# IMPACT OF ENVIRONMENTAL FACTORS ON THE ELECTRICAL ENERGY OUTPUT OF COMBINED CYCLE POWER PLANT

STAT 3232: Data Analysis and Preparation of Statistical Reports

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#### **ABSTRACT**

This statistical regression analysis report explores the intricate relationship between Ambient Temperature (AT), Ambient Pressure (AP), Relative Humidity (RH), and Exhaust Vacuum (V) with respect to cycle power plant performance. This study aims to unravel the complex interplay of these variables and their influence on power plant electrical energy output, efficiency, and emissions. Through a rigorous analysis, we have identified significant findings and correlations. The primary research problem is to understand how Ambient Temperature (AT), Ambient Pressure (AP), Relative Humidity (RH), and Exhaust Vacuum (V) impact the performance of cycle power plants, with a focus on electrical energy output, efficiency, and emissions.

Key Objectives of this report are to identify the correlation and utilize regression analysis to identify and quantify the statistical correlations between Ambient Temperature (AT), Ambient Pressure (AP), Relative Humidity (RH), and Exhaust Vacuum (V). Development of robust regression models to predict power plant performance based on Ambient Temperature (AT), Ambient Pressure (AP), Relative Humidity (RH), and Exhaust Vacuum (V) providing a valuable tool for optimization and prediction is also another objective of this analysis.

This study employs advanced regression analysis techniques to model the relationships between the aforementioned variables and power plant performance metrics. We utilize a comprehensive dataset to derive statistical insights and develop predictive models that serve as a foundation for understanding and optimizing cycle power plant operations. By applying robust statistical methodologies, this research provides valuable guidance for the energy industry's pursuit of cleaner, more efficient power generation.

## Keywords

- Significance,
- AT (Ambient Temperature),
- AP (Ambient Pressure),
- RH (Relative Humidity),
- V (Exhaust Vacuum),
- EP (Net hourly electrical energy output)

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#### 01 INTRODUCTION

In an era where energy efficiency, environmental sustainability, and reliable power generation are of paramount importance, the statistical regression analysis of combined cycle power plant has emerged as a key area of study. Cycle power plants, which encompass a variety of energy generation technologies, are subject to a multitude of variables that influence their performance, operational efficiency and environmental impact of these power plants. The dataset contains data collected from a combined cycle power plant when the power plant was set to work with full load. Features consists of hourly ambient variables Ambient Temperature (AT) in Celsius(°C), Ambient Pressure (AP) in milibar, Relative Humidity (RH) percentage, and Exhaust Vacuum (V) in cmHg to predict the net hourly electrical energy output of the plant (EP) in MW. A combined cycle power plant is composed of gas turbines, steam turbines and heat recovery steam generators. In a combined cycle power plant, the electricity is generated by gas and steam turbines, which are combined in one cycle, and is transferred from one turbine to another. While the vacuum is collected from and has effect on the steam turbine, the other three ambient variables effect the gas turbine performance.

This statistical report embarks on an exploration of the complex relationship between combined cycle power plant performance and the influential variables of Ambient Temperature (AT), Ambient Pressure (AP), Relative Humidity (RH), and Exhaust Vacuum (V) under ninety-five percent confidence level throughout the analysis. These factors collectively serve as crucial determinants of energy output, operational costs, and emissions. By delving into the statistical interplay of these elements, we aim to provide a comprehensive understanding of how each variable impacts power plant efficiency and environmental outcomes. The insights gained from this analysis will not only facilitate the optimization of energy production but also contribute to the development of greener, more sustainable power generation practices.

Amidst the ongoing global drive for cleaner energy and the ever-growing demand for electricity, it is imperative to scrutinize the performance of cycle power plants in great detail. This report endeavours to uncover vital statistical trends and findings that can guide the decisions of researchers, engineers, and policymakers within the energy sector. As we delve into the intricate web of correlations and dependencies between

Ambient Temperature (AT), Ambient Pressure (AP), Relative Humidity (RH), Exhaust Vacuum (V), and power plant performance, we aim to provide actionable insights that will drive innovation and progress in the dynamic realm of cycle power generation.

#### 02 STATISTICAL THEORY

## 2.1 What Is Regression Analysis?

Regression analysis is a set of statistical methods used for the estimation of relationships between a dependent variable and one or more independent variables. It can be utilized to assess the strength of the relationship between variables and for modelling the future relationship between them.

Regression analysis includes several variations, such as linear, multiple linear, and nonlinear. The most common models are simple linear and multiple linear. Nonlinear regression analysis is commonly used for more complicated data sets in which the dependent and independent variables show a nonlinear relationship.

Regression analysis offers numerous applications in various disciplines, including finance.

#### 2.2 Linear Regression Analysis

Linear regression analysis is based on six fundamental assumptions:

The dependent and independent variables show a linear relationship between the slope and the intercept.

- The independent variable is not random.
- The value of the residual (error) is zero.
- The value of the residual (error) is constant across all observations.
- The value of the residual (error) is not correlated across all observations.
- The residual (error) values follow the normal distribution.

#### 2.3 Simple Linear Regression

Simple linear regression is a model that assesses the relationship between a dependent variable and an independent variable. The simple linear model is expressed using the following equation:

$$Y = \beta_0 + \beta_1 X + \varepsilon$$
 Equation 1

Where:

Y – Dependent variable

X – Independent (explanatory) variable

 $\beta_0$  – Intercept

 $\beta_1$  – Slope

 $\varepsilon$  – Random error term

In order to properly interpret the output of a regression model, the following main assumptions about the underlying data process of what you analyzing must hold:

The relationship between variables is linear

Homoscedasticity, or that the variance of the variables and error term must remain constant

All explanatory variables are independent of one another

All variables are normally-distributed

## 2.4 Multiple Linear Regression

Multiple linear regression analysis is essentially similar to the simple linear model, with the exception that multiple independent variables are used in the model. The mathematical representation of multiple linear regression is:

$$Y = \beta_0 + \beta_1 X_1 + \beta_2 X_2 + \dots + \beta_n X_n + \varepsilon$$
 Equation 2

Where:

Y – Dependent variable

 $X_1, X_2, \dots, X_n$  – Independent (explanatory) variables

 $\beta_0$  – Intercept

 $\beta_1,\beta_2,...\,,\beta_n$  — Slopes of each explanatory variables

 $\epsilon$  – Random error term

Multiple linear regression follows the same conditions as the simple linear model. However, since there are several independent variables in multiple linear analysis, there is another mandatory condition for the model: Non-collinearity: Independent variables should show a minimum correlation with each other. If the independent variables are highly correlated with each other, it will be difficult to assess the true relationships between the dependent and independent variables. The multiple regression model is based on the following assumptions:

- There is a linear relationship between the dependent variables and the independent variables
- The independent variables are not too highly correlated with each other
- yi observations are selected independently and randomly from the population
- Residuals should be normally distributed with a mean of 0 and variance (Taylor, 2022)

## 2.5 Scatter Plot Matrix

Scatter plot matrix shows the relationships between all the variables in the dataset. An increasing or decreasing pattern between two variables indicate a linear relationship or correlation between those two variables.

#### 2.6 Correlation Matrix

Correlation matrix shows the correlations of each variable with other variables. Correlation between two variables is higher than 0.7 implies that there is a high correlation between those two variables.

## 2.7 Significance of A Regression Model

Significance of a regression model is determined by the p value of the model.

Hypothesis

H<sub>0</sub>: Regression model is not significant

H<sub>1</sub>: Regression model is significant

P value of the model is less than considered level of significance indicates the significance of the model.

## 2.8 Significances of A Regression Model Coefficients

Significances of a regression model coefficients are determined by the p value of the model.

Hypothesis

H<sub>0</sub>: Coefficient is not significant

H<sub>1</sub>: Coefficient is significant

P value of the corresponding coefficient is less than considered level of significance indicates the significance of the coefficient.

#### 2.9 Coefficient of Determination

The coefficient of determination (R<sup>2</sup> or r-squared) is a statistical measure in a regression model that determines the proportion of variance in the dependent variable that can be explained by the independent variable. In other words, the coefficient of determination tells one how well the data fits the model (the goodness of fit).

Although the coefficient of determination provides some useful insights regarding the regression model, one should not rely solely on the measure in the assessment of a statistical model. It does not disclose information about the causation relationship between the independent and dependent variables, and it does not indicate the correctness of the regression model. Therefore, the user should always draw conclusions about the model by analyzing the coefficient of determination together with other variables in a statistical model.

Mathematically, the coefficient of determination can be found using the following formula:

Coefficient of Determination(
$$R^2$$
) =  $1 - \frac{SS_{Regression}}{SS_{Total}}$  Equation 3

Where:

SS<sub>Regression</sub> – The sum of squares due to regression (explained sum of squares)

 $SS_{Total}$  – The total sum of squares

The coefficient of determination can take any values between 0 to 1. In addition, the statistical metric is frequently expressed in percentages. (Corporate Finance Institute Team, n.d.)

#### 2.10 Diagnostic Checking

The model fitting is just the first part of the story for regression analysis since this is all based on certain assumptions. Regression diagnostics are used to evaluate the model assumptions and investigate whether or not there are observations with a large, undue influence on the analysis. Again, the assumptions for linear regression are:

- Linearity: The relationship between dependent and independent variables are linear
- Homoscedasticity: The variances of residual are the same for all data
- Independence: Observations are independent of each other
- Normality: For any fixed value of model residuals are normally distributed
- Multicolinearity: There should not be any relationship between independent variables

## 2.10.1 Diagnostic Plots

The diagnostic plots show residuals in four different ways:

- Residuals vs Fitted: Used to check the linear relationship assumptions. A
  horizontal line, without distinct patterns is an indication for a linear
  relationship.
- Normal Q-Q: Used to examine whether the residuals are normally distributed.
   It's better if residual points follow the straight dashed line.
- Scale-Location (or Spread-Location). Used to check the homogeneity of variance of the residuals (homoscedasticity): Horizontal line with equally spread points is a good indication of homoscedasticity.
- Residuals vs Leverage: Used to identify influential cases, that is extreme
  values that might influence the regression results when included or excluded
  from the analysis. This plot will be described further in the next sections.

## 2.10.2 Linearity of The Data

The linearity assumption can be checked by inspecting the Residuals Vs Fitted plot.

The residual plot with no fitted pattern indicates that he relationship between two variables is linear.

## 2.10.3 Randomness of Residuals

The randomness of residuals assumption can be checked by inspecting the Residuals Vs Fitted plot. The residual plot with randomly scattered data indicates that residuals are random.

#### 2.10.4 Homogeneity of Variance

This assumption can be checked by examining the scale-location plot, also known as the spread-location plot. Residuals that are spread equally along the ranges of predictors indicates homoscedasticity of variances in the model.

## 2.10.5 Normality of Residuals

The QQ plot of residuals can be used to visually check the normality assumption. The normal probability plot of residuals should approximately follow a straight line. (kassambara, 2018)

#### 2.10.6 Independence of Residuals

The easiest way to check the assumption of independence is using the Durbin-Watson test. We can conduct this test using R's built-in function called durbinWatsonTest on our model. Running this test will give you an output with a p-value, which will help you determine whether the assumption is met or not.

The null hypothesis states that the errors are not auto-correlated with themselves (they are independent). Thus, if we achieve a p-value > 0.05, we would fail to reject the null hypothesis. This would give us enough evidence to state that our independence assumption is met. (Khan, 2021)

## 2.10.7 Multicolinearity

In regression analysis, multicollinearity occurs when two or more predictor variables are highly correlated with each other, such that they do not provide unique or independent information in the regression model.

If the degree of correlation is high enough between predictor variables, it can cause problems when fitting and interpreting the regression model.

The most straightforward way to detect multicollinearity in a regression model is by calculating a metric known as the variance inflation factor, often abbreviated VIF.VIF measures the strength of correlation between predictor variables in a model. It takes on a value between 1 and positive infinity.

We use the following rules of thumb for interpreting VIF values:

VIF = 1: There is no correlation between a given predictor variable and any other predictor variables in the model.

VIF between 1 and 5: There is moderate correlation between a given predictor variable and other predictor variables in the model.

VIF > 5: There is severe correlation between a given predictor variable and other predictor variables in the model

(Zach, 2022)

## 03 METHODOLOGY AND RESULTS

Dependent variable: Net hourly electrical energy output (EP)

Independent variables:

- Ambient Temperature (AT)
- Ambient Pressure (AP)
- Relative Humidity (RH)
- Exhaust Vacuum (V)

Dataset was read into the software and descriptive statistics, scatter plot matrix and correlation matrix were obtained.

# **3.1 Descriptive Statistics**

Table 1 : Descriptive Statistics

Statistic	AT	V	AP	RH	EP
Minimum	4.11	35.57	994.2	32.97	425.2
First Quartile	13.77	41.45	1008.5	62.68	438.9
Median	20.57	50.83	1012.5	74.00	451.3
Mean	19.74	54.09	1012.9	72.64	454.1
Third Quartile	25.91	66.55	1017.6	84.55	468.5
Maximum	34.33	79.74	1033.0	100.15	495.2
Variance	58.50337	166.3153	37.97586	224.9981	294.1408
Standard Deviation	7.64875	12.89633	6.162456	14.99994	17.15053
Range	4.11 to	35.57 to	994.17 to	32.97 to	425.18 to
Kange	34.33	79.74	1032.98	100.15	495.23
Interquartile Range	12.15	25.09	9.0825	21.8675	29.6825

## 3.2 Scatter Plot Matrix

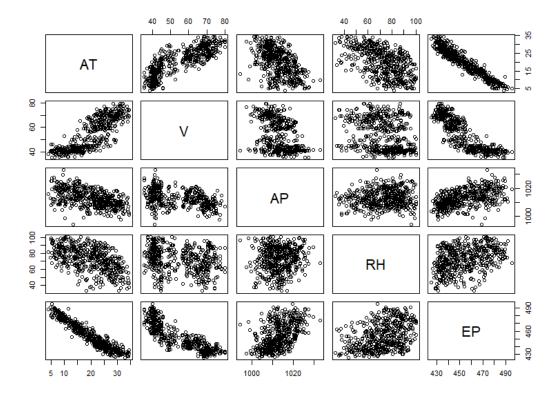


Figure 1 : Scatter Plot Matrix

Scatter plot matrix indicates strong negative linear relationship between EP Vs AT and EP Vs V and week positive linear relationship between EP Vs AP and EP Vs RH.

## **3.3 Correlation Matrix**

Table 2 : Correlation Matrix

Variable	AT	V	AP	RH	EP
AT	1.0000000	0.8325873	-0.51192125	-0.52708682	-0.9533148
V	0.8325873	1.0000000	-0.39764411	-0.26619260	-0.8611522
AP	-0.5119212	-0.3976441	1.00000000	0.08551756	0.5110355
RH	-0.5270868	-0.2661926	0.08551756	1.00000000	0.3866161
EP	-0.9533148	-0.8611522	0.51103553	0.38661609	1.0000000

Correlation between EP and AT, EP and V have high negative correlations -0.9533148 and -0.8611522 respectively. Correlations between EP and AP, EP and RH has low

positive values 0.510355 and 0.3866161 respectively. This indicates AT, V are highly negatively correlated with EP and AP, RH are moderately positively correlated with EP.

Then linear regression analysis was conducted using all explanatory variables.

## 3.4 Regression Model with All Explanatory Variables

Formula:

$$EP = 496.38392 - 1.99244 \times AT - 0.20135 \times V + 0.01789 \times AP - 0.14018 \times RH$$
 Equation 4

## Hypothesis

H<sub>0</sub>: Regression model is not significant

H<sub>1</sub>: Regression model is significant

Table 3: Important Statistics of Regression Model with all Explanatory Variables

Important Statistics of the Model	Value of the Statistic
p-value	< 2.2e-16
Multiple R-squared	0.9334

P-Value of the model is less than 0.05. That is obtained model is significant at five present level of significance. Multiple R-squared value implies that 93.34 percent of variation in net hourly electrical energy output can be explained by the model obtained.

## Hypothesis

H<sub>0</sub>: Coefficient of the regression model is not significant

H<sub>1</sub>: Coefficient of the regression model is significant

Table 4: Estimates of Coefficients of Regression Model with All Explanatory Variables

	Estimate	Std. Error	t value	Pr(> t )
Intercept	496.38392	40.62265	12.219	< 2e-16
тистеері	170.30372	10.02203	12.21)	< 2C 10
AT	-1.99244	0.06412	-31.072	< 2e-16
V	-0.20135	0.03038	-6.627	8.96e-11
	0.01=00	0.000.40	0.454	0
AP	0.01789	0.03942	0.454	0.65
RH	-0.14018	0.01756	-7.981	1.02e-14

P-Value of variable AP is greater than 0.05 while that of others are less than 0.05. Therefore, the variables AT, V and RH are significant and AP is insignificant at five percent level of significance.

Therefore, step-wise regression modelling technique was used to find the best fit model for the data.

## 3.6 Step-Wise Regression

Table 5: AIC Values of All the Models after Step-Wise Regression

Model Formula	AIC Value
EP ~ 1	2843.03
EP ~ AT	1647.63
EP ~ AT + RH	1535.65
$EP \sim AT + RH + V$	1494.92

Fourth model has the lowest AIC value. Therefore, the best fitted model is the fourth model in the table.

## 3.7 Best Fit Model of Step-Wise Regression

Formula:

 $EP = 514.80849 - 2.00554 \times AT - 0.19901 \times V - 0.14253 \times RH$  Equation 5

## Hypothesis

H<sub>0</sub>: Regression model is not significant

H<sub>1</sub>: Regression model is significant

Table 6: Important Statistics of Best Fitted Regression Model after Step-Wise Regression

Important Statistics of the Model	Value of the Statistic
p-value	< 2.2e-16
Multiple R-squared	0.9333

P-Value of the model is less than 0.05. That is obtained model is significant at five present level of significance. Multiple R-squared value implies that 93.33 percent of variation in net hourly electrical energy output can be explained by the model obtained.

## Hypothesis

H<sub>0</sub>: Coefficient of the regression model is not significant

H<sub>1</sub>: Coefficient of the regression model is significant

Table 7: Estimates of Coefficients of Best Fitted Regression Model after Step-Wise Regression

	Estimate	Std. Error	t value	Pr(> t )
Intercept	514.80849	1.56717	328.496	< 2e-16
AT	-2.00554	0.05722	-35.051	< 2e-16
RH	-0.14253	0.01677	-8.501	< 2e-16
V	-0.19901	0.02992	-6.652	7.67e-11

P-Values of all explanatory variables are less than 0.05. Therefore, the variables AT, V and RH are significant at five percent level of significance.

Hence the obtained model (EP=514.80849-2.00554×AT-0.19901×V-0.14253×RH) is a significant model for predictions. Further model adequacy checking was conducted.

# 3.8 Model Diagnostic Checking

# Randomness of Residuals and Linearity

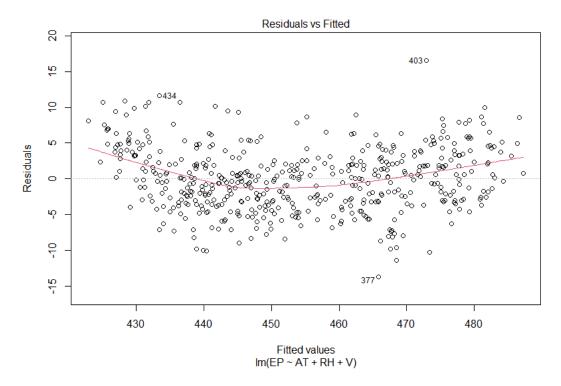


Figure 2: Residuals Vs Fitted Values Plot of Best Fitted Model

Data are approximately randomly scattered in a horizontal band without distinct patterns around the red line. Therefore, it can be assumed to have randomly distributed residuals and linear relationship between response and predictors.

# **Normality**

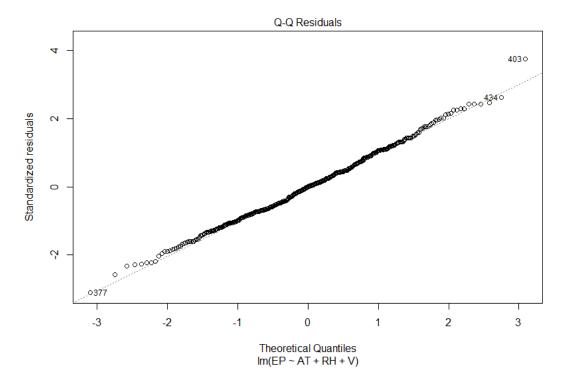


Figure 3: Normal Q-Q Plot of Best Fitted Model

Residuals data are almost scattered in the straight line with few outliers. However, residuals can be assumed to be normally distributed.

## **Homoscedasticity**

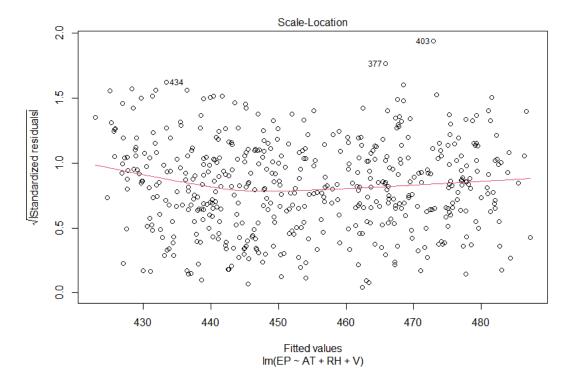


Figure 4 : Scale-Location Plot of Best Fitted Model

All data are spread evenly in the plot. This indicates that homoscedasticity exist in this model.

# Independence of Residuals

# Hypothesis

H<sub>0</sub>: Residuals are independent

H<sub>1</sub>: Residuals are not independent

Table 8: Durbin-Watson Statistics of Best Fitted Model

lag	Autocorrelation	D-W Statistic	p-value
1	-0.03175895	2.062147	0.524

P-Value of Durbin Watson test is greater than 0.05. That is residuals are independent at five percent level of significance.

# **Multicolinearity**

Table 9: VIF Values of Best Fitted Model

variable	VIF
variable	VII
AT	4.845477
AI	4.043477
RH	1.599955
V	3.766169

All the VIF values are less than 5 implies that there is no any multicollinearity in this model.

Since all the assumptions of multiple linear regression model were satisfied by the obtained model, the model (EP= $514.80849-2.00554\times AT-0.19901\times V-0.14253\times RH$ ) can be considered adequate for predictions.

#### 04 CONCLUSION

The statistical regression analysis was conducted to predict the net hourly electrical energy output based on Ambient Temperature (AT), Exhaust Vacuum (V), Ambient Pressure (AP), Relative Humidity (RH). The initial model which was included all the explanatory variables was not a good fit model as one explanatory variable was not significant. Hence step-wise regression was carried out to determine the best fit model for the data. The final regression model, obtained after performing stepwise regression, is given by the formula EP=514.80849-2.00554×AT-0.19901×V-0.14253×RH was a significant model with significant coefficients. All the linear regression assumptions were satisfied by the above mentioned model.

The R-squared value showed an excellent fit, suggesting that the model explained approximately 93.33 percent of the variability in the net hourly electrical energy output.

The final model obtained through stepwise regression is recommended for practical applications. It offers more predictive power comparing to the initial model with all explanatories while being simpler to understand, making it easier for decision-makers to interpret and utilize.

Since the fitted model assumes a linear relationship between the variables, which may not fully capture the complexity of the power generation process. Future research could explore nonlinear relationships also. Changing the confidence level might affect the final result of this analyse as it is taken as ninety-five throughout the analysis. The dataset may not account for all potential variables influencing power output. External factors which are not included in the dataset might affect the accuracy of the model obtained in this analysis. Further research can explore more advanced modelling techniques, including machine learning methods, to assess if additional predictive power can be achieved. Consideration of time-series data could provide insights into temporal trends in power output and environmental conditions.

In practical terms, this regression model provides valuable insights for controlling and optimizing power generation in a Combined Cycle Power Plant. By adjusting the environmental factors represented by Ambient Temperature, Relative Humidity, and Exhaust Vacuum, operators can make informed decisions to enhance the plant's efficiency and reduce energy costs. However, further analysis of the model's

performance and potential refinements may be necessary for comprehensive decision-making in a real-world operational setting.

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#### 06 APPENDIX

## 6.1 R Syntaxes

> sd(V)

```
> ccpp=read.csv(file.choose())
> attach (ccpp)
> str(ccpp)
'data.frame': 500 obs. of 5 variables:
$ AT: num 8.34 23.64 29.74 19.07 11.8 ...
$ V : num 40.8 58.5 56.9 49.7 40.7 ...
$ AP: num 1011 1011 1007 1007 1017 ...
$ RH: num 90 74.2 41.9 76.8 97.2 ...
$ EP: num 480 446 439 453 464 ...
> summary(ccpp)
     ΑT
                                 ΑP
                                                RH
Min. : 4.11 Min. :35.57 Min. : 994.2 Min. : 32.97
Median :20.57 Median :50.83 Median :1012.5
                                           Median : 74.00
                                           Mean : 72.64
Mean :19.74 Mean :54.09 Mean :1012.9
3rd Qu.:25.91 3rd Qu.:66.55 3rd Qu.:1017.6
                                           3rd Qu.: 84.55
                                           Max. :100.15
Max. :34.33 Max. :79.74 Max. :1033.0
     EΡ
Min. :425.2
1st Qu.:438.9
Median :451.3
Mean :454.1
3rd Qu.:468.5
Max. :495.2
> var(AT)
[1] 58.50337
> var(V)
[1] 166.3153
> var(AP)
[1] 37.97586
> var(RH)
[1] 224.9981
> var(EP)
[1] 294.1408
> sd(AT)
[1] 7.64875
```

```
[1] 12.89633
```

- > sd(AP)
- [1] 6.162456
- > sd(RH)
- [1] 14.99994
- > sd(EP)
- [1] 17.15053
- > range(AT)
- [1] 4.11 34.33
- > range(V)
- [1] 35.57 79.74
- > range(AP)
- [1] 994.17 1032.98
- > range(RH)
- [1] 32.97 100.15
- > range(EP)
- [1] 425.18 495.23
- > IQR(AT)
- [1] 12.15
- > IQR(V)
- **[1]** 25.09
- > IQR(AP)
- **[1]** 9.0825
- > IQR(RH)
- **[1]** 21.8675
- > IQR(EP)
- [1] 29.6825
- > plot(ccpp)
- > cor(ccpp)

AT V AP RH EP

AT 1.0000000 0.8325873 -0.51192125 -0.52708682 -0.9533148

V 0.8325873 1.0000000 -0.39764411 -0.26619260 -0.8611522

AP -0.5119212 -0.3976441 1.00000000 0.08551756 0.5110355

RH -0.5270868 -0.2661926 0.08551756 1.00000000 0.3866161

EP -0.9533148 -0.8611522 0.51103553 0.38661609 1.0000000

- > m=lm(EP~.,data=ccpp)
- > summary(m)

## Call:

lm(formula = EP ~ ., data = ccpp)

#### Residuals:

Min 1Q Median 3Q Max -13.660 -3.126 -0.034 2.946 16.461

#### Coefficients:

Estimate Std. Error t value Pr(>|t|)

---

Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 4.445 on 495 degrees of freedom Multiple R-squared: 0.9334, Adjusted R-squared: 0.9328 F-statistic: 1734 on 4 and 495 DF, p-value: < 2.2e-16

#### > null=lm(EP~1, data=ccpp)

> mStep=step(null,scope=list(upper=m),direction="both")

Start: AIC=2843.03

EP ~ 1

Step: AIC=1647.63

EP ~ AT

Df Sum of Sq RSS AIC
+ RH 1 2728 10656 1535.7
+ V 1 2176 11209 1560.9
+ AP 1 105 13279 1645.7
<none> 13385 1647.6
- AT 1 133392 146776 2843.0

Step: AIC=1535.65

#### EP ~ AT + RH

Df Sum of Sq RSS AIC
+ V 1 873 9784 1494.9
<none> 10656 1535.7
+ AP 1 9 10647 1537.2
- RH 1 2728 13385 1647.6
- AT 1 114181 124837 2764.1

Step: AIC=1494.92
EP ~ AT + RH + V

> summary (mStep)

#### Call:

lm(formula = EP ~ AT + RH + V, data = ccpp)

#### Residuals:

Min 1Q Median 3Q Max -13.7695 -3.0906 -0.0185 2.9138 16.6160

#### Coefficients:

Estimate Std. Error t value Pr(>|t|)

---

Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 4.441 on 496 degrees of freedom Multiple R-squared: 0.9333, Adjusted R-squared: 0.9329 F-statistic: 2315 on 3 and 496 DF, p-value: < 2.2e-16

#### > plot(mStep,1)

- > plot(mStep,2)
- > plot(mStep,3)
- > library(car)

Loading required package: carData

> durbinWatsonTest(mStep)

lag Autocorrelation D-W Statistic p-value
1 -0.03175895 2.062147 0.524

Alternative hypothesis: rho != 0

> vif(mStep)

AT RH V

4.845477 1.599955 3.766169

## **6.2 Dataset**

Table 10 : Dataset of the Analysis

AT	V	AP	RH	EP
8.34	40.77	1010.84	90.01	480.48
23.64	58.49	1011.4	74.2	445.75
29.74	56.9	1007.15	41.91	438.76
19.07	49.69	1007.22	76.79	453.09
11.8	40.66	1017.13	97.2	464.43
13.97	39.16	1016.05	84.6	470.96
22.1	71.29	1008.2	75.38	442.35
14.47	41.76	1021.98	78.41	464
31.25	69.51	1010.25	36.83	428.77
6.77	38.18	1017.8	81.13	484.31
28.28	68.67	1006.36	69.9	435.29
22.99	46.93	1014.15	49.42	451.41
29.3	70.04	1010.95	61.23	426.25
8.14	37.49	1009.04	80.33	480.66
16.92	44.6	1017.34	58.75	460.17
22.72	64.15	1021.14	60.34	453.13
18.14	43.56	1012.83	47.1	461.71
11.49	44.63	1020.44	86.04	471.08
9.94	40.46	1018.9	68.51	473.74

23.54	41.1	1002.05	38.05	448.56
14.9	52.05	1015.11	77.33	464.82
33.8	64.96	1004.88	49.37	427.28
25.37	68.31	1011.12	70.99	441.76
7.29	41.04	1024.06	89.19	474.71
13.55	40.71	1019.13	75.44	467.21
6.39	35.57	1025.53	77.23	487.69
26.64	62.44	1011.81	72.46	438.67
7.84	41.39	1018.21	91.92	485.66
21.82	58.66	1011.71	64.37	452.16
27.17	67.45	1015.67	49.03	429.87
13.42	41.23	994.17	95.79	468.82
20.77	56.85	1012.4	83.63	442.85
8.29	36.08	1020.38	81.53	483.26
30.98	67.45	1015.18	45.4	433.59
31.96	71.29	1008.39	47.51	433.04
15.83	52.75	1024.3	58.34	458.6
22.56	70.79	1005.85	93.09	435.14
25.91	75.6	1018.23	62.65	443.2
8.24	39.61	1017.99	78.42	477.9
24.66	60.29	1018	59.56	445.26
29.31	68.67	1006.18	63.38	435.57
21.48	66.91	1008.58	84.49	447.42
18.28	44.71	1016.99	33.71	462.28
26.96	65.34	1015.05	46.93	441.81
16.01	65.46	1014	87.68	454.16
27.37	63.73	1009.79	65.25	437.24
16.3	39.63	1004.64	85.61	464.11
23.8	48.6	1002.43	67.32	440.89
8.19	41.66	1016.57	75.38	485.2
25.28	67.69	1009.05	68.54	445.34
21.47	70.32	1011.72	88.36	440
30.54	67.45	1014.37	32.97	431.35
1	•			•

25.82         72.39         1003.4         86.33         432.98           31.12         69.13         1009.61         56.54         429.41           15.99         39.63         1006.09         89.92         464.95           8.42         42.28         1008.4         87.78         481.91           23.7         69.23         1011.73         73.18         437.15           15.71         40.12         1012.81         97.46         462.6           29.11         74.9         1003.31         74.01         432.43           23.73         61.02         1009.71         78.7         442.22           28.26         65.34         1014.56         43.4         441.03           15.92         41.2         1016.04         73.37         468.91           33.4         70.8         1009.17         57.01         432.46           31.92         68.3         1015.58         41.55         430.07           26.87         74.99         1002.48         71.91         437.78           5.23         40.78         1023.07         66.95         462.19           17.74         50.88         1015.56         89.78         457.71	18.3	44.06	1017.95	63.24	456.32
15.99         39.63         1006.09         89.92         464.95           8.42         42.28         1008.4         87.78         481.91           23.7         69.23         1011.73         73.18         437.15           15.71         40.12         1012.81         97.46         462.6           29.11         74.9         1003.31         74.01         432.43           23.73         61.02         1009.71         78.7         442.22           28.26         65.34         1014.56         43.4         441.03           15.92         41.2         1016.04         73.37         468.91           33.4         70.8         1009.17         57.01         432.46           31.92         68.3         1015.58         41.55         430.07           26.87         74.99         1002.48         71.91         437.78           5.23         40.78         1025.13         92.74         483.12           15.72         41.76         1023.07         66.95         462.19           17.74         50.88         1015.56         89.78         457.71           27.13         59.54         1004.33         73.27         438.32	25.82	72.39	1003.4	86.33	432.98
8.42         42.28         1008.4         87.78         481.91           23.7         69.23         1011.73         73.18         437.15           15.71         40.12         1012.81         97.46         462.6           29.11         74.9         1003.31         74.01         432.43           23.73         61.02         1009.71         78.7         442.22           28.26         65.34         1014.56         43.4         441.03           15.92         41.2         1016.04         73.37         468.91           33.4         70.8         1009.17         57.01         432.46           31.92         68.3         1015.58         41.55         430.07           26.87         74.99         1002.48         71.91         437.78           5.23         40.78         1025.13         92.74         483.12           15.72         41.76         1023.07         66.95         462.19           17.74         50.88         1015.56         89.78         457.71           27.13         59.54         1004.33         73.27         438.32           25.82         66.49         1013.2         60.32         434.35	31.12	69.13	1009.61	56.54	429.41
23.7         69.23         1011.73         73.18         437.15           15.71         40.12         1012.81         97.46         462.6           29.11         74.9         1003.31         74.01         432.43           23.73         61.02         1009.71         78.7         442.22           28.26         65.34         1014.56         43.4         441.03           15.92         41.2         1016.04         73.37         468.91           33.4         70.8         1009.17         57.01         432.46           31.92         68.3         1015.58         41.55         430.07           26.87         74.99         1002.48         71.91         437.78           5.23         40.78         1025.13         92.74         483.12           15.72         41.76         1023.07         66.95         462.19           17.74         50.88         1015.56         89.78         457.71           27.13         59.54         1004.33         73.27         438.32           25.82         66.49         1013.2         60.32         434.35           34.2         68.14         1002.7         56.09         427.05	15.99	39.63	1006.09	89.92	464.95
15.71         40.12         1012.81         97.46         462.6           29.11         74.9         1003.31         74.01         432.43           23.73         61.02         1009.71         78.7         442.22           28.26         65.34         1014.56         43.4         441.03           15.92         41.2         1016.04         73.37         468.91           33.4         70.8         1009.17         57.01         432.46           31.92         68.3         1015.58         41.55         430.07           26.87         74.99         1002.48         71.91         437.78           5.23         40.78         1025.13         92.74         483.12           15.72         41.76         1023.07         66.95         462.19           17.74         50.88         1015.56         89.78         457.71           27.13         59.54         1004.33         73.27         438.32           25.82         66.49         1013.2         60.32         434.35           34.2         68.14         1002.7         56.09         427.05           19.13         68.61         1010.65         94.92         448.69	8.42	42.28	1008.4	87.78	481.91
29.11         74.9         1003.31         74.01         432.43           23.73         61.02         1009.71         78.7         442.22           28.26         65.34         1014.56         43.4         441.03           15.92         41.2         1016.04         73.37         468.91           33.4         70.8         1009.17         57.01         432.46           31.92         68.3         1015.58         41.55         430.07           26.87         74.99         1002.48         71.91         437.78           5.23         40.78         1025.13         92.74         483.12           15.72         41.76         1023.07         66.95         462.19           17.74         50.88         1015.56         89.78         457.71           27.13         59.54         1004.33         73.27         438.32           25.82         66.49         1013.2         60.32         434.35           34.2         68.14         1002.7         56.09         427.05           19.13         68.61         1010.65         94.92         448.69           11.77         41.06         1021.45         76.63         475.88	23.7	69.23	1011.73	73.18	437.15
23.73         61.02         1009.71         78.7         442.22           28.26         65.34         1014.56         43.4         441.03           15.92         41.2         1016.04         73.37         468.91           33.4         70.8         1009.17         57.01         432.46           31.92         68.3         1015.58         41.55         430.07           26.87         74.99         1002.48         71.91         437.78           5.23         40.78         1025.13         92.74         483.12           15.72         41.76         1023.07         66.95         462.19           17.74         50.88         1015.56         89.78         457.71           27.13         59.54         1004.33         73.27         438.32           25.82         66.49         1013.2         60.32         434.35           34.2         68.14         1002.7         56.09         427.05           19.13         68.61         1010.65         94.92         448.69           11.77         41.06         1021.45         76.63         475.88           10.25         41.46         1018.67         84.41         479.28	15.71	40.12	1012.81	97.46	462.6
28.26         65.34         1014.56         43.4         441.03           15.92         41.2         1016.04         73.37         468.91           33.4         70.8         1009.17         57.01         432.46           31.92         68.3         1015.58         41.55         430.07           26.87         74.99         1002.48         71.91         437.78           5.23         40.78         1025.13         92.74         483.12           15.72         41.76         1023.07         66.95         462.19           17.74         50.88         1015.56         89.78         457.71           27.13         59.54         1004.33         73.27         438.32           25.82         66.49         1013.2         60.32         434.35           34.2         68.14         1002.7         56.09         427.05           19.13         68.61         1010.65         94.92         448.69           11.77         41.06         1021.45         76.63         475.88           10.25         41.46         1018.67         84.41         479.28           23.82         48.92         1010.48         44.45         446.85 <td>29.11</td> <td>74.9</td> <td>1003.31</td> <td>74.01</td> <td>432.43</td>	29.11	74.9	1003.31	74.01	432.43
15.92         41.2         1016.04         73.37         468.91           33.4         70.8         1009.17         57.01         432.46           31.92         68.3         1015.58         41.55         430.07           26.87         74.99         1002.48         71.91         437.78           5.23         40.78         1025.13         92.74         483.12           15.72         41.76         1023.07         66.95         462.19           17.74         50.88         1015.56         89.78         457.71           27.13         59.54         1004.33         73.27         438.32           25.82         66.49         1013.2         60.32         434.35           34.2         68.14         1002.7         56.09         427.05           19.13         68.61         1010.65         94.92         448.69           11.77         41.06         1021.45         76.63         475.88           10.25         41.46         1018.67         84.41         479.28           23.82         48.92         1010.48         44.45         446.85           30.1         66.25         1009.38         65.41         434.99 <td>23.73</td> <td>61.02</td> <td>1009.71</td> <td>78.7</td> <td>442.22</td>	23.73	61.02	1009.71	78.7	442.22
33.4         70.8         1009.17         57.01         432.46           31.92         68.3         1015.58         41.55         430.07           26.87         74.99         1002.48         71.91         437.78           5.23         40.78         1025.13         92.74         483.12           15.72         41.76         1023.07         66.95         462.19           17.74         50.88         1015.56         89.78         457.71           27.13         59.54         1004.33         73.27         438.32           25.82         66.49         1013.2         60.32         434.35           34.2         68.14         1002.7         56.09         427.05           19.13         68.61         1010.65         94.92         448.69           11.77         41.06         1021.45         76.63         475.88           10.25         41.46         1018.67         84.41         479.28           23.82         48.92         1010.48         44.45         446.85           30.1         66.25         1009.38         65.41         434.99           29.92         69.75         1009.49         73.19         430.46 <td>28.26</td> <td>65.34</td> <td>1014.56</td> <td>43.4</td> <td>441.03</td>	28.26	65.34	1014.56	43.4	441.03
31.92       68.3       1015.58       41.55       430.07         26.87       74.99       1002.48       71.91       437.78         5.23       40.78       1025.13       92.74       483.12         15.72       41.76       1023.07       66.95       462.19         17.74       50.88       1015.56       89.78       457.71         27.13       59.54       1004.33       73.27       438.32         25.82       66.49       1013.2       60.32       434.35         34.2       68.14       1002.7       56.09       427.05         19.13       68.61       1010.65       94.92       448.69         11.77       41.06       1021.45       76.63       475.88         10.25       41.46       1018.67       84.41       479.28         23.82       48.92       1010.48       44.45       446.85         30.1       66.25       1009.38       65.41       434.99         29.92       69.75       1009.12       67.15       441.5         29.63       66.75       1018.08       58.46       433.26         30.61       77.17       1009.49       73.19       430.46	15.92	41.2	1016.04	73.37	468.91
26.87         74.99         1002.48         71.91         437.78           5.23         40.78         1025.13         92.74         483.12           15.72         41.76         1023.07         66.95         462.19           17.74         50.88         1015.56         89.78         457.71           27.13         59.54         1004.33         73.27         438.32           25.82         66.49         1013.2         60.32         434.35           34.2         68.14         1002.7         56.09         427.05           19.13         68.61         1010.65         94.92         448.69           11.77         41.06         1021.45         76.63         475.88           10.25         41.46         1018.67         84.41         479.28           23.82         48.92         1010.48         44.45         446.85           30.1         66.25         1009.38         65.41         434.99           29.92         69.75         1009.12         67.15         441.5           29.63         66.75         1018.08         58.46         433.26           30.61         77.17         1009.49         73.19         430.46     <	33.4	70.8	1009.17	57.01	432.46
5.23       40.78       1025.13       92.74       483.12         15.72       41.76       1023.07       66.95       462.19         17.74       50.88       1015.56       89.78       457.71         27.13       59.54       1004.33       73.27       438.32         25.82       66.49       1013.2       60.32       434.35         34.2       68.14       1002.7       56.09       427.05         19.13       68.61       1010.65       94.92       448.69         11.77       41.06       1021.45       76.63       475.88         10.25       41.46       1018.67       84.41       479.28         23.82       48.92       1010.48       44.45       446.85         30.1       66.25       1009.38       65.41       434.99         29.92       69.75       1009.12       67.15       441.5         29.63       66.75       1018.08       58.46       433.26         30.61       77.17       1009.49       73.19       430.46         16.18       50.88       1014.06       100.09       455.14         31.66       73.91       1004.49       68.13       431.26 <tr< td=""><td>31.92</td><td>68.3</td><td>1015.58</td><td>41.55</td><td>430.07</td></tr<>	31.92	68.3	1015.58	41.55	430.07
15.72         41.76         1023.07         66.95         462.19           17.74         50.88         1015.56         89.78         457.71           27.13         59.54         1004.33         73.27         438.32           25.82         66.49         1013.2         60.32         434.35           34.2         68.14         1002.7         56.09         427.05           19.13         68.61         1010.65         94.92         448.69           11.77         41.06         1021.45         76.63         475.88           10.25         41.46         1018.67         84.41         479.28           23.82         48.92         1010.48         44.45         446.85           30.1         66.25         1009.38         65.41         434.99           29.92         69.75         1009.12         67.15         441.5           29.63         66.75         1018.08         58.46         433.26           30.61         77.17         1009.49         73.19         430.46           16.18         50.88         1014.06         100.09         455.14           31.66         73.91         1004.49         68.13         431.26	26.87	74.99	1002.48	71.91	437.78
17.74         50.88         1015.56         89.78         457.71           27.13         59.54         1004.33         73.27         438.32           25.82         66.49         1013.2         60.32         434.35           34.2         68.14         1002.7         56.09         427.05           19.13         68.61         1010.65         94.92         448.69           11.77         41.06         1021.45         76.63         475.88           10.25         41.46         1018.67         84.41         479.28           23.82         48.92         1010.48         44.45         446.85           30.1         66.25         1009.38         65.41         434.99           29.92         69.75         1009.12         67.15         441.5           29.63         66.75         1018.08         58.46         433.26           30.61         77.17         1009.49         73.19         430.46           16.18         50.88         1014.06         100.09         455.14           31.66         73.91         1004.49         68.13         431.26           29.14         61.5         1009.64         39.95         437.76	5.23	40.78	1025.13	92.74	483.12
27.13       59.54       1004.33       73.27       438.32         25.82       66.49       1013.2       60.32       434.35         34.2       68.14       1002.7       56.09       427.05         19.13       68.61       1010.65       94.92       448.69         11.77       41.06       1021.45       76.63       475.88         10.25       41.46       1018.67       84.41       479.28         23.82       48.92       1010.48       44.45       446.85         30.1       66.25       1009.38       65.41       434.99         29.92       69.75       1009.12       67.15       441.5         29.63       66.75       1018.08       58.46       433.26         30.61       77.17       1009.49       73.19       430.46         16.18       50.88       1014.06       100.09       455.14         31.66       73.91       1004.49       68.13       431.26         29.14       61.5       1009.64       39.95       437.76         18.4       43.96       1012.4       77.81       464.63	15.72	41.76	1023.07	66.95	462.19
25.82         66.49         1013.2         60.32         434.35           34.2         68.14         1002.7         56.09         427.05           19.13         68.61         1010.65         94.92         448.69           11.77         41.06         1021.45         76.63         475.88           10.25         41.46         1018.67         84.41         479.28           23.82         48.92         1010.48         44.45         446.85           30.1         66.25         1009.38         65.41         434.99           29.92         69.75         1009.12         67.15         441.5           29.63         66.75         1018.08         58.46         433.26           30.61         77.17         1009.49         73.19         430.46           16.18         50.88         1014.06         100.09         455.14           31.66         73.91         1004.49         68.13         431.26           29.14         61.5         1009.64         39.95         437.76           18.4         43.96         1012.4         77.81         464.63	17.74	50.88	1015.56	89.78	457.71
34.2       68.14       1002.7       56.09       427.05         19.13       68.61       1010.65       94.92       448.69         11.77       41.06       1021.45       76.63       475.88         10.25       41.46       1018.67       84.41       479.28         23.82       48.92       1010.48       44.45       446.85         30.1       66.25       1009.38       65.41       434.99         29.92       69.75       1009.12       67.15       441.5         29.63       66.75       1018.08       58.46       433.26         30.61       77.17       1009.49       73.19       430.46         16.18       50.88       1014.06       100.09       455.14         31.66       73.91       1004.49       68.13       431.26         29.14       61.5       1009.64       39.95       437.76         18.4       43.96       1012.4       77.81       464.63	27.13	59.54	1004.33	73.27	438.32
19.13     68.61     1010.65     94.92     448.69       11.77     41.06     1021.45     76.63     475.88       10.25     41.46     1018.67     84.41     479.28       23.82     48.92     1010.48     44.45     446.85       30.1     66.25     1009.38     65.41     434.99       29.92     69.75     1009.12     67.15     441.5       29.63     66.75     1018.08     58.46     433.26       30.61     77.17     1009.49     73.19     430.46       16.18     50.88     1014.06     100.09     455.14       31.66     73.91     1004.49     68.13     431.26       29.14     61.5     1009.64     39.95     437.76       18.4     43.96     1012.4     77.81     464.63	25.82	66.49	1013.2	60.32	434.35
11.77       41.06       1021.45       76.63       475.88         10.25       41.46       1018.67       84.41       479.28         23.82       48.92       1010.48       44.45       446.85         30.1       66.25       1009.38       65.41       434.99         29.92       69.75       1009.12       67.15       441.5         29.63       66.75       1018.08       58.46       433.26         30.61       77.17       1009.49       73.19       430.46         16.18       50.88       1014.06       100.09       455.14         31.66       73.91       1004.49       68.13       431.26         29.14       61.5       1009.64       39.95       437.76         18.4       43.96       1012.4       77.81       464.63	34.2	68.14	1002.7	56.09	427.05
10.25       41.46       1018.67       84.41       479.28         23.82       48.92       1010.48       44.45       446.85         30.1       66.25       1009.38       65.41       434.99         29.92       69.75       1009.12       67.15       441.5         29.63       66.75       1018.08       58.46       433.26         30.61       77.17       1009.49       73.19       430.46         16.18       50.88       1014.06       100.09       455.14         31.66       73.91       1004.49       68.13       431.26         29.14       61.5       1009.64       39.95       437.76         18.4       43.96       1012.4       77.81       464.63	19.13	68.61	1010.65	94.92	448.69
23.82       48.92       1010.48       44.45       446.85         30.1       66.25       1009.38       65.41       434.99         29.92       69.75       1009.12       67.15       441.5         29.63       66.75       1018.08       58.46       433.26         30.61       77.17       1009.49       73.19       430.46         16.18       50.88       1014.06       100.09       455.14         31.66       73.91       1004.49       68.13       431.26         29.14       61.5       1009.64       39.95       437.76         18.4       43.96       1012.4       77.81       464.63	11.77	41.06	1021.45	76.63	475.88
30.1     66.25     1009.38     65.41     434.99       29.92     69.75     1009.12     67.15     441.5       29.63     66.75     1018.08     58.46     433.26       30.61     77.17     1009.49     73.19     430.46       16.18     50.88     1014.06     100.09     455.14       31.66     73.91     1004.49     68.13     431.26       29.14     61.5     1009.64     39.95     437.76       18.4     43.96     1012.4     77.81     464.63	10.25	41.46	1018.67	84.41	479.28
29.92       69.75       1009.12       67.15       441.5         29.63       66.75       1018.08       58.46       433.26         30.61       77.17       1009.49       73.19       430.46         16.18       50.88       1014.06       100.09       455.14         31.66       73.91       1004.49       68.13       431.26         29.14       61.5       1009.64       39.95       437.76         18.4       43.96       1012.4       77.81       464.63	23.82	48.92	1010.48	44.45	446.85
29.63       66.75       1018.08       58.46       433.26         30.61       77.17       1009.49       73.19       430.46         16.18       50.88       1014.06       100.09       455.14         31.66       73.91       1004.49       68.13       431.26         29.14       61.5       1009.64       39.95       437.76         18.4       43.96       1012.4       77.81       464.63	30.1	66.25	1009.38	65.41	434.99
30.61     77.17     1009.49     73.19     430.46       16.18     50.88     1014.06     100.09     455.14       31.66     73.91     1004.49     68.13     431.26       29.14     61.5     1009.64     39.95     437.76       18.4     43.96     1012.4     77.81     464.63	29.92	69.75	1009.12	67.15	441.5
16.18     50.88     1014.06     100.09     455.14       31.66     73.91     1004.49     68.13     431.26       29.14     61.5     1009.64     39.95     437.76       18.4     43.96     1012.4     77.81     464.63	29.63	66.75	1018.08	58.46	433.26
31.66     73.91     1004.49     68.13     431.26       29.14     61.5     1009.64     39.95     437.76       18.4     43.96     1012.4     77.81     464.63	30.61	77.17	1009.49	73.19	430.46
29.14     61.5     1009.64     39.95     437.76       18.4     43.96     1012.4     77.81     464.63	16.18	50.88	1014.06	100.09	455.14
18.4 43.96 1012.4 77.81 464.63	31.66	73.91	1004.49	68.13	431.26
	29.14	61.5	1009.64	39.95	437.76
15.86 38.62 1016.65 67.51 462.58	18.4	43.96	1012.4	77.81	464.63
	15.86	38.62	1016.65	67.51	462.58

23.4         72.99         1009.48         88.82         438.51           33.62         77.17         1009.38         63.71         431.03           6.89         43.65         1019.87         72.77         484           27.41         69.98         1008.51         65.49         431.64           26.37         54.5         1014.48         66.31         451.78           26.58         59.39         1014.49         65.87         439.46           15.25         43.02         1012.04         41.43         467.23           21.24         41.67         1012.6         49.27         459.81           24.98         58.05         1011.69         69.97         447.15           26.63         64.44         1012.66         61.19         442           18.87         52.08         1005.25         99.19         449.61           5.12         40.78         1025.45         96.88         481.28           31.1         71.32         1008.09         45.87         437.54           7.91         39.96         1023.57         88.44         475.52           14.97         58.2         1019.52         81.13         458.68	6.31	42.07	1004.61	77.74	483.27
6.89         43.65         1019.87         72.77         484           27.41         69.98         1008.51         65.49         431.64           26.37         54.5         1014.48         66.31         451.78           26.58         59.39         1014.49         65.87         439.46           15.25         43.02         1012.04         41.43         467.23           21.24         41.67         1012.6         49.27         459.81           24.98         58.05         1011.69         69.97         447.15           26.63         64.44         1012.66         61.19         442           18.87         52.08         1005.25         99.19         449.61           5.12         40.78         1025.45         96.88         481.28           31.1         71.32         1008.09         45.87         437.54           7.91         39.96         1023.57         88.44         475.52           14.97         58.2         1019.52         81.13         458.68           28.92         61.02         1011.19         56.13         436.76           22.92         61.9         1013.27         78.32         446.08	23.4	72.99	1009.48	88.82	438.51
27.41         69.98         1008.51         65.49         431.64           26.37         54.5         1014.48         66.31         451.78           26.58         59.39         1014.49         65.87         439.46           15.25         43.02         1012.04         41.43         467.23           21.24         41.67         1012.6         49.27         459.81           24.98         58.05         1011.69         69.97         447.15           26.63         64.44         1012.66         61.19         442           18.87         52.08         1005.25         99.19         449.61           5.12         40.78         1025.45         96.88         481.28           31.1         71.32         1008.09         45.87         437.54           7.91         39.96         1023.57         88.44         475.52           14.97         58.2         1019.52         81.13         458.68           28.92         61.02         1011.19         56.13         436.76           22.92         61.9         1013.27         78.32         446.08           12.55         38.91         1012.58         75.44         474.35	33.62	77.17	1009.38	63.71	431.03
26.37         54.5         1014.48         66.31         451.78           26.58         59.39         1014.49         65.87         439.46           15.25         43.02         1012.04         41.43         467.23           21.24         41.67         1012.6         49.27         459.81           24.98         58.05         1011.69         69.97         447.15           26.63         64.44         1012.66         61.19         442           18.87         52.08         1005.25         99.19         449.61           5.12         40.78         1025.45         96.88         481.28           31.1         71.32         1008.09         45.87         437.54           7.91         39.96         1023.57         88.44         475.52           14.97         58.2         1019.52         81.13         458.68           28.92         61.02         1011.19         56.13         436.76           22.92         61.9         1013.27         78.32         446.08           12.55         38.91         1012.58         75.44         474.35           9.38         41.44         1015.09         86.8         481.96	6.89	43.65	1019.87	72.77	484
26.58         59.39         1014.49         65.87         439.46           15.25         43.02         1012.04         41.43         467.23           21.24         41.67         1012.6         49.27         459.81           24.98         58.05         1011.69         69.97         447.15           26.63         64.44         1012.66         61.19         442           18.87         52.08         1005.25         99.19         449.61           5.12         40.78         1025.45         96.88         481.28           31.1         71.32         1008.09         45.87         437.54           7.91         39.96         1023.57         88.44         475.52           14.97         58.2         1019.52         81.13         458.68           28.92         61.02         1011.19         56.13         436.76           22.92         61.9         1013.27         78.32         446.08           12.55         38.91         1012.58         75.44         474.35           9.38         41.44         1015.09         86.8         481.96           10.28         41.46         1018.44         85.23         479.66	27.41	69.98	1008.51	65.49	431.64
15.25         43.02         1012.04         41.43         467.23           21.24         41.67         1012.6         49.27         459.81           24.98         58.05         1011.69         69.97         447.15           26.63         64.44         1012.66         61.19         442           18.87         52.08         1005.25         99.19         449.61           5.12         40.78         1025.45         96.88         481.28           31.1         71.32         1008.09         45.87         437.54           7.91         39.96         1023.57         88.44         475.52           14.97         58.2         1019.52         81.13         458.68           28.92         61.02         1011.19         56.13         436.76           22.92         61.9         1013.27         78.32         446.08           12.55         38.91         1012.58         75.44         474.35           9.38         41.44         1015.09         86.8         481.96           10.28         41.46         1018.44         85.23         479.66           30.31         77.24         1008.02         67.84         435.28	26.37	54.5	1014.48	66.31	451.78
21.24       41.67       1012.6       49.27       459.81         24.98       58.05       1011.69       69.97       447.15         26.63       64.44       1012.66       61.19       442         18.87       52.08       1005.25       99.19       449.61         5.12       40.78       1025.45       96.88       481.28         31.1       71.32       1008.09       45.87       437.54         7.91       39.96       1023.57       88.44       475.52         14.97       58.2       1019.52       81.13       458.68         28.92       61.02       1011.19       56.13       436.76         22.92       61.9       1013.27       78.32       446.08         12.55       38.91       1012.58       75.44       474.35         9.38       41.44       1015.09       86.8       481.96         10.28       41.46       1018.44       85.23       479.66         30.31       77.24       1008.02       67.84       435.28         25.34       71.06       1007.74       92.52       434.86         30.47       70.02       1009.65       62.03       435.72	26.58	59.39	1014.49	65.87	439.46
24.98         58.05         1011.69         69.97         447.15           26.63         64.44         1012.66         61.19         442           18.87         52.08         1005.25         99.19         449.61           5.12         40.78         1025.45         96.88         481.28           31.1         71.32         1008.09         45.87         437.54           7.91         39.96         1023.57         88.44         475.52           14.97         58.2         1019.52         81.13         458.68           28.92         61.02         1011.19         56.13         436.76           22.92         61.9         1013.27         78.32         446.08           12.55         38.91         1012.58         75.44         474.35           9.38         41.44         1015.09         86.8         481.96           10.28         41.46         1018.44         85.23         479.66           30.31         77.24         1008.02         67.84         435.28           25.34         71.06         1007.74         92.52         434.86           30.47         70.02         1009.65         62.03         435.72	15.25	43.02	1012.04	41.43	467.23
26.63         64.44         1012.66         61.19         442           18.87         52.08         1005.25         99.19         449.61           5.12         40.78         1025.45         96.88         481.28           31.1         71.32         1008.09         45.87         437.54           7.91         39.96         1023.57         88.44         475.52           14.97         58.2         1019.52         81.13         458.68           28.92         61.02         1011.19         56.13         436.76           22.92         61.9         1013.27         78.32         446.08           12.55         38.91         1012.58         75.44         474.35           9.38         41.44         1015.09         86.8         481.96           10.28         41.46         1018.44         85.23         479.66           30.31         77.24         1008.02         67.84         435.28           25.34         71.06         1007.74         92.52         434.86           30.47         70.02         1009.65         62.03         435.72           20.18         56.53         1020.3         77.1         454.14	21.24	41.67	1012.6	49.27	459.81
18.87         52.08         1005.25         99.19         449.61           5.12         40.78         1025.45         96.88         481.28           31.1         71.32         1008.09         45.87         437.54           7.91         39.96         1023.57         88.44         475.52           14.97         58.2         1019.52         81.13         458.68           28.92         61.02         1011.19         56.13         436.76           22.92         61.9         1013.27         78.32         446.08           12.55         38.91         1012.58         75.44         474.35           9.38         41.44         1015.09         86.8         481.96           10.28         41.46         1018.44         85.23         479.66           30.31         77.24         1008.02         67.84         435.28           25.34         71.06         1007.74         92.52         434.86           30.47         70.02         1009.65         62.03         435.72           20.18         56.53         1020.3         77.1         454.14           21.31         46.97         1014.08         62.57         455.76 <td>24.98</td> <td>58.05</td> <td>1011.69</td> <td>69.97</td> <td>447.15</td>	24.98	58.05	1011.69	69.97	447.15
5.12         40.78         1025.45         96.88         481.28           31.1         71.32         1008.09         45.87         437.54           7.91         39.96         1023.57         88.44         475.52           14.97         58.2         1019.52         81.13         458.68           28.92         61.02         1011.19         56.13         436.76           22.92         61.9         1013.27         78.32         446.08           12.55         38.91         1012.58         75.44         474.35           9.38         41.44         1015.09         86.8         481.96           10.28         41.46         1018.44         85.23         479.66           30.31         77.24         1008.02         67.84         435.28           25.34         71.06         1007.74         92.52         434.86           30.47         70.02         1009.65         62.03         435.72           20.18         56.53         1020.3         77.1         454.14           21.31         46.97         1014.08         62.57         455.76           22.1         74.87         1009.4         85.78         442.83	26.63	64.44	1012.66	61.19	442
31.1       71.32       1008.09       45.87       437.54         7.91       39.96       1023.57       88.44       475.52         14.97       58.2       1019.52       81.13       458.68         28.92       61.02       1011.19       56.13       436.76         22.92       61.9       1013.27       78.32       446.08         12.55       38.91       1012.58       75.44       474.35         9.38       41.44       1015.09       86.8       481.96         10.28       41.46       1018.44       85.23       479.66         30.31       77.24       1008.02       67.84       435.28         25.34       71.06       1007.74       92.52       434.86         30.47       70.02       1009.65       62.03       435.72         20.18       56.53       1020.3       77.1       454.14         21.31       46.97       1014.08       62.57       455.76         22.1       74.87       1009.4       85.78       442.83         20.09       63.94       1020.82       74.16       449.47         22.36       58.79       1016.69       73.6       445.76	18.87	52.08	1005.25	99.19	449.61
7.91         39.96         1023.57         88.44         475.52           14.97         58.2         1019.52         81.13         458.68           28.92         61.02         1011.19         56.13         436.76           22.92         61.9         1013.27         78.32         446.08           12.55         38.91         1012.58         75.44         474.35           9.38         41.44         1015.09         86.8         481.96           10.28         41.46         1018.44         85.23         479.66           30.31         77.24         1008.02         67.84         435.28           25.34         71.06         1007.74         92.52         434.86           30.47         70.02         1009.65         62.03         435.72           20.18         56.53         1020.3         77.1         454.14           21.31         46.97         1014.08         62.57         455.76           22.1         74.87         1009.4         85.78         442.83           20.09         63.94         1020.82         74.16         449.47           22.36         58.79         1016.69         73.6         445.76	5.12	40.78	1025.45	96.88	481.28
14.97       58.2       1019.52       81.13       458.68         28.92       61.02       1011.19       56.13       436.76         22.92       61.9       1013.27       78.32       446.08         12.55       38.91       1012.58       75.44       474.35         9.38       41.44       1015.09       86.8       481.96         10.28       41.46       1018.44       85.23       479.66         30.31       77.24       1008.02       67.84       435.28         25.34       71.06       1007.74       92.52       434.86         30.47       70.02       1009.65       62.03       435.72         20.18       56.53       1020.3       77.1       454.14         21.31       46.97       1014.08       62.57       455.76         22.1       74.87       1009.4       85.78       442.83         20.09       63.94       1020.82       74.16       449.47         22.36       58.79       1016.69       73.6       445.76         9.43       37.14       1013.03       74.99       473.57         28.86       49.3       1003.93       52.85       435.75	31.1	71.32	1008.09	45.87	437.54
28.92       61.02       1011.19       56.13       436.76         22.92       61.9       1013.27       78.32       446.08         12.55       38.91       1012.58       75.44       474.35         9.38       41.44       1015.09       86.8       481.96         10.28       41.46       1018.44       85.23       479.66         30.31       77.24       1008.02       67.84       435.28         25.34       71.06       1007.74       92.52       434.86         30.47       70.02       1009.65       62.03       435.72         20.18       56.53       1020.3       77.1       454.14         21.31       46.97       1014.08       62.57       455.76         22.1       74.87       1009.4       85.78       442.83         20.09       63.94       1020.82       74.16       449.47         22.36       58.79       1016.69       73.6       445.76         9.43       37.14       1013.03       74.99       473.57         28.86       49.3       1003.93       52.85       435.75         23.25       70.32       1009.28       86.52       437.96   <	7.91	39.96	1023.57	88.44	475.52
22.92       61.9       1013.27       78.32       446.08         12.55       38.91       1012.58       75.44       474.35         9.38       41.44       1015.09       86.8       481.96         10.28       41.46       1018.44       85.23       479.66         30.31       77.24       1008.02       67.84       435.28         25.34       71.06       1007.74       92.52       434.86         30.47       70.02       1009.65       62.03       435.72         20.18       56.53       1020.3       77.1       454.14         21.31       46.97       1014.08       62.57       455.76         22.1       74.87       1009.4       85.78       442.83         20.09       63.94       1020.82       74.16       449.47         22.36       58.79       1016.69       73.6       445.76         9.43       37.14       1013.03       74.99       473.57         28.86       49.3       1003.93       52.85       435.75         23.25       70.32       1009.28       86.52       437.96	14.97	58.2	1019.52	81.13	458.68
12.55       38.91       1012.58       75.44       474.35         9.38       41.44       1015.09       86.8       481.96         10.28       41.46       1018.44       85.23       479.66         30.31       77.24       1008.02       67.84       435.28         25.34       71.06       1007.74       92.52       434.86         30.47       70.02       1009.65       62.03       435.72         20.18       56.53       1020.3       77.1       454.14         21.31       46.97       1014.08       62.57       455.76         22.1       74.87       1009.4       85.78       442.83         20.09       63.94       1020.82       74.16       449.47         22.36       58.79       1016.69       73.6       445.76         9.43       37.14       1013.03       74.99       473.57         28.86       49.3       1003.93       52.85       435.75         23.25       70.32       1009.28       86.52       437.96	28.92	61.02	1011.19	56.13	436.76
9.38       41.44       1015.09       86.8       481.96         10.28       41.46       1018.44       85.23       479.66         30.31       77.24       1008.02       67.84       435.28         25.34       71.06       1007.74       92.52       434.86         30.47       70.02       1009.65       62.03       435.72         20.18       56.53       1020.3       77.1       454.14         21.31       46.97       1014.08       62.57       455.76         22.1       74.87       1009.4       85.78       442.83         20.09       63.94       1020.82       74.16       449.47         22.36       58.79       1016.69       73.6       445.76         9.43       37.14       1013.03       74.99       473.57         28.86       49.3       1003.93       52.85       435.75         23.25       70.32       1009.28       86.52       437.96	22.92	61.9	1013.27	78.32	446.08
10.28       41.46       1018.44       85.23       479.66         30.31       77.24       1008.02       67.84       435.28         25.34       71.06       1007.74       92.52       434.86         30.47       70.02       1009.65       62.03       435.72         20.18       56.53       1020.3       77.1       454.14         21.31       46.97       1014.08       62.57       455.76         22.1       74.87       1009.4       85.78       442.83         20.09       63.94       1020.82       74.16       449.47         22.36       58.79       1016.69       73.6       445.76         9.43       37.14       1013.03       74.99       473.57         28.86       49.3       1003.93       52.85       435.75         23.25       70.32       1009.28       86.52       437.96	12.55	38.91	1012.58	75.44	474.35
30.31       77.24       1008.02       67.84       435.28         25.34       71.06       1007.74       92.52       434.86         30.47       70.02       1009.65       62.03       435.72         20.18       56.53       1020.3       77.1       454.14         21.31       46.97       1014.08       62.57       455.76         22.1       74.87       1009.4       85.78       442.83         20.09       63.94       1020.82       74.16       449.47         22.36       58.79       1016.69       73.6       445.76         9.43       37.14       1013.03       74.99       473.57         28.86       49.3       1003.93       52.85       435.75         23.25       70.32       1009.28       86.52       437.96	9.38	41.44	1015.09	86.8	481.96
25.34       71.06       1007.74       92.52       434.86         30.47       70.02       1009.65       62.03       435.72         20.18       56.53       1020.3       77.1       454.14         21.31       46.97       1014.08       62.57       455.76         22.1       74.87       1009.4       85.78       442.83         20.09       63.94       1020.82       74.16       449.47         22.36       58.79       1016.69       73.6       445.76         9.43       37.14       1013.03       74.99       473.57         28.86       49.3       1003.93       52.85       435.75         23.25       70.32       1009.28       86.52       437.96	10.28	41.46	1018.44	85.23	479.66
30.47       70.02       1009.65       62.03       435.72         20.18       56.53       1020.3       77.1       454.14         21.31       46.97       1014.08       62.57       455.76         22.1       74.87       1009.4       85.78       442.83         20.09       63.94       1020.82       74.16       449.47         22.36       58.79       1016.69       73.6       445.76         9.43       37.14       1013.03       74.99       473.57         28.86       49.3       1003.93       52.85       435.75         23.25       70.32       1009.28       86.52       437.96	30.31	77.24	1008.02	67.84	435.28
20.18       56.53       1020.3       77.1       454.14         21.31       46.97       1014.08       62.57       455.76         22.1       74.87       1009.4       85.78       442.83         20.09       63.94       1020.82       74.16       449.47         22.36       58.79       1016.69       73.6       445.76         9.43       37.14       1013.03       74.99       473.57         28.86       49.3       1003.93       52.85       435.75         23.25       70.32       1009.28       86.52       437.96	25.34	71.06	1007.74	92.52	434.86
21.31       46.97       1014.08       62.57       455.76         22.1       74.87       1009.4       85.78       442.83         20.09       63.94       1020.82       74.16       449.47         22.36       58.79       1016.69       73.6       445.76         9.43       37.14       1013.03       74.99       473.57         28.86       49.3       1003.93       52.85       435.75         23.25       70.32       1009.28       86.52       437.96	30.47	70.02	1009.65	62.03	435.72
22.1     74.87     1009.4     85.78     442.83       20.09     63.94     1020.82     74.16     449.47       22.36     58.79     1016.69     73.6     445.76       9.43     37.14     1013.03     74.99     473.57       28.86     49.3     1003.93     52.85     435.75       23.25     70.32     1009.28     86.52     437.96	20.18	56.53	1020.3	77.1	454.14
20.09       63.94       1020.82       74.16       449.47         22.36       58.79       1016.69       73.6       445.76         9.43       37.14       1013.03       74.99       473.57         28.86       49.3       1003.93       52.85       435.75         23.25       70.32       1009.28       86.52       437.96	21.31	46.97	1014.08	62.57	455.76
22.36     58.79     1016.69     73.6     445.76       9.43     37.14     1013.03     74.99     473.57       28.86     49.3     1003.93     52.85     435.75       23.25     70.32     1009.28     86.52     437.96	22.1	74.87	1009.4	85.78	442.83
9.43     37.14     1013.03     74.99     473.57       28.86     49.3     1003.93     52.85     435.75       23.25     70.32     1009.28     86.52     437.96	20.09	63.94	1020.82	74.16	449.47
28.86     49.3     1003.93     52.85     435.75       23.25     70.32     1009.28     86.52     437.96	22.36	58.79	1016.69	73.6	445.76
23.25 70.32 1009.28 86.52 437.96	9.43	37.14	1013.03	74.99	473.57
	28.86	49.3	1003.93	52.85	435.75
22.7 60.84 1019.15 71.48 438.59	23.25	70.32	1009.28	86.52	437.96
	22.7	60.84	1019.15	71.48	438.59

14.97     4       13.83     4       23.39     7       21.48     4       22.63     5       20.01     4       20.52     4       13.58     4       28.53     6       13.89     3       25.93     6       17.84     6	14.9 3.67 0.78 1.25 7.43 8.41 5.09 3.79 9.83 4.84 9.84	1008.52 1011.13 1024.85 1005.22 1006.88 1013.69 1014.21 1015.9 1008.9 1024.59	74.69 87.33 73.08 93.7 63.54 90.32 38.19 68.1	459.47 465.54 458.85 435.68 449.2 445.43 453.96
13.83     4       23.39     7       21.48     4       22.63     5       20.01     4       20.52     4       13.58     4       28.53     6       13.89     3       25.93     6       17.84     6	0.78 1.25 7.43 8.41 5.09 3.79 9.83 4.84	1024.85 1005.22 1006.88 1013.69 1014.21 1015.9 1008.9	73.08 93.7 63.54 90.32 38.19 68.1	458.85 435.68 449.2 445.43 453.96
23.39 7 21.48 4 22.63 5 20.01 4 20.52 4 13.58 4 14.38 4 28.53 6 13.89 3 25.93 6 17.84 6	1.25 7.43 8.41 5.09 3.79 9.83 4.84	1005.22 1006.88 1013.69 1014.21 1015.9 1008.9	93.7 63.54 90.32 38.19 68.1	435.68 449.2 445.43 453.96
21.48 4 22.63 5 20.01 4 20.52 4 13.58 4 14.38 4 28.53 6 13.89 3 25.93 6 17.84 6	7.43 8.41 5.09 3.79 9.83 4.84	1006.88 1013.69 1014.21 1015.9 1008.9	63.54 90.32 38.19 68.1	449.2 445.43 453.96
22.63 5 20.01 4 20.52 4 13.58 4 14.38 4 28.53 6 13.89 3 25.93 6 17.84 6	8.41 5.09 3.79 9.83 4.84	1013.69 1014.21 1015.9 1008.9	90.32 38.19 68.1	445.43 453.96
20.01 4 20.52 4 13.58 4 14.38 4 28.53 6 13.89 3 25.93 6 17.84 6	5.09 3.79 9.83 4.84	1014.21 1015.9 1008.9	38.19 68.1	453.96
20.52 4 13.58 4 14.38 4 28.53 6 13.89 3 25.93 6 17.84 6	3.79 9.83 4.84	1015.9 1008.9	68.1	
13.58 4 14.38 4 28.53 6 13.89 3 25.93 6 17.84 6	9.83 4.84	1008.9		162.00
14.38 4 28.53 6 13.89 3 25.93 6 17.84 6	4.84		0	463.93
28.53 6 13.89 3 25.93 6 17.84 6		1024 59	86.8	465.82
13.89 3 25.93 6 17.84 6	9.84	1021.07	81.68	471.6
25.93 6 17.84 6		1004.46	68.03	427.72
17.84 6	5.71	1016.4	65.49	468.54
	9.34	1008.91	79.43	434.08
6.28 4	1.27	1020.1	70.68	454.57
i I	1.06	1020.96	90.91	489.79
8.16 3	9.64	1011.21	85.56	481.78
18.61 6	7.71	1004.07	84.49	443.57
16.23 4	3.72	1009.96	83.01	457.9
8.66 4	1.01	1022.51	98.55	472.16
19.53 6	6.54	1013.72	81.46	451.19
10.17 4	0.46	1018.54	68.21	470.33
6.48 4	0.27	1010.55	82.12	486.68
12.69 4	0.75	1016.05	82.92	472.68
23.77 6	1.87	1009.8	54.83	445.72
14.43	13.5	1021.86	83.14	466.58
28.25 5	7.19	1007.99	67.9	436.99
12.26 3	9.96	1011.79	79.06	470.87
14.55 4	2.74	1027.29	66.64	457.77
24.57 5	1.95	1005.8	70.07	448.15
10.25 4	1.01	1007.44	98.08	476.03
21.96 5	1.26	1007.20	90.06	
9.82 3	1.26	1007.28	89.96	442.87

18.58	44.6	1016.61	48.15	459.06
20.57	44.9	1008.39	62.69	456.18
8.61	41.04	1024.81	95.6	473.62
9.99	43.52	1022.95	99.67	473.64
13.97	52.05	1012.05	85.36	463.64
16.76	43.67	1011.27	70.55	462.44
25.58	47.01	1014.5	63.53	454.39
17.34	46.48	1007.18	83.15	452.06
19.13	66.86	1012.95	71.24	453.31
12.75	40.64	1020.44	83.17	466.93
29.46	49.3	1003.88	54.1	436.37
15.59	52.75	1024.3	59.93	458.87
14.2	43.02	1012.18	57.07	470.67
14.05	40.35	1011.52	66.21	475.54
32.35	77.95	1014.76	60.88	432.72
21.41	56.9	1007.03	79.41	441.41
10.61	37.5	1008.8	100.13	472.9
19.13	40.79	1004.47	91.7	457.83
17.28	44.06	1018.15	66.93	462.05
24.79	50.78	1008.78	61.88	445.3
28.66	50.05	1006.08	47.74	435.94
12.91	41.16	1011.9	89.19	472.71
17.32	43.7	1015.13	61.66	464.5
18.74	59.21	1018.3	91.55	449.77
26.69	70.36	1006.82	68.29	435.04
12.28	40.55	1005.72	98.56	472.47
14.46	44.78	1007.64	67.03	459.31
30.54	70.17	999.42	64.32	434.62
27.58	66.48	1004.82	51.23	435.34
32.17	73.21	1001.43	69.86	430.64
26.23	59.87	1012.93	66.62	447.16
11.69	35.76	1019.02	55.6	471.72
14.73	39.82	1012.67	80.82	470.41
<u> </u>				,

12.36	48.04	1012.8	93.59	468.37
9.52	40.96	1023.48	86.49	483.59
27.32	73.42	1012.07	86.3	432.74
23.81	73.17	1012.13	86.13	438.11
7.92	42.28	1008.55	81.68	484.75
23.58	58.82	1009.68	81.38	445.01
20.78	60.84	1018.66	80.4	445.82
19.68	68.28	1002.62	71.57	452.47
14.12	40.92	1022.46	73.28	459.76
22.97	62.4	1010.25	75.18	445.3
6.89	39.37	1020.21	74.17	486.9
19.98	56.53	1020.22	73.53	454.89
21.71	60.27	1015.74	89.76	441.19
23.02	59.21	1011.74	83.18	440.5
27.71	69.51	1009.65	58.38	435.04
10.46	37.5	1013.12	76.74	472.16
27.18	62.66	1009.89	52.83	442.16
25.56	50.05	1005.67	69.29	442.49
19.69	39.72	1001.49	60.34	456.55
31.37	76.86	997.34	62.94	431.03
14.17	41.67	1013.4	72.77	471.42
15.6	43.71	1024.88	80.37	463.34
25.3	71.58	1010.18	87.36	433.97
7.09	39.37	1020.07	73.26	487
6.07	41.14	1027.57	86.98	480.19
9.86	38.38	1018.22	85.35	479.56
14.73	40.35	1011.15	65.2	470.03
31.32	74.33	1012.92	36.48	429.57
6.14	38.5	1012.4	75.35	489.26
27.92	69.23	1013.21	44.43	435.62
25.63	58.86	1014.86	52.75	443.84
16.37	36.99	1006.37	90.11	463.76
28.31	65.71	1014.67	59.29	447.26
	1			1

11.33         41.5         1013.58         88.7         475.01           23.87         63.94         1019.02         44.28         445.11           21.14         48.78         1020.39         86.2         450.35           22.24         60.07         1015.93         62.25         446.14           23.07         70.47         1008.64         83.37         439.04           25.95         59.14         1016.42         67.03         438.46           16.44         43.96         1013.66         76.31         468.57           20.66         41.54         1014.68         79.7         461.55           15.01         39.52         1017.53         72         468.02           20.51         63.86         1020.65         75.36         447.18           24.1         52.84         1006.47         47.58         444.69           9.38         40.46         1019.29         75.77         474.1           27.49         71.94         1008.25         68.29         428.27           32.84         68.14         1003.59         43.88         425.18           20.83         44.78         1008.51         35.9         460.6	24.44	69.84	1005.34	80.37	430.3
21.14         48.78         1020.39         86.2         450.35           22.24         60.07         1015.93         62.25         446.14           23.07         70.47         1008.64         83.37         439.04           25.95         59.14         1016.42         67.03         438.46           16.44         43.96         1013.66         76.31         468.57           20.66         41.54         1014.68         79.7         461.55           15.01         39.52         1017.53         72         468.02           20.51         63.86         1020.65         75.36         447.18           24.1         52.84         1006.47         47.58         444.69           9.38         40.46         1019.29         75.77         474.1           27.49         71.94         1008.25         68.29         428.27           32.84         68.14         1003.59         43.88         425.18           20.83         44.78         1008.51         35.9         460.6           28.69         67.25         1017.71         44.6         436.21           9.35         44.03         1011.02         88.11         476.25	11.33	41.5	1013.58	88.7	475.01
22.24         60.07         1015.93         62.25         446.14           23.07         70.47         1008.64         83.37         439.04           25.95         59.14         1016.42         67.03         438.46           16.44         43.96         1013.66         76.31         468.57           20.66         41.54         1014.68         79.7         461.55           15.01         39.52         1017.53         72         468.02           20.51         63.86         1020.65         75.36         447.18           24.1         52.84         1006.47         47.58         444.69           9.38         40.46         1019.29         75.77         474.1           27.49         71.94         1008.25         68.29         428.27           32.84         68.14         1003.59         43.88         425.18           20.83         44.78         1008.51         35.9         460.6           28.69         67.25         1017.71         44.6         436.21           9.35         44.03         1011.02         88.11         476.25           17.37         41.23         998.79         68.44         461.08	23.87	63.94	1019.02	44.28	445.11
23.07         70.47         1008.64         83.37         439.04           25.95         59.14         1016.42         67.03         438.46           16.44         43.96         1013.66         76.31         468.57           20.66         41.54         1014.68         79.7         461.55           15.01         39.52         1017.53         72         468.02           20.51         63.86         1020.65         75.36         447.18           24.1         52.84         1006.47         47.58         444.69           9.38         40.46         1019.29         75.77         474.1           27.49         71.94         1008.25         68.29         428.27           32.84         68.14         1003.59         43.88         425.18           20.83         44.78         1008.51         35.9         460.6           28.69         67.25         1017.71         44.6         436.21           9.35         44.03         1011.02         88.11         476.25           17.37         41.23         998.79         68.44         461.08           14.84         41.48         1017.26         63.42         460.3	21.14	48.78	1020.39	86.2	450.35
25.95         59.14         1016.42         67.03         438.46           16.44         43.96         1013.66         76.31         468.57           20.66         41.54         1014.68         79.7         461.55           15.01         39.52         1017.53         72         468.02           20.51         63.86         1020.65         75.36         447.18           24.1         52.84         1006.47         47.58         444.69           9.38         40.46         1019.29         75.77         474.1           27.49         71.94         1008.25         68.29         428.27           32.84         68.14         1003.59         43.88         425.18           20.83         44.78         1008.51         35.9         460.6           28.69         67.25         1017.71         44.6         436.21           9.35         44.03         1011.02         88.11         476.25           17.37         41.23         998.79         68.44         461.08           14.84         41.48         1017.26         63.42         460.3           27.88         68.94         1007.68         75.68         435.04	22.24	60.07	1015.93	62.25	446.14
16.44         43.96         1013.66         76.31         468.57           20.66         41.54         1014.68         79.7         461.55           15.01         39.52         1017.53         72         468.02           20.51         63.86         1020.65         75.36         447.18           24.1         52.84         1006.47         47.58         444.69           9.38         40.46         1019.29         75.77         474.1           27.49         71.94         1008.25         68.29         428.27           32.84         68.14         1003.59         43.88         425.18           20.83         44.78         1008.51         35.9         460.6           28.69         67.25         1017.71         44.6         436.21           9.35         44.03         1011.02         88.11         476.25           17.37         41.23         998.79         68.44         461.08           14.84         41.48         1017.26         63.42         460.3           27.88         68.94         1007.68         75.68         435.04           17.83         43.72         1008.64         78.72         453.86	23.07	70.47	1008.64	83.37	439.04
20.66         41.54         1014.68         79.7         461.55           15.01         39.52         1017.53         72         468.02           20.51         63.86         1020.65         75.36         447.18           24.1         52.84         1006.47         47.58         444.69           9.38         40.46         1019.29         75.77         474.1           27.49         71.94         1008.25         68.29         428.27           32.84         68.14         1003.59         43.88         425.18           20.83         44.78         1008.51         35.9         460.6           28.69         67.25         1017.71         44.6         436.21           9.35         44.03         1011.02         88.11         476.25           17.37         41.23         998.79         68.44         461.08           14.84         41.48         1017.26         63.42         460.3           27.88         68.94         1007.68         75.68         435.04           17.83         43.72         1008.64         78.72         453.86           7.64         42.28         1008.46         84.29         484.78	25.95	59.14	1016.42	67.03	438.46
15.01         39.52         1017.53         72         468.02           20.51         63.86         1020.65         75.36         447.18           24.1         52.84         1006.47         47.58         444.69           9.38         40.46         1019.29         75.77         474.1           27.49         71.94         1008.25         68.29         428.27           32.84         68.14         1003.59         43.88         425.18           20.83         44.78         1008.51         35.9         460.6           28.69         67.25         1017.71         44.6         436.21           9.35         44.03         1011.02         88.11         476.25           17.37         41.23         998.79         68.44         461.08           14.84         41.48         1017.26         63.42         460.3           27.88         68.94         1007.68         75.68         435.04           17.83         43.72         1008.64         78.72         453.86           7.64         42.28         1008.46         84.29         484.78           25.67         74.78         1010.24         68.87         440.48	16.44	43.96	1013.66	76.31	468.57
20.51         63.86         1020.65         75.36         447.18           24.1         52.84         1006.47         47.58         444.69           9.38         40.46         1019.29         75.77         474.1           27.49         71.94         1008.25         68.29         428.27           32.84         68.14         1003.59         43.88         425.18           20.83         44.78         1008.51         35.9         460.6           28.69         67.25         1017.71         44.6         436.21           9.35         44.03         1011.02         88.11         476.25           17.37         41.23         998.79         68.44         461.08           14.84         41.48         1017.26         63.42         460.3           27.88         68.94         1007.68         75.68         435.04           17.83         43.72         1008.64         78.72         453.86           7.64         42.28         1008.46         84.29         484.78           25.67         74.78         1010.24         68.87         440.48           23.1         51.3         1011.93         80.05         452.17	20.66	41.54	1014.68	79.7	461.55
24.1         52.84         1006.47         47.58         444.69           9.38         40.46         1019.29         75.77         474.1           27.49         71.94         1008.25         68.29         428.27           32.84         68.14         1003.59         43.88         425.18           20.83         44.78         1008.51         35.9         460.6           28.69         67.25         1017.71         44.6         436.21           9.35         44.03         1011.02         88.11         476.25           17.37         41.23         998.79         68.44         461.08           14.84         41.48         1017.26         63.42         460.3           27.88         68.94         1007.68         75.68         435.04           17.83         43.72         1008.64         78.72         453.86           7.64         42.28         1008.46         84.29         484.78           25.67         74.78         1010.24         68.87         440.48           23.1         51.3         1011.93         80.05         452.17           27.13         69.45         1013.9         51.16         434.47	15.01	39.52	1017.53	72	468.02
9.38         40.46         1019.29         75.77         474.1           27.49         71.94         1008.25         68.29         428.27           32.84         68.14         1003.59         43.88         425.18           20.83         44.78         1008.51         35.9         460.6           28.69         67.25         1017.71         44.6         436.21           9.35         44.03         1011.02         88.11         476.25           17.37         41.23         998.79         68.44         461.08           14.84         41.48         1017.26         63.42         460.3           27.88         68.94         1007.68         75.68         435.04           17.83         43.72         1008.64         78.72         453.86           7.64         42.28         1008.46         84.29         484.78           25.67         74.78         1010.24         68.87         440.48           23.1         51.3         1011.93         80.05         452.17           27.13         69.45         1013.9         51.16         434.47           26.95         70.8         1009.73         82.95         436.8	20.51	63.86	1020.65	75.36	447.18
27.49         71.94         1008.25         68.29         428.27           32.84         68.14         1003.59         43.88         425.18           20.83         44.78         1008.51         35.9         460.6           28.69         67.25         1017.71         44.6         436.21           9.35         44.03         1011.02         88.11         476.25           17.37         41.23         998.79         68.44         461.08           14.84         41.48         1017.26         63.42         460.3           27.88         68.94         1007.68         75.68         435.04           17.83         43.72         1008.64         78.72         453.86           7.64         42.28         1008.46         84.29         484.78           25.67         74.78         1010.24         68.87         440.48           23.1         51.3         1011.93         80.05         452.17           27.13         69.45         1013.9         51.16         434.47           26.95         70.8         1009.73         82.95         436.8           19.4         42.44         1013.19         58.63         459.76	24.1	52.84	1006.47	47.58	444.69
32.84         68.14         1003.59         43.88         425.18           20.83         44.78         1008.51         35.9         460.6           28.69         67.25         1017.71         44.6         436.21           9.35         44.03         1011.02         88.11         476.25           17.37         41.23         998.79         68.44         461.08           14.84         41.48         1017.26         63.42         460.3           27.88         68.94         1007.68         75.68         435.04           17.83         43.72         1008.64         78.72         453.86           7.64         42.28         1008.46         84.29         484.78           25.67         74.78         1010.24         68.87         440.48           23.1         51.3         1011.93         80.05         452.17           27.13         69.45         1013.9         51.16         434.47           26.95         70.8         1009.73         82.95         436.8           19.4         42.44         1013.19         58.63         459.76           13.5         44.92         1023.87         87.17         468.85	9.38	40.46	1019.29	75.77	474.1
20.83         44.78         1008.51         35.9         460.6           28.69         67.25         1017.71         44.6         436.21           9.35         44.03         1011.02         88.11         476.25           17.37         41.23         998.79         68.44         461.08           14.84         41.48         1017.26         63.42         460.3           27.88         68.94         1007.68         75.68         435.04           17.83         43.72         1008.64         78.72         453.86           7.64         42.28         1008.46         84.29         484.78           25.67         74.78         1010.24         68.87         440.48           23.1         51.3         1011.93         80.05         452.17           27.13         69.45         1013.9         51.16         434.47           26.95         70.8         1009.73         82.95         436.8           19.4         42.44         1013.19         58.63         459.76           13.5         44.92         1023.87         87.17         468.85           11.97         41.04         1026.42         70.75         468.81	27.49	71.94	1008.25	68.29	428.27
28.69         67.25         1017.71         44.6         436.21           9.35         44.03         1011.02         88.11         476.25           17.37         41.23         998.79         68.44         461.08           14.84         41.48         1017.26         63.42         460.3           27.88         68.94         1007.68         75.68         435.04           17.83         43.72         1008.64         78.72         453.86           7.64         42.28         1008.46         84.29         484.78           25.67         74.78         1010.24         68.87         440.48           23.1         51.3         1011.93         80.05         452.17           27.13         69.45         1013.9         51.16         434.47           26.95         70.8         1009.73         82.95         436.8           19.4         42.44         1013.19         58.63         459.76           13.5         44.92         1023.87         87.17         468.85           11.97         41.04         1026.42         70.75         468.81           18.11         58.95         1016.61         89.17         454.29	32.84	68.14	1003.59	43.88	425.18
9.35       44.03       1011.02       88.11       476.25         17.37       41.23       998.79       68.44       461.08         14.84       41.48       1017.26       63.42       460.3         27.88       68.94       1007.68       75.68       435.04         17.83       43.72       1008.64       78.72       453.86         7.64       42.28       1008.46       84.29       484.78         25.67       74.78       1010.24       68.87       440.48         23.1       51.3       1011.93       80.05       452.17         27.13       69.45       1013.9       51.16       434.47         26.95       70.8       1009.73       82.95       436.8         19.4       42.44       1013.19       58.63       459.76         13.5       44.92       1023.87       87.17       468.85         11.97       41.04       1026.42       70.75       468.81         18.11       58.95       1016.61       89.17       454.29         24.1       71.29       1007.96       67.56       442.8	20.83	44.78	1008.51	35.9	460.6
17.37       41.23       998.79       68.44       461.08         14.84       41.48       1017.26       63.42       460.3         27.88       68.94       1007.68       75.68       435.04         17.83       43.72       1008.64       78.72       453.86         7.64       42.28       1008.46       84.29       484.78         25.67       74.78       1010.24       68.87       440.48         23.1       51.3       1011.93       80.05       452.17         27.13       69.45       1013.9       51.16       434.47         26.95       70.8       1009.73       82.95       436.8         19.4       42.44       1013.19       58.63       459.76         13.5       44.92       1023.87       87.17       468.85         11.97       41.04       1026.42       70.75       468.81         18.11       58.95       1016.61       89.17       454.29         24.1       71.29       1007.96       67.56       442.8	28.69	67.25	1017.71	44.6	436.21
14.84     41.48     1017.26     63.42     460.3       27.88     68.94     1007.68     75.68     435.04       17.83     43.72     1008.64     78.72     453.86       7.64     42.28     1008.46     84.29     484.78       25.67     74.78     1010.24     68.87     440.48       23.1     51.3     1011.93     80.05     452.17       27.13     69.45     1013.9     51.16     434.47       26.95     70.8     1009.73     82.95     436.8       19.4     42.44     1013.19     58.63     459.76       13.5     44.92     1023.87     87.17     468.85       11.97     41.04     1026.42     70.75     468.81       18.11     58.95     1016.61     89.17     454.29       24.1     71.29     1007.96     67.56     442.8	9.35	44.03	1011.02	88.11	476.25
27.88         68.94         1007.68         75.68         435.04           17.83         43.72         1008.64         78.72         453.86           7.64         42.28         1008.46         84.29         484.78           25.67         74.78         1010.24         68.87         440.48           23.1         51.3         1011.93         80.05         452.17           27.13         69.45         1013.9         51.16         434.47           26.95         70.8         1009.73         82.95         436.8           19.4         42.44         1013.19         58.63         459.76           13.5         44.92         1023.87         87.17         468.85           11.97         41.04         1026.42         70.75         468.81           18.11         58.95         1016.61         89.17         454.29           24.1         71.29         1007.96         67.56         442.8	17.37	41.23	998.79	68.44	461.08
17.83     43.72     1008.64     78.72     453.86       7.64     42.28     1008.46     84.29     484.78       25.67     74.78     1010.24     68.87     440.48       23.1     51.3     1011.93     80.05     452.17       27.13     69.45     1013.9     51.16     434.47       26.95     70.8     1009.73     82.95     436.8       19.4     42.44     1013.19     58.63     459.76       13.5     44.92     1023.87     87.17     468.85       11.97     41.04     1026.42     70.75     468.81       18.11     58.95     1016.61     89.17     454.29       24.1     71.29     1007.96     67.56     442.8	14.84	41.48	1017.26	63.42	460.3
7.64         42.28         1008.46         84.29         484.78           25.67         74.78         1010.24         68.87         440.48           23.1         51.3         1011.93         80.05         452.17           27.13         69.45         1013.9         51.16         434.47           26.95         70.8         1009.73         82.95         436.8           19.4         42.44         1013.19         58.63         459.76           13.5         44.92         1023.87         87.17         468.85           11.97         41.04         1026.42         70.75         468.81           18.11         58.95         1016.61         89.17         454.29           24.1         71.29         1007.96         67.56         442.8	27.88	68.94	1007.68	75.68	435.04
25.67         74.78         1010.24         68.87         440.48           23.1         51.3         1011.93         80.05         452.17           27.13         69.45         1013.9         51.16         434.47           26.95         70.8         1009.73         82.95         436.8           19.4         42.44         1013.19         58.63         459.76           13.5         44.92         1023.87         87.17         468.85           11.97         41.04         1026.42         70.75         468.81           18.11         58.95         1016.61         89.17         454.29           24.1         71.29         1007.96         67.56         442.8	17.83	43.72	1008.64	78.72	453.86
23.1     51.3     1011.93     80.05     452.17       27.13     69.45     1013.9     51.16     434.47       26.95     70.8     1009.73     82.95     436.8       19.4     42.44     1013.19     58.63     459.76       13.5     44.92     1023.87     87.17     468.85       11.97     41.04     1026.42     70.75     468.81       18.11     58.95     1016.61     89.17     454.29       24.1     71.29     1007.96     67.56     442.8	7.64	42.28	1008.46	84.29	484.78
27.13     69.45     1013.9     51.16     434.47       26.95     70.8     1009.73     82.95     436.8       19.4     42.44     1013.19     58.63     459.76       13.5     44.92     1023.87     87.17     468.85       11.97     41.04     1026.42     70.75     468.81       18.11     58.95     1016.61     89.17     454.29       24.1     71.29     1007.96     67.56     442.8	25.67	74.78	1010.24	68.87	440.48
26.95     70.8     1009.73     82.95     436.8       19.4     42.44     1013.19     58.63     459.76       13.5     44.92     1023.87     87.17     468.85       11.97     41.04     1026.42     70.75     468.81       18.11     58.95     1016.61     89.17     454.29       24.1     71.29     1007.96     67.56     442.8	23.1	51.3	1011.93	80.05	452.17
19.4     42.44     1013.19     58.63     459.76       13.5     44.92     1023.87     87.17     468.85       11.97     41.04     1026.42     70.75     468.81       18.11     58.95     1016.61     89.17     454.29       24.1     71.29     1007.96     67.56     442.8	27.13	69.45	1013.9	51.16	434.47
13.5     44.92     1023.87     87.17     468.85       11.97     41.04     1026.42     70.75     468.81       18.11     58.95     1016.61     89.17     454.29       24.1     71.29     1007.96     67.56     442.8	26.95	70.8	1009.73	82.95	436.8
11.97     41.04     1026.42     70.75     468.81       18.11     58.95     1016.61     89.17     454.29       24.1     71.29     1007.96     67.56     442.8	19.4	42.44	1013.19	58.63	459.76
18.11     58.95     1016.61     89.17     454.29       24.1     71.29     1007.96     67.56     442.8	13.5	44.92	1023.87	87.17	468.85
24.1 71.29 1007.96 67.56 442.8	11.97	41.04	1026.42	70.75	468.81
	18.11	58.95	1016.61	89.17	454.29
20.29 65.27 1013.17 74.94 445.52	24.1	71.29	1007.96	67.56	442.8
	20.29	65.27	1013.17	74.94	445.52

21.82	65.27	1013.86	72.81	447.43
29.45	75.6	1018.12	50.68	437.31
10.87	38.38	1020.85	69.78	477.03
17.36	39.53	1008.28	68.87	456.57
24.97	58.95	1017.19	56.24	440.03
13.72	45.09	1012.95	87.41	466.24
26.49	61.86	1012.55	74.24	440.21
8.25	41.26	1020.59	91.84	475.17
12.8	44.9	1007.58	66.6	466.95
17.08	40.12	1012.17	81.5	457.81
31.4	71.06	1008.44	74.77	433.34
8.26	44.71	1020.85	68.82	485.19
21.22	59.15	1014.68	59.71	450.96
26.1	62.91	1012.44	60.91	446.05
19.91	51.19	1008	90.23	449.23
14.56	40.69	1015.48	73.73	469.31
10.22	41.74	1022.65	83.58	479.01
29.12	67.83	1008.05	46.86	432.46
16.97	39.16	1005.7	69.13	458.59
26.19	49.3	1003.69	65.88	440.13
23.65	66.05	1019.6	78.21	442.9
29.53	70.94	1007.22	70.68	432.43
19.69	56.65	1020.84	72.14	455.07
33.71	69.98	1013.09	42.62	431.99
32.14	75.08	1005.35	49.92	439.22
29.28	77.17	1009.4	76.3	433.14
7.01	37.8	1021.47	62.84	483.95
30.47	68.24	1009.55	64.98	427.94
29.13	47.93	1002.5	49.1	435.61
11.86	39.85	1013	66.92	478.29
26.16	52.36	1013.62	58.52	453.08
10.56	39.13	1010.19	87.12	463.14
8.58	40.72	1022.04	87.55	480.96

23.48         73.67         1007.07         88.49         437.19           5.54         45.87         1008.69         95.91         478.02           16.98         43.99         1021.65         81.17         456.07           30.08         67.25         1017.6         53.09         434.01           10.63         39.61         1020         72.42         476.99           30.36         74.87         1008.96         61.87         435.31           29.56         70.4         1006.49         82.95         432.85           19.94         56.53         1020.48         76.43         453.8           27.55         64.96         999.73         57.34         431.33           31.44         79.74         1006.95         56.99         431.69           25.35         74.33         1015.29         77.84         435.66           4.11         38.44         1015.9         81.79         488.05           30.59         70.04         1010.28         50.56         429.13           14.04         48.79         1017.62         75.25         464.09           15.47         44.9         1021.59         81.74         465.61	14.26	40.92	1022.07	73.96	460.38
16.98         43.99         1021.65         81.17         456.07           30.08         67.25         1017.6         53.09         434.01           10.63         39.61         1020         72.42         476.99           30.36         74.87         1008.96         61.87         435.31           29.56         70.4         1006.49         82.95         432.85           19.94         56.53         1020.48         76.43         453.8           27.55         64.96         999.73         57.34         431.33           31.44         79.74         1006.95         56.99         431.69           25.35         74.33         1015.29         77.84         435.66           4.11         38.44         1015.9         81.79         488.05           30.59         70.04         1010.28         50.56         429.13           14.04         48.79         1017.62         75.25         464.09           15.47         44.9         1021.59         81.74         465.61           8.67         40.77         1011.81         89.4         479.23           7.99         41.38         1021.95         78.77         487.57	23.48	73.67	1007.07	88.49	437.19
30.08         67.25         1017.6         53.09         434.01           10.63         39.61         1020         72.42         476.99           30.36         74.87         1008.96         61.87         435.31           29.56         70.4         1006.49         82.95         432.85           19.94         56.53         1020.48         76.43         453.8           27.55         64.96         999.73         57.34         431.33           31.44         79.74         1006.95         56.99         431.69           25.35         74.33         1015.29         77.84         435.66           4.11         38.44         1015.9         81.79         488.05           30.59         70.04         1010.28         50.56         429.13           14.04         48.79         1017.62         75.25         464.09           15.47         44.9         1021.59         81.74         465.61           8.67         40.77         1011.81         89.4         479.23           7.99         41.38         1021.95         78.77         487.57           22.29         45.01         1012.4         51.58         449.08	5.54	45.87	1008.69	95.91	478.02
10.63         39.61         1020         72.42         476.99           30.36         74.87         1008.96         61.87         435.31           29.56         70.4         1006.49         82.95         432.85           19.94         56.53         1020.48         76.43         453.8           27.55         64.96         999.73         57.34         431.33           31.44         79.74         1006.95         56.99         431.69           25.35         74.33         1015.29         77.84         435.66           4.11         38.44         1015.9         81.79         488.05           30.59         70.04         1010.28         50.56         429.13           14.04         48.79         1017.62         75.25         464.09           15.47         44.9         1021.59         81.74         465.61           8.67         40.77         1011.81         89.4         479.23           10.53         37.5         1008.55         99.91         472.32           7.99         41.38         1021.95         78.77         487.57           22.29         45.01         1012.4         51.58         449.08	16.98	43.99	1021.65	81.17	456.07
30.36         74.87         1008.96         61.87         435.31           29.56         70.4         1006.49         82.95         432.85           19.94         56.53         1020.48         76.43         453.8           27.55         64.96         999.73         57.34         431.33           31.44         79.74         1006.95         56.99         431.69           25.35         74.33         1015.29         77.84         435.66           4.11         38.44         1015.9         81.79         488.05           30.59         70.04         1010.28         50.56         429.13           14.04         48.79         1017.62         75.25         464.09           15.47         44.9         1021.59         81.74         465.61           8.67         40.77         1011.81         89.4         479.23           10.53         37.5         1008.55         99.91         472.32           7.99         41.38         1021.95         78.77         487.57           22.29         45.01         1012.4         51.58         449.08           9.06         36.3         1015.14         58.71         477.38	30.08	67.25	1017.6	53.09	434.01
29.56         70.4         1006.49         82.95         432.85           19.94         56.53         1020.48         76.43         453.8           27.55         64.96         999.73         57.34         431.33           31.44         79.74         1006.95         56.99         431.69           25.35         74.33         1015.29         77.84         435.66           4.11         38.44         1015.9         81.79         488.05           30.59         70.04         1010.28         50.56         429.13           14.04         48.79         1017.62         75.25         464.09           15.47         44.9         1021.59         81.74         465.61           8.67         40.77         1011.81         89.4         479.23           7.99         41.38         1021.95         78.77         487.57           22.29         45.01         1012.4         51.58         449.08           9.06         36.3         1015.14         58.71         477.38           10.05         37.14         1012.64         75.97         474.16           20.07         49.21         1012.34         56.8         454.25	10.63	39.61	1020	72.42	476.99
19.94         56.53         1020.48         76.43         453.8           27.55         64.96         999.73         57.34         431.33           31.44         79.74         1006.95         56.99         431.69           25.35         74.33         1015.29         77.84         435.66           4.11         38.44         1015.9         81.79         488.05           30.59         70.04         1010.28         50.56         429.13           14.04         48.79         1017.62         75.25         464.09           15.47         44.9         1021.59         81.74         465.61           8.67         40.77         1011.81         89.4         479.23           7.99         41.38         1021.95         78.77         487.57           22.29         45.01         1012.4         51.58         449.08           9.06         36.3         1015.14         58.71         477.38           10.05         37.14         1012.64         75.97         474.16           20.07         49.21         1012.34         56.8         454.25           30.65         71.98         1004.92         63.39         429.85	30.36	74.87	1008.96	61.87	435.31
27.55         64.96         999.73         57.34         431.33           31.44         79.74         1006.95         56.99         431.69           25.35         74.33         1015.29         77.84         435.66           4.11         38.44         1015.9         81.79         488.05           30.59         70.04         1010.28         50.56         429.13           14.04         48.79         1017.62         75.25         464.09           15.47         44.9         1021.59         81.74         465.61           8.67         40.77         1011.81         89.4         479.23           10.53         37.5         1008.55         99.91         472.32           7.99         41.38         1021.95         78.77         487.57           22.29         45.01         1012.4         51.58         449.08           9.06         36.3         1015.14         58.71         477.38           10.05         37.14         1012.64         75.97         474.16           20.07         49.21         1012.34         56.8         454.25           30.65         71.98         1004.92         63.39         429.85	29.56	70.4	1006.49	82.95	432.85
31.44         79.74         1006.95         56.99         431.69           25.35         74.33         1015.29         77.84         435.66           4.11         38.44         1015.9         81.79         488.05           30.59         70.04         1010.28         50.56         429.13           14.04         48.79         1017.62         75.25         464.09           15.47         44.9         1021.59         81.74         465.61           8.67         40.77         1011.81         89.4         479.23           10.53         37.5         1008.55         99.91         472.32           7.99         41.38         1021.95         78.77         487.57           22.29         45.01         1012.4         51.58         449.08           9.06         36.3         1015.14         58.71         477.38           10.05         37.14         1012.64         75.97         474.16           20.07         49.21         1012.34         56.8         454.25           30.65         71.98         1004.92         63.39         429.85           14.38         40.73         1017.48         90.64         462.98	19.94	56.53	1020.48	76.43	453.8
25.35         74.33         1015.29         77.84         435.66           4.11         38.44         1015.9         81.79         488.05           30.59         70.04         1010.28         50.56         429.13           14.04         48.79         1017.62         75.25         464.09           15.47         44.9         1021.59         81.74         465.61           8.67         40.77         1011.81         89.4         479.23           10.53         37.5         1008.55         99.91         472.32           7.99         41.38         1021.95         78.77         487.57           22.29         45.01         1012.4         51.58         449.08           9.06         36.3         1015.14         58.71         477.38           10.05         37.14         1012.64         75.97         474.16           20.07         49.21         1012.34         56.8         454.25           30.65         71.98         1004.92         63.39         429.85           14.38         40.73         1017.48         90.64         462.98           27.76         71.97         1008.53         86.97         434.04	27.55	64.96	999.73	57.34	431.33
4.11       38.44       1015.9       81.79       488.05         30.59       70.04       1010.28       50.56       429.13         14.04       48.79       1017.62       75.25       464.09         15.47       44.9       1021.59       81.74       465.61         8.67       40.77       1011.81       89.4       479.23         10.53       37.5       1008.55       99.91       472.32         7.99       41.38       1021.95       78.77       487.57         22.29       45.01       1012.4       51.58       449.08         9.06       36.3       1015.14       58.71       477.38         10.05       37.14       1012.64       75.97       474.16         20.07       49.21       1012.34       56.8       454.25         30.65       71.98       1004.92       63.39       429.85         14.38       40.73       1017.48       90.64       462.98         27.76       71.97       1008.53       86.97       434.04         16.7       40.56       1019.04       50.9       470.84         5.35       35.57       1027.12       80.81       488.65         <	31.44	79.74	1006.95	56.99	431.69
30.59         70.04         1010.28         50.56         429.13           14.04         48.79         1017.62         75.25         464.09           15.47         44.9         1021.59         81.74         465.61           8.67         40.77         1011.81         89.4         479.23           10.53         37.5         1008.55         99.91         472.32           7.99         41.38         1021.95         78.77         487.57           22.29         45.01         1012.4         51.58         449.08           9.06         36.3         1015.14         58.71         477.38           10.05         37.14         1012.64         75.97         474.16           20.07         49.21         1012.34         56.8         454.25           30.65         71.98         1004.92         63.39         429.85           14.38         40.73         1017.48         90.64         462.98           27.76         71.97         1008.53         86.97         434.04           16.7         40.56         1019.04         50.9         470.84           5.35         35.57         1027.12         80.81         488.65	25.35	74.33	1015.29	77.84	435.66
14.04       48.79       1017.62       75.25       464.09         15.47       44.9       1021.59       81.74       465.61         8.67       40.77       1011.81       89.4       479.23         10.53       37.5       1008.55       99.91       472.32         7.99       41.38       1021.95       78.77       487.57         22.29       45.01       1012.4       51.58       449.08         9.06       36.3       1015.14       58.71       477.38         10.05       37.14       1012.64       75.97       474.16         20.07       49.21       1012.34       56.8       454.25         30.65       71.98       1004.92       63.39       429.85         14.38       40.73       1017.48       90.64       462.98         27.76       71.97       1008.53       86.97       434.04         16.7       40.56       1019.04       50.9       470.84         5.35       35.57       1027.12       80.81       488.65         11.57       41.38       1021.71       61.49       473.94         30.57       73.03       1013.75       73.68       437.42	4.11	38.44	1015.9	81.79	488.05
15.47       44.9       1021.59       81.74       465.61         8.67       40.77       1011.81       89.4       479.23         10.53       37.5       1008.55       99.91       472.32         7.99       41.38       1021.95       78.77       487.57         22.29       45.01       1012.4       51.58       449.08         9.06       36.3       1015.14       58.71       477.38         10.05       37.14       1012.64       75.97       474.16         20.07       49.21       1012.34       56.8       454.25         30.65       71.98       1004.92       63.39       429.85         14.38       40.73       1017.48       90.64       462.98         27.76       71.97       1008.53       86.97       434.04         16.7       40.56       1019.04       50.9       470.84         5.35       35.57       1027.12       80.81       488.65         11.57       41.38       1021.71       61.49       473.94         30.57       73.03       1013.75       73.68       437.42         16       40.66       1016.12       89.23       457.12 <t< td=""><td>30.59</td><td>70.04</td><td>1010.28</td><td>50.56</td><td>429.13</td></t<>	30.59	70.04	1010.28	50.56	429.13
8.67       40.77       1011.81       89.4       479.23         10.53       37.5       1008.55       99.91       472.32         7.99       41.38       1021.95       78.77       487.57         22.29       45.01       1012.4       51.58       449.08         9.06       36.3       1015.14       58.71       477.38         10.05       37.14       1012.64       75.97       474.16         20.07       49.21       1012.34       56.8       454.25         30.65       71.98       1004.92       63.39       429.85         14.38       40.73       1017.48       90.64       462.98         27.76       71.97       1008.53       86.97       434.04         16.7       40.56       1019.04       50.9       470.84         5.35       35.57       1027.12       80.81       488.65         11.57       41.38       1021.71       61.49       473.94         30.57       73.03       1013.75       73.68       437.42         16       40.66       1016.12       89.23       457.12         15.6       41.04       1025.48       64.43       457.49 <td>14.04</td> <td>48.79</td> <td>1017.62</td> <td>75.25</td> <td>464.09</td>	14.04	48.79	1017.62	75.25	464.09
10.53       37.5       1008.55       99.91       472.32         7.99       41.38       1021.95       78.77       487.57         22.29       45.01       1012.4       51.58       449.08         9.06       36.3       1015.14       58.71       477.38         10.05       37.14       1012.64       75.97       474.16         20.07       49.21       1012.34       56.8       454.25         30.65       71.98       1004.92       63.39       429.85         14.38       40.73       1017.48       90.64       462.98         27.76       71.97       1008.53       86.97       434.04         16.7       40.56       1019.04       50.9       470.84         5.35       35.57       1027.12       80.81       488.65         11.57       41.38       1021.71       61.49       473.94         30.57       73.03       1013.75       73.68       437.42         16       40.66       1016.12       89.23       457.12         15.6       41.04       1025.48       64.43       457.49	15.47	44.9	1021.59	81.74	465.61
7.99       41.38       1021.95       78.77       487.57         22.29       45.01       1012.4       51.58       449.08         9.06       36.3       1015.14       58.71       477.38         10.05       37.14       1012.64       75.97       474.16         20.07       49.21       1012.34       56.8       454.25         30.65       71.98       1004.92       63.39       429.85         14.38       40.73       1017.48       90.64       462.98         27.76       71.97       1008.53       86.97       434.04         16.7       40.56       1019.04       50.9       470.84         5.35       35.57       1027.12       80.81       488.65         11.57       41.38       1021.71       61.49       473.94         30.57       73.03       1013.75       73.68       437.42         16       40.66       1016.12       89.23       457.12         15.6       41.04       1025.48       64.43       457.49	8.67	40.77	1011.81	89.4	479.23
22.29       45.01       1012.4       51.58       449.08         9.06       36.3       1015.14       58.71       477.38         10.05       37.14       1012.64       75.97       474.16         20.07       49.21       1012.34       56.8       454.25         30.65       71.98       1004.92       63.39       429.85         14.38       40.73       1017.48       90.64       462.98         27.76       71.97       1008.53       86.97       434.04         16.7       40.56       1019.04       50.9       470.84         5.35       35.57       1027.12       80.81       488.65         11.57       41.38       1021.71       61.49       473.94         30.57       73.03       1013.75       73.68       437.42         16       40.66       1016.12       89.23       457.12         15.6       41.04       1025.48       64.43       457.49	10.53	37.5	1008.55	99.91	472.32
9.06     36.3     1015.14     58.71     477.38       10.05     37.14     1012.64     75.97     474.16       20.07     49.21     1012.34     56.8     454.25       30.65     71.98     1004.92     63.39     429.85       14.38     40.73     1017.48     90.64     462.98       27.76     71.97     1008.53     86.97     434.04       16.7     40.56     1019.04     50.9     470.84       5.35     35.57     1027.12     80.81     488.65       11.57     41.38     1021.71     61.49     473.94       30.57     73.03     1013.75     73.68     437.42       16     40.66     1016.12     89.23     457.12       15.6     41.04     1025.48     64.43     457.49	7.99	41.38	1021.95	78.77	487.57
10.05       37.14       1012.64       75.97       474.16         20.07       49.21       1012.34       56.8       454.25         30.65       71.98       1004.92       63.39       429.85         14.38       40.73       1017.48       90.64       462.98         27.76       71.97       1008.53       86.97       434.04         16.7       40.56       1019.04       50.9       470.84         5.35       35.57       1027.12       80.81       488.65         11.57       41.38       1021.71       61.49       473.94         30.57       73.03       1013.75       73.68       437.42         16       40.66       1016.12       89.23       457.12         15.6       41.04       1025.48       64.43       457.49	22.29	45.01	1012.4	51.58	449.08
20.07       49.21       1012.34       56.8       454.25         30.65       71.98       1004.92       63.39       429.85         14.38       40.73       1017.48       90.64       462.98         27.76       71.97       1008.53       86.97       434.04         16.7       40.56       1019.04       50.9       470.84         5.35       35.57       1027.12       80.81       488.65         11.57       41.38       1021.71       61.49       473.94         30.57       73.03       1013.75       73.68       437.42         16       40.66       1016.12       89.23       457.12         15.6       41.04       1025.48       64.43       457.49	9.06	36.3	1015.14	58.71	477.38
30.65       71.98       1004.92       63.39       429.85         14.38       40.73       1017.48       90.64       462.98         27.76       71.97       1008.53       86.97       434.04         16.7       40.56       1019.04       50.9       470.84         5.35       35.57       1027.12       80.81       488.65         11.57       41.38       1021.71       61.49       473.94         30.57       73.03       1013.75       73.68       437.42         16       40.66       1016.12       89.23       457.12         15.6       41.04       1025.48       64.43       457.49	10.05	37.14	1012.64	75.97	474.16
14.38       40.73       1017.48       90.64       462.98         27.76       71.97       1008.53       86.97       434.04         16.7       40.56       1019.04       50.9       470.84         5.35       35.57       1027.12       80.81       488.65         11.57       41.38       1021.71       61.49       473.94         30.57       73.03       1013.75       73.68       437.42         16       40.66       1016.12       89.23       457.12         15.6       41.04       1025.48       64.43       457.49	20.07	49.21	1012.34	56.8	454.25
27.76       71.97       1008.53       86.97       434.04         16.7       40.56       1019.04       50.9       470.84         5.35       35.57       1027.12       80.81       488.65         11.57       41.38       1021.71       61.49       473.94         30.57       73.03       1013.75       73.68       437.42         16       40.66       1016.12       89.23       457.12         15.6       41.04       1025.48       64.43       457.49	30.65	71.98	1004.92	63.39	429.85
16.7     40.56     1019.04     50.9     470.84       5.35     35.57     1027.12     80.81     488.65       11.57     41.38     1021.71     61.49     473.94       30.57     73.03     1013.75     73.68     437.42       16     40.66     1016.12     89.23     457.12       15.6     41.04     1025.48     64.43     457.49	14.38	40.73	1017.48	90.64	462.98
5.35     35.57     1027.12     80.81     488.65       11.57     41.38     1021.71     61.49     473.94       30.57     73.03     1013.75     73.68     437.42       16     40.66     1016.12     89.23     457.12       15.6     41.04     1025.48     64.43     457.49	27.76	71.97	1008.53	86.97	434.04
11.57     41.38     1021.71     61.49     473.94       30.57     73.03     1013.75     73.68     437.42       16     40.66     1016.12     89.23     457.12       15.6     41.04     1025.48     64.43     457.49	16.7	40.56	1019.04	50.9	470.84
30.57     73.03     1013.75     73.68     437.42       16     40.66     1016.12     89.23     457.12       15.6     41.04     1025.48     64.43     457.49	5.35	35.57	1027.12	80.81	488.65
16     40.66     1016.12     89.23     457.12       15.6     41.04     1025.48     64.43     457.49	11.57	41.38	1021.71	61.49	473.94
15.6 41.04 1025.48 64.43 457.49	30.57	73.03	1013.75	73.68	437.42
	16	40.66	1016.12	89.23	457.12
22.12 47.93 1005.5 84.47 443.41	15.6	41.04	1025.48	64.43	457.49
	22.12	47.93	1005.5	84.47	443.41

21.33	58.46	1016.17	79.73	445.27
23.65	59.92	1010.19	89.53	436.74
6.8	39.37	1020.24	73.29	487.33
31.35	71.32	1005.99	62.35	434.43
23.99	68.12	1012.92	70.68	437.14
26.53	54.2	1012.9	66.73	439.96
31.59	62.7	1009.3	50.16	442.58
24.06	69.94	1005.47	60.46	436.88
27.28	44.89	1009.02	49.9	441.94
23.69	71.97	1009.62	93.03	438.62
11.46	39.1	1010.17	100.15	470.55
22.61	49.3	1003.51	83.02	441.76
21.84	45.09	1013.94	46.11	450.88
9.2	39.82	1013.19	91.25	482.89
17.75	49.25	1020.86	63.67	454.41
7.53	43.65	1018.58	64.85	479.15
16.76	45.09	1014.28	57.71	458.67
22.69	65.12	1016.35	72.02	446.91
11.91	44.45	1021.39	84.49	466.52
26.63	61.47	1008.18	69	444.16
6.72	39.85	1011.84	84.66	489.09
9.44	43.99	1020.31	98.06	475.01
18.32	45	1022.67	46.38	471.43
18.31	62.1	1020.38	79.02	455.24
26.57	44.57	1007.76	50.39	445.49
34.33	69.05	1000.89	37.9	430.56
14.85	40.8	1025.38	53.29	471.78
29.33	64.84	1010.76	53.32	443.15
8.77	40.46	1019.68	77.84	475
11.35	38.91	1017.93	83.45	474.22
21.38	44.05	1005.69	81.66	445.71
4.88	40.27	1012.66	74.51	491.29
26.66	64.27	1012.83	58.88	437.87
<u> </u>	1	I	I	1

13.04	45.09	1013	87.68	467.44
29.47	71.32	1008.07	67	437.14
18.91	56.9	1006.98	84.07	448.24
24.86	44.05	1005.69	66.65	447.2
9.42	41.4	1029.6	87.43	478.12
12.75	42.34	1018.17	94.67	465.44
21.32	49.02	1008.81	85.81	445.65
24.26	67.69	1008.48	66.74	437.4
20.01	43.77	1012.13	65.53	455.66
21.35	59.04	1012.28	95.71	445.83
17.43	63.09	1019.87	92.77	449.36
27.86	65.18	1012.87	55.53	436.26
20.74	59.8	1015.46	76.39	452.99
27.73	67.69	1007.47	59.42	431.72
9.53	41.44	1018.01	80.09	481.83
28.5	79.74	1006.75	87.09	433.08
21.39	52.3	1009.2	79.77	446.87
14.54	46.18	1015.29	94.48	463.03
28.01	65.34	1014.68	46.86	440.77
30.51	70.94	1007.64	59.42	430.91
21.63	60.84	1018.16	77.53	445.93
26.39	71.25	999.8	89.12	430.34
13.84	41.26	1020.92	74.74	462.46
17.27	43.52	1021.37	76.73	460.08
21.89	58.05	1011.31	85.71	441.76
24.02	64.63	1020.49	55.17	449.66
31.92	75.33	1001.81	61.97	436.38
12.97	49.83	1008.69	91.49	452.07
15.89	43.96	1014.02	75.24	467.35
9.25	41.26	1020.51	91.21	473.87
15.99	43.5	1021.34	73.22	460.7
9.06	39.66	1019.64	76.98	479.53
14.48	44.06	1018.73	75.88	467.46
L	<u> </u>		<u> </u>	1

27.15	59.21	1013.49	51.71	440.27
21.68	64.15	1021.09	70.88	454.32
28.16	61.47	1009.19	62.53	442.48
34.33	74.34	1001.74	42.75	435.76
31.98	64.05	1010.49	58.01	439.56
15.21	43.56	1012.92	56.61	467
13.56	42.34	1017.95	93.83	462.6
10.32	42.02	998.27	99.12	472.16
22.46	58.49	1011.5	70.54	448.46
29.3	68.08	1011.23	56.23	434.11
22.3	44.57	1008.48	67.58	449.74
21.91	70.32	1009.17	90.57	439.29
10.95	43.8	1022.61	63.46	473.2
24.96	68.12	1011.27	70.22	437.62
5.91	39.33	1010.18	95.53	491.49
5.25	40.07	1019.48	67.7	495.23
21.47	60.93	1006.46	87.83	442.75
10.16	39.3	1019.71	81.21	480.74
17.29	44.06	1016.24	77.56	461.38
17.46	40.22	1006.7	91.96	461.74
11.56	40.43	1025.48	74.75	489.54
7.51	41.01	1024.61	97.41	477.61
17.08	38.58	1015.41	73.42	461.49
9.27	42.02	1004.29	95.05	474.93
21.3	48.92	1010.92	65.09	447.89
8.51	40.81	1015.54	83.16	481.02
12.77	41.5	1014.13	86.8	470.68
25.04	65.48	1017.66	57.08	440.92
21.83	41.1	1001.91	41.79	453.38
15.92	41.79	1006.24	79.42	458.68
29.97	69.14	1007.92	66.74	433.82
9.8	41.82	1032.98	67.55	473.72
9.01	38.56	1016.67	63.61	482.37
<u> </u>	I	<u> </u>	<u> </u>	<u>ı</u>

20.57         63.78         1016.76         74         449.93           24.32         65.48         1017.55         59.02         443.31           21.41         50.32         1008.61         84.47         443.63           27.09         59.15         1013.02         55.18         438.9           23.49         47.45         1008.46         66.18         446.72           20         63.31         1017.06         63.1         449.68           13.4         41.58         1020.5         71.17         461.54           23.6         60.08         1017.51         63.02         451.97           21.03         70.02         1010.21         95.69         444.53           5.15         45.87         1008.02         98.36         479.61           17.16         58.86         1016.4         86.39         453.76           24.59         71.94         1006.89         88.52         430.28           23.05         65.94         1010.99         69.73         442.39           10.48         37.5         1009.81         95.26         474.57           15.72         43.02         1011.98         45.74         466.33	24.71	61.9	1013.78	85.82	443.39
21.41         50.32         1008.61         84.47         443.63           27.09         59.15         1013.02         55.18         438.9           23.49         47.45         1008.46         66.18         446.72           20         63.31         1017.06         63.1         449.68           13.4         41.58         1020.5         71.17         461.54           23.6         60.08         1017.51         63.02         451.97           21.03         70.02         1010.21         95.69         444.53           5.15         45.87         1008.02         98.36         479.61           17.16         58.86         1016.4         86.39         453.76           24.59         71.94         1006.89         88.52         430.28           23.05         65.94         1010.99         69.73         442.39           10.48         37.5         1009.81         95.26         474.57           15.72         43.02         1011.98         45.74         466.33           25.56         70.32         1009.07         90.63         433.72           13.78         41.16         1021.65         75.77         460.44	20.57	63.78	1016.76	74	449.93
27.09         59.15         1013.02         55.18         438.9           23.49         47.45         1008.46         66.18         446.72           20         63.31         1017.06         63.1         449.68           13.4         41.58         1020.5         71.17         461.54           23.6         60.08         1017.51         63.02         451.97           21.03         70.02         1010.21         95.69         444.53           5.15         45.87         1008.02         98.36         479.61           17.16         58.86         1016.4         86.39         453.76           24.59         71.94         1006.89         88.52         430.28           23.05         65.94         1010.99         69.73         442.39           10.48         37.5         1009.81         95.26         474.57           15.72         43.02         1011.98         45.74         466.33           25.56         70.32         1009.07         90.63         433.72           13.78         41.16         1021.65         75.77         460.44           29.35         69.04         1008.55         61.78         445.04	24.32	65.48	1017.55	59.02	443.31
23.49         47.45         1008.46         66.18         446.72           20         63.31         1017.06         63.1         449.68           13.4         41.58         1020.5         71.17         461.54           23.6         60.08         1017.51         63.02         451.97           21.03         70.02         1010.21         95.69         444.53           5.15         45.87         1008.02         98.36         479.61           17.16         58.86         1016.4         86.39         453.76           24.59         71.94         1006.89         88.52         430.28           23.05         65.94         1010.99         69.73         442.39           10.48         37.5         1009.81         95.26         474.57           15.72         43.02         1011.98         45.74         466.33           25.56         70.32         1009.07         90.63         433.72           13.78         41.16         1021.65         75.77         460.44           29.35         69.04         1008.55         61.78         445.04           32.09         79.74         1006.92         61.5         432.85	21.41	50.32	1008.61	84.47	443.63
20         63.31         1017.06         63.1         449.68           13.4         41.58         1020.5         71.17         461.54           23.6         60.08         1017.51         63.02         451.97           21.03         70.02         1010.21         95.69         444.53           5.15         45.87         1008.02         98.36         479.61           17.16         58.86         1016.4         86.39         453.76           24.59         71.94         1006.89         88.52         430.28           23.05         65.94         1010.99         69.73         442.39           10.48         37.5         1009.81         95.26         474.57           15.72         43.02         1011.98         45.74         466.33           25.56         70.32         1009.07         90.63         433.72           13.78         41.16         1021.65         75.77         460.44           29.35         69.04         1008.55         61.78         445.04           32.09         79.74         1006.92         61.5         432.85           25.16         77.3         1000.73         86.4         439.37	27.09	59.15	1013.02	55.18	438.9
13.4         41.58         1020.5         71.17         461.54           23.6         60.08         1017.51         63.02         451.97           21.03         70.02         1010.21         95.69         444.53           5.15         45.87         1008.02         98.36         479.61           17.16         58.86         1016.4         86.39         453.76           24.59         71.94         1006.89         88.52         430.28           23.05         65.94         1010.99         69.73         442.39           10.48         37.5         1009.81         95.26         474.57           15.72         43.02         1011.98         45.74         466.33           25.56         70.32         1009.07         90.63         433.72           13.78         41.16         1021.65         75.77         460.44           29.35         69.04         1008.55         61.78         445.04           32.09         79.74         1006.92         61.5         432.85           25.16         77.3         1000.73         86.4         439.37           14.63         40         1018.03         63.4         457.09	23.49	47.45	1008.46	66.18	446.72
23.6         60.08         1017.51         63.02         451.97           21.03         70.02         1010.21         95.69         444.53           5.15         45.87         1008.02         98.36         479.61           17.16         58.86         1016.4         86.39         453.76           24.59         71.94         1006.89         88.52         430.28           23.05         65.94         1010.99         69.73         442.39           10.48         37.5         1009.81         95.26         474.57           15.72         43.02         1011.98         45.74         466.33           25.56         70.32         1009.07         90.63         433.72           13.78         41.16         1021.65         75.77         460.44           29.35         69.04         1008.55         61.78         445.04           32.09         79.74         1006.92         61.5         432.85           25.16         77.3         1000.73         86.4         439.37           14.63         40         1018.03         63.4         457.09           5.7         40.35         1012.18         91.57         488.8	20	63.31	1017.06	63.1	449.68
21.03         70.02         1010.21         95.69         444.53           5.15         45.87         1008.02         98.36         479.61           17.16         58.86         1016.4         86.39         453.76           24.59         71.94         1006.89         88.52         430.28           23.05         65.94         1010.99         69.73         442.39           10.48         37.5         1009.81         95.26         474.57           15.72         43.02         1011.98         45.74         466.33           25.56         70.32         1009.07         90.63         433.72           13.78         41.16         1021.65         75.77         460.44           29.35         69.04         1008.55         61.78         445.04           32.09         79.74         1006.92         61.5         432.85           25.16         77.3         1000.73         86.4         439.37           14.63         40         1018.03         63.4         457.09           5.7         40.35         1012.18         91.57         488.8           28.15         74.9         1003.67         76.32         433.63	13.4	41.58	1020.5	71.17	461.54
5.15         45.87         1008.02         98.36         479.61           17.16         58.86         1016.4         86.39         453.76           24.59         71.94         1006.89         88.52         430.28           23.05         65.94         1010.99         69.73         442.39           10.48         37.5         1009.81         95.26         474.57           15.72         43.02         1011.98         45.74         466.33           25.56         70.32         1009.07         90.63         433.72           13.78         41.16         1021.65         75.77         460.44           29.35         69.04         1008.55         61.78         445.04           32.09         79.74         1006.92         61.5         432.85           25.16         77.3         1000.73         86.4         439.37           14.63         40         1018.03         63.4         457.09           5.7         40.35         1012.18         91.57         488.8           28.15         74.9         1003.67         76.32         433.63           22.3         57.19         1006.4         75.28         445.1 <t< td=""><td>23.6</td><td>60.08</td><td>1017.51</td><td>63.02</td><td>451.97</td></t<>	23.6	60.08	1017.51	63.02	451.97
17.16         58.86         1016.4         86.39         453.76           24.59         71.94         1006.89         88.52         430.28           23.05         65.94         1010.99         69.73         442.39           10.48         37.5         1009.81         95.26         474.57           15.72         43.02         1011.98         45.74         466.33           25.56         70.32         1009.07         90.63         433.72           13.78         41.16         1021.65         75.77         460.44           29.35         69.04         1008.55         61.78         445.04           32.09         79.74         1006.92         61.5         432.85           25.16         77.3         1000.73         86.4         439.37           14.63         40         1018.03         63.4         457.09           5.7         40.35         1012.18         91.57         488.8           28.15         74.9         1003.67         76.32         433.63           22.3         57.19         1006.4         75.28         445.1           27.71         72.99         1007.18         72.68         433.01      <	21.03	70.02	1010.21	95.69	444.53
24.59         71.94         1006.89         88.52         430.28           23.05         65.94         1010.99         69.73         442.39           10.48         37.5         1009.81         95.26         474.57           15.72         43.02         1011.98         45.74         466.33           25.56         70.32         1009.07         90.63         433.72           13.78         41.16         1021.65         75.77         460.44           29.35         69.04         1008.55         61.78         445.04           32.09         79.74         1006.92         61.5         432.85           25.16         77.3         1000.73         86.4         439.37           14.63         40         1018.03         63.4         457.09           5.7         40.35         1012.18         91.57         488.8           28.15         74.9         1003.67         76.32         433.63           22.3         57.19         1006.4         75.28         445.1           27.71         72.99         1007.18         72.68         433.01           23.09         45.01         1012.25         43.95         453.45	5.15	45.87	1008.02	98.36	479.61
23.05       65.94       1010.99       69.73       442.39         10.48       37.5       1009.81       95.26       474.57         15.72       43.02       1011.98       45.74       466.33         25.56       70.32       1009.07       90.63       433.72         13.78       41.16       1021.65       75.77       460.44         29.35       69.04       1008.55       61.78       445.04         32.09       79.74       1006.92       61.5       432.85         25.16       77.3       1000.73       86.4       439.37         14.63       40       1018.03       63.4       457.09         5.7       40.35       1012.18       91.57       488.8         28.15       74.9       1003.67       76.32       433.63         22.3       57.19       1006.4       75.28       445.1         27.71       72.99       1007.18       72.68       433.01         23.09       45.01       1012.25       43.95       453.45         19.66       42.18       1001.51       95.75       454.46         10.02       52.75       1021.93       73.68       473.09 <t< td=""><td>17.16</td><td>58.86</td><td>1016.4</td><td>86.39</td><td>453.76</td></t<>	17.16	58.86	1016.4	86.39	453.76
10.48       37.5       1009.81       95.26       474.57         15.72       43.02       1011.98       45.74       466.33         25.56       70.32       1009.07       90.63       433.72         13.78       41.16       1021.65       75.77       460.44         29.35       69.04       1008.55       61.78       445.04         32.09       79.74       1006.92       61.5       432.85         25.16       77.3       1000.73       86.4       439.37         14.63       40       1018.03       63.4       457.09         5.7       40.35       1012.18       91.57       488.8         28.15       74.9       1003.67       76.32       433.63         22.3       57.19       1006.4       75.28       445.1         27.71       72.99       1007.18       72.68       433.01         23.09       45.01       1012.25       43.95       453.45         19.66       42.18       1001.51       95.75       454.46         10.02       52.75       1021.93       73.68       473.09         23.97       68.67       1006.63       76.83       441.53 <t< td=""><td>24.59</td><td>71.94</td><td>1006.89</td><td>88.52</td><td>430.28</td></t<>	24.59	71.94	1006.89	88.52	430.28
15.72       43.02       1011.98       45.74       466.33         25.56       70.32       1009.07       90.63       433.72         13.78       41.16       1021.65       75.77       460.44         29.35       69.04       1008.55       61.78       445.04         32.09       79.74       1006.92       61.5       432.85         25.16       77.3       1000.73       86.4       439.37         14.63       40       1018.03       63.4       457.09         5.7       40.35       1012.18       91.57       488.8         28.15       74.9       1003.67       76.32       433.63         22.3       57.19       1006.4       75.28       445.1         27.71       72.99       1007.18       72.68       433.01         23.09       45.01       1012.25       43.95       453.45         19.66       42.18       1001.51       95.75       454.46         10.02       52.75       1021.93       73.68       473.09         23.97       68.67       1006.63       76.83       441.53         7.82       38.91       1015.58       90.11       479.15 <t< td=""><td>23.05</td><td>65.94</td><td>1010.99</td><td>69.73</td><td>442.39</td></t<>	23.05	65.94	1010.99	69.73	442.39
25.56       70.32       1009.07       90.63       433.72         13.78       41.16       1021.65       75.77       460.44         29.35       69.04       1008.55       61.78       445.04         32.09       79.74       1006.92       61.5       432.85         25.16       77.3       1000.73       86.4       439.37         14.63       40       1018.03       63.4       457.09         5.7       40.35       1012.18       91.57       488.8         28.15       74.9       1003.67       76.32       433.63         22.3       57.19       1006.4       75.28       445.1         27.71       72.99       1007.18       72.68       433.01         23.09       45.01       1012.25       43.95       453.45         19.66       42.18       1001.51       95.75       454.46         10.02       52.75       1021.93       73.68       473.09         23.97       68.67       1006.63       76.83       441.53         7.82       38.91       1015.58       90.11       479.15         30.21       69.4       1003.69       62.89       438.18 <td>10.48</td> <td>37.5</td> <td>1009.81</td> <td>95.26</td> <td>474.57</td>	10.48	37.5	1009.81	95.26	474.57
13.78       41.16       1021.65       75.77       460.44         29.35       69.04       1008.55       61.78       445.04         32.09       79.74       1006.92       61.5       432.85         25.16       77.3       1000.73       86.4       439.37         14.63       40       1018.03       63.4       457.09         5.7       40.35       1012.18       91.57       488.8         28.15       74.9       1003.67       76.32       433.63         22.3       57.19       1006.4       75.28       445.1         27.71       72.99       1007.18       72.68       433.01         23.09       45.01       1012.25       43.95       453.45         19.66       42.18       1001.51       95.75       454.46         10.02       52.75       1021.93       73.68       473.09         23.97       68.67       1006.63       76.83       441.53         7.82       38.91       1015.58       90.11       479.15         30.21       69.4       1003.69       62.89       438.18	15.72	43.02	1011.98	45.74	466.33
29.35       69.04       1008.55       61.78       445.04         32.09       79.74       1006.92       61.5       432.85         25.16       77.3       1000.73       86.4       439.37         14.63       40       1018.03       63.4       457.09         5.7       40.35       1012.18       91.57       488.8         28.15       74.9       1003.67       76.32       433.63         22.3       57.19       1006.4       75.28       445.1         27.71       72.99       1007.18       72.68       433.01         23.09       45.01       1012.25       43.95       453.45         19.66       42.18       1001.51       95.75       454.46         10.02       52.75       1021.93       73.68       473.09         23.97       68.67       1006.63       76.83       441.53         7.82       38.91       1015.58       90.11       479.15         30.21       69.4       1003.69       62.89       438.18	25.56	70.32	1009.07	90.63	433.72
32.09       79.74       1006.92       61.5       432.85         25.16       77.3       1000.73       86.4       439.37         14.63       40       1018.03       63.4       457.09         5.7       40.35       1012.18       91.57       488.8         28.15       74.9       1003.67       76.32       433.63         22.3       57.19       1006.4       75.28       445.1         27.71       72.99       1007.18       72.68       433.01         23.09       45.01       1012.25       43.95       453.45         19.66       42.18       1001.51       95.75       454.46         10.02       52.75       1021.93       73.68       473.09         23.97       68.67       1006.63       76.83       441.53         7.82       38.91       1015.58       90.11       479.15         30.21       69.4       1003.69       62.89       438.18	13.78	41.16	1021.65	75.77	460.44
25.16       77.3       1000.73       86.4       439.37         14.63       40       1018.03       63.4       457.09         5.7       40.35       1012.18       91.57       488.8         28.15       74.9       1003.67       76.32       433.63         22.3       57.19       1006.4       75.28       445.1         27.71       72.99       1007.18       72.68       433.01         23.09       45.01       1012.25       43.95       453.45         19.66       42.18       1001.51       95.75       454.46         10.02       52.75       1021.93       73.68       473.09         23.97       68.67       1006.63       76.83       441.53         7.82       38.91       1015.58       90.11       479.15         30.21       69.4       1003.69       62.89       438.18	29.35	69.04	1008.55	61.78	445.04
14.63       40       1018.03       63.4       457.09         5.7       40.35       1012.18       91.57       488.8         28.15       74.9       1003.67       76.32       433.63         22.3       57.19       1006.4       75.28       445.1         27.71       72.99       1007.18       72.68       433.01         23.09       45.01       1012.25       43.95       453.45         19.66       42.18       1001.51       95.75       454.46         10.02       52.75       1021.93       73.68       473.09         23.97       68.67       1006.63       76.83       441.53         7.82       38.91       1015.58       90.11       479.15         30.21       69.4       1003.69       62.89       438.18	32.09	79.74	1006.92	61.5	432.85
5.7       40.35       1012.18       91.57       488.8         28.15       74.9       1003.67       76.32       433.63         22.3       57.19       1006.4       75.28       445.1         27.71       72.99       1007.18       72.68       433.01         23.09       45.01       1012.25       43.95       453.45         19.66       42.18       1001.51       95.75       454.46         10.02       52.75       1021.93       73.68       473.09         23.97       68.67       1006.63       76.83       441.53         7.82       38.91       1015.58       90.11       479.15         30.21       69.4       1003.69       62.89       438.18	25.16	77.3	1000.73	86.4	439.37
28.15     74.9     1003.67     76.32     433.63       22.3     57.19     1006.4     75.28     445.1       27.71     72.99     1007.18     72.68     433.01       23.09     45.01     1012.25     43.95     453.45       19.66     42.18     1001.51     95.75     454.46       10.02     52.75     1021.93     73.68     473.09       23.97     68.67     1006.63     76.83     441.53       7.82     38.91     1015.58     90.11     479.15       30.21     69.4     1003.69     62.89     438.18	14.63	40	1018.03	63.4	457.09
22.3       57.19       1006.4       75.28       445.1         27.71       72.99       1007.18       72.68       433.01         23.09       45.01       1012.25       43.95       453.45         19.66       42.18       1001.51       95.75       454.46         10.02       52.75       1021.93       73.68       473.09         23.97       68.67       1006.63       76.83       441.53         7.82       38.91       1015.58       90.11       479.15         30.21       69.4       1003.69       62.89       438.18	5.7	40.35	1012.18	91.57	488.8
27.71       72.99       1007.18       72.68       433.01         23.09       45.01       1012.25       43.95       453.45         19.66       42.18       1001.51       95.75       454.46         10.02       52.75       1021.93       73.68       473.09         23.97       68.67       1006.63       76.83       441.53         7.82       38.91       1015.58       90.11       479.15         30.21       69.4       1003.69       62.89       438.18	28.15	74.9	1003.67	76.32	433.63
23.09       45.01       1012.25       43.95       453.45         19.66       42.18       1001.51       95.75       454.46         10.02       52.75       1021.93       73.68       473.09         23.97       68.67       1006.63       76.83       441.53         7.82       38.91       1015.58       90.11       479.15         30.21       69.4       1003.69       62.89       438.18	22.3	57.19	1006.4	75.28	445.1
19.66     42.18     1001.51     95.75     454.46       10.02     52.75     1021.93     73.68     473.09       23.97     68.67     1006.63     76.83     441.53       7.82     38.91     1015.58     90.11     479.15       30.21     69.4     1003.69     62.89     438.18	27.71	72.99	1007.18	72.68	433.01
10.02     52.75     1021.93     73.68     473.09       23.97     68.67     1006.63     76.83     441.53       7.82     38.91     1015.58     90.11     479.15       30.21     69.4     1003.69     62.89     438.18	23.09	45.01	1012.25	43.95	453.45
23.97     68.67     1006.63     76.83     441.53       7.82     38.91     1015.58     90.11     479.15       30.21     69.4     1003.69     62.89     438.18	19.66	42.18	1001.51	95.75	454.46
7.82     38.91     1015.58     90.11     479.15       30.21     69.4     1003.69     62.89     438.18	10.02	52.75	1021.93	73.68	473.09
30.21 69.4 1003.69 62.89 438.18	23.97	68.67	1006.63	76.83	441.53
	7.82	38.91	1015.58	90.11	479.15
24.12 62.44 1013.83 88.02 443.3	30.21	69.4	1003.69	62.89	438.18
	24.12	62.44	1013.83	88.02	443.3

13.93         40.24         1017.88         88.35         469.25           9.68         41.06         1022.75         87.44         476.67           17.48         49.39         1021.51         84.53         460.01           28.76         66.56         1006.07         62.41         432.3           19.21         53.16         1013.18         81.64         454.01           25.63         72.99         1008.2         86.8         436.64           20.36         66.05         1015.86         87.19         450.23           15.34         40.73         1018.03         86.19         458.55           9.55         40.72         1023.12         68.06         481.08           13.45         41.16         1022.04         82.96         460.57           10.8         39.58         1011.99         87.54         478.24           28.15         72.99         1007.62         70.03         431.83           15.42         40.56         1021.23         59.37         469.33           33.6         74.33         1012.31         35.66         428.62           30.92         78.05         1011         59.62         434.12	21.05	63.09	1016.49	91.23	447.45
17.48         49.39         1021.51         84.53         460.01           28.76         66.56         1006.07         62.41         432.3           19.21         53.16         1013.18         81.64         454.01           25.63         72.99         1008.2         86.8         436.64           20.36         66.05         1015.86         87.19         450.23           15.34         40.73         1018.03         86.19         458.55           9.55         40.72         1023.12         68.06         481.08           13.45         41.16         1022.04         82.96         460.57           10.8         39.58         1011.99         87.54         478.24           28.15         72.99         1007.62         70.03         431.83           15.42         40.56         1021.23         59.37         469.33           33.6         74.33         1012.31         35.66         428.62           30.92         78.05         1011         59.62         434.12           25.24         57.17         1010.44         74         442.77           13.6         41.2         1015.92         85.05         467.42	13.93	40.24	1017.88	88.35	469.25
28.76         66.56         1006.07         62.41         432.3           19.21         53.16         1013.18         81.64         454.01           25.63         72.99         1008.2         86.8         436.64           20.36         66.05         1015.86         87.19         450.23           15.34         40.73         1018.03         86.19         458.55           9.55         40.72         1023.12         68.06         481.08           13.45         41.16         1022.04         82.96         460.57           10.8         39.58         1011.99         87.54         478.24           28.15         72.99         1007.62         70.03         431.83           15.42         40.56         1021.23         59.37         469.33           33.6         74.33         1012.31         35.66         428.62           30.92         78.05         1011         59.62         434.12           25.24         57.17         1010.44         74         442.77           13.6         41.2         1015.92         85.05         467.42           18.68         46         1002.2         97.17         447.8	9.68	41.06	1022.75	87.44	476.67
19.21         53.16         1013.18         81.64         454.01           25.63         72.99         1008.2         86.8         436.64           20.36         66.05         1015.86         87.19         450.23           15.34         40.73         1018.03         86.19         458.55           9.55         40.72         1023.12         68.06         481.08           13.45         41.16         1022.04         82.96         460.57           10.8         39.58         1011.99         87.54         478.24           28.15         72.99         1007.62         70.03         431.83           15.42         40.56         1021.23         59.37         469.33           33.6         74.33         1012.31         35.66         428.62           30.92         78.05         1011         59.62         434.12           25.24         57.17         1010.44         74         442.77           13.6         41.2         1015.92         85.05         467.42           18.68         46         1002.2         97.17         447.8           22.43         69.84         1006.94         75.54         436.19 <tr< td=""><td>17.48</td><td>49.39</td><td>1021.51</td><td>84.53</td><td>460.01</td></tr<>	17.48	49.39	1021.51	84.53	460.01
25.63         72.99         1008.2         86.8         436.64           20.36         66.05         1015.86         87.19         450.23           15.34         40.73         1018.03         86.19         458.55           9.55         40.72         1023.12         68.06         481.08           13.45         41.16         1022.04         82.96         460.57           10.8         39.58         1011.99         87.54         478.24           28.15         72.99         1007.62         70.03         431.83           15.42         40.56         1021.23         59.37         469.33           33.6         74.33         1012.31         35.66         428.62           30.92         78.05         1011         59.62         434.12           25.24         57.17         1010.44         74         442.77           13.6         41.2         1015.92         85.05         467.42           18.68         46         1002.2         97.17         447.8           22.43         69.84         1006.94         75.54         436.19           23.37         70.94         1008.01         81.28         441.56 <tr< td=""><td>28.76</td><td>66.56</td><td>1006.07</td><td>62.41</td><td>432.3</td></tr<>	28.76	66.56	1006.07	62.41	432.3
20.36         66.05         1015.86         87.19         450.23           15.34         40.73         1018.03         86.19         458.55           9.55         40.72         1023.12         68.06         481.08           13.45         41.16         1022.04         82.96         460.57           10.8         39.58         1011.99         87.54         478.24           28.15         72.99         1007.62         70.03         431.83           15.42         40.56         1021.23         59.37         469.33           33.6         74.33         1012.31         35.66         428.62           30.92         78.05         1011         59.62         434.12           25.24         57.17         1010.44         74         442.77           13.6         41.2         1015.92         85.05         467.42           18.68         46         1002.2         97.17         447.8           22.43         69.84         1006.94         75.54         436.19           23.37         70.94         1008.01         81.28         441.56           19.62         43.56         1012.89         37.6         463.33 <t< td=""><td>19.21</td><td>53.16</td><td>1013.18</td><td>81.64</td><td>454.01</td></t<>	19.21	53.16	1013.18	81.64	454.01
15.34         40.73         1018.03         86.19         458.55           9.55         40.72         1023.12         68.06         481.08           13.45         41.16         1022.04         82.96         460.57           10.8         39.58         1011.99         87.54         478.24           28.15         72.99         1007.62         70.03         431.83           15.42         40.56         1021.23         59.37         469.33           33.6         74.33         1012.31         35.66         428.62           30.92         78.05         1011         59.62         434.12           25.24         57.17         1010.44         74         442.77           13.6         41.2         1015.92         85.05         467.42           18.68         46         1002.2         97.17         447.8           22.43         69.84         1006.94         75.54         436.19           23.37         70.94         1008.01         81.28         441.56           19.62         43.56         1012.89         37.6         463.33           14.35         39.39         1012.92         82.41         470.53 <t< td=""><td>25.63</td><td>72.99</td><td>1008.2</td><td>86.8</td><td>436.64</td></t<>	25.63	72.99	1008.2	86.8	436.64
9.55       40.72       1023.12       68.06       481.08         13.45       41.16       1022.04       82.96       460.57         10.8       39.58       1011.99       87.54       478.24         28.15       72.99       1007.62       70.03       431.83         15.42       40.56       1021.23       59.37       469.33         33.6       74.33       1012.31       35.66       428.62         30.92       78.05       1011       59.62       434.12         25.24       57.17       1010.44       74       442.77         13.6       41.2       1015.92       85.05       467.42         18.68       46       1002.2       97.17       447.8         22.43       69.84       1006.94       75.54       436.19         23.37       70.94       1008.01       81.28       441.56         19.62       43.56       1012.89       37.6       463.33         14.35       39.39       1012.92       82.41       470.53         24.88       63.91       1009.41       77.75       447.28         20.67       63.56       1013.27       79.39       450.7         3	20.36	66.05	1015.86	87.19	450.23
13.45         41.16         1022.04         82.96         460.57           10.8         39.58         1011.99         87.54         478.24           28.15         72.99         1007.62         70.03         431.83           15.42         40.56         1021.23         59.37         469.33           33.6         74.33         1012.31         35.66         428.62           30.92         78.05         1011         59.62         434.12           25.24         57.17         1010.44         74         442.77           13.6         41.2         1015.92         85.05         467.42           18.68         46         1002.2         97.17         447.8           22.43         69.84         1006.94         75.54         436.19           23.37         70.94         1008.01         81.28         441.56           19.62         43.56         1012.89         37.6         463.33           14.35         39.39         1012.92         82.41         470.53           24.88         63.91         1009.41         77.75         447.28           20.67         63.56         1013.27         79.39         450.7 <t< td=""><td>15.34</td><td>40.73</td><td>1018.03</td><td>86.19</td><td>458.55</td></t<>	15.34	40.73	1018.03	86.19	458.55
10.8         39.58         1011.99         87.54         478.24           28.15         72.99         1007.62         70.03         431.83           15.42         40.56         1021.23         59.37         469.33           33.6         74.33         1012.31         35.66         428.62           30.92         78.05         1011         59.62         434.12           25.24         57.17         1010.44         74         442.77           13.6         41.2         1015.92         85.05         467.42           18.68         46         1002.2         97.17         447.8           22.43         69.84         1006.94         75.54         436.19           23.37         70.94         1008.01         81.28         441.56           19.62         43.56         1012.89         37.6         463.33           14.35         39.39         1012.92         82.41         470.53           24.88         63.91         1009.41         77.75         447.28           20.67         63.56         1013.27         79.39         450.7           34.11         73.56         1006.77         45.92         432.78 <t< td=""><td>9.55</td><td>40.72</td><td>1023.12</td><td>68.06</td><td>481.08</td></t<>	9.55	40.72	1023.12	68.06	481.08
28.15       72.99       1007.62       70.03       431.83         15.42       40.56       1021.23       59.37       469.33         33.6       74.33       1012.31       35.66       428.62         30.92       78.05       1011       59.62       434.12         25.24       57.17       1010.44       74       442.77         13.6       41.2       1015.92       85.05       467.42         18.68       46       1002.2       97.17       447.8         22.43       69.84       1006.94       75.54       436.19         23.37       70.94       1008.01       81.28       441.56         19.62       43.56       1012.89       37.6       463.33         14.35       39.39       1012.92       82.41       470.53         24.88       63.91       1009.41       77.75       447.28         20.67       63.56       1013.27       79.39       450.7         34.11       73.56       1006.77       45.92       432.78         19.15       44.89       1009.6       74.52       451.09         24.96       70.47       1007.73       76.48       438.23	13.45	41.16	1022.04	82.96	460.57
15.42       40.56       1021.23       59.37       469.33         33.6       74.33       1012.31       35.66       428.62         30.92       78.05       1011       59.62       434.12         25.24       57.17       1010.44       74       442.77         13.6       41.2       1015.92       85.05       467.42         18.68       46       1002.2       97.17       447.8         22.43       69.84       1006.94       75.54       436.19         23.37       70.94       1008.01       81.28       441.56         19.62       43.56       1012.89       37.6       463.33         14.35       39.39       1012.92       82.41       470.53         24.88       63.91       1009.41       77.75       447.28         20.67       63.56       1013.27       79.39       450.7         34.11       73.56       1006.77       45.92       432.78         19.15       44.89       1009.6       74.52       451.09         24.96       70.47       1007.73       76.48       438.23         18.86       42.18       1001.16       98.58       457.07	10.8	39.58	1011.99	87.54	478.24
33.6       74.33       1012.31       35.66       428.62         30.92       78.05       1011       59.62       434.12         25.24       57.17       1010.44       74       442.77         13.6       41.2       1015.92       85.05       467.42         18.68       46       1002.2       97.17       447.8         22.43       69.84       1006.94       75.54       436.19         23.37       70.94       1008.01       81.28       441.56         19.62       43.56       1012.89       37.6       463.33         14.35       39.39       1012.92       82.41       470.53         24.88       63.91       1009.41       77.75       447.28         20.67       63.56       1013.27       79.39       450.7         34.11       73.56       1006.77       45.92       432.78         19.15       44.89       1009.6       74.52       451.09         24.96       70.47       1007.73       76.48       438.23         18.86       42.18       1001.16       98.58       457.07         25.1       60.37       1005.83       72.53       438.44         1	28.15	72.99	1007.62	70.03	431.83
30.92       78.05       1011       59.62       434.12         25.24       57.17       1010.44       74       442.77         13.6       41.2       1015.92       85.05       467.42         18.68       46       1002.2       97.17       447.8         22.43       69.84       1006.94       75.54       436.19         23.37       70.94       1008.01       81.28       441.56         19.62       43.56       1012.89       37.6       463.33         14.35       39.39       1012.92       82.41       470.53         24.88       63.91       1009.41       77.75       447.28         20.67       63.56       1013.27       79.39       450.7         34.11       73.56       1006.77       45.92       432.78         19.15       44.89       1009.6       74.52       451.09         24.96       70.47       1007.73       76.48       438.23         18.86       42.18       1001.16       98.58       457.07         25.1       60.37       1005.83       72.53       438.44         10.15       43.41       1018.4       82.07       473.43         2	15.42	40.56	1021.23	59.37	469.33
25.24         57.17         1010.44         74         442.77           13.6         41.2         1015.92         85.05         467.42           18.68         46         1002.2         97.17         447.8           22.43         69.84         1006.94         75.54         436.19           23.37         70.94         1008.01         81.28         441.56           19.62         43.56         1012.89         37.6         463.33           14.35         39.39         1012.92         82.41         470.53           24.88         63.91         1009.41         77.75         447.28           20.67         63.56         1013.27         79.39         450.7           34.11         73.56         1006.77         45.92         432.78           19.15         44.89         1009.6         74.52         451.09           24.96         70.47         1007.73         76.48         438.23           18.86         42.18         1001.16         98.58         457.07           25.1         60.37         1005.83         72.53         438.44           10.15         43.41         1018.4         82.07         473.43	33.6	74.33	1012.31	35.66	428.62
13.6       41.2       1015.92       85.05       467.42         18.68       46       1002.2       97.17       447.8         22.43       69.84       1006.94       75.54       436.19         23.37       70.94       1008.01       81.28       441.56         19.62       43.56       1012.89       37.6       463.33         14.35       39.39       1012.92       82.41       470.53         24.88       63.91       1009.41       77.75       447.28         20.67       63.56       1013.27       79.39       450.7         34.11       73.56       1006.77       45.92       432.78         19.15       44.89       1009.6       74.52       451.09         24.96       70.47       1007.73       76.48       438.23         18.86       42.18       1001.16       98.58       457.07         25.1       60.37       1005.83       72.53       438.44         10.15       43.41       1018.4       82.07       473.43         26.53       65.18       1012.77       64.37       437.39	30.92	78.05	1011	59.62	434.12
18.68       46       1002.2       97.17       447.8         22.43       69.84       1006.94       75.54       436.19         23.37       70.94       1008.01       81.28       441.56         19.62       43.56       1012.89       37.6       463.33         14.35       39.39       1012.92       82.41       470.53         24.88       63.91       1009.41       77.75       447.28         20.67       63.56       1013.27       79.39       450.7         34.11       73.56       1006.77       45.92       432.78         19.15       44.89       1009.6       74.52       451.09         24.96       70.47       1007.73       76.48       438.23         18.86       42.18       1001.16       98.58       457.07         25.1       60.37       1005.83       72.53       438.44         10.15       43.41       1018.4       82.07       473.43         26.53       65.18       1012.77       64.37       437.39	25.24	57.17	1010.44	74	442.77
22.43       69.84       1006.94       75.54       436.19         23.37       70.94       1008.01       81.28       441.56         19.62       43.56       1012.89       37.6       463.33         14.35       39.39       1012.92       82.41       470.53         24.88       63.91       1009.41       77.75       447.28         20.67       63.56       1013.27       79.39       450.7         34.11       73.56       1006.77       45.92       432.78         19.15       44.89       1009.6       74.52       451.09         24.96       70.47       1007.73       76.48       438.23         18.86       42.18       1001.16       98.58       457.07         25.1       60.37       1005.83       72.53       438.44         10.15       43.41       1018.4       82.07       473.43         26.53       65.18       1012.77       64.37       437.39	13.6	41.2	1015.92	85.05	467.42
23.37       70.94       1008.01       81.28       441.56         19.62       43.56       1012.89       37.6       463.33         14.35       39.39       1012.92       82.41       470.53         24.88       63.91       1009.41       77.75       447.28         20.67       63.56       1013.27       79.39       450.7         34.11       73.56       1006.77       45.92       432.78         19.15       44.89       1009.6       74.52       451.09         24.96       70.47       1007.73       76.48       438.23         18.86       42.18       1001.16       98.58       457.07         25.1       60.37       1005.83       72.53       438.44         10.15       43.41       1018.4       82.07       473.43         26.53       65.18       1012.77       64.37       437.39	18.68	46	1002.2	97.17	447.8
19.62       43.56       1012.89       37.6       463.33         14.35       39.39       1012.92       82.41       470.53         24.88       63.91       1009.41       77.75       447.28         20.67       63.56       1013.27       79.39       450.7         34.11       73.56       1006.77       45.92       432.78         19.15       44.89       1009.6       74.52       451.09         24.96       70.47       1007.73       76.48       438.23         18.86       42.18       1001.16       98.58       457.07         25.1       60.37       1005.83       72.53       438.44         10.15       43.41       1018.4       82.07       473.43         26.53       65.18       1012.77       64.37       437.39	22.43	69.84	1006.94	75.54	436.19
14.35     39.39     1012.92     82.41     470.53       24.88     63.91     1009.41     77.75     447.28       20.67     63.56     1013.27     79.39     450.7       34.11     73.56     1006.77     45.92     432.78       19.15     44.89     1009.6     74.52     451.09       24.96     70.47     1007.73     76.48     438.23       18.86     42.18     1001.16     98.58     457.07       25.1     60.37     1005.83     72.53     438.44       10.15     43.41     1018.4     82.07     473.43       26.53     65.18     1012.77     64.37     437.39	23.37	70.94	1008.01	81.28	441.56
24.88       63.91       1009.41       77.75       447.28         20.67       63.56       1013.27       79.39       450.7         34.11       73.56       1006.77       45.92       432.78         19.15       44.89       1009.6       74.52       451.09         24.96       70.47       1007.73       76.48       438.23         18.86       42.18       1001.16       98.58       457.07         25.1       60.37       1005.83       72.53       438.44         10.15       43.41       1018.4       82.07       473.43         26.53       65.18       1012.77       64.37       437.39	19.62	43.56	1012.89	37.6	463.33
20.67       63.56       1013.27       79.39       450.7         34.11       73.56       1006.77       45.92       432.78         19.15       44.89       1009.6       74.52       451.09         24.96       70.47       1007.73       76.48       438.23         18.86       42.18       1001.16       98.58       457.07         25.1       60.37       1005.83       72.53       438.44         10.15       43.41       1018.4       82.07       473.43         26.53       65.18       1012.77       64.37       437.39	14.35	39.39	1012.92	82.41	470.53
34.11     73.56     1006.77     45.92     432.78       19.15     44.89     1009.6     74.52     451.09       24.96     70.47     1007.73     76.48     438.23       18.86     42.18     1001.16     98.58     457.07       25.1     60.37     1005.83     72.53     438.44       10.15     43.41     1018.4     82.07     473.43       26.53     65.18     1012.77     64.37     437.39	24.88	63.91	1009.41	77.75	447.28
19.15     44.89     1009.6     74.52     451.09       24.96     70.47     1007.73     76.48     438.23       18.86     42.18     1001.16     98.58     457.07       25.1     60.37     1005.83     72.53     438.44       10.15     43.41     1018.4     82.07     473.43       26.53     65.18     1012.77     64.37     437.39	20.67	63.56	1013.27	79.39	450.7
24.96     70.47     1007.73     76.48     438.23       18.86     42.18     1001.16     98.58     457.07       25.1     60.37     1005.83     72.53     438.44       10.15     43.41     1018.4     82.07     473.43       26.53     65.18     1012.77     64.37     437.39	34.11	73.56	1006.77	45.92	432.78
18.86     42.18     1001.16     98.58     457.07       25.1     60.37     1005.83     72.53     438.44       10.15     43.41     1018.4     82.07     473.43       26.53     65.18     1012.77     64.37     437.39	19.15	44.89	1009.6	74.52	451.09
25.1     60.37     1005.83     72.53     438.44       10.15     43.41     1018.4     82.07     473.43       26.53     65.18     1012.77     64.37     437.39	24.96	70.47	1007.73	76.48	438.23
10.15     43.41     1018.4     82.07     473.43       26.53     65.18     1012.77     64.37     437.39	18.86	42.18	1001.16	98.58	457.07
26.53 65.18 1012.77 64.37 437.39	25.1	60.37	1005.83	72.53	438.44
	10.15	43.41	1018.4	82.07	473.43
26.05   46.21   1011.31   55.25   450.86	26.53	65.18	1012.77	64.37	437.39
	26.05	46.21	1011.31	55.25	450.86

25.45	74.33	1015.53	80.95	435.12
8.14	39.96	1023.41	88.86	477.05
31.95	67.17	1007.11	61.58	432.6
30.8	73.56	1007.39	75.78	432.43
7.69	43.02	1014.51	85.23	486.46
15.3	43.67	1011.75	95.31	468.14
27.12	70.32	1009.94	52.67	429.08
25.76	74.87	1010.18	65.15	443.7
10.28	39.64	1010.45	74.15	477.65
30.91	79.74	1006.92	56.32	433.84
24.22	61.86	1013.39	80.11	442.65
5.67	45.87	1008.91	93.29	478.44
22.96	68.61	1011.15	76.62	447.18
24.54	65.46	1014.27	40.77	446.26
11.32	36.18	1015.03	64.68	472.67
15.15	53.82	1016.34	62.59	461.6
23.53	50.05	1005.63	78.4	443.71
29.08	66.54	1004.67	64.5	430.16
20.42	60.77	1017.65	87.07	447.85