.19	469.943	8.90951	4.72952	64.1568	318.591	1.48426	24.8	67.5999	435.4	97.6	76	80.0994	24.5	31.2	430.302	11.8836	208.746	0.026601
11:03:42 AM	984	525959	2011.76	271.427	1.00894	272.631	57.4515	44.0146	996.14	994.416	462.184	9.06289	4.72647	64.2789	320.33	1.52861	24.8	67.6688	435.708	97.6	76	80.0999	24.5	31.2	426.982	11.8673	208.992	0.1064
11:03:43 AM	984	525960	2011.55	270.759	1.00893	272.623	57.5269	43.9841	996.14	994.416	462.704	8.95728	4.72723	64.5594	318.601	1.49319	24.8	67.7757	435.783	97.6	76	80.1	24.6	31.2	423.651	11.8961	208.969	0.1064
11:03:44 AM	984	525961	2012.81	269.624	1.00893	272.759	57.5678	43.9838	996.139	994.19	467.61	8.71049	4.73564	64.8543	318.214	1.47433	24.8	67.7955	435.797	97.6	76	80.1686	24.6	31.2	420.413	11.9344	208.769	0.065025
11:03:45 AM	984	525962	2012.38	270.026	1.00892	272.915	57.5549	43.9784	996.146	994.19	456.268	8.64544	4.72952	65.3339	318.532	1.48714	24.8	67.7992	435.799	97.6	76	80.1942	24.6	31.2	417.139	11.9326	208.599	0.1064
11:03:46 AM	984	525963	2012.63	270.422	1.00893	272.986	57.5197	44.0037	996.147	994.416	465.449	8.74942	4.73029	65.6311	317.877	1.49897	24.8	67.7998	435.8	97.6	76	80.1989	24.6	31.2	413.849	11.8734	208.571	0.1064
11:03:47 AM	984	525964	2013.43	270.482	1.00892	272.976	57.4882	43.9821	996.146	994.416	460.904	8.76179	4.73182	65.4936	318.066	1.49232	24.8	67.8	435.984	97.6	76	80.1998	24.6	31.2	410.553	11.8826	208.688	0.133005
11:03:48 AM	984	525965	2013.57	271.249	1.00892	272.955	57.4838	43.9781	996.142	994.416	464.199	8.76023	4.73564	65.5278	318.272	1.45845	24.8	67.8771	436.078	97.6	76	80.2	24.6	31.2	407.332	11.864	208.84	0.1064
11:03:49 AM	984	525966	2012.19	271.526	1.00891	272.982	57.5265	43.9773	996.148	994.416	465.779	8.78243	4.72417	65.621	318.571	1.48599	24.8	67.8958	436.096	97.6	75.8412	80.2	24.6	31.2	404.039	11.8644	208.817	0.008867
11:03:50 AM	984	525967	2012.04	270.453	1.00892	273.041	57.5837	43.9772	996.144	994.416	466.374	8.93039	4.72341	65.9316	319.192	1.46802	24.8	67.8992	436.099	97.6	75.8076	80.2	24.6	31.2	400.748	11.8637	208.606	0.08867
11:04:31 AM	984	526008	2404.4	169.946	1.00923	171.559	43.2653	43.9738	996.135	994.416	463.818	3.35895	5.11996	37.5628	387.896	1.49338	24.8969	69.0237	385.892	98.1991	76.3	79.7	24.8	31.3	290.31	10.1687	233.65	0.1064
11:04:32 AM	984	526009	2406.47	171.003	1.00923	171.718	43.3159	43.9766	996.135	994.416	470.804	3.2579	5.13906	37.2039	388.533	1.48648	24.8994	69.0859	385.98	98.1998	76.3	79.7	24.8	31.3	287.497	10.2015	235.307	0.008867
11:04:33 AM	984	526010	2403.03	170.464	1.00923	171.852	43.3551	43.9771	996.14	994.416	460.003	3.05424	5.13142	37.1167	385.028	1.47987	24.8999	69.0974	385.996	98.2	76.3	79.7	24.8	31.4	284.686	10.2253	236.408	0.1064
11:04:34 AM	984	526011	2403.2	168.598	1.00924	171.975	43.3462	43.9771	996.134	994.416	463.751	3.43987	5.14288	37.4515	387.638	1.48038	24.9	69.0995	385.999	98.2	76.4838	79.7	24.8	31.4	281.897	10.2297	236.999	0.1064
11:04:35 AM	984	526012	2407.16	168.708	1.00924	171.984	43.2914	43.9772	996.135	994.416	461.491	3.1405	5.13753	37.6398	387.738	1.49786	24.9	69.0999	386	98.528	76.5785	79.7815	24.8	31.4	279.07	10.2204	237.342	0.115271
11:04:36 AM	984	526013	2405.33	170.127	1.00924	171.832	43.2042	43.9712	996.131	994.416	463.839	3.29403	5.14212	37.7991	388.813	1.48822	24.9	69.1	386	98.8311	76.596	79.7966	24.8	31.5	276.239	10.2082	237.763	0.1064
11:04:37 AM	984	526014	2405.55	170.531	1.00909	171.632	43.1279	43.9587	996.13	994.416	464.343	3.52864	5.12072	38.0181	386.573	1.50159	24.8478	69.1	386	98.8872	76.5993	79.7994	24.8	31.5	273.355	10.213	238.245	0.076847

11:04:38 AM	984	526015	2407.14	169.726	1.00896	171.554	43.1152	43.9737	996.131	994.416	464.815	3.83908	5.12683	38.0413	386.435	1.50038	24.8089	69.2376	385.846	98.8976	76.5999	79.7999	24.819	31.5978	270.554	10.2101	238.691	0.1064
11:04:39 AM	984	526016	2406.27	169.471	1.00894	171.457	43.1451	43.9612	996.131	994.416	458.812	3.32553	5.12301	38.8533	390.906	1.48037	24.8016	69.4514	385.808	98.8996	76.5187	79.8	24.885	31.5996	267.337	10.1916	238.911	0.026601
11:04:40 AM	984	526017	2407.38	171.858	1.00894	171.353	43.2098	43.9742	996.131	994.416	461.616	3.52273	5.12149	39.0675	390.114	1.47387	24.8003	69.491	385.802	98.8999	76.3405	79.8	24.8201	31.5999	264.924	10.1957	238.856	0.1064
11:04:41 AM	984	526018	2404.81	172.716	1.00893	171.423	43.287	43.96	996.139	994.416	469.428	3.4529	5.13218	39.0056	388.833	1.48877	24.8001	69.4983	385.8	98.8206	76.3075	79.8	24.8755	31.5063	262.018	10.1698	238.561	0.094581
11:04:42 AM	984	526019	2404.69	171.919	1.00891	171.821	43.3911	43.9433	996.141	994.416	471.22	3.31519	5.13218	39.1776	388.863	1.48796	24.8	69.4997	385.8	98.8038	76.3014	79.8	24.8955	31.4197	259.174	10.1959	238.083	0.05911
11:04:43 AM	984	526020	2404.87	172.446	1.00916	172.29	43.5498	43.9626	996.142	994.416	469.403	3.43591	5.12607	38.9528	390.742	1.48297	24.8815	69.4999	385.852	98.8007	76.3003	79.8	24.8992	31.4036	256.351	10.2008	237.449	0.1064
11:04:44 AM	984	526021	2405.75	173.313	1.00921	172.677	43.6959	43.9539	996.142	994.416	472.312	3.39175	5.12225	39.6789	391.17	1.49813	24.8966	69.5746	385.891	98.8001	76.3	79.8	24.8998	31.4007	253.441	10.184	236.72	0.076847
11:04:45 AM	984	526022	2402.16	172.045	1.00921	173.084	43.7965	43.9342	996.142	994.416	464.212	3.11151	5.1169	39.7107	390.343	1.48245	24.8994	69.5953	385.898	98.8	76.4492	79.8	24.9	31.4001	250.599	10.1986	235.976	0.1064
11:04:46 AM	984	526023	2405.36	170.646	1.00923	173.476	43.8106	43.9692	996.139	994.416	460.581	3.48165	5.12301	39.1916	390.893	1.47511	24.8999	69.5991	385.9	98.6775	76.4906	79.8	24.9	31.4	247.782	10.2179	235.437	0.1064
11:04:47 AM	984	526024	2408.18	171.947	1.00923	173.693	43.7671	43.9668	996.141	994.718	462.525	3.57587	5.12225	39.0049	392.79	1.4908	24.9	69.5998	385.9	98.6144	76.4983	79.8	24.9	31.4	244.933	10.2447	235.133	0.1064
11:04:48 AM	984	526025	2403.61	172.591	1.00921	173.707	43.707	43.946	996.146	994.416	466.2	3.25001	5.11308	40.1855	390.729	1.47967	24.9	69.6	385.9	98.6027	76.4997	79.8	24.9	31.4	242.149	10.212	235.194	0.1064
11:04:49 AM	984	526026	2403.07	171.8	1.00921	173.67	43.666	43.9405	996.152	994.416	469.749	3.46455	5.11155	39.6192	392.327	1.47168	24.9	69.6469	385.9	98.6005	76.4999	79.8	24.9	31.4	239.267	10.2410	235.516	0.05911
11:04:50 AM	984	526027	2403.24	172.065	1.0092	173.628	43.6521	43.9164	996.151	994.416	463.468	3.29766	5.10697	39.7249	391.728	1.46567	24.9	69.6902	385.9	98.6001	76.5	79.8	24.9	31.4	236.409	10.2035	235.902	0.1064
11:04:51 AM	984	526028	2400.65	171.905	1.00921	173.541	43.6629	43.9513	996.153	994.416	465.92	3.18903	5.11996	39.8774	390.112	1.47186	24.9	69.6982	385.9	98.8168	76.5	79.8	24.9	31.4	233.562	10.237	236.189	0.02069
11:04:52 AM	984	526029	2403.93	172.054	1.00921	173.459	43.6813	43.9472	996.153	994.19	469.574	3.18838	5.11919	40.0431	391.894	1.48651	24.9	69.6997	385.9	99.2919	76.5	79.8	24.9	31.4	230.724	10.2347	236.312	0.1064
11:04:53 AM	984	526030	2402.99	171.301	1.0092	173.479	43.6827	43.9384	996.149	994.416	468.051	3.08499	5.12149	40.2406	392.032	1.48413	24.9	69.6999	385.9	99.38	76.5	79.8	24.9	31.4	227.898	10.2166	236.323	0.1064
11:04:54 AM	984	526031	2404.14	170.762	1.00921	173.493	43.6591	43.9545	996.147	994.416	465.788	3.28659	5.12072	40.5347	390.427	1.46891	24.9	69.7	385.488	99.3963	76.5	79.8	24.9	31.4	225.086	10.2237	236.286	0.01182
11:04:55 AM	984	526032	2406.44	172.637	1.00922	173.408	43.6314	43.9534	996.144	994.416	464.043	3.44447	5.12454	40.6404	390.098	1.49177	24.9	69.8629	385.335	99.3993	76.5	79.8	24.9	31.4	222.197	10.2427	236.348	0.20985
11:04:56 AM	984	526033	2404.36	173.855	1.0092	173.366	43.6316	43.9076	996.142	994.416	469.052	3.05048	5.1169	40.6451	393.151	1.46423	24.9	69.8931	385.306	99.3999	76.5	79.8	24.9	31.4	219.319	10.2382	236.439	0.1064
11:04:57 AM	984	526034	2406.2	174.259	1.0092	173.52	43.698	43.9145	996.141	994.416	472.155	3.31913	5.12378	41.1617	392.671	1.45929	24.9	69.8987	385.301	99.5435	76.5	79.8	24.9	31.3458	216.482	10.2434	236.493	0.017734
11:04:58 AM	984	526035	2404.03	175.021	1.00921	173.833	43.8599	43.9343	996.14	994.416	475.373	3.01991	5.11843	40.9878	394.495	1.4797	24.9	69.8998	385.3	99.5895	76.5	79.8	24.9	31.227	213.534	10.2642	236.393	0.1064
11:04:59 AM	984	526036	2405.18	174.869	1.00921	174.229	44.0688	43.904	996.138	994.416	469.064	3.36794	5.11384	42.8645	394.42	1.47401	24.9	69.9	385.506	99.5981	76.5	79.8	24.9	31.205	210.684	10.2882	236.021	0.026601
11:05:00 AM	984	526037	2405.25	174.734	1.00921	174.696	44.2575	43.9104	996.135	994.416	466.357	3.22096	5.11919	42.6874	393.276	1.48487	24.9	69.9613	385.827	99.5996	76.5	79.8	24.9	31.2009	207.795	10.3224	235.417	0

APPENDIX AX: RAW DATA – BDJ50 BLEND AT 20°BTDC

Manual Log Description : Power Curve on 50% base diesel &
 50% Jatropha 20° timing
 Manual Log Start Date :
 2012/03/07
 Manual Log Start Time :
 12:19:42 PM

TIME	mSec	Eng_Ti me	Spee d	Torq ue	~ECE_Corr_ Factor	~Torque _Corr	~Power _Corr	Humi dity	~P_ Baro	P_Pre_Co mpressor	P_Post_Co mpressor	P_Exh aust	P_Oil_ Filter	P_Co ol_In	P_Cool _Out	P_F uel	T_Air_In_ Snorkel	T_Post_Co mpressor	T_Exh aust	T_Oil_ Sump	T_Co ol_In	T_Cool _Out	T_F uel	T_C ell	Fuel_ Mass	Fuel_ Flow	~SFC	Smok e
12:19:44 PM	531	528800	2607.84	270.575	1.01049	273.399	74.7035	43.4264	995.935	994.945	837.58	8.39169	5.06877	80.8212	488.693	1.51345	25.2995	99.798	467.499	105.13	76.8125	81.3588	26.2053	33.08	418.143	17.0801	231.152	0.1064
12:19:45 PM	531	528804	2608.02	270.326	1.01049	273.447	74.7032	43.43	995.935	994.945	844.833	8.42053	5.04355	81.7253	486.685	1.50825	25.2999	99.8096	467.565	105.35	76.8838	81.4738	26.201	32.9334	406.073	17.08	231.084	0.01182
12:19:46 PM	531	528805	2607.9	270.108	1.01048	273.45	74.6888	43.4249	995.936	994.945	846.462	8.38607	5.05196	81.7949	488.163	1.5208	25.3	99.8833	467.594	105.391	76.997	81.4952	26.2002	32.9062	399.924	17.08	231.068	0.1064
12:19:47 PM	531	528806	2607.92	270.144	1.01048	273.421	74.6605	43.4064	995.936	995.171	845.246	8.28164	5.04126	82.4634	490.723	1.51551	25.3	99.8969	467.599	105.398	77.7327	81.8271	26.2	32.9011	394.922	17.0865	231.083	0.076847
12:19:48 PM	531	528807	2607.87	270.212	1.01049	273.353	74.6235	43.4256	995.936	995.171	840.221	8.11327	5.06112	81.7055	489.968	1.5193	25.3	99.8994	467.6	105.631	77.869	82.1309	26.2	32.8731	390.142	17.1276	231.142	0.076847
12:19:49 PM	531	528808	2608.15	270.294	1.01048	273.268	74.5899	43.4026	995.935	994.945	835.322	8.29013	5.05348	81.8647	489.781	1.51021	25.3	99.8999	467.6	105.687	77.8943	82.1872	26.2	32.8135	385.486	17.0816	231.273	0.05911
12:19:50 PM	531	528809	2608.02	270.412	1.01048	273.193	74.5738	43.4076	995.936	995.171	836.835	8.49055	5.05578	82.4082	491.29	1.51131	25.3	99.9	467.559	105.698	77.8989	82.1976	26.2	32.8025	380.717	17.0216	231.406	0.017734
12:19:51 PM	531	528810	2607.88	270.273	1.01049	273.137	74.5778	43.4228	995.936	995.171	840.567	8.21351	5.06112	82.4606	490.636	1.51776	25.3	100.03	467.511	105.7	77.8998	82.1996	26.2	32.8005	375.964	17.0677	231.477	0.1064
12:19:52 PM	531	528811	2607.83	270.039	1.01048	273.106	74.5898	43.4095	995.936	995.171	845.908	8.1658	5.05348	82.928	490.765	1.52006	25.3	100.087	467.502	105.7	77.4196	82.1599	26.1206	32.8018	371.24	17.0777	231.454	0.076847
12:19:53 PM	531	528812	2608.09	269.934	1.01048	273.084	74.5912	43.4087	995.936	994.945	846.958	8.26036	5.03744	82.4304	491.066	1.51302	25.3	100.098	467.5	105.747	77.2407	81.8667	26.1038	32.8	366.531	17.0624	231.333	0.1064
12:19:54 PM	531	528813	2607.84	269.833	1.01048	273.061	74.5776	43.4177	995.937	995.171	840.656	8.17489	5.06265	83.185	489.609	1.51261	25.3	100.1	467.5	105.79	77.2075	81.8124	26.1577	32.8718	361.826	17.0591	231.235	0.1064
12:19:55 PM	531	528814	2608.17	269.44	1.01048	273.02	74.5452	43.4129	995.937	995.171	834.365	8.15542	5.03133	81.9942	488.266	1.51663	25.3	100.1	467.58	105.798	77.2014	81.8023	26.1922	32.8948	357.121	17.037	231.197	0.056158
12:19:56 PM	531	528815	2608.02	269.019	1.01048	272.931	74.4946	43.4042	995.937	995.171	832.348	8.07815	5.05043	80.9911	487.336	1.52599	25.3	100.1	467.5	105.8	77.203	81.8004	26.1985	32.898	352.451	17.0359	231.212	0.1064
12:19:57 PM	531	528816	2607.73	269.177	1.01048	272.775	74.432	43.4144	995.941	994.945	835.04	8.09136	5.05272	80.7667	490.171	1.51107	25.3	100.1	467.5	105.8	76.581	81.8001	26.1997	32.8998	347.737	17.0514	231.277	0.1064
12:19:58 PM	531	528817	2607.95	268.877	1.01049	272.576	74.3694	43.4349	995.939	995.171	834.955	8.10824	5.0489	80.4688	489.621	1.51002	25.3	100.1	467.5	105.8	75.6188	81.0649	26.1999	32.9	342.981	17.0274	231.355	0.1064
12:19:59 PM	531	528818	2607.93	269.296	1.01049	272.394	74.3113	43.4311	995.939	995.171	836.798	8.15985	5.05733	80.923	486.986	1.51303	25.3	100.1	467.5	106.126	75.4406	80.6861	26.2	32.9	338.284	17.0439	231.444	0.1064
12:20:00 PM	531	528819	2607.96	269.085	1.01048	272.234	74.2764	43.4217	995.939	995.398	840.742	8.51282	5.0596	80.3197	490.008	1.51922	25.3	100.1	467.5	106.186	75.4075	80.616	26.2	32.9	333.626	17.069	231.576	0.05025
12:20:01 PM	531	528820	2607.81	269.351	1.01048	272.104	74.2676	43.4154	995.939	995.171	840.033	8.47285	5.04661	80.5394	489.536	1.52026	25.3	100.1	467.343	106.197	75.4014	80.603	26.2	32.9	328.913	17.0246	231.725	0.1064
12:20:02 PM	531	528821	2607.99	269.311	1.01048	272.02	74.2767	43.4167	995.941	995.171	834.199	8.58967	5.04049	79.067	486.825	1.52447	25.3	100.1	467.227	106.2	75.4003	80.6005	26.2	32.9	324.208	16.9934	231.807	0.106

12:21:42 PM	531	52892 1	2404.01	280.699	1.00926	283.29	71.3234	43.4295	995.942	995.171	741.043	6.83822	4.89914	100.889	451.68	1.49904	24.9	94.0194	464.807	107.6	75.4775	80	26.1	33.3	316.832	15.9341	224.872	0.1064
12:21:43 PM	531	52892 2	2403.81	280.602	1.00927	283.291	71.3282	43.4357	995.942	995.171	747.105	7.01982	4.89914	101.64	456.05	1.51507	24.9	94.0036	464.801	107.6	75.4144	80	26.1	33.3	312.419	15.922	224.929	0.1064
12:21:44 PM	531	52892 3	2404.23	280.33	1.00926	283.274	71.3186	43.4232	995.942	995.171	746.304	7.00674	4.88768	101.532	452.415	1.51845	24.9	94.0007	464.8	107.6	75.4027	80	26.1	33.3	307.94	15.9021	225.021	0.1064
12:21:45 PM	531	52892 4	2404.14	280.362	1.00927	283.238	71.299	43.4605	995.942	995.171	743.439	6.85688	4.89609	101.498	454.994	1.50315	24.9	94.0001	464.8	107.6	75.4005	80	26.1	33.3	303.57	15.8985	225.127	0.076847
12:21:46 PM	531	52892 5	2404.34	280.382	1.00928	283.196	71.2741	43.4583	995.942	995.171	742.08	6.96557	4.89914	102.288	454.147	1.51582	24.9	94	464.569	107.6	75.4001	80	26.1	33.3	299.23	15.9367	225.209	0.1064
12:21:47 PM	531	52892 6	2404.37	280.448	1.00927	283.14	71.257	43.4528	995.942	995.171	745.609	6.78437	4.89991	101.953	455.53	1.51237	24.9	94	464.513	107.6	75.4	80	26.1	33.3	294.78	15.946	225.288	0.065025
12:21:48 PM	531	52892 7	2404.39	280.451	1.00928	283.086	71.2504	43.4699	995.942	995.398	747.051	6.80948	4.90144	102.551	454.502	1.49515	24.9	94	464.502	107.6	75.4	80	26.1	33.3	290.467	15.9322	225.384	0.1064
12:21:49 PM	531	52892 8	2404.28	280.096	1.00927	283.035	71.25	43.4484	995.942	995.171	749.745	6.99718	4.89838	102.15	456.38	1.49526	24.9	94	464.5	107.274	75.4	80	26.1	33.3	286.063	15.8758	225.482	0
12:21:50 PM	531	52892 9	2404.04	280.254	1.00927	282.991	71.247	43.4517	995.942	995.171	744.546	6.98582	4.8915	102.862	455.471	1.47958	24.9	94	464.5	107.214	75.4	80	26.1	33.3	281.593	15.9226	225.54	0.200985
12:21:51 PM	531	52893 0	2404.3	280.278	1.00927	282.957	71.2379	43.4548	995.942	995.171	740.336	6.89716	4.89991	102.392	456.978	1.49305	24.9	94	464.344	107.203	75.4	80	26.1	33.3	277.197	15.8964	225.551	0.1064
12:21:52 PM	531	52893 1	2404.05	280.368	1.00927	282.938	71.2271	43.4646	995.942	995.171	746.871	6.90639	4.89532	102.518	454.743	1.49156	24.9	93.8565	464.227	107.2	75.4	80	26.1	33.3	272.764	15.8657	225.486	0.076847
12:21:53 PM	531	52893 2	2404.17	280.054	1.00928	282.924	71.2188	43.472	995.942	995.171	749.636	7.0367	4.89762	102.642	456.253	1.49928	24.9	93.8105	464.205	107.2	75.4	80	26.1	33.3	268.35	15.8846	225.368	0.1064
12:21:54 PM	531	52893 3	2403.83	280.094	1.00927	282.893	71.2106	43.4425	995.942	995.171	741.947	6.90169	4.89991	103.103	454.827	1.51637	24.9	93.8019	464.201	107.461	75.4	80	26.1	33.3	264.022	15.9116	225.291	0.065025
12:21:55 PM	531	52893 4	2403.88	279.591	1.00928	282.833	71.1962	43.4711	995.942	995.171	742.525	6.96813	4.90373	103.381	457.111	1.51064	24.9	93.8004	464.2	107.574	75.4	80	26.1	33.1412	259.629	15.9073	225.228	0.038424
12:21:56 PM	531	52893 5	2404.23	279.169	1.00927	282.744	71.1628	43.4512	995.942	995.171	738.432	6.85046	4.89914	103.699	458.582	1.50607	24.9	93.8001	464.19	107.595	75.4	80	26.1	33.1076	255.28	15.9107	225.249	0.1064
12:21:57 PM	531	52893 6	2404.41	279.541	1.00927	282.62	71.1142	43.4613	995.942	995.171	745.79	6.88082	4.89609	103.095	456.307	1.49532	24.9	93.7532	464.117	107.599	75.4	80	26.1	33.1014	250.827	15.921	225.376	0.038424
12:21:58 PM	531	52893 7	2404.17	279.822	1.00928	282.499	71.0684	43.4739	995.942	995.171	749.317	6.96649	4.89991	103.19	458.599	1.48062	24.9	93.7098	464.103	107.6	75.4	80	26.1	33.1003	246.495	15.9018	225.558	0.162562
12:22:51 PM	531	52899 0	2200.49	313.092	1.00929	316.186	72.852	43.5016	995.942	994.945	705.207	8.99583	4.68521	123.139	424.714	1.53078	24.9	90.7957	480.4	106.6	75.1	79.9001	25.8016	32.8006	454.619	15.8539	220.232	0.1064
12:22:52 PM	531	52899 1	2200.51	313.255	1.00929	316.119	72.8339	43.4912	995.942	995.171	705.756	9.12402	4.67833	122.947	425.36	1.52918	24.9	90.7177	480.4	106.6	75.1	79.9	25.7188	32.8001	450.185	15.8308	219.981	0.1064
12:22:53 PM	531	52899 2	2200.52	312.837	1.00929	316.081	72.8201	43.4893	995.942	995.171	711.624	9.05665	4.67604	123.22	425.733	1.53097	24.9	90.7033	480.4	106.65	75.1	79.9746	25.7035	32.8	445.841	15.775	219.775	0.1064
12:22:54 PM	531	52899 3	2200.48	313.112	1.00929	316.053	72.8132	43.489	995.942	995.171	701.836	8.94641	4.67604	122.824	426.951	1.49775	24.9	90.7006	480.4	106.855	75.1	79.9953	25.7006	32.8	441.583	15.7956	219.606	0.02956
12:22:55 PM	531	52899 4	2200.71	313.191	1.00929	316.007	72.8134	43.4981	995.942	994.945	708.931	8.92306	4.68062	123.14	426.378	1.54516	24.9	90.7001	480.4	106.892	75.1	79.9991	25.6533	32.8	437.118	15.7862	219.426	0.1064
12:22:56 PM	531	52899 5	2201.43	313.265	1.00929	315.976	72.8196	43.508	995.942	995.171	702.977	8.93756	4.68062	123.333	428.486	1.55186	24.9	90.7	480.523	106.89	75.1	79.9998	25.6099	32.8	432.668	15.7615	219.2	0.1064
12:22:57 PM	531	52899 6	2199.36	314.096	1.00929	315.996	72.8321	43.4924	995.942	994.945	700.388	9.05404	4.68139	124	426.797	1.53289	24.9	90.6185	480.586	106.9	75.1	80	25.6018	32.8	428.283	15.7747	218.972	0.1064
12:22:58 PM	531	52899 7	2201.04	313.742	1.00929	316.082	72.8596	43.4895	995.942	995.171	707.686	9.16925	4.67986	123.808	428.586	1.52905	24.9	90.6034	480.597	106.9	75.2629	80.1043	25.6003	32.8	423.875	15.809	218.804	0.1064

12:22:59 PM	531	528998	220079	313557	1.00929	316.189	72.9037	43.489	995.942	995.171	712.384	9.14951	4.67833	123.599	425.739	1.51132				75.2931	80.1823	25.6001	32.81	419.427	15.8225	218.668	0.1064
12:23:00 PM	531	528999	220096	313981	1.00929	316.292	72.9415	43.4889	995.942	995.171	711.452	9.08369	4.67451	123.935	425.786	1.52806				75.2987	80.1967	25.6	32.8833	415.119	15.7968	218.601	0.02956
12:23:01 PM	531	529000	220057	313622	1.00929	316.404	72.9724	43.5003	995.942	995.171	713.057	9.33385	4.67527	123.606	426.129	1.50538				75.2998	80.1994	25.6	32.8969	410.757	15.785	218.584	0.1064
12:23:02 PM	531	529001	220069	31342	1.00929	316.514	72.979	43.4977	995.942	995.171	709.418	9.26323	4.67451	123.375	426.698	1.54459				75.3	80.1999	25.6	32.8994	406.341	15.7563	218.571	0.065025
12:23:03 PM	531	529002	220047	313367	1.00929	316.581	72.9677	43.496	995.942	995.171	711.361	9.17738	4.67986	123.887	426.099	1.53729				75.1628	80.2	25.6	32.8999	401.971	15.7648	218.517	0.1064
12:23:04 PM	531	529003	220064	313451	1.00929	316.571	72.9465	43.4969	995.942	995.171	709.845	9.29024	4.67986	124.448	424.095	1.49214				75.1116	80.2	25.6	32.9	397.67	15.7677	218.417	0.1064
12:23:05 PM	531	529004	22008	313585	1.00929	316.524	72.9245	43.5154	995.942	994.945	704.867	9.33577	4.67757	124.183	425.258	1.49241				75.1022	80.2	25.5349	32.9	393.199	15.7732	218.31	0.106404
12:23:06 PM	531	529005	220097	313625	1.00929	316.48	72.9115	43.4957	995.942	995.171	710.809	9.33977	4.68674	124.917	427.035	1.50246				75.1004	80.2	25.5065	32.9	388.823	15.7894	218.239	0.1064
12:23:07 PM	531	529006	220099	313594	1.0093	316.453	72.9172	43.5161	995.942	995.171	704.647	9.27602	4.68444	124.504	427.811	1.5497				75.1001	80.2	25.5012	32.9	384.423	15.8101	218.253	0.1064
12:23:08 PM	531	529007	22006	313495	1.0093	316.434	72.9319	43.5128	995.942	994.945	710.821	9.16048	4.67986	124.116	427	1.50979				75.141	80.2	25.5002	32.9	380.013	15.8138	218.329	0.1064
12:23:09 PM	531	529008	220049	313171	1.00929	316.419	72.9375	43.4933	995.942	995.171	709.659	9.23054	4.68903	124.106	428.775	1.51829				75.1891	80.1349	25.5	32.9	375.663	15.7999	218.436	0.026601
12:23:10 PM	531	529009	220035	312937	1.0093	316.403	72.9259	43.5123	995.942	995.171	704.719	9.14581	4.68521	124.224	429.349	1.51768				75.198	80.1065	25.5	32.9	371.225	15.7992	218.557	0.056158
12:23:11 PM	531	529010	220051	312672	1.0093	316.354	72.8897	43.5227	995.942	995.171	706.21	9.23063	4.67919	124.995	426.829	1.48786				75.1996	80.1012	25.5	32.9	366.873	15.8215	218.672	0.017734
12:23:12 PM	531	529011	220068	312713	1.0093	316.262	72.8408	43.5338	995.942	995.171	696.577	9.08613	4.68292	124.844	427.038	1.48988				75.1999	80.1002	25.5	32.9	362.613	15.7917	218.789	0.1064
12:23:13 PM	531	529012	220067	312927	1.00929	316.143	72.7962	43.5099	995.942	995.171	705.344	9.29795	4.68139	124.528	427.911	1.55113				75.2	80.1	25.51	32.9	358.178	15.7987	218.89	0.106404
12:23:14 PM	531	529013	220028	312834	1.00929	316.015	72.7655	43.4977	995.942	995.171	705.514	9.11146	4.6791	124.278	427.4	1.50179				75.2	80.1	25.5833	32.9	353.792	15.7794	219.003	0.076847
12:23:15 PM	531	529014	22005	312666	1.00929	315.899	72.7552	43.4905	995.942	994.945	698.018	9.30596	4.67757	124.54	428.223	1.50805				75.2	80.1	25.5969	32.9	349.436	15.7816	219.066	0.1064
12:23:16 PM	531	529015	220094	312669	1.00929	315.797	72.7539	43.4946	995.942	995.171	701.793	9.12088	4.68062	124.269	428.477	1.55662				75.2	80.1	25.5343	32.9	345.087	15.7763	219.075	0.1064
12:23:17 PM	531	529016	220091	31275	1.0093	315.719	72.7529	43.5215	995.942	995.171	709.414	9.06627	4.68062	124.295	426.768	1.50626				75.2	80.1	25.5532	32.9	340.74	15.7808	219.043	0.056158
12:23:18 PM	531	529017	220047	312593	1.00929	315.68	72.7451	43.4998	995.942	995.171	705.002	9.06752	4.67986	124.831	425.579	1.54779				75.2	80.1	25.5913	32.9	336.321	15.7431	218.974	0.1064
12:23:19 PM	531	529018	220046	312738	1.00929	315.663	72.7337	43.5122	995.942	995.171	703.577	9.22138	4.67757	124.553	426.683	1.54319				75.0861	80.1	25.5984	32.9	331.978	15.7554	218.9	0.02069
12:23:20 PM	531	529019	220038	312585	1.00931	315.64	72.7251	43.5469	995.942	995.171	702.715	9.32633	4.68597	124.544	428.685	1.5353				75.016	80.0254	25.5182	32.9	327.593	15.722	218.825	0.047291
12:24:17 PM	531	529076	201243	324746	1.00933	328.11	69.1361	43.5923	995.942	994.945	596.747	12.7207	4.47968	134.379	393.181	1.56988				74.7	79.9047	25.5229	32.9	479.908	15.053	220.189	0.1064
12:24:18 PM	531	529077	20126	32521	1.00921	328.063	69.1225	43.5875	995.942	995.171	595.101	12.8076	4.47738	134.666	393.793	1.54456				74.7	79.909	25.5694	32.9	475.803	15.0215	220.075	0.1064
12:24:19 PM	531	529078	201211	325238	1.00905	328.028	69.105	43.5979	995.942	994.945	597.513	12.6157	4.47891	134.017	393.788	1.60341				74.7	79.902	25.5943	32.9	471.595	14.9874	219.931	0.076847
12:24:20 PM	531	529079	201215	324974	1.00903	328.024	69.1065	43.6056	995.942	995.171	599.113	12.7433	4.48655	133.694	391.698	1.56015				74.7	79.9	25.5646	32.9	467.523	14.9477	219.753	0.085714

12:24:21 PM	531	52908 0	2012. 09	324. 786	1.00903	328.023	69.1097	43.5 988	995. 942	995.171	601.139	12.79 31	4.4804 4	134.0 59	392.72 8	1.58 278	24.8004	84.1076	490.9	105.6	74.7	79.9	25.5 12	32.9	463.4 18	14.93 45	219. 496	0.106 4
12:24:22 PM	531	52908 1	2012. 31	324. 886	1.00902	327.986	69.1087	43.5 931	995. 942	995.171	602.583	12.67 28	4.4789 1	134.6 6	393.46 8	1.59 603	24.8001	84.1014	490.9	105.67 5	74.7	79.9	25.5 022	32.9	459.3 1	14.90 5	219. 124	0.106 4
12:24:23 PM	531	52908 2	2012. 34	324. 897	1.00903	327.945	69.1029	43.6 28	995. 942	994.945	592.659	12.84 66	4.4804 4	133.8 53	392.10 2	1.58 582	24.8	84.1003	490.9	105.69 5	74.7	79.9	25.5 004	32.9	455.1 91	14.92 66	218. 709	0.106 4
12:24:24 PM	531	52908 3	2012. 2	324. 938	1.00903	327.924	69.0903	43.6 078	995. 942	995.171	595.395	12.64 27	4.4865 5	133.8 89	394.41 6	1.58 332	24.8	84.1001	490.8 66	105.69 9	74.7	79.9	25.5 687	32.9	451.1 08	14.94 82	218. 377	0.079 8
12:24:25 PM	531	52908 4	2012. 4	325. 222	1.00903	327.927	69.086	43.6 209	995. 942	995.171	593.611	12.92 31	4.4842 6	134.2 27	389.18 5	1.61 653	24.8	84.0387	490.8 12	105.7	74.7	79.9	25.5 42	32.9	446.8 9	14.92 87	218. 144	0.076 847
12:24:26 PM	531	52908 5	2012. 35	325. 119	1.00903	327.926	69.096	43.6 307	995. 942	995.171	598.671	12.98 67	4.4812	134.5 91	394.17 6	1.60 751	24.8	84.0072	490.8 02	105.7	74.76 86	79.9	25.5 078	32.9	442.8 01	14.93 07	218. 038	0.106 4
12:24:27 PM	531	52908 6	2012. 82	324. 922	1.00904	327.921	69.1146	43.6 419	995. 941	995.171	600.99	12.99 85	4.4850 2	133.9 47	392.87 9	1.57 744	24.8	84.0013	490.8	105.74 7	74.79 42	79.9	25.5 014	32.9	438.7 22	14.87 41	218. 012	0.106 4
12:24:28 PM	531	52908 7	2012. 78	325. 309	1.00903	327.938	69.1359	43.6 059	995. 939	995.171	593.998	13.04 11	4.4804 4	134.3 86	391.92 1	1.55 014	24.8	84.0002	490.8	105.79	74.79 89	79.9	25.5 003	32.8 254	434.5 31	14.87 83	217. 933	0.047 291
12:24:29 PM	531	52908 8	2012. 87	325. 238	1.00903	327.975	69.1488	43.6 177	995. 939	995.171	599.135	13.12 56	4.4850 2	134.6 57	392.23 5	1.56 4	24.8	84	490.8	105.79 8	74.79 98	79.9	25.5 047	32.8 047	430.4 38	14.89 6	217. 779	0.017 734
12:24:30 PM	531	52908 9	2012. 44	325. 389	1.00904	328.032	69.1598	43.6 248	995. 939	995.171	596.732	13.02 43	4.4812	134.3 32	394.25 5	1.55 571	24.8	83.9187	490.8 77	105.8	74.8	79.9	25.5 009	32.8 009	426.3 35	14.90 68	217. 574	0.017 734
12:24:31 PM	531	52909 0	2012. 25	325. 291	1.00904	328.087	69.167	43.6 296	995. 937	995.171	599.17	12.97 15	4.4827 3	134.9 3	394.47 3	1.56 802	24.8	83.7405	490.8 96	105.8	74.8	79.9	25.5 002	32.8 002	422.2 1	14.89 45	217. 386	0.106 4
12:24:32 PM	531	52909 1	2012. 33	324. 864	1.00905	328.124	69.1651	43.6 573	995. 937	995.171	594.417	12.99 57	4.4773 8	135.3 72	394.22 6	1.54 346	24.8	83.7075	490.8 99	105.8	74.8	79.9	25.4 81	32.8	418.1 3	14.89 93	217. 305	0.106 4
12:24:33 PM	531	52909 2	2012. 49	324. 863	1.00904	328.117	69.1566	43.6 217	995. 937	994.945	593.478	13.00 02	4.4812	134.2 38	394.24 7	1.57 955	24.8	83.7014	490.9	105.88 1	74.8	79.9	25.4 15	32.8 469	414.0 29	14.85 26	217. 294	0.106 4
12:24:34 PM	531	52909 3	2012. 46	325. 181	1.00906	328.092	69.139	43.6 258	995. 937	995.171	594.108	13.00 1	4.4888 4	134.1 07	393.05 4	1.56 277	24.81	83.7003	490.9	105.89 7	74.8	79.9	25.4 028	32.8 902	409.8 9	14.82 53	217. 283	0.026 601
12:24:35 PM	531	52909 4	2012. 37	324. 838	1.0093	328.081	69.1375	43.6 438	995. 937	995.171	599.139	13.05 15	4.4835	134.2 27	393.02 8	1.57 643	24.8833	83.7001	490.9	105.89 9	74.8	79.9	25.4 005	32.8 982	405.7 21	14.81 78	217. 208	0.106 4
12:24:36 PM	531	52909 5	2012. 53	324. 68	1.00934	328.064	69.1285	43.6 381	995. 937	995.171	595.7	13.01 05	4.4758 6	133.3 99	393.47 5	1.55 259	24.8969	83.6254	490.9	105.9	74.8	79.9	25.4 001	32.8 997	401.6 86	14.82 88	217. 057	0.106 4
12:24:37 PM	531	52909 6	2012. 97	324. 882	1.00935	328.009	69.1211	43.6 332	995. 937	995.171	596.797	13.00 86	4.4850 2	133.2 28	391.22 4	1.58 115	24.8994	83.6047	490.9	105.9	74.87 46	79.968 8	25.4	32.8 999	397.5 05	14.84 74	216. 843	0.106 4
12:24:38 PM	531	52909 7	2012. 97	325. 255	1.00934	327.952	69.1203	43.6 266	995. 937	995.171	599.428	12.97 51	4.4903 7	133.5 75	393.45 4	1.56 525	24.8999	83.6009	490.9	105.71 6	74.89 53	80.075 7	25.4	32.9	393.4 01	14.87 07	216. 684	0.017 734
12:24:39 PM	531	52909 8	2012. 72	325. 411	1.00935	327.955	69.1276	43.6 495	995. 939	994.945	594.234	12.94 27	4.4835	134.0 48	394.32 2	1.58 547	24.9	83.6002	490.9	105.62 2	74.89 91	80.095 5	25.3 185	32.9	389.3 33	14.86 43	216. 635	0.106 4
12:24:40 PM	531	52909 9	2012. 66	325. 416	1.00915	328.021	69.1329	43.6 449	995. 939	995.171	590.605	13.05 94	4.4941 9	134.4 47	392.42 3	1.54 871	24.8349	83.6	490.9	105.60 4	74.89 98	80.099 2	25.3 034	32.9	385.2 26	14.83 97	216. 68	0.106 4
12:24:41 PM	531	52910 0	2012. 49	325. 149	1.00907	328.081	69.1555	43.6 634	995. 94	995.171	601.516	12.89 62	4.4835	134.6 42	392.33 9	1.57 596	24.8065	83.4957	490.9	105.60 1	74.9	80.099 8	25.3 006	32.9	381.0 45	14.84 59	216. 751	0.106 4
12:24:42 PM	531	52910 1	2012. 24	325. 062	1.00905	328.121	69.1753	43.6 612	995. 938	994.945	596.149	12.94 81	4.4873 2	134.1 17	393.44 1	1.55 838	24.8012	83.4177	490.9	105.6	74.9	80.1	25.3 001	32.9	376.9 61	14.86 87	216. 783	0.038 424
12:24:43 PM	531	52910 2	2012. 41	324. 891	1.00905	328.149	69.1756	43.6 543	995. 938	995.171	594.062	12.90 63	4.4835	134.3 51	395.70 3	1.58 493	24.8002	83.4033	490.9	105.49 2	74.9	79.950 8	25.3	32.9	372.7 78	14.86 89	216. 755	0.106 4
12:24:44 PM	531	52910 3	2012. 31	324. 92	1.00905	328.164	69.1559	43.6 566	995. 938	994.945	591.071	12.98 36	4.4850 2	134.5 95	393.91 4	1.58 567	24.8	83.4006	490.9	105.25 4	74.9	79.909 4	25.3	32.9	368.6 67	14.88 61	216. 73	0.106 4
12:24:45 PM	531	52910 4	2012. 55	324. 905	1.00905	328.139	69.1292	43.6 524	995. 938	994.945	597.917	12.94 04	4.4911 4	133.7 85	393.17 5	1.59 739	24.8	83.4001	490.9	105.21	74.9	79.901 7	25.3	32.9	364.5 8	14.90 25	216. 799	0.115 271

12:24:46 PM	531	52910 5	2012. 76	325. 187	1.00905	328.077	69.1101	43.6 543	995. 938	995.171	597.715	12.99	4.4819 7	133.4 97	393.39 8	1.56 056	24.8	83.39	490.9	105.20 2	74.9	79.900 3	25.3	32.9	360.4 72	14.91 68	216. 961	0.056 158
12:26:03 PM	531	52918 2	1807. 05	325. 568	1.00938	328.995	62.2122	43.6 95	995. 942	995.171	488.454	8.258 87	4.239	135.8 29	355.08 3	1.60 89	24.9032	77.2177	489.3 06	104.7	74.7	79.9	25	32.9	357.5 87	13.23 48	214. 444	0.133 005
12:26:04 PM	531	52918 3	1807. 03	325. 348	1.00936	328.905	62.2036	43.6 763	995. 942	995.171	491.726	8.341 38	4.239	136.1	355.73 7	1.64 294	24.9006	77.2033	489.3 01	104.80 8	74.7	79.9	25	32.9	353.8 64	13.28 26	214. 495	0.106 4
12:26:05 PM	531	52918 4	1806. 78	325. 457	1.00936	328.822	62.1914	43.6 728	995. 942	995.171	492.275	8.418 31	4.2435 8	135.8 81	355.53 9	1.63 098	24.9001	77.2006	489.3	105.04 6	74.7	79.9	25	32.9	350.2 19	13.26 23	214. 662	0.106 4
12:26:06 PM	531	52918 5	1807. 03	325. 62	1.00936	328.735	62.1809	43.6 721	995. 942	995.171	486.536	8.225 54	4.2412 9	135.5 98	352.96 6	1.63 792	24.9	77.2001	489.3	105.09	74.7	79.9	25	32.9	346.5 42	13.25 83	214. 861	0.067 98
12:26:07 PM	531	52918 6	1807. 37	325. 374	1.00936	328.653	62.1748	43.6 72	995. 942	995.171	481.967	8.091 14	4.2382 3	135.4 63	355.87 6	1.63 197	24.9	77.17	489.0 85	105.09 8	74.7	79.9	25	32.9	342.8 54	13.23 99	215. 057	0.047 291
12:26:08 PM	531	52918 7	1807. 48	325. 48	1.00936	328.605	62.1734	43.6 72	995. 942	995.171	485.593	8.099 9	4.239	135.2 38	354.34 3	1.62 16	24.9	76.95	489.0 16	105.1	74.7	79.9	25	32.9	339.1 57	13.27 29	215. 193	0.106 4
12:26:09 PM	531	52918 8	1807. 01	325. 567	1.00936	328.565	62.1738	43.6 72	995. 942	995.171	496.445	8.227 44	4.2374 7	134.9 22	354.63 5	1.61 329	24.9	76.9093	489.0 03	105.1	74.7	79.9	25	32.9	335.4 7	13.29 67	215. 241	0.106 4
12:26:10 PM	531	52918 9	1807. 17	325. 574	1.00936	328.544	62.1753	43.6 842	995. 942	995.171	491.683	8.329 99	4.2405 3	135.5 46	354.11 9	1.63 536	24.9	76.9017	489.0 01	104.94 6	74.7	79.9	25	32.9	331.8 05	13.30 11	215. 291	0.106 4
12:26:11 PM	531	52919 0	1807. 05	325. 727	1.00936	328.545	62.1778	43.6 768	995. 942	995.171	491.97	8.261 2	4.2397 6	135.6 89	353.35 4	1.66 958	24.9	76.9003	489	104.90 8	74.7	79.9	25	32.9	328.1 13	13.31 2	215. 372	0.017 734
12:26:12 PM	531	52919 1	1807. 325. 536	1.01008	328.594	62.2269	43.6 818	995. 942	994.945	488.771	8.097 75	4.2443 5	136.0 86	353.73 5	1.61 825	25.1382	76.9001	488.9 31	104.90 2	74.7	79.9	25	32.9	324.3 73	13.31 14	215. 539	0.133 005	
12:26:13 PM	531	52919 2	1806. 92	325. 633	1.01024	328.659	62.244	43.6 738	995. 942	995.171	493.129	8.263 51	4.2405 3	136.0 55	355.24 5	1.64 498	25.1886	76.8349	488.8 24	104.9	74.7	79.9	25	32.9	320.7 37	13.31 87	215. 717	0.106 4
12:26:14 PM	531	52919 3	1806. 69	325. 311	1.01027	328.72	62.2474	43.6 723	995. 942	995.171	492.894	8.219 55	4.2412 9	135.7 12	354.51 2	1.63 17	25.1979	76.8065	488.8 05	104.9	74.7	79.91	25	32.9	317.0 59	13.30 82	215. 886	0.106 4
12:26:15 PM	531	52919 4	1807. 15	325. 393	1.01027	328.769	62.2418	43.6 721	995. 942	995.171	484.879	8.190 53	4.2405 3	135.4 34	356.31 8	1.65 178	25.1996	76.8012	488.8 01	104.80 6	74.7	79.983 3	25	32.9	313.3 89	13.29 43	216. 216	0.038 424
12:26:16 PM	531	52919 5	1807. 35	325. 566	1.01027	328.804	62.2321	43.6 72	995. 942	995.171	484.537	8.300 58	4.2428 2	135.3 65	354.58 1	1.63 693	25.1999	76.8002	488.8	104.72	74.7	79.996 9	24.9 254	32.9	309.6 61	13.33 59	216. 036	0.106 4
12:26:17 PM	531	52919 6	1807. 43	325. 717	1.00981	328.83	62.1979	43.6 72	995. 942	995.171	495.917	8.475 72	4.2420 5	135.1 91	354.42 4	1.62 635	25.0435	76.8	488.8	104.70 4	74.7	79.999 4	24.9 047	32.9	305.9 65	13.34 36	216. 084	0.106 4
12:26:18 PM	531	52919 7	1807. 4	325. 675	1.00945	328.826	62.1833	43.6 872	995. 942	995.171	505.439	8.454 92	4.2443 5	134.7 8	355.55 1	1.65 965	24.9266	76.7312	488.8	104.70 1	74.7	79.999 9	24.9 009	32.9	302.2 73	13.34 5	216. 131	0.088 67
12:26:19 PM	531	52919 8	1807. 08	325. 629	1.00937	328.796	62.1925	43.6 748	995. 942	995.171	506.317	8.417 51	4.2428 2	134.8 28	353.82 9	1.62 343	24.9049	76.6243	488.8	104.7	74.7	80	24.9 002	32.9	298.6	13.34 53	216. 233	0.065 025
12:26:20 PM	531	52919 9	1807. 19	325. 36	1.00936	328.75	62.2017	43.6 725	995. 942	995.171	505.774	8.529 63	4.2443 5	134.9 01	354.21 2	1.61 701	24.9009	76.6045	488.8	104.7	74.7	79.931 4	24.9	32.9	294.9 52	13.32 77	216. 353	0.088 67
12:26:21 PM	531	52920 0	1807. 15	325. 417	1.00936	328.703	62.1991	43.6 811	995. 942	995.171	500.255	8.560 12	4.2405 3	134.9 69	354.68 7	1.64 463	24.9002	76.6008	488.8	104.7	74.7	79.905 8	24.9	32.9	291.2 42	13.34 21	216. 423	0.106 4
12:26:22 PM	531	52920 1	1807. 08	325. 277	1.00937	328.654	62.184	43.6 977	995. 942	995.171	511.566	8.662 9	4.2504 6	134.7 4	352.32 6	1.61 718	24.9	76.6002	488.8	104.7	74.7	79.901 1	24.9	32.9	287.5 88	13.31 04	216. 477	0.106 4
12:26:23 PM	531	52920 2	1806. 91	325. 258	1.00936	328.597	62.1633	43.6 768	995. 942	995.171	508.95	8.636 63	4.2458 7	134.8 95	354.37 7	1.61 269	24.9	76.6	488.5 15	104.7	74.7	79.900 2	24.9	32.9	283.8 5	13.29 79	216. 455	0.106 4
12:26:24 PM	531	52920 3	1806. 94	325. 57	1.00936	328.537	62.1497	43.6 71	995. 942	995.171	498.922	8.474 3	4.2451 1	135.3 26	351.89 2	1.63 426	24.9	76.5254	488.3 4	104.7	74.7	79.9	24.9	32.9	280.1 85	13.26 11	216. 387	0.106 4
12:26:25 PM	531	52920 4	1807. 15	325. 686	1.00936	328.489	62.1458	43.6 718	995. 942	994.945	493.591	8.414 09	4.2512 2	134.7 154	353.63 9	1.65 274	24.9	76.5047	488.3 07	104.7	74.7	79.9	24.9	32.9	276.5 48	13.30 9	216. 262	0.106 4
12:26:26 PM	531	52920 5	1806. 79	325. 692	1.00936	328.472	62.1541	43.6 72	995. 942	995.171	491.361	8.422 71	4.2412 9	134.7 97	353.32 2	1.61 508	24.9	76.5009	488.3 01	104.83 7	74.7	79.9	24.9	32.9	272.8 28	13.28 99	216. 111	0.106 4

12:26:27 PM	531	52920 6	1807. 34	325. 341	1.00936	328.486	62.1708	43.6 842	995. 942	995.171	490.263	8.209 47	4.2474	134.4 06	353.73 3	1.62 869	24.9	76.5002	488.3	104.88 8	74.7	79.9	24.9	32.9	269.1 56	13.26 15	215. 952	0.056 158
12:26:28 PM	531	52920 7	1807. 29	325. 464	1.01001	328.516	62.2236	43.6 89	995. 942	995.171	492.295	8.266 39	4.2481 7	134.8 91	351.78 3	1.64 015	25.1153	76.5	488.3	104.89 8	74.7	79.9	24.9	32.9	265.5 2	13.23 79	215. 806	0.106 4
12:26:29 PM	531	52920 8	1807. 4	325. 558	1.01022	328.567	62.2387	43.6 776	995. 942	995.171	486.398	8.409 36	4.2542 8	134.1 21	353.93 6	1.62 52	25.1843	76.4431	488.3	104.9	74.7	79.9	24.9	32.9	261.8 27	13.21 74	215. 65	0.106 4
12:26:30 PM	531	52920 9	1806. 91	325. 73	1.01026	328.64	62.2376	43.6 73	995. 942	995.171	488.832	8.336 81	4.2496 9	134.1 6	353.62 3	1.65 194	25.1971	76.408	488.3	104.9	74.7	79.9	24.9	32.9	258.1 65	13.23 82	215. 43	0.008 867
12:26:31 PM	531	52921 0	1807. 25	325. 696	1.01027	328.727	62.2368	43.6 722	995. 942	995.171	505.55	8.448 57	4.2558 1	134.6 02	354.26 1	1.62 854	25.1995	76.4015	488.3	104.9	74.7	79.9	24.9	32.9	254.4 33	13.23 59	215. 201	0.056 158
12:26:32 PM	531	52921 1	1807. 71	325. 763	1.01028	328.803	62.2446	43.6 831	995. 942	994.945	508.794	8.596 91	4.2519 9	134.0 79	352.43 8	1.63 383	25.1999	76.4003	488.3	104.9	74.82 29	79.9	24.9	32.9	250.7 33	13.24 43	215. 002	0.106 4
12:27:48 PM	640	52928 7	1601. 4	324. 965	1.00999	328.591	55.0895	43.6 988	995. 936	994.945	439.47	2.210 76	3.9180 9	137.2 32	317.71 8	1.58 822	25.1	72.0047	477.2 06	103.4	74.5	80	24.6	32.8	394.3 88	11.80 59	217. 013	0.076 847
12:27:49 PM	640	52928 8	1601. 28	324. 916	1.00998	328.531	55.0778	43.7 087	995. 937	994.945	440.331	2.044 43	3.9173 3	137.2 86	319.24	1.59 991	25.1	72.0009	477.2 01	103.20 5	74.5	80	24.6	32.7 8	391.1 23	11.80 3	216. 925	0.106 4
12:27:50 PM	640	52928 9	1601. 017	325. 017	1.01	328.479	55.0634	43.7 534	995. 939	994.945	440.085	2.093 42	3.9203 9	137.7 03	318.73 1	1.60 361	25.1	72.0002	477.2	103.11 9	74.5	80	24.6	32.6 334	387.8 71	11.79 08	216. 838	0.088 67
12:27:51 PM	640	52929 0	1600. 91	324. 913	1.01001	328.43	55.0469	43.7 644	995. 937	994.945	435.967	2.248 1	3.9173 3	137.2 76	318.28 6	1.57 305	25.1	72	477.1 24	103.10 4	74.5	80	24.6	32.6 062	384.6 32	11.78 85	216. 728	0.076 847
12:27:52 PM	640	52929 1	1600. 63	324. 686	1.01	328.364	55.0313	43.7 356	995. 936	994.945	440.459	2.352 91	3.9165 6	137.6 61	317.69 1	1.60 215	25.1	71.8861	476.8 6	103.10 1	74.5	80	24.6	32.6 011	381.3 08	11.78 81	216. 622	0.106 4
12:27:53 PM	640	52929 2	1600. 94	324. 625	1.01	328.273	55.0187	43.7 221	995. 936	994.945	440.182	2.241 91	3.9211 5	137.5 81	318.91	1.59 676	25.1	71.816	476.8 11	103.1	74.5	80	24.6	32.6 002	378.0 42	11.79 22	216. 529	0.106 4
12:27:54 PM	640	52929 3	1600. 78	324. 872	1.00999	328.185	55.0063	43.7 223	995. 936	994.945	431.592	2.263 94	3.9226 8	137.3 85	318.69 7	1.58 568	25.1	71.803	476.8 02	103.1	74.5	79.841 2	24.6	32.6	374.7 23	11.80 21	216. 476	0.008 867
12:27:55 PM	640	52929 4	1600. 91	324. 918	1.01001	328.139	54.9977	43.7 665	995. 937	994.945	433.973	2.074 4	3.9165 6	137.3 5	317.95 4	1.58 011	25.1	71.8005	476.8	103.1	74.5	79.807 6	24.6	32.7 225	371.4 86	11.77 3	216. 481	0.106 4
12:27:56 PM	640	52929 5	1600. 98	324. 544	1.00958	328.115	54.9671	43.7 058	995. 939	994.945	443.081	1.946 82	3.9173 3	137.0 61	317.06	1.58 09	24.9594	71.8001	476.8	103.1	74.5	79.801 4	24.6	32.7 856	368.1 85	11.80 87	216. 499	0.041 38
12:27:57 PM	640	52929 6	1600. 88	324. 433	1.00916	328.052	54.9447	43.7 163	995. 939	994.945	440.581	2.014 88	3.9226 8	136.2 28	316.52 1	1.61 648	24.8295	71.781	476.5 26	103.1	74.5	79.800 3	24.6	32.7 973	364.9 41	11.77 42	216. 542	0.106 4
12:27:58 PM	640	52929 7	1601. 77	324. 563	1.00911	327.952	54.9414	43.7 596	995. 939	995.171	434.012	2.114 96	3.9196 2	136.3 67	318.11 8	1.60 053	24.8055	71.715	476.4 23	103.1	74.46 2	79.8	24.6	32.7 995	361.7 17	11.78 45	216. 547	0.079 8
12:27:59 PM	640	52929 8	1601. 36	324. 571	1.00908	327.85	54.9341	43.7 298	995. 939	994.945	435.716	2.354 75	3.9203 9	136.2 96	318.72 1	1.59 771	24.801	71.7028	476.4 04	103.1	74.33	79.8	24.6	32.7 999	358.5 11	11.78 74	216. 538	0.162 562
12:28:00 PM	640	52929 9	1601. 23	324. 697	1.00909	327.773	54.9307	43.7 621	995. 939	994.945	439.045	2.178 06	3.9272 6	135.8 18	318.37 1	1.58 378	24.8002	71.7005	476.4 01	102.80 2	74.30 56	79.8	24.6	32.7 458	355.2 59	11.75 03	216. 508	0.106 4
12:28:01 PM	640	52930 0	1601. 14	324. 566	1.00907	327.712	54.9249	43.7 166	995. 939	995.171	433.576	2.139 84	3.9303 2	135.7 52	317.33 8	1.59 36	24.8	71.7001	476.4	102.71 9	74.30 1	79.8	24.6	32.6 27	351.9 35	11.76 06	216. 431	0.008 867
12:28:02 PM	640	52930 1	1600. 93	324. 55	1.00909	327.622	54.9214	43.7 454	995. 939	995.171	430.461	2.065 87	3.9219 1	136.3 03	318.08 9	1.58 658	24.8	71.7	476.2 36	102.70 3	74.30 02	79.8	24.6	32.6 05	348.6 77	11.74 98	216. 363	0.124 138
12:28:03 PM	640	52930 2	1600. 82	324. 208	1.00909	327.55	54.9152	43.7 592	995. 939	994.945	434.43	2.099 26	3.9265 5	135.6 39	317.71 4	1.60 976	24.8	71.4941	476.0 44	102.70 1	74.3	79.8	24.5 185	32.6 029	345.3 88	11.72 42	216. 241	0.124 138
12:28:04 PM	640	52930 3	1600. 8	324. 145	1.00908	327.493	54.9022	43.7 53	995. 941	994.945	437.66	2.207 26	3.9265 5	136.1 08	317.21 2	1.59 952	24.8	71.4174	476.0 08	102.7	74.44 35	79.8	24.5 034	32.6 002	342.1 44	11.71 75	216. 084	0.067 98
12:28:05 PM	640	52930 4	1600. 92	323. 95	1.00909	327.446	54.8836	43.7 696	995. 942	994.945	429.386	2.152 23	3.9295 5	136.2 7	317.91 5	1.57 3	24.8	71.4032	476.0 01	102.7	74.48 95	79.8	24.5 006	32.6	338.9 03	11.71 62	215. 936	0.047 291
12:28:06 PM	640	52930 5	1600. 73	324. 042	1.00908	327.374	54.8612	43.7 533	995. 942	994.945	433.256	2.204 27	3.9310 8	136.4 21	317.21 7	1.58 853	24.8	71.4006	476	102.7	74.49 81	79.8	24.5 001	32.7 543	335.6 14	11.70 19	215. 789	0.106 4
12:28:07 PM	640	52930 6	1601. 19	323. 87	1.00909	327.283	54.8394	43.7 61	995. 942	995.171	428.932	2.112 88	3.9234 4	136.0 6	316.83 9	1.58 835	24.8	71.4001	476	102.7	74.49 96	79.8	24.5	32.7 915	332.3 54	11.71 21	215. 66	0.056 158

12:28:08 PM	640	529307	1601.02	324.253	1.00908	327.187	54.8269	43.7511	995.942	994.945	440.008	2.18359	3.92879	135.864	317.105	1.61503	24.8	71.3656	475.841	102.7	74.4999	79.8	24.5	32.7984	329.173	11.717	215.584	0.1064
12:28:09 PM	640	529308	1601.31	324.337	1.00909	327.109	54.8263	43.7788	995.942	994.945	435.816	2.29483	3.93108	135.63	316.52	1.56151	24.8	71.3122	475.808	102.7	74.5468	79.8	24.5794	32.7997	325.957	11.7038	215.543	0.1064
12:28:10 PM	640	529309	1601.04	324.474	1.00909	327.075	54.8367	43.7821	995.942	995.171	435.878	2.35818	3.92955	136.251	317.04	1.62818	24.8	71.3023	475.801	102.7	74.5901	79.9372	24.5276	32.7997	322.602	11.6961	215.518	0.1064
12:28:11 PM	640	529310	1600.84	324.299	1.00909	327.084	54.8522	43.7781	995.942	994.945	435.147	2.23548	3.93108	135.679	316.183	1.61332	24.8	71.3004	475.8	102.7	74.5982	79.9884	24.5051	32.8	319.366	11.6833	215.486	0
12:28:12 PM	640	529311	1601.01	324.386	1.00909	327.122	54.8652	43.7587	995.942	995.171	437.88	2.14396	3.93032	135.577	316.473	1.5733	24.8	71.3001	475.8	102.7	74.5997	79.9978	24.5009	32.8	316.11	11.6859	215.392	0.076847
12:28:13 PM	640	529312	1601.2	324.341	1.00909	327.17	54.8725	43.7628	995.942	994.945	430.792	2.0967	3.92879	135.38	316.252	1.56862	24.8	71.3	475.629	102.7	74.5999	79.9996	24.5002	32.8	312.794	11.6928	215.259	0.1064
12:28:14 PM	640	529313	1601.06	324.268	1.00909	327.226	54.8756	43.7688	995.942	994.945	430.976	2.01678	3.93414	135.627	316.633	1.59344	24.8	71.2229	475.524	102.7	74.6	79.9999	24.5	32.8	309.51	11.694	215.121	0.06798
12:28:15 PM	640	529314	1600.89	324.241	1.0091	327.267	54.8756	43.7772	995.942	994.945	429.231	2.03687	3.93261	135.571	317.097	1.57257	24.8	71.2042	475.504	102.7	74.6	80	24.5	32.8	306.289	11.6943	215.011	0.212808
12:28:16 PM	640	529315	1601.09	324.213	1.00909	327.282	54.8717	43.7774	995.942	994.945	440	2.25572	3.93414	135.813	317.574	1.59097	24.8	71.2008	475.501	102.974	74.6	80	24.5	32.8	303.055	11.6984	214.977	0.1064
12:28:17 PM	640	529316	1601.03	323.773	1.00909	327.26	54.8649	43.781	995.942	994.945	429.506	2.28461	3.93872	135.898	317.391	1.60459	24.8	71.2001	475.5	103.077	74.6	80	24.5	32.8	299.786	11.7031	215.004	0.008867
12:29:18 PM	640	529377	1402.96	310.819	1.01032	313.866	46.0897	43.8018	995.942	994.945	356.085	1.61536	3.49557	136.285	285.623	1.56707	25.1999	66.8005	464.201	101.776	74.3049	80.1042	24.3001	32.9	496.238	9.99875	219.435	0.1064
12:29:19 PM	640	529378	1403.05	310.659	1.00978	313.836	46.0625	43.809	995.942	994.945	357.188	1.58319	3.49098	135.523	285.333	1.58324	25.0126	66.8001	464.2	101.795	74.3009	80.1008	24.3	32.9	493.417	10.001	219.247	0.1064
12:29:20 PM	640	529379	1402.86	310.799	1.00923	313.773	46.0476	43.8082	995.942	995.171	360.088	1.54653	3.49328	135.275	285.772	1.57362	24.8394	66.76	463.72	101.799	74.3002	80.1001	24.3	32.9	490.685	9.95669	219.111	0.1064
12:29:21 PM	640	529380	1402.91	310.651	1.00913	313.693	46.0545	43.8114	995.942	994.945	352.632	1.83945	3.4948	135.577	284.143	1.59864	24.8073	66.4667	463.541	101.8	74.31	80.1	24.3	32.9	487.936	9.92736	218.961	0.1064
12:29:22 PM	640	529381	1402.57	311.024	1.00911	313.652	46.0598	43.8147	995.942	994.945	351.81	1.77663	3.49098	135.49	285.122	1.56981	24.8014	66.4124	463.508	101.8	74.3833	80.0431	24.3	32.9	485.129	9.96922	218.781	0.1064
12:29:23 PM	640	529382	1400.39	311.101	1.0091	313.648	46.0594	43.8046	995.942	994.945	347.643	2.02774	3.48105	135.379	283.596	1.58974	24.8003	66.4023	463.501	101.725	74.3969	80.008	24.3	32.9	482.389	10.002	218.585	0.153695
12:29:24 PM	640	529383	1402.57	310.916	1.00911	313.651	46.0604	43.8178	995.942	995.171	354.849	1.72253	3.49022	135.35	285.223	1.60369	24.8	66.4004	463.5	101.705	74.3994	80.0015	24.3	32.9	479.571	9.98706	218.409	0.04138
12:29:25 PM	640	529384	1403.12	310.968	1.0091	313.632	46.0643	43.7985	995.942	994.945	353.242	1.9453	3.50168	134.997	284.115	1.60987	24.8	66.4001	463.254	101.701	74.3999	80.0003	24.3	32.9	476.803	9.98583	218.362	0.144828
12:29:26 PM	640	529385	1402.7	310.809	1.0091	313.637	46.0673	43.8123	995.942	995.171	352.237	1.81544	3.49862	134.479	285.027	1.62428	24.8	66.2628	462.966	101.7	74.4	80.0001	24.3	32.9	474.03	10.0091	218.477	0.1064
12:29:27 PM	640	529386	1402.89	310.682	1.0091	313.659	46.0783	43.8049	995.942	995.171	358.273	2.14278	3.49404	134.139	283.418	1.60676	24.8	66.2116	462.912	101.7	74.2697	79.99	24.3	32.9	471.324	10.012	218.662	0.056158
12:29:28 PM	640	529387	1402.62	310.725	1.00911	313.675	46.0794	43.8088	995.942	994.945	356.825	1.97917	3.49939	134.497	284.497	1.60615	24.8	66.2022	462.902	101.648	74.2129	79.9167	24.3	32.9	468.585	9.99429	218.824	0.08867
12:29:29 PM	640	529388	1403.4	311.125	1.00911	313.664	46.0838	43.8095	995.942	994.945	354.011	1.93824	3.48334	134.56	282.983	1.60131	24.8	66.2004	462.9	101.609	74.2024	79.9031	24.3	32.9	465.782	9.93649	218.927	0.065025
12:29:30 PM	640	529389	1403.21	311.248	1.00961	313.657	46.1095	43.7969	995.942	994.945	352.208	1.98562	3.49939	134.079	284.065	1.58259	24.9709	66.2001	462.9	101.602	74.2004	79.9006	24.3	32.9	463.009	9.94124	218.854	0.1064
12:29:31 PM	640	529390	1403.08	311.319	1.00994	313.71	46.1291	43.7946	995.942	995.171	357.69	1.70555	3.49939	134.177	282.737	1.59124	25.0761	66.1591	462.676	101.6	74.2001	79.9001	24.3	32.9	460.239	9.94785	218.652	0.056158

12:29:32 PM	640	52939 1	1403.05	311.313	1.01	313.807	46.1462	43.7942	995.942	995.171	356.212	1.75619	3.5055	133.81	282.205	1.59602	25.0956	66.1109	462.614	101.6	74.1656	79.9	24.29	32.9	457.462	10.0007	218.377	0.1064
12:29:33 PM	640	52939 2	1402.64	311.366	1.01002	313.917	46.1615	43.8147	995.942	994.945	357.268	1.79199	3.5055	133.366	282.676	1.62576	25.0992	66.102	462.603	101.6	74.1122	79.9	24.2167	32.9	454.765	9.92028	218.1	0.05025
12:29:34 PM	640	52939 3	1402.51	310.583	1.01002	314.032	46.1725	43.8018	995.942	994.945	356.265	2.04751	3.50321	133.116	282.977	1.57933	25.0998	66.1004	462.6	101.356	74.1023	79.9	24.2777	32.9	451.953	9.94307	217.892	0.1064
12:29:35 PM	640	52939 4	1402.57	310.431	1.00992	314.113	46.1646	43.7955	995.942	994.945	353.499	2.20075	3.50856	133.094	282.101	1.60276	25.062	66.1001	462.6	101.31	74.1004	79.9	24.2346	32.9	449.151	9.94316	217.785	0.1064
12:29:36 PM	640	52939 5	1402.48	310.571	1.0095	314.122	46.1227	43.8046	995.942	994.945	354.474	1.51215	3.50779	132.651	281.767	1.63163	24.93	66.1	462.416	101.302	74.1001	79.9	24.2064	32.9	446.355	9.96399	217.733	0.026601
12:29:37 PM	640	52939 6	1402.66	310.744	1.00942	314.048	46.0868	43.796	995.942	994.945	352.082	1.72606	3.50168	132.611	282.651	1.62011	24.9056	66.0229	462.322	101.3	74.1	79.9	24.2283	32.9	443.627	9.95431	217.721	0.02956
12:29:38 PM	640	52939 7	1402.86	310.77	1.00942	313.938	46.0654	43.8204	995.942	994.945	356.949	1.81865	3.50397	132.388	282.867	1.61189	24.901	66.0042	462.304	101.3	74.1771	79.8181	24.2867	32.9	440.855	9.97859	217.811	0.085714
12:29:39 PM	640	52939 8	1403.03	310.704	1.00941	313.81	46.0575	43.7989	995.942	994.945	357.212	1.55947	3.50932	132.222	282.918	1.56989	24.9002	66.0008	462.301	101.495	74.1958	79.7219	24.2181	32.9	438.078	10.0183	217.983	0.1064
12:29:40 PM	640	52939 9	1402.96	310.48	1.0094	313.675	46.0605	43.795	995.942	994.945	353.526	1.72647	3.50703	131.957	282.149	1.59431	24.9	66.0001	462.3	101.581	74.1992	79.7041	24.2034	32.9	435.336	10.0375	218.256	0.047291
12:29:41 PM	640	52940 0	1402.75	310.661	1.00984	313.581	46.084	43.7942	995.942	995.171	349.57	1.94421	3.5055	131.713	281.333	1.53909	25.0435	66	462.24	101.596	74.1999	79.7008	24.2006	32.9	432.591	10.0668	218.609	0.1064
12:29:42 PM	640	52940 1	1402.85	310.67	1.00998	313.564	46.0871	43.7941	995.942	994.945	353.704	1.71827	3.51161	132.281	282.005	1.57667	25.0895	65.8861	461.8	101.599	74.2	79.7001	24.2001	32.9	429.815	10.0295	219.052	0.1064
12:29:43 PM	640	52940 2	1402.7	310.77	1.01001	313.61	46.0847	43.7941	995.942	994.945	354.004	1.74153	3.51085	131.823	282.85	1.60742	25.0981	65.816	461.719	101.6	74.2	79.7	24.2	32.9	427.014	10.0199	219.456	0.1064
12:29:44 PM	640	52940 3	1401.43	311.067	1.01001	313.665	46.0821	43.8032	995.942	994.945	357.735	1.75801	3.51238	131.449	280.212	1.61832	25.0996	65.803	461.703	101.428	74.2	79.7	24.2	32.9	424.234	10.033	219.78	0.05025
12:29:45 PM	640	52940 4	1402.71	311.296	1.01002	313.734	46.0924	43.7976	995.942	994.945	352.885	1.71437	3.51009	131.289	280.825	1.59465	25.0999	65.8005	461.701	101.161	74.2	79.7	24.2	32.8349	421.433	10.0389	219.959	0.1064
12:29:46 PM	640	52940 5	1402.88	311.097	1.0096	313.824	46.0931	43.7947	995.942	994.945	356.073	1.78502	3.51085	131.156	280.747	1.58874	24.9594	65.8001	461.7	101.111	74.2	79.7	24.2	32.8065	418.733	10.0424	219.926	0.056158
12:29:47 PM	640	52940 6	1402.54	310.942	1.00919	313.895	46.0924	43.7942	995.942	994.945	356.406	1.55023	3.51314	130.805	280.857	1.59134	24.8295	65.79	461.557	101.102	74.2	79.7	24.2	32.8012	415.952	10.0406	219.856	0.124138
12:30:43 PM	640	52946 2	1207.98	294.773	1.01001	297.907	37.6949	43.7849	995.942	994.945	273.345	0.28904	3.01574	132.757	252.977	1.6255	25.1	61.6093	448.008	100.3	74.215	80	24.1	32.9	285.75	8.24226	220.882	0.200985
12:30:44 PM	640	52946 3	1207.26	294.118	1.01001	297.927	37.6765	43.7834	995.942	994.945	273.449	0.41673	3.02109	132.576	253.739	1.65779	25.1	61.6017	448.001	100.375	74.2028	80	24.1	32.9	283.472	8.24645	220.774	0.1064
12:30:45 PM	640	52946 4	1207.74	294.411	1.01	297.898	37.6609	43.7506	995.942	994.945	271.699	0.30656	3.01498	132.023	253.781	1.66333	25.1	61.6003	448	100.395	74.2005	80	24.1	32.9	281.14	8.26523	220.83	0.038424
12:30:46 PM	640	52946 5	1208.37	294.544	1.01001	297.815	37.6431	43.7691	995.942	994.945	276.454	0.39445	3.02032	132.048	253.074	1.60906	25.1	61.6001	447.754	100.399	74.2001	80	24.1	32.9	278.883	8.21673	220.991	0.1064
12:30:47 PM	640	52946 6	1207.62	294.75	1.01	297.711	37.6276	43.7717	995.942	994.945	279.998	0.32148	3.01345	131.885	253.189	1.64581	25.1	61.4697	447.466	100.4	74.2	80	24.1	32.9	276.63	8.2011	221.114	0.076847
12:30:48 PM	640	52946 7	1207.72	294.138	1.01	297.637	37.6246	43.7509	995.942	994.945	278.665	0.35006	3.02338	131.6	253.246	1.68841	25.1	61.4129	447.412	100.4	74.2	79.99	24.1	32.9	274.327	8.19821	221.116	0.1064
12:30:49 PM	640	52946 8	1208.14	294.026	1.01	297.569	37.6213	43.7602	995.942	994.945	283.44	0.34961	3.02109	131.434	253.188	1.60614	25.1	61.4024	447.402	100.4	74.2	79.9167	24.0531	32.9	272.025	8.24463	220.974	0.01182
12:30:50 PM	640	52946 9	1208.34	294.36	1.01	297.479	37.6164	43.747	995.942	994.945	276.11	0.31204	3.02414	131.58	252.711	1.60145	25.1	61.4004	447.4	100.4	74.2	79.9031	24.0442	32.8254	269.885	8.22085	220.784	0.076847

12:30:51 PM	640	52947 0	1208. 33	294. 384	1.01	297.387	37.6102	43.7 606	995. 942	994.945	280.459	0.259 82	3.0203 2	130.9 49	252.30 2	1.59 536	25.1	61.4001	447.4	100.4	74.2	79.900 6	24.0 897	32.8 047	267.5 35	8.213 15	220. 666	0.106 4
12:30:52 PM	640	52947 1	1207. 11	294. 992	1.01	297.366	37.6141	43.7 509	995. 942	994.945	277.382	0.408 38	3.0249 1	131.0 63	252.05 4	1.60 889	25.1	61.2772	447.0 14	100.4	74.2	79.900 1	24.0 981	32.8 009	265.2 13	8.218 06	220. 636	0.017 734
12:30:53 PM	640	52947 2	1207. 81	294. 998	1.01001	297.418	37.6241	43.7 795	995. 942	994.945	281.14	0.386 95	3.0203 2	130.8 85	252.58 9	1.56 432	25.1	61.1328	446.9 21	100.4	74.15 9	79.9	24.0 279	32.8 002	262.9 36	8.218 97	220. 696	0.106 4
12:30:54 PM	640	52947 3	1208. 52	294. 32	1.00999	297.478	37.6415	43.7 233	995. 942	994.945	281.26	0.268 52	3.0340 8	130.3 47	252.09 9	1.64 344	25.1	61.1061	446.9 04	100.37	74.11 09	79.9	24.0 052	32.8	260.6 41	8.219 14	220. 682	0.106 4
12:30:55 PM	640	52947 4	1208. 09	294. 857	1.01	297.512	37.6595	43.7 632	995. 942	994.945	274.614	0.254 48	3.0256 7	130.2 47	251.65 9	1.56 265	25.1	61.1011	446.9 01	100.15	74.10 2	79.9	24.0 01	32.8	258.3 79	8.209 04	220. 618	0.038 424
12:30:56 PM	640	52947 5	1208. 17	294. 874	1.01	297.575	37.6656	43.7 56	995. 942	994.945	284.085	0.244 34	3.0294 9	129.9 87	251.08 6	1.57 693	25.1	61.1002	446.9	100.10 9	74.10 04	79.9	24.0 002	32.8	256.0 72	8.217 03	220. 505	0.020 69
12:30:57 PM	640	52947 6	1207. 73	294. 486	1.01001	297.672	37.6641	43.7 623	995. 942	994.945	280.049	0.280 03	3.0264 4	129.9 93	251.60 9	1.56 312	25.1	61.1	446.5 58	100.10 2	74.10 01	79.9	24	32.8	253.7 96	8.232 36	220. 396	0.106 4
12:30:58 PM	640	52947 7	1208. 09	294. 563	1.01001	297.732	37.6608	43.7 741	995. 942	994.945	272.336	0.343 58	3.0287 3	130.1 25	252.18 6	1.62 629	25.1	61.0206	446.3 48	100.1	74.1	79.9	24	32.8	251.4 9	8.229 44	220. 376	0.076 847
12:30:59 PM	640	52947 8	1208. 12	293. 974	1.00999	297.707	37.6495	43.7 491	995. 942	994.945	271.332	0.383 73	3.0325 5	130.2 07	252.55 6	1.67 005	25.1	61.0038	446.3 09	100.1	74.02 06	79.853 1	24	32.8	249.2 28	8.234 99	220. 417	0.106 4
12:31:00 PM	640	52947 9	1206. 67	294. 982	1.00998	297.614	37.6343	43.7 115	995. 942	994.945	277.583	0.302 56	3.0172 7	129.8 78	250.35 1	1.60 412	25.1	61.0007	446.3 02	99.756 9	74.00 38	79.809 8	24	32.8	246.9 45	8.218 18	220. 544	0.106 4
12:31:01 PM	640	52948 0	1208. 1	294. 973	1.00999	297.55	37.6232	43.7 308	995. 942	994.945	280.683	0.333 18	3.0340 8	130.2 79	251.61 3	1.67 746	25.1	61.0001	446.3	99.629 1	74.00 07	79.801 8	24	32.6 371	244.7 01	8.260 11	220. 691	0.106 4
12:31:02 PM	640	52948 1	1207. 69	294. 846	1.01001	297.541	37.6252	43.7 743	995. 942	994.945	279.244	0.329 71	3.0340 8	129.9 05	251.08 3	1.65 54	25.1	61	446.1 67	99.605 4	74.00 01	79.800 3	24	32.6 069	242.3 83	8.226 76	220. 845	0.106 4
12:31:03 PM	640	52948 2	1207. 67	294. 838	1.01	297.556	37.6399	43.7 464	995. 942	994.945	280.886	0.271 14	3.0287 3	129.3 37	251.56 2	1.69 23	25.1	60.8957	445.7 05	99.601	74	79.800 1	24	32.6 013	240.1 36	8.202 96	220. 918	0.067 98
12:31:04 PM	640	52948 3	1208. 2	294. 467	1.00999	297.566	37.6558	43.7 215	995. 942	994.945	278.427	0.377 15	3.0371 3	129.0 17	250.61 9	1.65 4	25.1	60.8177	445.6 19	99.600 2	74.06 13	79.8	24	32.6 002	237.8 56	8.222 05	220. 892	0.106 4
12:31:05 PM	640	52948 4	1207. 85	295. 037	1.00999	297.58	37.6651	43.7 316	995. 942	994.945	279.262	0.477 03	3.0356 1	129.1 98	251.77 4	1.58 057	25.1	60.8033	445.6 04	99.6	74.09 28	79.722 9	24	32.6	235.5 28	8.236 7	220. 789	0
12:31:06 PM	640	52948 5	1208. 07	294. 91	1.00999	297.643	37.6648	43.7 271	995. 942	994.945	280.858	0.382 97	3.0394 3	129.3 16	250.73 219	1.62 219	25.1	60.8006	445.6 01	99.6	74.09 87	79.704 2	24	32.7 303	233.2 31	8.240 05	220. 649	0.065 025
12:31:07 PM	640	52948 6	1207. 93	294. 764	1.00972	297.719	37.6567	43.7 291	995. 942	994.945	281.589	0.342 93	3.0432 5	129.3 91	250.71 3	1.63 789	25.0063	60.8001	445.6	99.6	74.09 98	79.700 8	24	32.7 871	230.9 59	8.240 67	220. 597	0.106 4
12:31:08 PM	640	52948 7	1209. 2	295. 186	1.00944	297.743	37.6582	43.7 133	995. 942	994.945	279.183	0.381 93	3.0317 8	129.1 94	250.76 8	1.54 779	24.9197	60.781	445.1 2	99.6	74.1	79.700 1	24	32.7 976	228.7 21	8.225 94	220. 625	0.065 025
12:31:09 PM	640	52948 8	1208. 48	294. 461	1.00939	297.717	37.664	43.7 344	995. 942	994.945	270.912	0.349 7	3.0401 9	129.1 49	250.44 1	1.58 714	24.9037	60.715	444.9 41	99.6	74.08 1	79.7	24	32.7 996	226.4 22	8.235 27	220. 683	0.106 4
12:31:10 PM	640	52948 9	1207. 96	294. 589	1.00938	297.662	37.6618	43.7 239	995. 942	994.945	272.266	0.419 3	3.0432 5	129.0 33	249.90 8	1.60 988	24.9007	60.7028	444.9 08	99.6	74.01 5	79.7	24	32.7 999	224.1 12	8.229 89	220. 729	0.047 291
12:31:11 PM	640	52949 0	1207. 96	294. 774	1.00938	297.614	37.648	43.7 385	995. 942	994.945	282.511	0.412 22	3.0424 8	128.5 25	249.97 8	1.61 529	24.9001	60.7005	444.9 01	99.6	74.00 28	79.7	24	32.8	221.8 2	8.207 25	220. 721	0.106 4
12:31:12 PM	640	52949 1	1206. 67	294. 4	1.00939	297.57	37.6259	43.7 547	995. 942	994.945	280.617	0.417 02	3.0379 7	128.7 7	250.11	1.70 632	24.9	60.7001	444.9	99.6	74.00 05	79.7	24	32.8	219.5 31	8.230 26	220. 661	0.106 4
12:32:01 PM	656	52954 0	1014. 49	262. 379	1.00997	264.128	28.0765	43.6 888	995. 942	994.945	170.178	0.247 32	2.4701 7	127.6 35	223.22 5	1.65 345	25.1002	56.0049	422.4 07	98.168 8	73.6	79.6	24	32.8	393.9 46	6.316 17	227. 711	0.011 82
12:32:02 PM	656	52954 1	1009. 05	261. 594	1.00998	264.363	28.1063	43.7 084	995. 942	994.945	178.255	0.430 1	2.4885 3	127.2 37	222.78 2	1.49 286	25.1	56.0009	422.4 01	98.275 7	73.6	79.6	24	32.7 387	392.1 65	6.333 63	227. 341	0.124 138

12:32:03 PM	656	52954 2	1010. 21	261. 668	1.00998	264.49	28.1237	43.6 995	995. 942	994.945	156.953	0.284 94	2.4839 4	127.3 04	222.69 2	1.60 909	25.1	56.0002	422.4	98.295 5	73.6	79.6	24	32.7 072	390.4 39	6.330 69	227. 128	0.106 4
12:32:04 PM	656	52954 3	1009. 15	261. 489	1.00997	264.56	28.1166	43.7 003	995. 942	994.718	176.245	0.298 11	2.4892 9	127.2 28	223.54 4	1.51 396	25.1	55.943	421.8 51	98.299 2	73.6	79.6	24	32.7 013	388.6 56	6.312 68	227. 101	0.106 4
12:32:05 PM	656	52954 4	1012. 78	263. 454	1.00998	264.7	28.0777	43.7 1	995. 942	994.945	184.326	0.399 84	2.4877 6	126.9 84	223.70 1	1.30 002	25.1	55.745	421.6 47	98.299 8	73.6	79.6	24	32.7 002	386.8 97	6.300 48	227. 14	0.106 4
12:32:06 PM	656	52954 5	1012. 97	264. 779	1.00998	264.821	28.0543	43.7 136	995. 942	994.945	187.292	0.207 75	2.4388	127.3 23	221.56 2	1.64 152	25.1	55.7083	421.6 09	98.3	73.6	79.6	24	32.7	385.1 52	6.312 9	227. 253	0.124 138
12:32:07 PM	671	52954 6	1014. 9	259. 501	1.00997	264.894	28.0686	43.6 797	995. 942	994.945	181.072	0.429 29	2.5107	126.2 75	222.95 9	1.43 302	25.1	55.7015	421.6 02	98.145 8	73.6	79.6	24	32.7	383.4 22	6.364 2	227. 317	0.106 4
12:32:08 PM	656	52954 7	1016. 24	260. 482	1.00997	264.803	28.098	43.6 734	995. 942	994.718	180.303	0.461 46	2.5298	126.0 16	223.42 6	1.59 776	25.1	55.7003	421.6	98.108 5	73.6	79.6	24	32.7	381.6 49	6.375 67	227. 397	0.106 4
12:32:09 PM	656	52954 8	1010. 85	263. 218	1.00998	264.605	28.1019	43.7 113	995. 942	994.718	183.962	0.445 11	2.5	125.7 84	222.59 3	1.44 647	25.1	55.7001	421.2 32	98.101 6	73.6	79.6	23.9 59	32.7	379.8 76	6.372 43	227. 551	0.079 8
12:32:10 PM	656	52954 9	1007. 05	263. 466	1.00997	264.595	28.0794	43.6 793	995. 942	994.945	171.64	0.390 27	2.4732 3	126.3 84	222.06 3	1.55 17	25.1	55.4847	420.7 98	98.100 3	73.6	79.6	23.9 109	32.7	378.1 16	6.356 48	227. 868	0.106 4
12:32:11 PM	656	52955 0	1012. 88	261. 548	1.00997	264.765	28.0608	43.6 822	995. 942	994.718	168.6	0.413 85	2.5068 8	125.6 94	221.86 8	1.56 391	25.1	55.4157	420.7 18	98.100 1	73.88 7	79.6	23.9 02	32.7	376.3 93	6.317 46	228. 327	0.059 11
12:32:12 PM	656	52955 1	1007. 31	262. 618	1.00997	264.893	28.0334	43.6 861	995. 942	994.945	173.93	0.351 74	2.4938 8	125.9 16	221.84 1	1.45 268	25.1	55.4029	420.7 03	98.1	73.97 91	79.6	23.9 004	32.7	374.6 5	6.344 58	228. 657	0.106 4
12:32:13 PM	656	52955 2	1015. 07	261. 985	1.00997	264.797	28.061	43.6 83	995. 942	994.718	160.806	0.348 88	2.5328 5	125.3 86	222.28 9	1.53 76	25.1	55.4005	420.7 01	98.1	73.99 61	79.6	23.9 001	32.7 746	372.8 81	6.310 42	228. 75	0.011 82
12:32:14 PM	671	52955 3	1010. 22	264. 137	1.00997	264.748	28.1077	43.6 74	995. 942	994.718	169.082	0.351 99	2.4969 4	125.4 77	221.79	1.73 438	25.1	55.4001	420.7	98.1	73.99 93	79.6	23.9	32.7 953	371.0 82	6.343 12	228. 433	0.065 025
12:32:15 PM	656	52955 4	1012. 87	264. 184	1.00997	264.934	28.1141	43.6 762	995. 942	994.945	180.49	0.405 81	2.5022 9	125.1 85	221.92 1	1.41 486	25.1	55.3656	420.2 37	98.1	73.99 99	79.6	23.9	32.7 991	369.2 8	6.355 78	228. 048	0.106 4
12:32:16 PM	656	52955 5	1016. 91	263. 563	1.00997	265.19	28.181	43.6 728	995. 942	994.945	169.92	0.565 7	2.5328 5	124.8 93	221.55 6	1.69 919	25.1	55.3122	420.1 25	98.1	74.04 09	79.6	23.9	32.7 998	367.4 66	6.369 56	227. 71	0.026 601
12:32:17 PM	656	52955 6	1019. 44	263. 113	1.00998	265.322	28.224	43.6 964	995. 942	994.945	175.196	0.664 11	2.5511 9	124.2 27	222.81 5	1.40 732	25.1	55.3023	420.1 05	98.1	74.08 91	79.668 6	23.9	32.8	365.7 34	6.345 86	227. 476	0.106 4
12:32:18 PM	656	52955 7	1016. 25	263. 292	1.00997	265.491	28.2882	43.6 765	995. 942	994.718	183.4	0.677 52	2.5450 8	124.0 02	221.48 5	1.60 032	25.1	55.3004	420.1 01	97.774 1	74.09 8	79.694 2	23.9	32.7 478	364.0 6	6.333 61	227. 348	0.106 4
12:32:19 PM	671	52955 8	1016. 79	263. 804	1.00999	265.778	28.3442	43.7 196	995. 942	994.718	180.513	0.638 04	2.5320 9	124.2 35	221.19 9	1.41 394	25.1	55.3001	420.1	97.713 7	74.09 96	79.698 9	23.9	32.7 089	362.2 58	6.315 32	227. 034	0.076 847
12:32:20 PM	656	52955 9	1014. 18	264. 089	1.00997	266.064	28.3536	43.6 861	995. 942	994.945	169.455	0.679 64	2.5275 1	124.1 39	220.95 3	1.68 42	25.1	55.3	419.6 1	97.702 5	74.09 99	79.699 8	23.9	32.7 016	360.4 56	6.324 67	226. 584	0.106 4
12:32:21 PM	671	52956 0	1015. 98	264. 032	1.00997	266.276	28.3521	43.6 812	995. 942	994.718	183.93	0.616 44	2.5282 7	124.3 23	220.94	1.60 116	25.1	55.1458	419.3 57	97.700 5	74.1	79.7	23.9	32.7 003	358.7 05	6.343 27	226. 116	0.088 67
12:32:22 PM	656	52956 1	1015. 88	264. 836	1.00998	266.415	28.3336	43.6 932	995. 942	994.718	185.765	0.559 14	2.4885 3	124.6 25	219.57 7	1.50 035	25.1	55.1085	419.3 11	97.700 1	74.1	79.781 9	23.9	32.7 001	356.9 61	6.342 04	225. 758	0.106 4
12:32:23 PM	656	52956 2	1021. 78	263. 006	1.00998	266.483	28.3226	43.7 127	995. 942	994.718	174.131	0.614 44	2.5244 5	124.6 76	221.50 6	1.60 148	25.1	55.1016	419.3 02	97.634 9	74.1	79.878 1	23.9	32.7	355.1 96	6.362 91	225. 648	0.106 4
12:32:24 PM	656	52956 3	1015. 23	261. 628	1.00998	266.452	28.2931	43.7 129	995. 942	994.718	170.115	0.604 06	2.5466 1	124.2 08	221.24 8	1.48 581	25.1	55.1003	419.3	97.606 5	74.1	79.895 9	23.8 282	32.7	353.4 54	6.365 07	225. 832	0.115 271
12:32:25 PM	656	52956 4	1012. 53	261. 738	1.01019	266.288	28.2558	43.6 877	995. 942	994.945	175.567	0.628 63	2.5443 2	123.9 7	220.76 2	1.66 689	25.1718	55.1001	419.1 1	97.601 2	74.1	79.899 2	23.8 622	32.7	351.6 64	6.366 92	226. 228	0
12:32:26 PM	656	52956 5	1015. 45	264. 262	1.01026	266.105	28.226	43.6 749	995. 942	994.945	182.969	0.558 32	2.5259 8	124.1 81	220.62	1.45 157	25.1948	54.9291	418.6 95	97.600 2	74.1	79.899 9	23.8 586	32.7	349.8 98	6.365 5	226. 728	0.056 158

12:32:27 PM	656	52956 6	1010. 26	263. 219	1.01027	265.986	28.1653	43.6 784	995. 942	994.945	176.962	0.500 42	2.5290 3	124.3 99	220.59 2	1.58 229	25.199	54.8239	418.6 18	97.6	74.1	79.9	23.8 109	32.7	348.1 36	6.365 2	227. 308	0.106 4
12:32:28 PM	656	52956 7	1014. 92	263. 282	1.01028	265.905	28.16	43.6 986	995. 942	994.945	186.141	0.726 68	2.5504 3	123.2 49	219.94 2	1.50 446	25.1998	54.8044	418.6 03	97.477 2	74.1	79.741 2	23.8 02	32.7	346.3 2	6.383 75	227. 793	0.076 847
12:32:29 PM	656	52956 8	1010. 08	264. 064	1.01028	265.838	28.1849	43.7 105	995. 942	994.718	187.949	0.547 71	2.5183 4	123.5 82	219.52 6	1.65 568	25.2	54.8008	418.6 01	97.332 8	74.1	79.707 6	23.8 004	32.7	344.5 8	6.391 43	228. 147	0.183 251
12:32:30 PM	656	52956 9	1015. 88	263. 62	1.01028	265.829	28.1928	43.6 969	995. 942	994.718	172.446	0.741 49	2.5282 7	123.3 72	220.56 6	1.37 745	25.2	54.8002	418.6 01	97.306 1	74.1	79.701 4	23.8 001	32.7	342.8 89	6.377 19	228. 411	0.088 67
12:33:16 PM	656	52961 5	1603. 14	282. 424	1.00939	284.076	47.7202	43.7 612	995. 941	994.718	358.06	3.567 11	4.2153 1	99.90 95	277.18 5	1.62 836	24.9	59.6886	422.6 89	96.699 9	75.73 71	80.118 1	23.5 478	32.7	224.2 78	10.20 88	216. 034	0.020 69
12:33:17 PM	656	52961 6	1603. 57	282. 233	1.00939	284.194	47.7682	43.7 562	995. 942	994.945	351.532	3.574 09	4.2176 7	99.72 77	278.07 9	1.63 86	24.9	59.6979	422.6 98	96.7	75.70 69	80.021 9	23.5 089	32.7	221.3 99	10.20 9	215. 96	0.106 4
12:33:18 PM	656	52961 7	1603. 12	281. 885	1.00941	284.342	47.8069	43.7 905	995. 942	994.718	353.66	3.505 17	4.2183 7	100.1 3	279.62 8	1.60 912	24.9	59.6996	422.7	96.7	75.70 13	80.004 1	23.5 016	32.7	218.5 92	10.21 49	215. 826	0.017 734
12:33:19 PM	656	52961 8	1603. 09	281. 557	1.0094	284.507	47.8137	43.7 772	995. 942	994.945	356.744	3.530 39	4.2183 7	100.1 1	277.89 1	1.62 405	24.9	59.6999	422.9 44	96.7	75.70 02	80.000 7	23.5 003	32.7	215.7 68	10.21 41	215. 7	0.183 251
12:33:20 PM	671	52961 9	1603. 73	281. 795	1.0094	284.631	47.7998	43.7 785	995. 942	994.945	354.164	3.485 33	4.2153 1	100.1 23	277.31 1	1.61 419	24.9	59.8708	423.4 78	96.7	75.7	80.000 1	23.5 001	32.7	212.9 26	10.19 16	215. 609	0.106 4
12:33:21 PM	656	52962 0	1602. 96	282. 239	1.0094	284.7	47.7822	43.7 912	995. 942	994.945	351.668	3.570 29	4.2107 3	99.64 13	277.77 8	1.63 246	24.9	59.9761	423.5 77	96.7	75.7	80	23.5 57	32.7	210.1 2	10.22 35	215. 593	0.153 695
12:33:22 PM	671	52962 1	1603. 31	281. 998	1.0094	284.709	47.7746	43.7 877	995. 942	994.718	345.591	3.382 72	4.2114 9	99.68 09	279.87 9	1.61 674	24.9	59.9956	423.5 96	96.781 9	75.7	80.162 9	23.5 92	32.7	207.3 11	10.22 94	215. 649	0.106 4
12:33:23 PM	656	52962 2	1603. 1	281. 935	1.0094	284.685	47.7821	43.7 829	995. 942	994.718	345.633	3.428 23	4.2099 6	99.49 49	278.07 3	1.62 934	24.9	59.9992	423.5 99	96.878 1	75.7	80.193 1	23.5 985	32.7	204.4 54	10.20 76	215. 703	0.115 271
12:33:24 PM	671	52962 3	1602. 91	281. 727	1.00927	284.642	47.7791	43.8 081	995. 942	994.718	350.541	3.335 26	4.2137 8	99.77 31	277.16 6	1.60 553	24.8531	59.9998	423.6	96.895 9	75.7	80.198 7	23.5 997	32.7	201.6	10.22 01	215. 759	0.106 4
12:33:25 PM	656	52962 4	1603. 12	282. 053	1.00913	284.589	47.7724	43.7 967	995. 942	994.718	350.185	3.339 86	4.2038 5	100.1 79	278.61 9	1.62 384	24.8098	60.057	424.0 47	96.899 2	75.7	80.199 8	23.5 999	32.7	198.7 97	10.20 57	215. 807	0.056 158
12:33:26 PM	656	52962 5	1602. 81	281. 832	1.0091	284.564	47.7582	43.7 865	995. 942	994.718	358.356	3.263 51	4.2130 2	100.0 51	278.32 4	1.66 234	24.8018	60.255	424.1 72	96.899 9	75.75 42	80.2	23.6	32.7	195.9 6	10.20 26	215. 803	0.106 4
12:33:27 PM	671	52962 6	1603. 17	281. 84	1.0091	284.558	47.7453	43.7 927	995. 942	994.718	353.637	3.309 47	4.2160 8	99.83 61	279.67 5	1.59 776	24.8003	60.2917	424.1 95	96.9	75.87 3	80.2	23.6	32.7	193.1 57	10.20 2	215. 794	0.106 4
12:33:28 PM	656	52962 7	1603. 06	282. 032	1.0091	284.542	47.7454	43.7 938	995. 942	994.718	351.567	3.403 99	4.2107 3	100.2 8	279.86 6	1.61 613	24.8001	60.2985	424.1 99	96.741 2	75.89 5	80.2	23.6	32.7	190.3 24	10.18 58	215. 759	0.065 025
12:33:29 PM	671	52962 8	1603. 14	281. 82	1.0091	284.518	47.7499	43.7 909	995. 942	994.945	352.774	3.371 96	4.2168 4	100.4 81	278.90 1	1.61 952	24.8	60.2997	424.2	96.707 6	75.89 91	80.2	23.6	32.7	187.4 93	10.19 61	215. 677	0.106 4
12:33:30 PM	656	52962 9	1602. 87	281. 626	1.0091	284.498	47.7587	43.7 935	995. 942	994.718	351.592	3.421 21	4.2122 6	100.6 58	278.91 1	1.63 172	24.8	60.2999	424.5 13	96.701 4	75.89 98	80.2	23.6	32.7	184.6 72	10.20 55	215. 594	0.106 4
12:33:31 PM	671	52963 0	1603. 58	281. 958	1.00909	284.488	47.7612	43.7 803	995. 942	994.945	354.532	3.379 12	4.2130 2	100.4 87	279.37 1	1.63 934	24.8	60.3	424.7	96.700 3	75.9	80.2	23.6	32.7	181.8 32	10.18 96	215. 512	0.056 158
12:33:32 PM	656	52963 1	1603. 54	282. 284	1.0091	284.495	47.7617	43.7 915	995. 942	994.718	353.89	3.480 84	4.2130 2	100.1 95	279.09 7	1.59 135	24.8	60.3	424.7 9	96.700 1	75.9	80.2	23.6	32.7	179.0 16	10.18 2	215. 447	0.047 291
12:33:33 PM	656	52963 2	1603. 56	282. 374	1.00909	284.536	47.7721	43.7 836	995. 942	994.718	352.829	3.479 25	4.2114 9	100.5 41	278.30 8	1.60 594	24.8	60.3	424.7 98	96.643 1	75.9	80.2	23.6	32.7	176.1 6	10.20 93	215. 403	0.011 82
12:33:34 PM	656	52963 3	1604. 25	282. 154	1.00911	284.6	47.7952	43.8 078	995. 942	994.718	353.335	3.500 25	4.2130 2	100.2 33	277.85 3	1.60 38	24.8	60.3	424.8	96.608	75.9	80.2	23.6	32.7	173.3 24	10.20 21	215. 369	0.106 4
12:33:35 PM	656	52963 4	1603. 78	282. 462	1.0091	284.649	47.8209	43.7 966	995. 942	994.718	353.088	3.390 87	4.2061 4	101.0 88	278.95 1	1.60 56	24.8	60.3	424.8	96.601 5	75.9	80.2	23.6	32.7	170.4 78	10.21 48	215. 312	0.106 4
12:33:36 PM	656	52963 5	1603. 68	282. 323	1.0091	284.698	47.8396	43.7 945	995. 942	994.718	350.33	3.546 42	4.2076 7	101.0 75	278.51 8	1.63 299	24.8	60.3688	425.4 35	96.600 3	75.9	80.2	23.6	32.7	167.5 75	10.25 24	215. 283	0.017 734

12:33:37 PM	656	52963 6	1603. 91	282. 483	1.0091	284.766	47.8495	43.7 941	995. 942	994.718	350.454	3.376 4	4.2076 7	100.9 09	279.93 3	1.59 719	24.8	60.4757	425.5 69	96.600 1	75.9	80.2	23.6	32.7	164.8 22	10.23 96	215. 345	0.106 4
12:33:38 PM	656	52963 7	1604. 21	282. 726	1.0091	284.843	47.8517	43.7 941	995. 942	994.718	359.735	3.570 37	4.2092	100.9 52	280.62 6	1.62 675	24.8	60.4955	425.5 94	96.543	75.9	80.268 6	23.6	32.7	161.9 5	10.23 5	215. 454	0.094 581
12:33:39 PM	656	52963 8	1603. 67	282. 599	1.0091	284.924	47.8583	43.7 861	995. 942	994.945	357.709	3.513 36	4.2114 9	100.5 52	279.38	1.64 268	24.8	60.4992	425.5 99	96.345	75.9	80.294 2	23.6	32.6 478	159.0 72	10.24 03	215. 632	0.106 4
12:33:40 PM	656	52963 9	1603. 32	282. 583	1.0091	284.986	47.872	43.7 974	995. 942	994.718	346.139	3.443 33	4.2076 7	101.5 04	279.59 2	1.58 324	24.8	60.4998	425.6	96.308 3	75.9	80.298 9	23.6 19	32.6 089	156.2 74	10.23 25	215. 778	0.106 4
12:33:41 PM	671	52964 0	1603. 22	282. 963	1.0091	285.05	47.8853	43.7 947	995. 942	994.718	353.532	3.563 06	4.2061 4	100.7 23	279.30 4	1.64 568	24.8	60.5	425.9 67	96.301 5	75.9	80.299 8	23.6 85	32.6 016	153.4 33	10.24 28	215. 807	0.106 4
12:33:42 PM	656	52964 1	1603. 62	283. 872	1.0091	285.126	47.9003	43.7 942	995. 942	994.718	350.498	3.314 55	4.2023 2	100.9 38	278.67 5	1.59 964	24.8	60.5771	426.1 57	96.300 3	75.9	80.3	23.6 201	32.6 003	150.5 91	10.26 82	215. 81	0.106 4
12:33:43 PM	656	52964 2	1602. 05	283. 533	1.0091	285.273	47.9183	43.7 941	995. 942	994.718	351.556	3.410 66	4.2038 5	100.9 3	279.38 3	1.62 574	24.8	60.5958	426.1 92	96.300 1	75.9	80.259	23.6 037	32.6 001	147.7 59	10.26 88	215. 792	0.026 601
12:33:44 PM	656	52964 3	1602. 52	282. 684	1.0091	285.451	47.9451	43.8 043	995. 942	994.945	360.79	3.335 86	4.2061 4	101.6 28	279.48 2	1.63 325	24.8	60.5992	426.1 99	96.574 5	75.9	80.210 9	23.6 529	32.6	144.9 18	10.25 54	215. 788	0.106 4
12:33:45 PM	656	52964 4	1603. 15	282. 463	1.0091	285.561	47.9623	43.7 849	995. 942	994.945	351.661	3.172 56	4.2076 7	100.8 18	280.39 3	1.63 921	24.8	60.5999	426.2	96.676 7	75.9	80.202	23.6 913	32.6 815	142.0 54	10.28 82	215. 855	0.056 158
12:34:23 PM	656	52968 2	2013. 94	266. 952	1.0091	269.991	56.941	43.7 94	995. 942	994.718	463.442	8.578 46	4.7486 2	80.59	336.26 2	1.60 538	24.8	65.8997	428.4	97.178 8	75.7	79.898 4	23.7	32.4	377.0 19	12.43 15	221. 322	0.085 714
12:34:24 PM	656	52968 3	2014. 32	267. 149	1.0091	269.968	56.9066	43.7 941	995. 942	994.718	459.747	8.690 05	4.7539 7	80.82 94	338.50 2	1.60 879	24.8	65.8999	428.6 09	97.196 1	75.7	79.899 7	23.7 41	32.4	373.6 59	12.42 22	221. 236	0.017 734
12:34:25 PM	656	52968 4	2014. 54	267. 638	1.0091	269.888	56.8886	43.7 99	995. 942	994.945	463.091	8.577 7	4.7532 1	80.96 38	337.77 9	1.62 163	24.8	66.187	428.7 65	97.199 3	75.7	79.899 9	23.7 891	32.4	370.1 74	12.39 9	221. 08	0.047 291
12:34:26 PM	656	52968 5	2014. 34	268. 03	1.0091	269.814	56.8915	43.7 95	995. 942	994.945	456.702	8.620 84	4.7486 2	81.55 34	336.03 7	1.62 84	24.8	66.2791	428.7 93	97.199 9	75.7	79.9	23.7 98	32.4	366.7 42	12.38 88	220. 816	0.106 4
12:34:27 PM	656	52968 6	2014. 05	267. 405	1.0091	269.818	56.9129	43.7 884	995. 942	994.718	460.89	8.894 88	4.7448	81.47 3	337.31 1	1.62 055	24.8	66.2961	428.7 99	97.2	75.7	79.9	23.7 996	32.4	363.2 81	12.40 41	220. 507	0.106 4
12:34:28 PM	656	52968 7	2013. 99	267. 496	1.0091	269.858	56.9404	43.7 93	995. 942	994.718	463.916	8.679 61	4.7501 5	81.14 9	335.74	1.62 35	24.8	66.2993	428.8	97.2	75.83 03	79.9	23.7 999	32.4	359.8 91	12.42 21	220. 222	0.106 4
12:34:29 PM	656	52968 8	2012. 48	267. 861	1.00909	269.886	56.956	43.7 73	995. 942	994.718	461.093	8.593 1	4.7432 8	82.09 17	335.40 9	1.59 205	24.8	66.2999	428.8	97.246 9	75.88 71	79.981 5	23.8	32.4	356.4 73	12.40 48	219. 977	0
12:34:30 PM	656	52968 9	2013. 83	267. 301	1.0091	269.92	56.9501	43.7 902	995. 942	994.718	457.556	8.740 67	4.7402 2	82.55 37	336.59 3	1.59 391	24.8	66.3	428.8	97.290 2	75.89 76	79.996 6	23.8	32.6 87	353.0 77	12.32 72	219. 82	0.106 4
12:34:31 PM	656	52969 0	2014. 07	267. 153	1.0091	269.959	56.9319	43.7 933	995. 942	994.718	460.049	8.593 47	4.7364	82.39 78	339.02 3	1.57 107	24.8	66.3	428.8	97.298 2	75.89 96	79.999 4	23.8 1	32.7 791	349.6 23	12.34 52	219. 685	0.008 867
12:34:32 PM	656	52969 1	2013. 9	267. 413	1.0091	269.955	56.9099	43.7 939	995. 942	994.718	460.22	8.623 76	4.7493 9	82.56 73	337.60 6	1.61 102	24.8	66.4084	429.3 97	97.299 7	75.89 99	79.999 9	23.8 833	32.7 961	346.2 31	12.31 51	219. 538	0.200 985
12:34:33 PM	656	52969 2	2014. 08	267. 346	1.0091	269.892	56.8983	43.7 94	995. 942	994.945	463.741	8.674 69	4.7425 1	82.68 14	340.70 6	1.57 658	24.8	66.646	429.5 62	97.299 9	75.86 56	80	23.8 969	32.7 993	342.9	12.34 62	219. 305	0.050 25
12:34:34 PM	656	52969 3	2014. 15	267. 411	1.00909	269.822	56.8906	43.7 788	995. 942	994.718	456.084	8.638 81	4.7409 8	83.13 61	338.24 9	1.55 766	24.8	66.69	429.5 93	97.3	75.81 22	79.877 5	23.8 994	32.7 999	339.4 78	12.35 01	219. 068	0.085 714
12:34:35 PM	656	52969 4	2013. 98	267. 249	1.0091	269.781	56.887	43.7 848	995. 942	994.718	463.413	8.632 16	4.7394 6	83.21 27	337.77 5	1.61 879	24.8	66.6981	429.5 99	97.538 2	75.80 23	79.814 4	23.8 999	32.7 999	336.0 55	12.35 57	218. 914	0.106 4
12:34:36 PM	656	52969 5	2014. 1	267. 387	1.0091	269.756	56.8913	43.7 978	995. 942	994.718	460.981	8.630 93	4.7440 4	83.14 15	338.98 7	1.63 445	24.8	66.6997	429.6	97.588 6	75.80 04	79.802 7	23.9	32.7 098	332.6 29	12.35 23	218. 868	0.174 384
12:34:37 PM	656	52969 6	2013. 74	266. 985	1.00909	269.741	56.8941	43.7 811	995. 942	994.718	463.249	8.800 62	4.7486 2	83.36 59	337.97 6	1.59 775	24.8	66.6999	429.7 04	97.597 9	75.80 01	79.800 5	23.9	32.7 018	329.1 82	12.37 05	218. 935	0.106 4
12:34:38 PM	656	52969 7	2013. 96	267. 046	1.0091	269.723	56.8875	43.7 917	995. 942	994.718	464.48	8.839 6	4.7371 6	83.67 06	339.26 128	1.61	24.8	66.8435	429.7 82	97.599 6	75.8	79.800 1	23.9	32.7 003	325.7 68	12.31 66	219. 035	0.038 424
12:34:39 PM	656	52969 8	2014. 33	267. 234	1.0091	269.698	56.8752	43.7 929	995. 942	994.718	463.927	8.669 37	4.7386 9	83.26 76	339.88 895	1.60	24.8	66.8895	429.7 97	97.599 9	75.72 29	79.827 1	23.9	32.7 001	322.3 81	12.30 54	219. 079	0.106 4

12:34:40 PM	656	52969 9	2014. 01	266. 907	1.00909	269.662	56.8594	43.7 802	995. 942	994.945	462.012	8.637 82	4.7432 8	83.31 78	339.66 6	1.59 336	24.8	66.8981	429.7 99	97.6	75.70 42	79.886 5	23.9	32.7	318.9 02	12.32 45	219. 052	0.065 025
12:34:41 PM	656	52970 0	2013. 7	266. 868	1.0091	269.615	56.8439	43.7 849	995. 942	994.945	461.289	8.737 26	4.7341 1	83.23 01	339.00 4	1.58 253	24.8	66.8996	429.8	97.6	75.70 08	79.897 5	23.9 41	32.7	315.5 29	12.30 51	218. 968	0.088 67
12:34:42 PM	656	52970 1	2013. 99	266. 996	1.00909	269.549	56.8283	43.7 747	995. 942	994.945	461.252	8.582 05	4.7402 2	83.90 04	340.16 1	1.64 689	24.8	66.8999	429.8	97.6	75.70 01	79.899 5	23.9 891	32.7	312.1 15	12.30 15	218. 818	0.106 4
12:34:43 PM	656	52970 2	2014. 11	267. 133	1.0091	269.478	56.8178	43.7 905	995. 942	994.718	464.917	8.836 57	4.7386 9	83.68 15	340.39 3	1.61 497	24.8	67.0406	430.1 26	97.6	75.7	79.899 9	23.9 98	32.7	308.6 59	12.31 62	218. 714	0.065 025
12:34:44 PM	656	52970 3	2013. 87	267. 589	1.0091	269.45	56.8198	43.7 934	995. 942	994.718	461.256	8.760 15	4.7379 3	83.63 69	339.33 8	1.61 097	24.8	67.1705	430.1 86	97.6	75.87 09	79.9	23.9 996	32.7	305.2 86	12.29 6	218. 653	0.106 4
12:34:45 PM	656	52970 4	2013. 76	266. 667	1.00909	269.47	56.8308	43.7 684	995. 942	994.718	458.033	8.660 7	4.7425 1	83.90 56	339.38 7	1.60 204	24.8	67.1945	430.1 97	97.6	75.97 61	79.9	23.9 999	32.7	301.8 6	12.28	218. 58	0.020 69
12:34:46 PM	656	52970 5	2013. 72	266. 286	1.00909	269.472	56.839	43.7 75	995. 942	994.718	456.794	8.543 55	4.7318 2	84.97 03	338.93 6	1.56 422	24.8	67.199	430.2	97.6	75.99 56	79.9	24	32.7	298.5 2	12.26 42	218. 512	0.106 4
12:34:47 PM	656	52970 6	2014. 03	265. 821	1.0091	269.403	56.8195	43.7 905	995. 942	994.718	458.706	8.768 86	4.7371 6	84.77 49	341.23 7	1.60 981	24.8	67.1998	430.2	97.6	75.99 92	79.9	24	32.7	295.1 02	12.24 44	218. 401	0.106 4
12:34:48 PM	656	52970 7	2013. 9	266. 142	1.0091	269.273	56.7636	43.7 934	995. 942	994.945	459.184	8.577 3	4.7394 6	85.08 66	341.25 8	1.63 877	24.8	67.2	430.5 26	97.6	75.99 98	79.9	24	32.7	291.7 01	12.26 22	218. 233	0.106 4
12:34:49 PM	656	52970 8	2014. 16	265. 988	1.0091	269.132	56.6955	43.7 892	995. 942	994.945	453.795	8.620 76	4.7341 1	84.98 62	341.40 3	1.60 549	24.8	67.3629	430.6 68	97.6	76	79.9	24	32.7	288.2 98	12.29 88	218. 162	0.026 601
12:34:50 PM	656	52970 9	2014. 06	265. 833	1.00909	268.972	56.6412	43.7 923	995. 942	994.718	456.273	8.628 82	4.7371 6	85.56 37	342.04 7	1.59 744	24.8	67.3931	430.6 94	97.6	76	79.993 7	24	32.7	284.8 91	12.27 25	218. 207	0.097 54
12:34:51 PM	656	52971 0	2014. 03	266. 208	1.00909	268.769	56.6173	43.7 804	995. 942	994.945	459.61	8.716 02	4.7379 3	85.57 64	341.96 2	1.61 075	24.8	67.3987	430.6 99	97.6	76	80.080 3	24	32.7	281.5 04	12.28 31	218. 349	0.011 82
12:34:52 PM	656	52971 1	2014. 19	266. 403	1.00909	268.587	56.6133	43.7 784	995. 942	994.718	457.932	8.688 12	4.7318 2	85.08 67	340.05 4	1.60 605	24.8	67.3998	430.7	97.6	76	80.096 4	24	32.7	278.1 5	12.28 51	218. 597	0.106 4
12:36:40 PM	656	52981 9	2404. 67	147. 947	1.00939	151.891	37.5961	43.6 493	995. 908	994.945	416.29	2.887 7	5.1237 8	64.24 86	419.04 4	1.53 825	24.9	67.8	370	99.891 5	76.5	79.8	24.9	33.2	515.4 82	10.01 43	267. 43	0.097 54
12:36:41 PM	656	52982 0	2401. 96	147. 532	1.00939	150.323	37.5235	43.6 555	995. 906	994.945	413.397	3.058 08	5.1191 9	63.15 31	420.58 7	1.53 379	24.9	67.8	368.6 08	99.898 4	76.5	79.8	24.9	33.2	512.8 07	9.937 86	270. 736	0.026 601
12:36:42 PM	656	52982 1	2405. 98	146. 781	1.00941	149.539	37.5309	43.6 666	995. 9	994.945	407.265	3.122 97	5.1184 3	63.37 8	418.19 5	1.53 672	24.9	67.7314	366.9 72	99.899 7	76.5	79.8	24.9	33.2	510.1 33	9.838 44	271. 511	0.017 734
12:36:43 PM	656	52982 2	2407. 08	146. 74	1.0094	149.11	37.5281	43.6 536	995. 902	994.945	417.254	3.317 4	5.1161 4	64.80 99	419.30 9	1.54 147	24.9	67.7058	366.6 69	99.899 9	76.57 46	79.8	24.9	33.2	507.4 73	9.745 56	270. 679	0.047 291
12:36:44 PM	656	52982 3	2406. 16	147. 508	1.00941	148.895	37.484	43.6 577	995. 893	994.945	414.299	3.109 28	5.1268 3	65.73 69	418.41 2	1.53 847	24.9	67.7011	366.6 13	99.9	76.59 53	79.8	24.9	33.2	504.7 67	9.704 32	268. 866	0.106 4
12:36:45 PM	656	52982 4	2405. 2	147. 309	1.00941	148.827	37.44	43.6 693	995. 897	995.171	408.652	3.026 03	5.1184 3	65.05 66	420.55 5	1.54 947	24.9	67.7002	366.6 02	99.9	76.59 91	79.8	24.9	32.9 686	502.1 1	9.710 26	266. 761	0.115 271
12:36:46 PM	656	52982 5	2402. 99	147. 246	1.00941	148.803	37.4231	43.6 593	995. 894	994.945	411.77	2.865 22	5.1191 9	65.44 25	421.98 9	1.54 2	24.9	67.7	366.6	99.9	76.59 98	79.8	24.9	32.9 127	499.4 06	9.705 88	264. 834	0.085 714
12:36:47 PM	656	52982 6	2405. 05	147. 102	1.00941	148.742	37.4323	43.6 502	995. 893	994.945	406.996	3.194 94	5.1199 6	66.79 32	420.66 8	1.52 998	24.9	67.6181	365.3 78	99.9	76.6	79.8	24.9	32.9 024	496.6 97	9.689 93	263. 455	0.026 601
12:36:48 PM	656	52982 7	2403. 82	146. 494	1.00941	148.63	37.4404	43.6 543	995. 897	994.945	404.926	3.159 49	5.1161 4	66.64 01	418.40 3	1.53 848	24.9	67.5219	365.1 52	99.9	76.6	79.8	24.9	32.9 794	494.0 55	9.707 59	262. 465	0.076 847
12:36:49 PM	656	52982 8	2404. 66	146. 032	1.00941	148.535	37.4129	43.6 668	995. 899	994.945	410.532	3.209 55	5.1367 7	65.74 22	420.23 1	1.54 166	24.9	67.5041	365.1 1	99.957	76.6	79.8	24.9	32.9 962	491.3 77	9.710 86	261. 932	0.106 4
12:36:50 PM	656	52982 9	2405. 79	146. 198	1.0094	148.45	37.3519	43.6 469	995. 901	994.945	414.423	3.244 36	5.1153 7	65.03 24	419.30 4	1.52 383	24.9	67.5007	365.1 02	100.15 5	76.6	79.8	24.9	32.9 993	488.7 24	9.711 47	261. 812	0.106 4
12:36:51 PM	656	52983 0	2407	146. 569	1.00941	148.334	37.2855	43.6 532	995. 894	994.945	413.493	3.084 76	5.1115 5	64.85 81	420.37 2	1.51 866	24.9	67.5001	365.1	100.19 2	76.6	79.8	24.9	32.9 999	486.0 83	9.655 98	261. 984	0.106 4
12:36:52 PM	656	52983 1	2407. 15	146. 798	1.00942	148.188	37.2413	43.6 685	995. 893	994.945	413.816	3.115 8	5.1184 3	64.21 33	421.75 5	1.54 433	24.9	67.5	364.5 49	100.19 8	76.6	79.8	25.0	32.9	483.3 61	9.642 56	262. 244	0.106

12:36:53 PM	656	52983 2	2406.28	147.202	1.0094	148.066	37.2387	43.6403	995.894	994.945	413.156	3.03469	5.11461	64.5563	418.022	1.5289	24.9	67.5	364.265	100.2	76.6	79.8	25.085	32.9	480.706	9.64007	262.387	0.192118
12:36:54 PM	656	52983 3	2407.36	149.226	1.0094	148.053	37.2965	43.6249	995.891	994.945	410.572	3.04676	5.11155	64.8964	417.891	1.53773	24.9	67.5	364.212	100.2	76.6	79.8	25.0972	32.9	478.026	9.63961	262.223	0.1064
12:36:55 PM	656	52983 4	2405.76	149.317	1.00941	148.227	37.4172	43.6584	995.893	994.945	412.972	3.00243	5.11384	64.5875	418.737	1.54288	24.9	67.5	364.202	99.8412	76.6	79.8	25.0995	32.9	475.293	9.65505	261.712	0.065025
12:36:56 PM	656	52983 5	2403.62	148.318	1.0094	148.598	37.5824	43.6371	995.893	994.945	415.277	2.89079	5.11996	65.2088	420.487	1.53138	24.9	67.5	364.2	99.7262	76.6	79.8	25.0999	32.9	472.633	9.68071	260.905	0.09754
12:36:57 PM	656	52983 6	2407.5	147.244	1.00942	148.989	37.7089	43.6655	995.891	994.945	413.278	3.08695	5.12531	65.5786	420.454	1.54759	24.9	67.5	364.143	99.7048	76.6	79.8	25.1	32.9	469.965	9.68826	260.009	0.1064
12:36:58 PM	656	52983 7	2406.49	146.647	1.00941	149.225	37.7355	43.6324	995.888	994.945	407.899	3.22791	5.11843	65.1817	420.309	1.53637	24.9	67.4387	363.945	99.7009	76.6	79.8	25.1	32.9	467.255	9.67199	259.322	0.106404
12:36:59 PM	656	52983 8	2404.7	146.648	1.00941	149.307	37.6496	43.6371	995.891	994.945	411.93	2.89386	5.11461	65.4891	421.588	1.53365	24.9	67.4072	363.908	99.7002	76.6	79.8	25.1	32.9	464.556	9.69407	258.995	0.1064
12:37:00 PM	656	52983 9	2404.04	146.657	1.00941	149.281	37.5059	43.646	995.886	994.945	406.709	2.99071	5.11614	66.0451	421.267	1.53332	24.9	67.4013	363.902	99.4543	76.6	79.8	25.1718	32.9	461.917	9.67961	259.22	0.1064
12:37:01 PM	656	52984 0	2405.84	147.254	1.00941	149.118	37.3836	43.6394	995.885	994.945	408.421	3.17533	5.1169	66.2324	420.919	1.52727	24.9	67.4002	363.9	99.1657	76.6	79.8	25.1948	32.9	459.199	9.7205	259.873	0.09754
12:37:02 PM	656	52984 1	2405.3	147.034	1.00941	148.819	37.3316	43.6367	995.885	994.945	413.122	2.80703	5.11461	66.913	422.125	1.53349	24.9	67.4	363.9	99.1122	76.6	79.8	25.199	32.9	456.554	9.74115	260.701	0.1064
12:37:03 PM	656	52984 2	2405.8	147.276	1.00941	148.515	37.3348	43.6448	995.887	994.945	411.261	2.87972	5.12454	66.8322	422.077	1.53566	24.9	67.4	363.08	99.1023	76.6	79.8	25.1998	32.9	453.873	9.72457	261.57	0.02069
12:37:04 PM	656	52984 3	2408.65	147.43	1.00942	148.363	37.3755	43.6543	995.888	994.945	415.314	3.10865	5.13065	66.3603	419.622	1.54153	24.9	67.4	362.852	99.1004	76.6	79.8	25.2	32.9	451.265	9.72287	262.152	0.1064
12:37:05 PM	656	52984 4	2407.23	148.194	1.00941	148.397	37.4274	43.6205	995.888	994.945	412.232	3.18233	5.12836	66.2244	419.606	1.53479	24.9	67.4	362.81	99.1001	76.6	79.8	25.2	32.9	448.541	9.73132	262.471	0.1064
12:37:06 PM	656	52984 5	2404.28	147.173	1.00941	148.543	37.4853	43.643	995.888	994.945	411.052	3.29336	5.11919	65.8191	421.172	1.53704	24.9	67.4	362.802	99.1	76.62	79.8	25.2	32.9	445.843	9.72507	262.468	0.085714
12:37:07 PM	656	52984 6	2405.45	146.877	1.00941	148.691	37.5277	43.6494	995.89	994.945	415.378	3.23155	5.11537	65.6758	421.298	1.54222	24.9	67.4	362.8	99.1	76.766	79.9043	25.2	32.9	443.146	9.70823	262.219	0.1064
12:37:08 PM	656	52984 7	2407.36	146.141	1.0094	148.746	37.5188	43.65	995.897	994.945	409.658	3.40152	5.11919	65.3269	423.015	1.54669	24.9	67.4	362.8	99.8893	76.7938	79.9823	25.241	32.9	440.492	9.70706	261.926	0.09754
12:37:09 PM	656	52984 8	2405.47	146.714	1.0094	148.7	37.4626	43.6406	995.899	994.945	408.471	3.24444	5.11232	65.1922	421.239	1.53391	24.9	67.4	362.8	100.142	76.7989	79.9967	25.2791	32.9	437.774	9.70788	261.693	0.183251

