

MultipleRegression.R

2019-11-07

```
##Multivariate Project
##TELECOM-CHURN-ANALYSIS
##Author : Priyanshi Bajpai

##Importing Libraries

library(ggplot2)
library(dplyr)

## Warning: package 'dplyr' was built under R version 3.4.4

##
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':
##
##   filter, lag

## The following objects are masked from 'package:base':
##
##   intersect, setdiff, setequal, union

library (stringr)

## Warning: package 'stringr' was built under R version 3.4.4

library(data.table)

## Warning: package 'data.table' was built under R version 3.4.4

##
## Attaching package: 'data.table'

## The following objects are masked from 'package:dplyr':
##
##   between, first, last

library(grid)
library(gridExtra)

##
## Attaching package: 'gridExtra'

## The following object is masked from 'package:dplyr':
##
##   combine
```

```
library(corrplot)

## Warning: package 'corrplot' was built under R version 3.4.4
## corrplot 0.84 loaded

library(scales)
library(qqplotr)

## Warning: package 'qqplotr' was built under R version 3.4.4
##
## Attaching package: 'qqplotr'

## The following objects are masked from 'package:ggplot2':
##
##   stat_qq_line, StatQqLine

library(MASS)

## Warning: package 'MASS' was built under R version 3.4.4
##
## Attaching package: 'MASS'

## The following object is masked from 'package:dplyr':
##
##   select

library(DMwR)

## Warning: package 'DMwR' was built under R version 3.4.4
## Loading required package: lattice
## Warning: package 'lattice' was built under R version 3.4.4

library(car)

## Warning: package 'car' was built under R version 3.4.4
## Loading required package: carData
## Warning: package 'carData' was built under R version 3.4.4
##
## Attaching package: 'car'

## The following object is masked from 'package:dplyr':
##
##   recode

library(e1071)
library(caret)
```

```

library(caTools)
library(pROC)

## Warning: package 'pROC' was built under R version 3.4.4
## Type 'citation("pROC")' for a citation.
##
## Attaching package: 'pROC'

## The following objects are masked from 'package:stats':
##
##      cov, smooth, var

library(tidyverse)

## Warning: package 'tidyverse' was built under R version 3.4.4

## -- Attaching packages -----
## -- tidyverse 1.2.1 --

## v tibble  2.1.1      v readr   1.1.1
## v tidyr   0.8.3      v purrr   0.3.2
## v tibble  2.1.1      v forcats 0.3.0

## Warning: package 'tibble' was built under R version 3.4.4
## Warning: package 'tidyr' was built under R version 3.4.4
## Warning: package 'readr' was built under R version 3.4.4
## Warning: package 'purrr' was built under R version 3.4.4
## Warning: package 'forcats' was built under R version 3.4.4

## -- Conflicts -----
tidyverse_conflicts() --
## x data.table::between() masks dplyr::between()
## x readr::col_factor() masks scales::col_factor()
## x gridExtra::combine() masks dplyr::combine()
## x purrr::discard() masks scales::discard()
## x dplyr::filter() masks stats::filter()
## x data.table::first() masks dplyr::first()
## x dplyr::lag() masks stats::lag()
## x data.table::last() masks dplyr::last()
## x purrr::lift() masks caret::lift()
## x car::recode() masks dplyr::recode()
## x MASS::select() masks dplyr::select()
## x purrr::some() masks car::some()
## x qqplotr::stat_qq_line() masks ggplot2::stat_qq_line()
## x purrr::transpose() masks data.table::transpose()

library(MVA)

```

```

## Warning: package 'MVA' was built under R version 3.4.4
## Loading required package: HSAUR2
## Warning: package 'HSAUR2' was built under R version 3.4.4
## Loading required package: tools
library(GGally)
## Warning: package 'GGally' was built under R version 3.4.4
##
## Attaching package: 'GGally'
## The following object is masked from 'package:dplyr':
##
##      nasa
library(gvlma)
## Warning: package 'gvlma' was built under R version 3.4.4
##Importing Dataset and doing preliminary analysis
#Importing CSV file from drive on my local computer and viewing it
tablechurn<-read.csv("C:/Users/SHIVANSHI/Desktop/Priyanshi/MVA/Telecom Churn
Analysis Data.csv")
tablechurn <- as.data.frame(tablechurn)
View(tablechurn)

#Checking the Dimension of the dataset

dim(tablechurn)
## [1] 7043    21

#Viewing the first 4 rows of the dataset to get the overview of the dataset

head(tablechurn,4)
##   CustomerID Gender SeniorCitizen Partner Dependents Tenure PhoneService
## 1 7590-VHVEG Female           0     Yes         No        1           No
## 2 5575-GNVEDE  Male           0     No          No       34           Yes
## 3 3668-QPYBK   Male           0     No          No        2           Yes
## 4 7795-CFOCW   Male           0     No          No       45           No
##      MultipleLines InternetService OnlineSecurity OnlineBackup
## 1 No phone service          DSL              No          Yes
## 2                   No          DSL              Yes         No
## 3                   No          DSL              Yes         Yes
## 4 No phone service          DSL              Yes         No
##   DeviceProtection TechSupport StreamingTV StreamingMovies      Contract

```

```

## 1          No          No          No          No Month-to-month
## 2          Yes          No          No          No      One year
## 3          No          No          No          No Month-to-month
## 4          Yes          Yes          No          No      One year
##   PaperlessBilling      PaymentMethod MonthlyCharges TotalCharges
## 1          Yes          Electronic check      29.85      29.85
## 2          No          Mailed check      56.95      1889.50
## 3          Yes          Mailed check      53.85      108.15
## 4          No Bank transfer (automatic)      42.30      1840.75
##   Churn
## 1   No
## 2   No
## 3   Yes
## 4   No

```

#Gaining more insight about the kind of data stored in each column

`summary(tablechurn)`

```

##      CustomerID      Gender      SeniorCitizen      Partner      Dependents
## 0002-ORFBO: 1  Female:3488  Min. :0.0000  No :3641  No :4933
## 0003-MKNFE: 1  Male :3555  1st Qu.:0.0000  Yes:3402  Yes:2110
## 0004-TLHLJ: 1                      Median :0.0000
## 0011-IGKFF: 1                      Mean  :0.1621
## 0013-EXCHZ: 1                      3rd Qu.:0.0000
## 0013-MHZWF: 1                      Max.  :1.0000
## (Other) :7037
##      Tenure      PhoneService      MultipleLines      InternetService
## Min. : 0.00  No : 682  No :3390  DSL :2421
## 1st Qu.: 9.00  Yes:6361  No phone service: 682  Fiber optic:3096
## Median :29.00                      Yes :2971  No :1526
## Mean :32.37
## 3rd Qu.:55.00
## Max. :72.00
##
##      OnlineSecurity      OnlineBackup
## No :3498  No :3088
## No internet service:1526  No internet service:1526
## Yes :2019  Yes :2429
##
##
##
##      DeviceProtection      TechSupport
## No :3095  No :3473
## No internet service:1526  No internet service:1526
## Yes :2422  Yes :2044
##
##
##

```

```
##
##           StreamingTV           StreamingMovies
## No           :2810   No           :2785
## No internet service:1526 No internet service:1526
## Yes          :2707   Yes          :2732
##
##
##
##           Contract   PaperlessBilling           PaymentMethod
## Month-to-month:3875   No :2872           Bank transfer (automatic):1544
## One year           :1473   Yes:4171       Credit card (automatic) :1522
## Two year           :1695           Electronic check           :2365
##                                     Mailed check           :1612
##
##
##
## MonthlyCharges   TotalCharges   Churn
## Min.   : 18.25   Min.   : 18.8   No :5174
## 1st Qu.: 35.50   1st Qu.: 401.4   Yes:1869
## Median : 70.35   Median :1397.5
## Mean   : 64.76   Mean   :2283.3
## 3rd Qu.: 89.85   3rd Qu.:3794.7
## Max.   :118.75   Max.   :8684.8
##                                     NA's   :11
```

`glimpse(tablechurn)`

```
## Observations: 7,043
## Variables: 21
## $ CustomerID      <fct> 7590-VHVEG, 5575-GNVDE, 3668-QPYBK, 7795-CFOC...
## $ Gender           <fct> Female, Male, Male, Male, Female, Female, Mal...
## $ SeniorCitizen    <int> 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, ...
## $ Partner          <fct> Yes, No, No, No, No, No, No, No, No, Yes, No, Yes...
## $ Dependents       <fct> No, No, No, No, No, No, Yes, No, No, Yes, Yes...
## $ Tenure           <int> 1, 34, 2, 45, 2, 8, 22, 10, 28, 62, 13, 16, 5...
## $ PhoneService     <fct> No, Yes, Yes, No, Yes, Yes, Yes, No, Yes, Yes...
## $ MultipleLines    <fct> No phone service, No, No, No phone service, N...
## $ InternetService  <fct> DSL, DSL, DSL, DSL, Fiber optic, Fiber optic,...
## $ OnlineSecurity   <fct> No, Yes, Yes, Yes, No, No, No, Yes, No, Yes, ...
## $ OnlineBackup     <fct> Yes, No, Yes, No, No, No, Yes, No, No, Yes, N...
## $ DeviceProtection <fct> No, Yes, No, Yes, No, Yes, No, No, Yes, No, N...
## $ TechSupport      <fct> No, No, No, Yes, No, No, No, No, Yes, No, No,...
## $ StreamingTV      <fct> No, No, No, No, No, Yes, Yes, No, Yes, No, No...
## $ StreamingMovies  <fct> No, No, No, No, No, Yes, No, No, Yes, No, No,...
## $ Contract         <fct> Month-to-month, One year, Month-to-month, One...
## $ PaperlessBilling <fct> Yes, No, Yes, No, Yes, Yes, Yes, No, Yes, No,...
## $ PaymentMethod    <fct> Electronic check, Mailed check, Mailed check,...
## $ MonthlyCharges   <dbl> 29.85, 56.95, 53.85, 42.30, 70.70, 99.65, 89....
```

```
## $ TotalCharges      <dbl> 29.85, 1889.50, 108.15, 1840.75, 151.65, 820....
## $ Churn              <fct> No, No, Yes, No, Yes, Yes, No, No, Yes, No, N...
```

#The above results give us an insight that TotalCharges and MonthlyCharges are numerical values

#SeniorCitizen and Tenure are stored as numerical which need to be converted to categorical variables

Performing Data Cleaning and Formatting

#Converting SeniorCitizen numerical variable into Categorical Variable

```
tablechurn$SeniorCitizen<-factor(tablechurn$SeniorCitizen,levels = c(0,1),labels = c('no','yes'))
```

#Converting tenure values into ranges of 12 months

```
tablechurn <- mutate(tablechurn,Tenure_Range = Tenure)
cut(tablechurn$Tenure_Range,6,labels = c('0-1 Years','1-2 Years','2-3 Years','4-5 Years','5-6 Years','6-7 Years'))
```

```
##      [1] 0-1 Years 2-3 Years 0-1 Years 4-5 Years 0-1 Years 0-1 Years
##      [7] 1-2 Years 0-1 Years 2-3 Years 6-7 Years 1-2 Years 1-2 Years
##     [13] 5-6 Years 5-6 Years 2-3 Years 6-7 Years 5-6 Years 6-7 Years
##     [19] 0-1 Years 1-2 Years 0-1 Years 0-1 Years 0-1 Years 5-6 Years
##     [25] 5-6 Years 2-3 Years 4-5 Years 0-1 Years 6-7 Years 1-2 Years
##     [31] 6-7 Years 0-1 Years 2-3 Years 0-1 Years 0-1 Years 6-7 Years
##     [37] 0-1 Years 4-5 Years 2-3 Years 0-1 Years 0-1 Years 6-7 Years
##     [43] 1-2 Years 6-7 Years 1-2 Years 5-6 Years 0-1 Years 0-1 Years
##     [49] 5-6 Years 6-7 Years 4-5 Years 1-2 Years 2-3 Years 0-1 Years
##     [55] 5-6 Years 1-2 Years 6-7 Years 6-7 Years 2-3 Years 6-7 Years
##     [61] 4-5 Years 5-6 Years 6-7 Years 1-2 Years 0-1 Years 0-1 Years
##     [67] 4-5 Years 2-3 Years 5-6 Years 0-1 Years 0-1 Years 5-6 Years
##     [73] 6-7 Years 6-7 Years 0-1 Years 5-6 Years 4-5 Years 0-1 Years
##     [79] 2-3 Years 4-5 Years 0-1 Years 0-1 Years 0-1 Years 4-5 Years
##     [85] 5-6 Years 0-1 Years 2-3 Years 4-5 Years 4-5 Years 2-3 Years
##     [91] 2-3 Years 0-1 Years 6-7 Years 6-7 Years 6-7 Years 0-1 Years
##     [97] 6-7 Years 0-1 Years 5-6 Years 2-3 Years 0-1 Years 0-1 Years
##    [103] 4-5 Years 6-7 Years 6-7 Years 0-1 Years 6-7 Years 2-3 Years
##    [109] 4-5 Years 6-7 Years 5-6 Years 5-6 Years 4-5 Years 4-5 Years
##    [115] 6-7 Years 0-1 Years 2-3 Years 0-1 Years 4-5 Years 2-3 Years
##    [121] 5-6 Years 0-1 Years 0-1 Years 0-1 Years 0-1 Years 2-3 Years
##    [127] 2-3 Years 6-7 Years 0-1 Years 6-7 Years 1-2 Years 2-3 Years
##    [133] 6-7 Years 0-1 Years 0-1 Years 4-5 Years 1-2 Years 6-7 Years
##    [139] 5-6 Years 0-1 Years 6-7 Years 0-1 Years 6-7 Years 6-7 Years
##    [145] 6-7 Years 6-7 Years 0-1 Years 0-1 Years 2-3 Years 1-2 Years
##    [151] 0-1 Years 0-1 Years 6-7 Years 6-7 Years 0-1 Years 1-2 Years
##    [157] 1-2 Years 1-2 Years 1-2 Years 0-1 Years 1-2 Years 1-2 Years
##    [163] 0-1 Years 5-6 Years 0-1 Years 6-7 Years 0-1 Years 6-7 Years
##    [169] 5-6 Years 1-2 Years 4-5 Years 0-1 Years 1-2 Years 5-6 Years
```

##	[175]	2-3 Years	2-3 Years	1-2 Years	0-1 Years	1-2 Years	6-7 Years
##	[181]	0-1 Years	0-1 Years	0-1 Years	2-3 Years	1-2 Years	0-1 Years
##	[187]	1-2 Years	0-1 Years	1-2 Years	4-5 Years	4-5 Years	0-1 Years
##	[193]	6-7 Years	6-7 Years	5-6 Years	1-2 Years	1-2 Years	5-6 Years
##	[199]	6-7 Years	0-1 Years	2-3 Years	1-2 Years	6-7 Years	1-2 Years
##	[205]	4-5 Years	2-3 Years	6-7 Years	0-1 Years	1-2 Years	6-7 Years
##	[211]	0-1 Years	0-1 Years	6-7 Years	2-3 Years	1-2 Years	5-6 Years
##	[217]	6-7 Years	6-7 Years	6-7 Years	0-1 Years	0-1 Years	6-7 Years
##	[223]	0-1 Years	0-1 Years	0-1 Years	1-2 Years	2-3 Years	0-1 Years
##	[229]	2-3 Years	4-5 Years	5-6 Years	5-6 Years	0-1 Years	6-7 Years
##	[235]	2-3 Years	0-1 Years	0-1 Years	1-2 Years	0-1 Years	1-2 Years
##	[241]	6-7 Years	6-7 Years	4-5 Years	6-7 Years	1-2 Years	0-1 Years
##	[247]	4-5 Years	1-2 Years	0-1 Years	4-5 Years	5-6 Years	0-1 Years
##	[253]	0-1 Years	2-3 Years	0-1 Years	6-7 Years	6-7 Years	5-6 Years
##	[259]	0-1 Years	2-3 Years	0-1 Years	1-2 Years	5-6 Years	2-3 Years
##	[265]	4-5 Years	6-7 Years	5-6 Years	1-2 Years	5-6 Years	6-7 Years
##	[271]	1-2 Years	5-6 Years	0-1 Years	1-2 Years	0-1 Years	0-1 Years
##	[277]	5-6 Years	1-2 Years	1-2 Years	0-1 Years	0-1 Years	0-1 Years
##	[283]	0-1 Years	6-7 Years	1-2 Years	1-2 Years	1-2 Years	0-1 Years
##	[289]	0-1 Years	0-1 Years	1-2 Years	2-3 Years	1-2 Years	0-1 Years
##	[295]	0-1 Years	0-1 Years	6-7 Years	2-3 Years	4-5 Years	0-1 Years
##	[301]	1-2 Years	0-1 Years	0-1 Years	6-7 Years	4-5 Years	5-6 Years
##	[307]	2-3 Years	2-3 Years	4-5 Years	4-5 Years	0-1 Years	1-2 Years
##	[313]	4-5 Years	0-1 Years	0-1 Years	5-6 Years	6-7 Years	4-5 Years
##	[319]	1-2 Years	2-3 Years	5-6 Years	6-7 Years	0-1 Years	0-1 Years
##	[325]	6-7 Years	5-6 Years	0-1 Years	0-1 Years	2-3 Years	1-2 Years
##	[331]	2-3 Years	0-1 Years	4-5 Years	0-1 Years	0-1 Years	6-7 Years
##	[337]	4-5 Years	6-7 Years	2-3 Years	6-7 Years	2-3 Years	6-7 Years
##	[343]	6-7 Years	6-7 Years	4-5 Years	0-1 Years	0-1 Years	6-7 Years
##	[349]	1-2 Years	6-7 Years	4-5 Years	1-2 Years	0-1 Years	0-1 Years
##	[355]	1-2 Years	0-1 Years	1-2 Years	6-7 Years	2-3 Years	4-5 Years
##	[361]	0-1 Years	4-5 Years	5-6 Years	4-5 Years	1-2 Years	0-1 Years
##	[367]	1-2 Years	0-1 Years	6-7 Years	6-7 Years	2-3 Years	0-1 Years
##	[373]	1-2 Years	5-6 Years	4-5 Years	4-5 Years	0-1 Years	2-3 Years
##	[379]	6-7 Years	1-2 Years	4-5 Years	0-1 Years	6-7 Years	0-1 Years
##	[385]	4-5 Years	0-1 Years	5-6 Years	4-5 Years	4-5 Years	0-1 Years
##	[391]	2-3 Years	2-3 Years	0-1 Years	1-2 Years	4-5 Years	6-7 Years
##	[397]	2-3 Years	2-3 Years	2-3 Years	1-2 Years	2-3 Years	0-1 Years
##	[403]	6-7 Years	6-7 Years	1-2 Years	6-7 Years	5-6 Years	2-3 Years
##	[409]	0-1 Years	0-1 Years	0-1 Years	4-5 Years	2-3 Years	5-6 Years
##	[415]	4-5 Years	1-2 Years	6-7 Years	4-5 Years	1-2 Years	0-1 Years
##	[421]	0-1 Years	0-1 Years	2-3 Years	4-5 Years	0-1 Years	5-6 Years
##	[427]	5-6 Years	0-1 Years	1-2 Years	6-7 Years	6-7 Years	6-7 Years
##	[433]	0-1 Years	0-1 Years	4-5 Years	2-3 Years	2-3 Years	6-7 Years
##	[439]	2-3 Years	0-1 Years	1-2 Years	5-6 Years	5-6 Years	1-2 Years
##	[445]	2-3 Years	5-6 Years	0-1 Years	5-6 Years	0-1 Years	6-7 Years
##	[451]	6-7 Years	1-2 Years	5-6 Years	2-3 Years	6-7 Years	1-2 Years
##	[457]	2-3 Years	2-3 Years	0-1 Years	0-1 Years	0-1 Years	1-2 Years
##	[463]	0-1 Years	0-1 Years	6-7 Years	6-7 Years	6-7 Years	6-7 Years
##	[469]	4-5 Years	1-2 Years	1-2 Years	0-1 Years	0-1 Years	1-2 Years

##	[475]	0-1 Years	1-2 Years	2-3 Years	0-1 Years	0-1 Years	1-2 Years
##	[481]	0-1 Years	4-5 Years	1-2 Years	6-7 Years	0-1 Years	6-7 Years
##	[487]	1-2 Years	6-7 Years	0-1 Years	0-1 Years	6-7 Years	0-1 Years
##	[493]	0-1 Years	6-7 Years	0-1 Years	1-2 Years	2-3 Years	6-7 Years
##	[499]	0-1 Years	0-1 Years	2-3 Years	6-7 Years	6-7 Years	5-6 Years
##	[505]	6-7 Years	1-2 Years	0-1 Years	0-1 Years	0-1 Years	0-1 Years
##	[511]	1-2 Years	6-7 Years	0-1 Years	5-6 Years	2-3 Years	4-5 Years
##	[517]	2-3 Years	0-1 Years	2-3 Years	0-1 Years	6-7 Years	2-3 Years
##	[523]	5-6 Years	1-2 Years	2-3 Years	5-6 Years	6-7 Years	5-6 Years
##	[529]	2-3 Years	5-6 Years	1-2 Years	6-7 Years	0-1 Years	6-7 Years
##	[535]	0-1 Years	0-1 Years	6-7 Years	2-3 Years	6-7 Years	5-6 Years
##	[541]	6-7 Years	0-1 Years	0-1 Years	0-1 Years	1-2 Years	2-3 Years
##	[547]	4-5 Years	6-7 Years	5-6 Years	1-2 Years	6-7 Years	6-7 Years
##	[553]	5-6 Years	1-2 Years	2-3 Years	5-6 Years	0-1 Years	4-5 Years
##	[559]	0-1 Years	0-1 Years	5-6 Years	0-1 Years	0-1 Years	5-6 Years
##	[565]	0-1 Years	6-7 Years	1-2 Years	6-7 Years	2-3 Years	0-1 Years
##	[571]	5-6 Years	4-5 Years	0-1 Years	5-6 Years	2-3 Years	6-7 Years
##	[577]	2-3 Years	0-1 Years	2-3 Years	0-1 Years	0-1 Years	0-1 Years
##	[583]	0-1 Years	0-1 Years	0-1 Years	0-1 Years	5-6 Years	0-1 Years
##	[589]	6-7 Years	6-7 Years	6-7 Years	4-5 Years	6-7 Years	2-3 Years
##	[595]	0-1 Years	0-1 Years	1-2 Years	0-1 Years	5-6 Years	6-7 Years
##	[601]	1-2 Years	0-1 Years	6-7 Years	4-5 Years	2-3 Years	6-7 Years
##	[607]	4-5 Years	5-6 Years	6-7 Years	6-7 Years	0-1 Years	0-1 Years
##	[613]	6-7 Years	4-5 Years	5-6 Years	1-2 Years	0-1 Years	6-7 Years
##	[619]	5-6 Years	0-1 Years	0-1 Years	6-7 Years	4-5 Years	1-2 Years
##	[625]	0-1 Years	2-3 Years	1-2 Years	6-7 Years	6-7 Years	5-6 Years
##	[631]	4-5 Years	4-5 Years	6-7 Years	0-1 Years	4-5 Years	6-7 Years
##	[637]	2-3 Years	6-7 Years	5-6 Years	0-1 Years	6-7 Years	4-5 Years
##	[643]	0-1 Years	5-6 Years	1-2 Years	1-2 Years	0-1 Years	5-6 Years
##	[649]	0-1 Years	1-2 Years	0-1 Years	0-1 Years	2-3 Years	1-2 Years
##	[655]	0-1 Years	0-1 Years	6-7 Years	4-5 Years	0-1 Years	4-5 Years
##	[661]	0-1 Years	0-1 Years	0-1 Years	6-7 Years	5-6 Years	0-1 Years
##	[667]	0-1 Years	5-6 Years	0-1 Years	6-7 Years	5-6 Years	5-6 Years
##	[673]	0-1 Years	1-2 Years	5-6 Years	6-7 Years	4-5 Years	0-1 Years
##	[679]	0-1 Years	4-5 Years	0-1 Years	6-7 Years	0-1 Years	4-5 Years
##	[685]	0-1 Years	0-1 Years	5-6 Years	0-1 Years	5-6 Years	5-6 Years
##	[691]	0-1 Years	2-3 Years	4-5 Years	0-1 Years	1-2 Years	0-1 Years
##	[697]	6-7 Years	0-1 Years	4-5 Years	6-7 Years	6-7 Years	2-3 Years
##	[703]	2-3 Years	0-1 Years	0-1 Years	2-3 Years	6-7 Years	2-3 Years
##	[709]	2-3 Years	2-3 Years	0-1 Years	1-2 Years	5-6 Years	1-2 Years
##	[715]	6-7 Years	4-5 Years	6-7 Years	2-3 Years	2-3 Years	6-7 Years
##	[721]	0-1 Years	6-7 Years	0-1 Years	0-1 Years	2-3 Years	0-1 Years
##	[727]	1-2 Years	0-1 Years	2-3 Years	6-7 Years	4-5 Years	0-1 Years
##	[733]	2-3 Years	6-7 Years	2-3 Years	2-3 Years	2-3 Years	6-7 Years
##	[739]	4-5 Years	6-7 Years	4-5 Years	0-1 Years	0-1 Years	6-7 Years
##	[745]	0-1 Years	6-7 Years	6-7 Years	0-1 Years	4-5 Years	6-7 Years
##	[751]	2-3 Years	6-7 Years	0-1 Years	0-1 Years	0-1 Years	1-2 Years
##	[757]	6-7 Years	0-1 Years	1-2 Years	6-7 Years	0-1 Years	1-2 Years
##	[763]	0-1 Years	6-7 Years	6-7 Years	0-1 Years	1-2 Years	1-2 Years
##	[769]	4-5 Years	1-2 Years	0-1 Years	1-2 Years	0-1 Years	0-1 Years

##	[775]	2-3 Years	6-7 Years	0-1 Years	0-1 Years	5-6 Years	0-1 Years
##	[781]	6-7 Years	0-1 Years	2-3 Years	0-1 Years	6-7 Years	4-5 Years
##	[787]	6-7 Years	2-3 Years	1-2 Years	6-7 Years	5-6 Years	6-7 Years
##	[793]	0-1 Years	2-3 Years	0-1 Years	0-1 Years	2-3 Years	1-2 Years
##	[799]	0-1 Years	6-7 Years	6-7 Years	0-1 Years	4-5 Years	4-5 Years
##	[805]	0-1 Years	6-7 Years	1-2 Years	6-7 Years	4-5 Years	0-1 Years
##	[811]	5-6 Years	6-7 Years	4-5 Years	2-3 Years	0-1 Years	2-3 Years
##	[817]	0-1 Years	5-6 Years	1-2 Years	6-7 Years	6-7 Years	4-5 Years
##	[823]	4-5 Years	0-1 Years	6-7 Years	1-2 Years	0-1 Years	1-2 Years
##	[829]	5-6 Years	2-3 Years	5-6 Years	4-5 Years	6-7 Years	4-5 Years
##	[835]	0-1 Years	5-6 Years	6-7 Years	0-1 Years	2-3 Years	4-5 Years
##	[841]	5-6 Years	6-7 Years	0-1 Years	1-2 Years	0-1 Years	1-2 Years
##	[847]	6-7 Years	0-1 Years	6-7 Years	6-7 Years	6-7 Years	5-6 Years
##	[853]	0-1 Years	0-1 Years	6-7 Years	6-7 Years	6-7 Years	0-1 Years
##	[859]	6-7 Years	6-7 Years	2-3 Years	6-7 Years	1-2 Years	0-1 Years
##	[865]	1-2 Years	0-1 Years	6-7 Years	0-1 Years	5-6 Years	0-1 Years
##	[871]	6-7 Years	5-6 Years	6-7 Years	5-6 Years	4-5 Years	0-1 Years
##	[877]	1-2 Years	5-6 Years	5-6 Years	2-3 Years	0-1 Years	2-3 Years
##	[883]	0-1 Years	6-7 Years	5-6 Years	0-1 Years	0-1 Years	2-3 Years
##	[889]	4-5 Years	6-7 Years	2-3 Years	5-6 Years	2-3 Years	0-1 Years
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##	[901]	0-1 Years	0-1 Years	1-2 Years	5-6 Years	6-7 Years	0-1 Years
##	[907]	0-1 Years	1-2 Years	0-1 Years	6-7 Years	0-1 Years	1-2 Years
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## [6775] 0-1 Years 5-6 Years 6-7 Years 0-1 Years 6-7 Years 2-3 Years
## [6781] 1-2 Years 0-1 Years 0-1 Years 1-2 Years 1-2 Years 6-7 Years
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## [6817] 0-1 Years 6-7 Years 0-1 Years 5-6 Years 5-6 Years 1-2 Years
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## [6871] 5-6 Years 5-6 Years 6-7 Years 6-7 Years 2-3 Years 6-7 Years
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## [6913] 0-1 Years 6-7 Years 4-5 Years 6-7 Years 4-5 Years 6-7 Years
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## [6967] 5-6 Years 2-3 Years 1-2 Years 0-1 Years 0-1 Years 1-2 Years
## [6973] 5-6 Years 5-6 Years 5-6 Years 1-2 Years 6-7 Years 1-2 Years
## [6979] 6-7 Years 0-1 Years 1-2 Years 0-1 Years 6-7 Years 1-2 Years
## [6985] 2-3 Years 4-5 Years 2-3 Years 2-3 Years 1-2 Years 1-2 Years
## [6991] 2-3 Years 0-1 Years 6-7 Years 5-6 Years 4-5 Years 5-6 Years
## [6997] 4-5 Years 2-3 Years 1-2 Years 0-1 Years 6-7 Years 0-1 Years
## [7003] 6-7 Years 2-3 Years 4-5 Years 1-2 Years 4-5 Years 6-7 Years
## [7009] 0-1 Years 1-2 Years 0-1 Years 0-1 Years 6-7 Years 4-5 Years
## [7015] 4-5 Years 2-3 Years 0-1 Years 5-6 Years 0-1 Years 4-5 Years
## [7021] 0-1 Years 0-1 Years 6-7 Years 6-7 Years 4-5 Years 1-2 Years
## [7027] 0-1 Years 1-2 Years 6-7 Years 0-1 Years 0-1 Years 5-6 Years
## [7033] 0-1 Years 4-5 Years 6-7 Years 1-2 Years 0-1 Years 6-7 Years
## [7039] 1-2 Years 6-7 Years 0-1 Years 0-1 Years 6-7 Years
## Levels: 0-1 Years 1-2 Years 2-3 Years 4-5 Years 5-6 Years 6-7 Years

```

```

tablechurn$Tenure_Range <- cut(tablechurn$Tenure_Range,6,labels = c('0-1
Years','1-2 Years','2-3 Years','4-5 Years','5-6 Years','6-7 Years'))

```

```

#Checking if there are any NULL values in any of the columns
table(is.na(tablechurn))

##
## FALSE TRUE
## 154935 11

str_detect(tablechurn, 'NA')

## Warning in stri_detect_regex(string, pattern, negate = negate, opts_regex
=
## opts(pattern)): argument is not an atomic vector; coercing

## [1] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [12] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE FALSE FALSE

setDT(tablechurn)
tablechurn[is.na(TotalCharges), NROW(TotalCharges)]

## [1] 11

#There are 11 rows out of 7043 rows that have null values.Hence removing
these rows since they are only 0.15% of total so we can afford to drop them

tablechurn <- tablechurn[complete.cases(tablechurn), ]

#Replacing 'No Internet Service' values in OnlineSecurity,OnlineBackup
DeviceProtection,TechSupport,StreamingTV and StreamingMovies columns with
'No'

tablechurn$OnlineSecurity[tablechurn$OnlineSecurity=='No internet service']
<- 'No'
tablechurn$OnlineBackup[tablechurn$OnlineBackup=='No internet service'] <-
'No'
tablechurn$DeviceProtection[tablechurn$DeviceProtection=='No internet
service'] <- 'No'
tablechurn$TechSupport[tablechurn$TechSupport=='No internet service'] <- 'No'
tablechurn$StreamingTV[tablechurn$StreamingTV=='No internet service'] <- 'No'
tablechurn$StreamingMovies[tablechurn$StreamingMovies=='No internet service']
<- 'No'

#Deleting the unused levels from the factor variables

tablechurn$OnlineSecurity <- factor(tablechurn$OnlineSecurity)
tablechurn$OnlineBackup <- factor(tablechurn$OnlineBackup)
tablechurn$DeviceProtection <- factor(tablechurn$DeviceProtection)
tablechurn$TechSupport <- factor(tablechurn$TechSupport)
tablechurn$StreamingTV <- factor(tablechurn$StreamingTV)

#Converting Categorical Columns into numerical values
tablechurn$Partner<-ifelse(tablechurn$Partner=='Yes', 1,2)

```

```

tablechurn$Dependents<-ifelse(tablechurn$Dependents=='Yes', 1,2)
tablechurn$PhoneService<-ifelse(tablechurn$PhoneService=='Yes', 1,2)
tablechurn$OnlineBackup<-ifelse(tablechurn$OnlineBackup=='Yes', 1,2)
tablechurn$OnlineSecurity<-ifelse(tablechurn$OnlineSecurity=='Yes', 1,2)
tablechurn$DeviceProtection<-ifelse(tablechurn$DeviceProtection=='Yes', 1,2)
tablechurn$TechSupport<-ifelse(tablechurn$TechSupport=='Yes', 1,2)
tablechurn$StreamingTV<-ifelse(tablechurn$StreamingTV=='Yes', 1,2)
tablechurn$StreamingMovies<-ifelse(tablechurn$StreamingMovies=='Yes', 1,2)
tablechurn$PaperlessBilling<-ifelse(tablechurn$PaperlessBilling=='Yes', 1,2)
tablechurn$Churn<-ifelse(tablechurn$Churn=='Yes', 1,2)

```

#Converting Categorical Columns into numerical values

```

tablechurn$Gender<-factor(tablechurn$Gender,levels =
c('Female','Male'),labels = c(1,2))
tablechurn$MultipleLines<-factor(tablechurn$MultipleLines,levels =
c('No','Yes','No phone service'),labels = c(1,2,3))
tablechurn$InternetService<-factor(tablechurn$InternetService,levels =
c('No','Fiber optic','DSL'),labels = c(1,2,3))
tablechurn$Contract<-factor(tablechurn$Contract,levels = c('Month-to-
month','One year','Two year'),labels = c(1,2,3))
tablechurn$PaymentMethod<-factor(tablechurn$PaymentMethod,levels = c('Bank
transfer (automatic)',
                                                                    'Credit
card (automatic)',
                                                                    'Electronic check',
                                                                    'Mailed
check'),labels = c(1,2,3,4))

```

#Checking the dimension of the dataset again after performing above changes

```
dim(tablechurn)
```

```
## [1] 7032 22
```

```
str(tablechurn)
```

```

## Classes 'data.table' and 'data.frame': 7032 obs. of 22 variables:
## $ CustomerID : Factor w/ 7043 levels "0002-ORFBO","0003-MKNFE",...:
5376 3963 2565 5536 6512 6552 1003 4771 5605 4535 ...
## $ Gender : Factor w/ 2 levels "1","2": 1 2 2 2 1 1 2 1 1 2 ...
## $ SeniorCitizen : Factor w/ 2 levels "no","yes": 1 1 1 1 1 1 1 1 1 1
...
## $ Partner : num 1 2 2 2 2 2 2 2 1 2 ...
## $ Dependents : num 2 2 2 2 2 2 1 2 2 1 ...
## $ Tenure : int 1 34 2 45 2 8 22 10 28 62 ...
## $ PhoneService : num 2 1 1 2 1 1 1 2 1 1 ...
## $ MultipleLines : Factor w/ 3 levels "1","2","3": 3 1 1 3 1 2 2 3 2 1
...
## $ InternetService : Factor w/ 3 levels "1","2","3": 3 3 3 3 2 2 2 3 2 3

```



```

...
## $ OnlineSecurity : num 2 1 1 1 2 2 2 1 2 1 ...
## $ OnlineBackup : num 1 2 1 2 2 2 1 2 2 1 ...
## $ DeviceProtection: num 2 1 2 1 2 1 2 2 1 2 ...
## $ TechSupport : num 2 2 2 1 2 2 2 2 1 2 ...
## $ StreamingTV : num 2 2 2 2 2 1 1 2 1 2 ...
## $ StreamingMovies : num 2 2 2 2 2 1 2 2 1 2 ...
## $ Contract : Factor w/ 3 levels "1","2","3": 1 2 1 2 1 1 1 1 1 2
...
## $ PaperlessBilling: num 1 2 1 2 1 1 1 2 1 2 ...
## $ PaymentMethod : Factor w/ 4 levels "1","2","3","4": 3 4 4 1 3 3 2 4 3
1 ...
## $ MonthlyCharges : num 29.9 57 53.9 42.3 70.7 ...
## $ TotalCharges : num 29.9 1889.5 108.2 1840.8 151.7 ...
## $ Churn : num 2 2 1 2 1 1 2 2 1 2 ...
## $ Tenure_Range : Factor w/ 6 levels "0-1 Years","1-2 Years",...: 1 3 1
4 1 1 2 1 3 6 ...
## - attr(*, ".internal.selfref")=<externalptr>

```

##Converting factors into numeric columns

```

tablechurn$Gender<-as.numeric(tablechurn$Gender)
tablechurn$SeniorCitizen<-as.numeric(tablechurn$SeniorCitizen)
tablechurn$Tenure<-as.numeric(tablechurn$Tenure)
tablechurn$MultipleLines<-as.numeric(tablechurn$MultipleLines)
tablechurn$InternetService<-as.numeric(tablechurn$InternetService)
tablechurn$Contract<-as.numeric(tablechurn$Contract)
tablechurn$PaymentMethod<-as.numeric(tablechurn$PaymentMethod)

```

```

tablechurn$Churn<-as.integer(tablechurn$Churn)

```

```

str(tablechurn)

```

```

## Classes 'data.table' and 'data.frame': 7032 obs. of 22 variables:
## $ CustomerID : Factor w/ 7043 levels "0002-ORFBO","0003-MKNFE",...:
5376 3963 2565 5536 6512 6552 1003 4771 5605 4535 ...
## $ Gender : num 1 2 2 2 1 1 2 1 1 2 ...
## $ SeniorCitizen : num 1 1 1 1 1 1 1 1 1 1 ...
## $ Partner : num 1 2 2 2 2 2 2 2 1 2 ...
## $ Dependents : num 2 2 2 2 2 2 1 2 2 1 ...
## $ Tenure : num 1 34 2 45 2 8 22 10 28 62 ...
## $ PhoneService : num 2 1 1 2 1 1 1 2 1 1 ...
## $ MultipleLines : num 3 1 1 3 1 2 2 3 2 1 ...
## $ InternetService : num 3 3 3 3 2 2 2 3 2 3 ...
## $ OnlineSecurity : num 2 1 1 1 2 2 2 1 2 1 ...
## $ OnlineBackup : num 1 2 1 2 2 2 1 2 2 1 ...
## $ DeviceProtection: num 2 1 2 1 2 1 2 2 1 2 ...
## $ TechSupport : num 2 2 2 1 2 2 2 2 1 2 ...
## $ StreamingTV : num 2 2 2 2 2 1 1 2 1 2 ...
## $ StreamingMovies : num 2 2 2 2 2 1 2 2 1 2 ...
## $ Contract : num 1 2 1 2 1 1 1 1 1 2 ...

```

```
## $ PaperlessBilling: num 1 2 1 2 1 1 1 2 1 2 ...
## $ PaymentMethod : num 3 4 4 1 3 3 2 4 3 1 ...
## $ MonthlyCharges : num 29.9 57 53.9 42.3 70.7 ...
## $ TotalCharges : num 29.9 1889.5 108.2 1840.8 151.7 ...
## $ Churn : int 2 2 1 2 1 1 2 2 1 2 ...
## $ Tenure_Range : Factor w/ 6 levels "0-1 Years","1-2 Years",...: 1 3 1
4 1 1 2 1 3 6 ...
## - attr(*, ".internal.selfref")=<externalptr>
```

```
dim(tablechurn)
```

```
## [1] 7032 22
```

#MULTIPLE Regression

##Performing regression taking all independent variables

```
fit <- lm(Churn~Gender+SeniorCitizen+Partner+Dependents+Tenure+PhoneService
+MultipleLines+InternetService+OnlineBackup+OnlineSecurity
+DeviceProtection+TechSupport+StreamingTV+StreamingMovies
+Contract+PaperlessBilling+PaymentMethod+MonthlyCharges
+TotalCharges, data=tablechurn)
```

```
summary(fit)
```

```
##
## Call:
## lm(formula = Churn ~ Gender + SeniorCitizen + Partner + Dependents +
##      Tenure + PhoneService + MultipleLines + InternetService +
##      OnlineBackup + OnlineSecurity + DeviceProtection + TechSupport +
##      StreamingTV + StreamingMovies + Contract + PaperlessBilling +
##      PaymentMethod + MonthlyCharges + TotalCharges, data = tablechurn)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -1.16590 -0.29353  0.07249  0.26751  0.80298
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   2.714e+00  9.660e-02  28.098  < 2e-16 ***
## Gender         3.950e-03  8.991e-03   0.439  0.660414
## SeniorCitizen  -5.014e-02  1.306e-02  -3.840  0.000124 ***
## Partner        1.714e-03  1.086e-02   0.158  0.874621
## Dependents     -2.389e-02  1.153e-02  -2.072  0.038282 *
## Tenure         1.677e-03  5.009e-04   3.348  0.000818 ***
## PhoneService  -1.394e-01  2.904e-02  -4.799  1.63e-06 ***
## MultipleLines  -2.248e-02  1.131e-02  -1.987  0.046912 *
## InternetService 9.770e-03  8.449e-03   1.156  0.247568
## OnlineBackup   -5.578e-02  1.164e-02  -4.792  1.68e-06 ***
## OnlineSecurity -9.139e-02  1.214e-02  -7.526  5.88e-14 ***
```

```
## DeviceProtection -4.199e-02 1.193e-02 -3.518 0.000437 ***
## TechSupport -9.267e-02 1.229e-02 -7.541 5.23e-14 ***
## StreamingTV -1.756e-02 1.286e-02 -1.366 0.172065
## StreamingMovies -1.631e-02 1.285e-02 -1.269 0.204469
## Contract 4.278e-02 8.513e-03 5.025 5.16e-07 ***
## PaperlessBilling 5.032e-02 1.002e-02 5.020 5.28e-07 ***
## PaymentMethod -7.811e-03 4.582e-03 -1.705 0.088325 .
## MonthlyCharges -7.487e-03 3.787e-04 -19.771 < 2e-16 ***
## TotalCharges 5.178e-05 6.456e-06 8.020 1.23e-15 ***
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.3766 on 7012 degrees of freedom
## Multiple R-squared: 0.2752, Adjusted R-squared: 0.2733
## F-statistic: 140.1 on 19 and 7012 DF, p-value: < 2.2e-16
```

coefficients(fit)

```
##      (Intercept)      Gender      SeniorCitizen      Partner
##      2.714155e+00      3.950385e-03      -5.014032e-02      1.714374e-03
##      Dependents      Tenure      PhoneService      MultipleLines
##      -2.388902e-02      1.677144e-03      -1.393886e-01      -2.247510e-02
##      InternetService      OnlineBackup      OnlineSecurity      DeviceProtection
##      9.770498e-03      -5.578451e-02      -9.139497e-02      -4.198796e-02
##      TechSupport      StreamingTV      StreamingMovies      Contract
##      -9.267124e-02      -1.756008e-02      -1.631069e-02      4.277958e-02
##      PaperlessBilling      PaymentMethod      MonthlyCharges      TotalCharges
##      5.032174e-02      -7.810663e-03      -7.487043e-03      5.178225e-05
```

confint(fit,level=0.95)

```
##              2.5 %              97.5 %
## (Intercept)  2.524795e+00  2.903514e+00
## Gender      -1.367509e-02  2.157586e-02
## SeniorCitizen -7.573475e-02 -2.454588e-02
## Partner      -1.958311e-02  2.301186e-02
## Dependents   -4.648785e-02 -1.290193e-03
## Tenure       6.952143e-04  2.659074e-03
## PhoneService -1.963237e-01 -8.245341e-02
## MultipleLines -4.464321e-02 -3.069874e-04
## InternetService -6.792601e-03  2.633360e-02
## OnlineBackup  -7.860242e-02 -3.296659e-02
## OnlineSecurity -1.152002e-01 -6.758976e-02
## DeviceProtection -6.538174e-02 -1.859419e-02
## TechSupport   -1.167600e-01 -6.858252e-02
## StreamingTV   -4.276481e-02  7.644647e-03
## StreamingMovies -4.150602e-02  8.884647e-03
## Contract      2.609097e-02  5.946819e-02
## PaperlessBilling 3.067289e-02  6.997059e-02
## PaymentMethod -1.679332e-02  1.171998e-03
```

```
## MonthlyCharges    -8.229400e-03 -6.744687e-03
## TotalCharges      3.912607e-05  6.443843e-05
```

Predicted Values

fitted(fit)

##	1	2	3	4	5	6	7	8
##	1.578780	1.880416	1.678410	1.937790	1.401416	1.282747	1.476809	1.688546
##	9	10	11	12	13	14	15	16
##	1.483933	2.077254	1.717267	1.959292	1.716204	1.614848	1.574554	2.055288
##	17	18	19	20	21	22	23	24
##	1.980638	1.946143	1.775126	1.491103	1.463953	1.903086	1.808091	1.977252
##	25	26	27	28	29	30	31	32
##	2.043183	1.807653	1.593758	1.654338	2.093027	1.579966	1.968530	1.253056
##	33	34	35	36	37	38	39	40
##	1.965696	1.831151	1.614298	2.076464	1.426442	1.670198	1.477226	1.331630
##	41	42	43	44	45	46	47	48
##	1.766935	2.038720	1.912051	2.059164	1.664647	1.565201	1.671200	1.344092
##	49	50	51	52	53	54	55	56
##	1.930623	2.104153	1.515463	1.465457	1.676756	1.351189	2.021071	1.291050
##	57	58	59	60	61	62	63	64
##	1.781483	1.805298	1.969694	1.881547	1.541334	1.699777	2.046809	1.809192
##	65	66	67	68	69	70	71	72
##	1.333968	1.565537	1.674989	1.870027	2.064647	1.513946	1.705424	1.965679
##	73	74	75	76	77	78	79	80
##	1.873543	2.010794	1.700504	1.747586	1.846266	1.770401	1.664160	1.904618
##	81	82	83	84	85	86	87	88
##	1.372681	1.611991	1.450257	1.676852	1.990957	1.317690	1.803056	2.064079
##	89	90	91	92	93	94	95	96
##	1.985485	1.655493	1.678477	1.462609	2.048314	1.773511	1.885400	1.465507
##	97	98	99	100	101	102	103	104
##	2.087871	1.812913	2.052542	1.433993	1.807719	1.839330	1.701129	1.843590
##	105	106	107	108	109	110	111	112
##	1.909429	1.623075	1.862220	1.797630	1.588948	2.125687	1.703197	2.067152
##	113	114	115	116	117	118	119	120
##	1.625557	1.483028	1.910856	1.505913	1.874101	1.365834	1.995244	1.598261
##	121	122	123	124	125	126	127	128
##	1.678007	1.813203	1.360900	1.735683	1.828319	1.756831	1.460416	2.024418
##	129	130	131	132	133	134	135	136
##	1.811065	1.825419	1.354619	1.678997	2.080151	1.503333	1.659097	1.921895
##	137	138	139	140	141	142	143	144
##	1.595700	2.082281	2.024825	1.337741	2.082207	1.667438	1.741134	1.848846
##	145	146	147	148	149	150	151	152
##	2.021598	1.969717	1.860476	1.595521	1.840735	1.714669	1.607434	1.311814
##	153	154	155	156	157	158	159	160
##	1.911209	2.136435	1.842904	1.451123	1.431457	1.928965	1.833269	1.880133
##	161	162	163	164	165	166	167	168
##	1.742501	1.536136	1.408051	1.959287	1.893565	2.077412	1.425178	2.103867
##	169	170	171	172	173	174	175	176
##	1.706550	1.873010	1.830838	1.298163	1.755045	1.689753	1.952199	1.848398

##	177	178	179	180	181	182	183	184
##	1.366191	1.492174	1.383646	1.975877	1.645693	1.636684	1.398348	1.846331
##	185	186	187	188	189	190	191	192
##	1.503334	1.560543	1.679969	1.673597	1.890233	1.785555	1.882053	1.392101
##	193	194	195	196	197	198	199	200
##	2.122525	2.006352	2.095801	1.584380	1.904834	1.728209	1.945436	1.827519
##	201	202	203	204	205	206	207	208
##	1.607545	1.557549	1.938621	1.461861	1.693158	1.722184	2.084625	1.397726
##	209	210	211	212	213	214	215	216
##	1.513385	1.881538	1.604401	1.609233	2.078333	1.951910	1.406809	1.815652
##	217	218	219	220	221	222	223	224
##	2.141182	2.030928	2.012778	1.399521	1.414931	2.065977	1.830162	1.708001
##	225	226	227	228	229	230	231	232
##	1.854783	1.637301	1.822625	1.578921	1.536051	1.948968	1.848374	1.817120
##	233	234	235	236	237	238	239	240
##	1.396043	2.103744	1.834308	1.560730	1.726035	1.449440	1.324249	1.935483
##	241	242	243	244	245	246	247	248
##	2.083875	1.987960	1.894560	1.842952	1.626327	1.471787	1.767586	1.452888
##	249	250	251	252	253	254	255	256
##	1.657543	1.701082	1.792042	1.475926	1.523516	1.823266	1.784062	1.956047
##	257	258	259	260	261	262	263	264
##	1.982088	1.845230	1.609013	1.618156	1.460869	1.274606	1.599191	1.859793
##	265	266	267	268	269	270	271	272
##	1.784124	2.101678	2.002073	1.484980	2.052810	2.006205	1.393881	2.083862
##	273	274	275	276	277	278	279	280
##	1.632151	1.426340	1.442752	1.437522	1.618962	1.678835	1.569121	1.693631
##	281	282	283	284	285	286	287	288
##	1.732877	1.694655	1.766519	1.938081	1.474004	1.507899	1.678816	1.453310
##	289	290	291	292	293	294	295	296
##	1.416179	1.644598	1.410053	1.912877	1.710600	1.273771	1.836325	1.807347
##	297	298	299	300	301	302	303	304
##	1.950786	1.407030	1.673911	1.481458	1.656382	1.193380	1.422811	2.010506
##	305	306	307	308	309	310	311	312
##	1.586482	2.006671	1.461325	1.841411	1.513208	1.834106	1.783942	1.587770
##	313	314	315	316	317	318	319	320
##	1.820681	1.374536	1.367502	1.853866	2.047348	1.947027	1.405860	1.558567
##	321	322	323	324	325	326	327	328
##	1.937659	1.969354	1.601841	1.801265	2.006232	1.669845	1.421263	1.353244
##	329	330	331	332	333	334	335	336
##	1.563162	1.382556	1.958063	1.822794	1.662600	1.382364	1.389533	2.018779
##	337	338	339	340	341	342	343	344
##	1.649719	2.080551	1.552252	1.704365	1.832840	2.163871	1.972960	2.019964
##	345	346	347	348	349	350	351	352
##	1.946194	1.312522	1.288649	2.098836	1.532496	1.895990	1.962254	1.772317
##	353	354	355	356	357	358	359	360
##	1.277285	1.427652	1.568805	1.411219	1.615913	1.839847	1.703344	1.693005
##	361	362	363	364	365	366	367	368
##	1.841607	1.737107	1.944183	1.961459	1.564808	1.376687	1.717408	1.811576
##	369	370	371	372	373	374	375	376
##	1.766785	2.030802	1.958044	1.290066	1.900561	1.814090	1.552348	1.856674

##	377	378	379	380	381	382	383	384
##	1.604630	1.468567	2.064418	1.580815	1.762957	1.656641	2.018495	1.307108
##	385	386	387	388	389	390	391	392
##	1.667400	1.784582	1.647884	1.868036	1.558863	1.682000	1.410470	1.628845
##	393	394	395	396	397	398	399	400
##	1.555476	1.854190	1.442136	2.061331	1.548549	1.617216	1.607268	1.927192
##	401	402	403	404	405	406	407	408
##	1.956615	1.891327	1.740868	2.115208	1.899237	2.055659	1.819860	1.475806
##	409	410	411	412	413	414	415	416
##	1.755677	1.761858	1.314725	1.893282	1.494120	1.754625	1.618424	1.603772
##	417	418	419	420	421	422	423	424
##	1.940837	1.921689	1.572946	1.368814	1.734960	1.450626	1.674956	1.937595
##	425	426	427	428	429	430	431	432
##	1.735400	1.773450	1.617933	1.403595	1.453047	2.081709	1.942429	2.056577
##	433	434	435	436	437	438	439	440
##	1.726328	1.655969	1.965037	1.677111	1.962289	2.037632	1.573590	1.702800
##	441	442	443	444	445	446	447	448
##	1.457823	1.614753	1.791465	1.694197	1.594998	1.667685	1.446609	1.976090
##	449	450	451	452	453	454	455	456
##	1.364878	2.095906	1.980061	1.708428	1.822560	1.513488	2.006697	1.418366
##	457	458	459	460	461	462	463	464
##	1.757160	1.895354	1.810101	1.344307	1.848290	1.636731	1.318750	1.290069
##	465	466	467	468	469	470	471	472
##	1.953161	1.898177	1.835060	1.829674	2.031486	1.659050	1.835946	1.542312
##	473	474	475	476	477	478	479	480
##	1.519450	1.865185	1.443765	1.492612	1.719191	1.724548	1.362394	1.569439
##	481	482	483	484	485	486	487	488
##	1.946986	1.760988	1.395996	1.900934	1.438152	1.838442	1.335325	2.014837
##	489	490	491	492	493	494	495	496
##	1.373773	1.818655	1.570188	1.462760	1.864598	1.806232	1.677539	1.897375
##	497	498	499	500	501	502	503	504
##	2.101091	1.603106	1.455965	1.706195	1.838767	2.009941	1.865370	2.133258
##	505	506	507	508	509	510	511	512
##	1.382320	1.437652	1.355069	1.445308	1.806371	1.660475	1.699818	1.314274
##	513	514	515	516	517	518	519	520
##	1.705820	1.677417	1.631897	1.919155	1.417598	1.556868	1.855611	1.782780
##	521	522	523	524	525	526	527	528
##	1.595910	1.701618	1.526629	1.463309	1.816916	1.971188	1.809246	2.011494
##	529	530	531	532	533	534	535	536
##	1.797561	1.932999	2.117311	1.354852	1.786125	1.283059	1.363136	1.722267
##	537	538	539	540	541	542	543	544
##	1.894608	1.806891	2.030307	2.037228	1.523578	1.808601	1.349903	1.670044
##	545	546	547	548	549	550	551	552
##	1.623378	1.599600	1.809528	1.707879	1.849657	1.954889	2.017056	2.094486
##	553	554	555	556	557	558	559	560
##	1.876403	1.558943	1.913480	1.829431	1.951348	1.506030	1.661054	1.727763
##	561	562	563	564	565	566	567	568
##	1.714671	1.655457	1.749947	1.704842	2.137327	1.605268	2.156393	1.463718
##	569	570	571	572	573	574	575	576
##	1.723864	2.038949	1.935813	1.749840	1.723570	1.452480	2.024344	1.660344

##	577	578	579	580	581	582	583	584
##	1.441712	1.537722	1.764155	1.864424	1.495251	1.263267	1.784544	1.760447
##	585	586	587	588	589	590	591	592
##	1.228963	1.978109	1.883491	1.953088	2.172089	1.953490	1.958079	2.061622
##	593	594	595	596	597	598	599	600
##	1.665904	1.638404	1.720591	1.840004	1.590498	1.670021	2.034901	1.553262
##	601	602	603	604	605	606	607	608
##	1.855471	1.784045	1.778794	1.635687	2.100267	1.976079	2.000053	2.083624
##	609	610	611	612	613	614	615	616
##	1.750828	1.630633	1.838609	2.092789	1.623953	1.953771	1.641460	1.590752
##	617	618	619	620	621	622	623	624
##	1.767969	1.845595	1.419186	1.529762	1.841864	1.652072	1.944964	1.844840
##	625	626	627	628	629	630	631	632
##	1.497962	1.557102	1.758442	1.903279	1.622830	1.598666	1.855930	2.180250
##	633	634	635	636	637	638	639	640
##	1.872553	1.795776	1.731750	1.711968	2.168190	1.709917	1.338405	2.072697
##	641	642	643	644	645	646	647	648
##	1.800509	1.293214	1.673357	1.766028	1.307046	1.587339	1.868589	1.310971
##	649	650	651	652	653	654	655	656
##	1.537362	1.430983	1.400727	2.006111	1.797251	1.784759	1.407397	2.108430
##	657	658	659	660	661	662	663	664
##	1.935090	1.877784	1.923771	1.567286	1.672006	1.808834	1.993397	2.093510
##	665	666	667	668	669	670	671	672
##	1.411425	1.459263	1.737851	1.646643	2.012890	1.984444	2.023895	1.332918
##	673	674	675	676	677	678	679	680
##	1.775452	1.639755	1.854403	1.955059	1.508063	1.288217	1.682580	1.419157
##	681	682	683	684	685	686	687	688
##	2.009990	1.675698	1.573238	1.435084	1.652642	1.916579	1.613853	1.835915
##	689	690	691	692	693	694	695	696
##	1.659255	1.755538	1.857521	2.015949	1.361651	1.802976	1.748387	2.044869
##	697	698	699	700	701	702	703	704
##	1.635690	1.678138	2.124409	1.947406	1.552552	1.460611	1.753197	1.680325
##	705	706	707	708	709	710	711	712
##	1.630791	2.103355	1.506852	1.573644	1.686196	1.812552	1.558955	1.971669
##	713	714	715	716	717	718	719	720
##	1.537084	2.036781	1.647307	2.016718	1.483317	1.561429	1.700851	1.875104
##	721	722	723	724	725	726	727	728
##	2.095661	1.318495	1.606085	1.391667	1.720644	1.887105	1.380776	1.600803
##	729	730	731	732	733	734	735	736
##	2.013236	1.658064	1.817061	1.576550	1.987792	1.515410	1.665535	1.617947
##	737	738	739	740	741	742	743	744
##	2.091732	1.571792	2.066721	1.951937	1.461047	1.407754	1.989434	1.626173
##	745	746	747	748	749	750	751	752
##	1.862248	1.974489	1.407537	2.020735	1.855022	1.775043	2.079149	1.709860
##	753	754	755	756	757	758	759	760
##	1.469654	1.317856	2.093347	1.811659	1.478909	2.044441	1.803258	1.471207
##	761	762	763	764	765	766	767	768
##	1.411286	2.173236	2.090924	1.523941	1.478401	1.907466	1.688975	1.784557
##	769	770	771	772	773	774	775	776
##	1.799160	1.335938	1.805999	1.426016	1.535754	1.921732	1.589849	1.355781

##	777	778	779	780	781	782	783	784
##	1.860511	1.652037	2.067949	1.678381	1.824003	1.635541	2.006814	1.618747
##	785	786	787	788	789	790	791	792
##	2.088861	1.809999	1.751318	2.197572	2.009204	1.965252	1.882086	2.012167
##	793	794	795	796	797	798	799	800
##	1.525591	1.618630	1.666876	1.793617	1.835241	1.716455	1.769803	1.357706
##	801	802	803	804	805	806	807	808
##	1.925189	1.939304	1.393227	1.934970	1.797750	1.953331	1.510593	1.408048
##	809	810	811	812	813	814	815	816
##	1.726907	1.926502	1.960241	1.849240	1.792672	1.423466	1.337256	1.833189
##	817	818	819	820	821	822	823	824
##	1.446264	2.001057	1.719542	1.972938	1.635532	1.639355	1.972469	1.496041
##	825	826	827	828	829	830	831	832
##	1.228000	1.803456	1.856173	1.719249	1.823850	1.983211	2.183582	1.562773
##	833	834	835	836	837	838	839	840
##	1.318480	1.738024	2.100486	1.647327	1.816239	2.025365	1.594388	1.883609
##	841	842	843	844	845	846	847	848
##	1.924441	1.663226	1.290611	1.903861	2.102632	1.847088	2.101295	2.173958
##	849	850	851	852	853	854	855	856
##	2.028820	1.966882	1.754271	1.675795	2.087810	1.725864	2.131424	1.663336
##	857	858	859	860	861	862	863	864
##	1.978093	2.060172	1.933677	1.933928	1.485329	1.318130	1.379927	1.468407
##	865	866	867	868	869	870	871	872
##	1.891649	1.762264	1.730446	1.806537	1.988974	1.783015	2.108345	1.711683
##	873	874	875	876	877	878	879	880
##	1.721259	1.520728	1.550017	1.932034	2.051011	1.714601	1.485675	1.889709
##	881	882	883	884	885	886	887	888
##	1.435828	1.866463	1.908226	1.758512	1.340728	1.494304	1.627852	1.800653
##	889	890	891	892	893	894	895	896
##	1.729149	1.636623	1.482777	1.614066	1.793431	1.555366	1.996364	1.757463
##	897	898	899	900	901	902	903	904
##	1.490804	1.702190	1.811067	1.357998	1.509113	1.808994	2.105018	1.236950
##	905	906	907	908	909	910	911	912
##	1.547424	1.762807	1.849073	1.906522	1.436138	1.403926	1.881640	1.898471
##	913	914	915	916	917	918	919	920
##	2.039835	1.303977	1.535577	2.044734	1.492016	1.547237	1.996052	1.836472
##	921	922	923	924	925	926	927	928
##	1.423205	1.893545	1.586400	1.922480	1.323890	1.480857	1.896723	1.627603
##	929	930	931	932	933	934	935	936
##	1.568632	1.812621	2.099520	1.255190	1.755120	1.262137	1.429174	1.838930
##	937	938	939	940	941	942	943	944
##	1.845042	1.952558	1.690830	1.493642	2.095578	1.719431	1.422181	1.785329
##	945	946	947	948	949	950	951	952
##	1.440557	1.419687	2.031936	1.596856	1.500778	1.849093	1.838945	1.371753
##	953	954	955	956	957	958	959	960
##	1.659003	2.083406	1.711482	1.809800	1.565138	1.654450	1.842661	1.642345
##	961	962	963	964	965	966	967	968
##	2.005995	1.587339	1.454990	1.837474	1.832190	2.199755	1.224588	1.332150
##	969	970	971	972	973	974	975	976
##	1.704276	2.074866	1.669826	1.992708	1.946636	1.405446	1.448455	1.681333

##	977	978	979	980	981	982	983	984
##	1.940457	1.834326	2.026197	1.868324	1.275113	2.090867	1.506069	1.715461
##	985	986	987	988	989	990	991	992
##	1.834497	1.909854	1.982236	1.929151	2.019684	1.929773	1.886203	1.943377
##	993	994	995	996	997	998	999	1000
##	1.674786	1.585395	1.203458	2.106548	1.593999	1.327475	1.427248	1.438595
##	1001	1002	1003	1004	1005	1006	1007	1008
##	1.991890	1.863343	1.560683	1.445168	1.463188	1.530547	1.812991	1.654734
##	1009	1010	1011	1012	1013	1014	1015	1016
##	2.063554	1.405591	1.669052	1.715425	1.727166	2.093562	1.953265	1.573172
##	1017	1018	1019	1020	1021	1022	1023	1024
##	1.818887	1.891193	1.914810	1.337305	1.556779	1.583219	1.906934	1.229388
##	1025	1026	1027	1028	1029	1030	1031	1032
##	1.756216	1.464539	1.443494	1.703201	1.736002	1.306920	2.037362	2.152068
##	1033	1034	1035	1036	1037	1038	1039	1040
##	2.029996	2.001848	1.558597	1.705085	1.693867	1.377195	1.893057	1.544119
##	1041	1042	1043	1044	1045	1046	1047	1048
##	1.614316	1.852533	1.557377	1.985328	1.654818	1.878715	1.807858	1.570358
##	1049	1050	1051	1052	1053	1054	1055	1056
##	1.580935	1.738995	1.577156	1.480844	1.941213	1.366636	1.446392	1.337658
##	1057	1058	1059	1060	1061	1062	1063	1064
##	1.472121	1.913986	1.849705	1.861387	1.783276	1.846297	1.498368	2.022174
##	1065	1066	1067	1068	1069	1070	1071	1072
##	1.608638	1.596507	1.836400	1.474104	1.633741	1.748533	1.307055	1.801027
##	1073	1074	1075	1076	1077	1078	1079	1080
##	1.763946	1.951469	1.674337	1.739758	1.436392	1.950274	1.498458	1.345945
##	1081	1082	1083	1084	1085	1086	1087	1088
##	2.025749	1.425600	1.370330	1.691707	1.293285	1.430537	1.804050	1.760877
##	1089	1090	1091	1092	1093	1094	1095	1096
##	2.222420	2.035237	1.859978	1.343820	1.686924	1.500231	2.010739	1.622614
##	1097	1098	1099	1100	1101	1102	1103	1104
##	1.771401	1.887698	1.638742	1.743168	1.916226	1.391968	1.838068	2.056264
##	1105	1106	1107	1108	1109	1110	1111	1112
##	2.049424	1.777728	2.019283	1.497511	2.072733	1.563148	1.473246	1.873018
##	1113	1114	1115	1116	1117	1118	1119	1120
##	1.859597	1.707228	1.659377	2.069075	1.564297	1.899933	1.571778	1.867155
##	1121	1122	1123	1124	1125	1126	1127	1128
##	1.688266	1.477086	1.489023	1.890277	1.841191	1.510984	1.956203	1.617496
##	1129	1130	1131	1132	1133	1134	1135	1136
##	1.327489	1.841855	1.676453	1.956019	2.094176	2.107103	1.625664	1.835359
##	1137	1138	1139	1140	1141	1142	1143	1144
##	1.806117	1.793719	1.376433	1.683564	1.502589	1.633620	1.855922	1.487165
##	1145	1146	1147	1148	1149	1150	1151	1152
##	1.232097	1.372111	1.670614	1.821617	1.613591	1.895914	1.960538	2.081001
##	1153	1154	1155	1156	1157	1158	1159	1160
##	2.038801	1.689171	1.746307	1.299923	1.439959	1.589370	2.059231	1.388693
##	1161	1162	1163	1164	1165	1166	1167	1168
##	2.056165	1.934022	1.618520	1.686106	1.876763	1.808254	2.010775	1.738577
##	1169	1170	1171	1172	1173	1174	1175	1176
##	1.427344	1.767810	1.654938	1.472415	1.351096	1.872432	1.438836	1.585971

##	1177	1178	1179	1180	1181	1182	1183	1184
##	1.921740	1.607927	1.774844	1.728668	1.538577	1.477595	1.967919	1.798229
##	1185	1186	1187	1188	1189	1190	1191	1192
##	1.629359	1.416611	1.604854	1.978089	1.325834	1.929100	1.720815	1.599086
##	1193	1194	1195	1196	1197	1198	1199	1200
##	2.077886	1.817003	1.969764	1.544706	1.609227	1.667036	1.705143	2.006755
##	1201	1202	1203	1204	1205	1206	1207	1208
##	1.692353	1.345794	1.409415	1.612640	1.342101	1.799814	1.517105	1.598039
##	1209	1210	1211	1212	1213	1214	1215	1216
##	1.441506	2.121084	1.400284	1.374798	2.073893	1.941208	1.462669	1.769902
##	1217	1218	1219	1220	1221	1222	1223	1224
##	1.678216	1.581871	2.146297	1.339579	1.608398	1.564613	2.068048	1.718454
##	1225	1226	1227	1228	1229	1230	1231	1232
##	1.590927	2.078182	1.680848	1.764890	1.617123	2.080744	1.863663	1.772605
##	1233	1234	1235	1236	1237	1238	1239	1240
##	1.341749	1.889185	1.266939	1.606916	1.824750	1.675872	1.739406	1.648446
##	1241	1242	1243	1244	1245	1246	1247	1248
##	1.870605	1.376517	1.633478	1.648717	1.452271	1.642494	1.834098	1.463734
##	1249	1250	1251	1252	1253	1254	1255	1256
##	1.821106	1.380961	1.839822	1.612708	2.076354	1.706337	2.019979	1.653073
##	1257	1258	1259	1260	1261	1262	1263	1264
##	1.612797	1.515237	1.651494	1.693437	1.914012	1.780166	1.359922	2.005360
##	1265	1266	1267	1268	1269	1270	1271	1272
##	1.773270	1.999971	2.059750	1.923828	1.845627	1.675540	1.836106	2.123648
##	1273	1274	1275	1276	1277	1278	1279	1280
##	1.998700	2.064258	1.853560	1.881125	1.953693	1.919627	1.494067	1.869683
##	1281	1282	1283	1284	1285	1286	1287	1288
##	2.075832	1.282200	1.649480	1.556918	2.066976	2.104797	2.019645	1.548160
##	1289	1290	1291	1292	1293	1294	1295	1296
##	2.022899	1.918459	1.672634	2.044816	1.465831	1.410597	1.763112	1.641291
##	1297	1298	1299	1300	1301	1302	1303	1304
##	1.921976	2.156986	1.941160	2.124012	1.335038	1.690846	1.986827	1.895947
##	1305	1306	1307	1308	1309	1310	1311	1312
##	1.313228	1.387385	1.421232	1.774652	1.906792	1.647599	1.727325	1.948084
##	1313	1314	1315	1316	1317	1318	1319	1320
##	1.775924	1.755130	1.626971	1.786863	1.742492	2.106701	1.800807	2.009841
##	1321	1322	1323	1324	1325	1326	1327	1328
##	1.832759	1.356188	1.882782	1.696233	1.808237	2.112556	1.848870	1.551844
##	1329	1330	1331	1332	1333	1334	1335	1336
##	2.067867	1.877338	1.509143	1.596885	1.558279	1.996022	1.808091	1.732686
##	1337	1338	1339	1340	1341	1342	1343	1344
##	1.586788	1.908851	1.976480	1.873201	1.672997	1.412950	1.893311	1.401909
##	1345	1346	1347	1348	1349	1350	1351	1352
##	1.678937	2.067053	1.814223	2.082506	2.007405	1.460894	1.788131	1.389769
##	1353	1354	1355	1356	1357	1358	1359	1360
##	1.659263	1.495646	1.282717	1.257757	1.443565	1.416933	2.139541	2.085260
##	1361	1362	1363	1364	1365	1366	1367	1368
##	1.753542	1.334888	1.646178	1.933502	1.750909	1.932493	1.299767	1.494272
##	1369	1370	1371	1372	1373	1374	1375	1376
##	1.834210	1.992614	1.994182	1.546373	2.189557	1.820715	2.069830	1.869814

##	1377	1378	1379	1380	1381	1382	1383	1384
##	1.446715	1.945483	1.552746	1.516718	1.839872	2.029795	2.088835	1.640451
##	1385	1386	1387	1388	1389	1390	1391	1392
##	1.477277	2.159800	1.529687	1.973799	1.802653	1.814995	1.705330	1.705632
##	1393	1394	1395	1396	1397	1398	1399	1400
##	1.388609	1.590210	1.909596	1.838807	1.291290	1.581952	1.512832	1.964327
##	1401	1402	1403	1404	1405	1406	1407	1408
##	1.383987	2.016449	1.748594	1.836697	1.581502	1.190341	1.462379	1.439128
##	1409	1410	1411	1412	1413	1414	1415	1416
##	2.064609	1.624249	1.853480	1.874782	1.644558	1.782827	2.036880	1.648386
##	1417	1418	1419	1420	1421	1422	1423	1424
##	1.296118	2.006789	1.321263	1.998593	1.603432	1.945048	1.648224	1.537357
##	1425	1426	1427	1428	1429	1430	1431	1432
##	1.990258	1.872969	1.810932	1.921324	1.710763	1.350202	1.740248	1.285680
##	1433	1434	1435	1436	1437	1438	1439	1440
##	1.698587	1.801916	1.380047	1.909206	1.640980	1.809903	1.653655	1.818619
##	1441	1442	1443	1444	1445	1446	1447	1448
##	1.420663	1.564220	1.494682	1.871054	1.795171	1.804532	1.676190	1.686011
##	1449	1450	1451	1452	1453	1454	1455	1456
##	1.511884	1.856026	1.751803	1.342612	1.607688	1.812927	1.798931	1.390495
##	1457	1458	1459	1460	1461	1462	1463	1464
##	1.593683	1.942461	1.464036	1.733329	1.506592	1.728172	1.645715	1.832626
##	1465	1466	1467	1468	1469	1470	1471	1472
##	1.595810	1.830072	1.544192	1.442206	1.398488	1.640763	1.860241	1.809881
##	1473	1474	1475	1476	1477	1478	1479	1480
##	1.794757	1.542597	1.687455	1.835910	2.059715	1.305924	2.006027	1.834797
##	1481	1482	1483	1484	1485	1486	1487	1488
##	1.305509	1.682093	1.672056	1.687790	1.898934	1.854340	1.808601	1.387686
##	1489	1490	1491	1492	1493	1494	1495	1496
##	1.536927	1.839973	1.801591	1.770324	1.805543	1.419338	1.679839	1.648737
##	1497	1498	1499	1500	1501	1502	1503	1504
##	1.926846	1.847413	1.537064	1.482014	1.297141	1.921129	2.053093	1.507952
##	1505	1506	1507	1508	1509	1510	1511	1512
##	1.488130	2.164599	2.072463	1.387722	1.496871	2.099937	1.804720	1.396558
##	1513	1514	1515	1516	1517	1518	1519	1520
##	1.694024	1.827408	1.596620	1.761394	1.969302	1.785604	1.680499	1.775030
##	1521	1522	1523	1524	1525	1526	1527	1528
##	1.839822	1.365468	2.128276	1.613337	2.075528	1.494132	1.821081	1.864145
##	1529	1530	1531	1532	1533	1534	1535	1536
##	1.524310	2.117527	1.704775	2.183608	2.023271	1.341782	1.734557	1.809246
##	1537	1538	1539	1540	1541	1542	1543	1544
##	2.111623	1.963029	1.469913	1.718063	1.793709	2.071701	1.726518	1.618885
##	1545	1546	1547	1548	1549	1550	1551	1552
##	1.586224	1.319931	1.896502	1.839737	1.708116	1.870199	1.792552	1.455744
##	1553	1554	1555	1556	1557	1558	1559	1560
##	1.710360	1.410590	1.805622	1.904002	1.345423	1.758810	1.424706	1.234149
##	1561	1562	1563	1564	1565	1566	1567	1568
##	1.732502	2.028273	1.554240	1.320845	1.713429	1.994079	1.832723	1.604191
##	1569	1570	1571	1572	1573	1574	1575	1576
##	1.780646	1.911001	1.818674	1.992141	1.597545	1.619534	1.354946	1.653709

##	1577	1578	1579	1580	1581	1582	1583	1584
##	1.695655	1.934323	1.594545	1.818281	1.870843	1.966741	2.012990	1.633204
##	1585	1586	1587	1588	1589	1590	1591	1592
##	1.545525	2.094059	1.862355	1.629145	1.848347	2.056864	1.381775	1.400696
##	1593	1594	1595	1596	1597	1598	1599	1600
##	1.793866	1.989377	2.088508	1.251852	1.649227	1.474651	1.622785	1.875443
##	1601	1602	1603	1604	1605	1606	1607	1608
##	2.032840	1.975834	1.467660	1.841187	1.748576	2.133185	2.096780	1.878557
##	1609	1610	1611	1612	1613	1614	1615	1616
##	1.900746	2.017818	1.946324	2.014783	1.779403	1.407003	2.095397	1.713937
##	1617	1618	1619	1620	1621	1622	1623	1624
##	1.482927	1.984926	1.716343	1.671341	1.457353	1.812791	1.466513	1.430706
##	1625	1626	1627	1628	1629	1630	1631	1632
##	2.116893	1.483973	1.459491	1.632578	1.655648	1.985931	1.540680	1.952919
##	1633	1634	1635	1636	1637	1638	1639	1640
##	1.935398	1.890104	1.614247	1.881312	2.117206	1.880262	1.635408	1.532997
##	1641	1642	1643	1644	1645	1646	1647	1648
##	1.484529	2.059545	1.447051	1.710615	1.769377	1.319621	1.304461	1.724756
##	1649	1650	1651	1652	1653	1654	1655	1656
##	2.043408	1.883083	1.674319	1.800453	1.804948	1.715794	2.077044	1.887500
##	1657	1658	1659	1660	1661	1662	1663	1664
##	1.653647	1.426466	1.559275	1.582716	1.371143	1.908691	1.796298	1.687782
##	1665	1666	1667	1668	1669	1670	1671	1672
##	1.388186	1.569989	1.929607	2.199206	1.682856	1.919854	1.518469	1.411648
##	1673	1674	1675	1676	1677	1678	1679	1680
##	1.869323	1.881506	1.586233	1.933387	2.058609	2.015152	1.993510	1.742181
##	1681	1682	1683	1684	1685	1686	1687	1688
##	1.489370	1.755166	1.837490	1.995742	1.631892	1.828121	2.093255	1.747127
##	1689	1690	1691	1692	1693	1694	1695	1696
##	2.056246	1.506208	1.898210	1.297428	2.178376	1.959969	1.910187	2.039772
##	1697	1698	1699	1700	1701	1702	1703	1704
##	1.787667	1.445735	1.670929	1.260776	1.762250	1.936201	1.423996	1.566986
##	1705	1706	1707	1708	1709	1710	1711	1712
##	1.747624	1.442192	2.004691	1.724278	1.915481	2.027584	2.042035	1.583570
##	1713	1714	1715	1716	1717	1718	1719	1720
##	2.102589	1.914748	1.361111	1.342785	1.511053	1.742118	1.924787	1.288204
##	1721	1722	1723	1724	1725	1726	1727	1728
##	1.287304	1.710775	1.709113	1.992280	1.929593	1.485026	1.353586	1.726002
##	1729	1730	1731	1732	1733	1734	1735	1736
##	1.816269	1.479665	2.073732	1.808973	1.616458	1.894412	1.405446	1.904462
##	1737	1738	1739	1740	1741	1742	1743	1744
##	1.595518	1.368882	2.041538	1.701529	2.028985	1.977806	1.335394	2.049285
##	1745	1746	1747	1748	1749	1750	1751	1752
##	1.635208	1.806860	1.422290	1.878142	1.979282	1.955876	1.725240	1.839042
##	1753	1754	1755	1756	1757	1758	1759	1760
##	1.913158	2.097022	1.866039	1.891857	1.977211	1.563360	1.596948	2.084460
##	1761	1762	1763	1764	1765	1766	1767	1768
##	1.775780	1.888545	1.979679	1.937237	1.795278	1.534028	1.313648	1.410692
##	1769	1770	1771	1772	1773	1774	1775	1776
##	2.069236	1.678231	1.856993	1.967492	1.721182	2.088833	1.413918	1.941948

##	1777	1778	1779	1780	1781	1782	1783	1784
##	1.671213	1.600332	1.416323	1.810644	2.096819	1.719789	1.591825	2.016824
##	1785	1786	1787	1788	1789	1790	1791	1792
##	1.800234	1.486238	1.906038	1.822529	2.092009	2.136079	1.448007	1.611696
##	1793	1794	1795	1796	1797	1798	1799	1800
##	1.988486	1.911957	1.350531	1.624526	1.507909	1.825951	1.882139	1.913971
##	1801	1802	1803	1804	1805	1806	1807	1808
##	2.148449	1.977773	1.445848	1.485664	1.419556	2.008966	1.420618	1.443171
##	1809	1810	1811	1812	1813	1814	1815	1816
##	1.542109	1.949977	2.096810	1.815154	1.833545	1.763705	2.004693	1.655139
##	1817	1818	1819	1820	1821	1822	1823	1824
##	1.468618	1.489993	1.539800	2.128722	1.700574	1.708834	1.723269	1.916424
##	1825	1826	1827	1828	1829	1830	1831	1832
##	1.383673	2.001948	1.719672	1.623978	1.720137	1.599792	1.594690	1.481436
##	1833	1834	1835	1836	1837	1838	1839	1840
##	1.832266	1.594710	1.804010	1.989430	1.956003	1.776873	2.120537	2.045965
##	1841	1842	1843	1844	1845	1846	1847	1848
##	1.882214	1.904581	2.078713	1.953416	1.629848	1.794182	1.503690	1.649564
##	1849	1850	1851	1852	1853	1854	1855	1856
##	1.645610	1.492598	1.988817	1.786554	2.165102	1.567661	1.668443	2.108801
##	1857	1858	1859	1860	1861	1862	1863	1864
##	1.631852	1.744843	1.805817	1.692907	1.568272	1.869330	1.434004	1.623039
##	1865	1866	1867	1868	1869	1870	1871	1872
##	2.087255	1.588454	1.701040	2.046363	2.102869	1.932495	1.993598	1.586107
##	1873	1874	1875	1876	1877	1878	1879	1880
##	2.157423	1.774684	1.404331	1.285365	1.697235	1.748227	1.613676	1.895808
##	1881	1882	1883	1884	1885	1886	1887	1888
##	1.821687	2.147556	1.492134	1.825365	1.609265	1.777484	1.588031	1.432232
##	1889	1890	1891	1892	1893	1894	1895	1896
##	1.663764	1.629195	2.080618	1.920576	1.704880	1.372913	1.476435	1.925653
##	1897	1898	1899	1900	1901	1902	1903	1904
##	1.885635	2.118044	1.287403	1.717917	1.854804	1.867455	1.656612	2.096232
##	1905	1906	1907	1908	1909	1910	1911	1912
##	1.886088	1.611623	2.085229	1.959403	1.767842	1.597780	1.757152	1.649366
##	1913	1914	1915	1916	1917	1918	1919	1920
##	2.096985	1.866319	1.640985	1.835835	2.031696	1.663667	2.038810	1.452060
##	1921	1922	1923	1924	1925	1926	1927	1928
##	1.958767	1.586331	1.647507	1.863878	1.361028	1.769255	1.730748	1.807719
##	1929	1930	1931	1932	1933	1934	1935	1936
##	1.856276	1.492293	1.956714	2.021282	1.949186	1.798564	1.774966	2.093036
##	1937	1938	1939	1940	1941	1942	1943	1944
##	1.597742	2.037838	1.550001	1.648966	2.126765	1.670011	1.918286	1.393208
##	1945	1946	1947	1948	1949	1950	1951	1952
##	1.978416	1.717230	1.713935	1.503589	1.444597	1.341705	1.575572	1.943297
##	1953	1954	1955	1956	1957	1958	1959	1960
##	1.853801	1.525479	1.726350	1.709396	1.857909	1.550305	1.502176	1.995276
##	1961	1962	1963	1964	1965	1966	1967	1968
##	1.772226	1.671393	2.064139	1.693403	1.915054	1.369790	1.871492	1.480308
##	1969	1970	1971	1972	1973	1974	1975	1976
##	2.113361	1.399355	1.950483	1.190857	1.444468	2.040424	2.004758	1.371630

##	1977	1978	1979	1980	1981	1982	1983	1984
##	1.709301	1.868135	1.766404	1.415061	1.682955	1.933677	1.564042	1.722859
##	1985	1986	1987	1988	1989	1990	1991	1992
##	1.859886	1.326709	1.837835	1.464683	1.613374	1.911043	1.350983	2.169877
##	1993	1994	1995	1996	1997	1998	1999	2000
##	1.858184	1.501913	1.467010	1.452352	1.815913	1.973807	1.746389	1.432408
##	2001	2002	2003	2004	2005	2006	2007	2008
##	1.680193	1.628037	1.352075	1.420074	2.154403	1.375284	1.929491	1.676327
##	2009	2010	2011	2012	2013	2014	2015	2016
##	1.966588	1.809771	1.717907	1.376240	2.013007	1.586363	1.821607	1.870419
##	2017	2018	2019	2020	2021	2022	2023	2024
##	2.037154	1.442108	1.322178	1.457379	2.021020	1.851550	1.906393	1.933425
##	2025	2026	2027	2028	2029	2030	2031	2032
##	1.883503	1.701789	1.636994	1.439204	1.757397	1.950342	1.851744	1.348723
##	2033	2034	2035	2036	2037	2038	2039	2040
##	1.338340	1.461670	1.489205	2.149025	1.916472	1.774214	1.483061	1.871415
##	2041	2042	2043	2044	2045	2046	2047	2048
##	1.897028	1.629401	1.536727	1.380441	1.789008	2.063884	2.100201	1.624689
##	2049	2050	2051	2052	2053	2054	2055	2056
##	1.677973	1.545850	1.689339	1.713399	1.657228	2.172337	1.581509	2.154712
##	2057	2058	2059	2060	2061	2062	2063	2064
##	1.712488	1.990240	1.950685	1.976122	1.532946	1.991272	1.727662	1.767228
##	2065	2066	2067	2068	2069	2070	2071	2072
##	1.335675	1.848602	1.963161	2.007218	1.845415	1.651563	1.553761	1.760223
##	2073	2074	2075	2076	2077	2078	2079	2080
##	1.441036	1.790689	1.818808	1.976180	1.554496	1.832128	1.753819	1.496393
##	2081	2082	2083	2084	2085	2086	2087	2088
##	1.386734	1.509273	1.654062	1.785063	1.965814	1.800955	2.060619	2.176977
##	2089	2090	2091	2092	2093	2094	2095	2096
##	1.815956	1.855635	1.348282	1.818271	1.352319	1.384189	1.634483	1.808913
##	2097	2098	2099	2100	2101	2102	2103	2104
##	1.694259	1.474653	1.407720	1.327484	1.401552	1.974671	1.529928	1.848173
##	2105	2106	2107	2108	2109	2110	2111	2112
##	1.955126	1.817303	1.992046	1.895742	1.678298	1.906015	1.968065	1.600669
##	2113	2114	2115	2116	2117	2118	2119	2120
##	2.107046	1.487563	1.963996	2.057705	1.805860	1.564828	1.532246	1.573994
##	2121	2122	2123	2124	2125	2126	2127	2128
##	1.957728	1.646955	1.818049	1.814672	1.342820	1.734802	1.973582	1.935266
##	2129	2130	2131	2132	2133	2134	2135	2136
##	1.346522	1.804140	1.686932	1.416139	1.860766	2.112696	1.498137	1.546201
##	2137	2138	2139	2140	2141	2142	2143	2144
##	1.879866	1.807095	1.673559	1.652711	1.530827	1.875352	1.870041	1.850473
##	2145	2146	2147	2148	2149	2150	2151	2152
##	1.577966	1.412858	2.003276	1.536009	1.536303	1.979907	1.461469	1.395982
##	2153	2154	2155	2156	2157	2158	2159	2160
##	1.660006	1.988345	1.895519	2.178178	1.405691	1.535482	1.391747	2.061103
##	2161	2162	2163	2164	2165	2166	2167	2168
##	1.879777	1.848595	1.255578	1.323393	2.071308	1.847433	1.591470	1.662343
##	2169	2170	2171	2172	2173	2174	2175	2176
##	1.410516	1.910804	1.625239	2.062886	1.891192	2.053078	1.870045	1.923139

##	2177	2178	2179	2180	2181	2182	2183	2184
##	1.873382	1.802695	1.666908	1.254885	1.774308	2.052028	1.992783	1.700648
##	2185	2186	2187	2188	2189	2190	2191	2192
##	2.086562	2.074208	1.226111	2.000775	1.971916	1.351627	1.861348	1.874877
##	2193	2194	2195	2196	2197	2198	2199	2200
##	1.921853	1.718774	2.005604	1.746005	1.926891	1.374937	1.997605	1.855511
##	2201	2202	2203	2204	2205	2206	2207	2208
##	1.530333	1.642349	1.373761	1.173275	1.803020	1.902501	1.670757	1.881483
##	2209	2210	2211	2212	2213	2214	2215	2216
##	1.898466	1.430139	2.005493	1.782337	2.134583	2.120608	1.402989	2.131025
##	2217	2218	2219	2220	2221	2222	2223	2224
##	2.249203	1.518166	1.478621	1.447418	1.695435	1.900931	1.986996	1.844665
##	2225	2226	2227	2228	2229	2230	2231	2232
##	1.466207	2.035194	1.454491	2.033413	1.951172	1.874318	1.834767	1.358221
##	2233	2234	2235	2236	2237	2238	2239	2240
##	1.702317	1.335092	2.071811	2.072178	1.986023	1.946752	1.637328	1.864676
##	2241	2242	2243	2244	2245	2246	2247	2248
##	1.917286	1.326431	2.016422	1.764891	1.631922	1.901014	1.545227	2.068978
##	2249	2250	2251	2252	2253	2254	2255	2256
##	2.173620	2.005024	1.708100	1.922260	1.924819	2.007657	1.903526	1.528919
##	2257	2258	2259	2260	2261	2262	2263	2264
##	1.738458	1.347559	1.537907	1.973979	1.363692	1.778986	1.994974	1.966645
##	2265	2266	2267	2268	2269	2270	2271	2272
##	1.436571	1.295174	1.475148	1.630170	1.944852	1.575318	1.370943	1.590879
##	2273	2274	2275	2276	2277	2278	2279	2280
##	1.776567	1.639057	1.959992	1.291917	1.565654	1.675719	1.385367	1.727711
##	2281	2282	2283	2284	2285	2286	2287	2288
##	1.745598	1.601563	1.857739	1.376590	2.015848	1.524349	1.296727	2.052512
##	2289	2290	2291	2292	2293	2294	2295	2296
##	2.080693	1.318850	1.563606	1.599049	1.782300	1.861993	2.021207	1.719204
##	2297	2298	2299	2300	2301	2302	2303	2304
##	1.380560	2.103530	1.674920	1.859003	1.530586	1.411953	1.707140	1.940075
##	2305	2306	2307	2308	2309	2310	2311	2312
##	1.793824	2.040842	1.712044	1.899521	1.664059	2.114859	1.764481	1.811744
##	2313	2314	2315	2316	2317	2318	2319	2320
##	1.993417	2.008165	1.422811	2.068220	1.694514	2.059482	1.443040	1.448388
##	2321	2322	2323	2324	2325	2326	2327	2328
##	1.793582	1.927487	1.444047	1.460443	1.824704	1.713494	1.799813	1.869896
##	2329	2330	2331	2332	2333	2334	2335	2336
##	2.033214	1.336633	1.663651	1.501690	1.631978	2.127288	1.312570	1.875070
##	2337	2338	2339	2340	2341	2342	2343	2344
##	2.022506	1.600960	1.586407	1.811055	1.810304	1.883566	1.840007	1.930800
##	2345	2346	2347	2348	2349	2350	2351	2352
##	2.048685	1.316097	2.111444	1.804013	1.356394	1.942538	2.109120	1.786747
##	2353	2354	2355	2356	2357	2358	2359	2360
##	2.008233	2.004942	1.768821	2.098904	1.655741	1.762677	1.602213	1.463114
##	2361	2362	2363	2364	2365	2366	2367	2368
##	1.486499	1.349496	1.352492	1.989757	1.990468	1.993488	1.697888	2.160932
##	2369	2370	2371	2372	2373	2374	2375	2376
##	2.003969	1.816960	1.991627	1.647054	1.906557	1.575324	1.486484	1.754126

##	2377	2378	2379	2380	2381	2382	2383	2384
##	1.883209	1.894704	1.640578	1.540408	1.654863	1.858388	1.331495	1.535016
##	2385	2386	2387	2388	2389	2390	2391	2392
##	2.091571	1.898510	1.520767	1.415087	1.579934	1.822140	1.467286	1.648041
##	2393	2394	2395	2396	2397	2398	2399	2400
##	1.302136	1.595296	1.513595	1.615603	1.696633	1.848473	2.098966	1.701044
##	2401	2402	2403	2404	2405	2406	2407	2408
##	1.365964	1.323492	1.399174	2.025582	1.730842	1.647247	2.002893	1.871097
##	2409	2410	2411	2412	2413	2414	2415	2416
##	1.812987	1.883450	1.458480	1.466550	1.716997	1.482681	1.822080	1.664354
##	2417	2418	2419	2420	2421	2422	2423	2424
##	1.782959	1.354190	1.895840	1.805995	1.831815	1.643896	1.550309	1.532619
##	2425	2426	2427	2428	2429	2430	2431	2432
##	1.843194	1.863696	1.513730	1.891371	1.735339	1.835510	1.639029	1.578394
##	2433	2434	2435	2436	2437	2438	2439	2440
##	1.743566	1.414133	1.941215	1.886684	1.331051	1.273599	1.994941	1.405256
##	2441	2442	2443	2444	2445	2446	2447	2448
##	1.666003	1.413668	1.441844	1.296334	1.637835	1.991464	1.597374	1.387023
##	2449	2450	2451	2452	2453	2454	2455	2456
##	1.311473	2.047470	1.447636	1.996602	1.715905	1.674498	1.790245	2.039891
##	2457	2458	2459	2460	2461	2462	2463	2464
##	2.057866	1.706799	1.337536	1.325115	1.520441	2.073138	1.695999	1.490487
##	2465	2466	2467	2468	2469	2470	2471	2472
##	1.924993	1.992020	1.611636	2.158333	1.842081	1.562387	1.970570	2.111001
##	2473	2474	2475	2476	2477	2478	2479	2480
##	1.396839	1.660367	2.029177	1.583621	1.983789	1.598684	1.638137	1.858280
##	2481	2482	2483	2484	2485	2486	2487	2488
##	1.415714	1.570696	1.901323	1.795096	2.072802	1.693816	1.929315	1.615883
##	2489	2490	2491	2492	2493	2494	2495	2496
##	1.324588	1.590203	1.912957	1.957610	1.815371	1.794455	1.942230	1.993517
##	2497	2498	2499	2500	2501	2502	2503	2504
##	2.110305	2.006701	2.012132	1.461271	1.932202	2.017869	2.004784	1.860833
##	2505	2506	2507	2508	2509	2510	2511	2512
##	2.013812	1.342817	1.641680	1.839689	2.062045	1.402640	1.939310	1.267760
##	2513	2514	2515	2516	2517	2518	2519	2520
##	1.373901	1.424991	1.286394	1.964797	1.457613	1.839895	2.048079	2.132274
##	2521	2522	2523	2524	2525	2526	2527	2528
##	2.023661	1.813667	1.346399	1.401605	1.884313	1.385138	2.002049	1.616124
##	2529	2530	2531	2532	2533	2534	2535	2536
##	1.941267	1.940051	2.034230	1.887500	2.062709	1.788969	2.053207	1.989065
##	2537	2538	2539	2540	2541	2542	2543	2544
##	1.950391	1.766753	1.419450	1.640652	2.048549	1.730051	2.010001	1.400000
##	2545	2546	2547	2548	2549	2550	2551	2552
##	1.811218	2.060270	1.861996	1.920881	1.775434	1.665553	1.627720	1.659635
##	2553	2554	2555	2556	2557	2558	2559	2560
##	1.647858	1.943798	1.992480	1.655266	1.962868	1.955590	1.411204	1.619973
##	2561	2562	2563	2564	2565	2566	2567	2568
##	1.862497	2.128627	1.695761	1.958690	2.060905	1.435575	1.737400	2.059761
##	2569	2570	2571	2572	2573	2574	2575	2576
##	1.532410	1.444295	1.922273	1.767403	1.229240	1.522384	2.037953	1.443262

##	2577	2578	2579	2580	2581	2582	2583	2584
##	1.849175	1.350396	2.054201	1.905232	1.993768	1.941910	1.962322	1.737004
##	2585	2586	2587	2588	2589	2590	2591	2592
##	1.298523	1.541251	1.641885	1.839538	2.102563	1.890649	1.984783	1.732969
##	2593	2594	2595	2596	2597	2598	2599	2600
##	1.870325	1.437805	2.167677	1.450330	1.978514	1.835542	1.998808	1.483753
##	2601	2602	2603	2604	2605	2606	2607	2608
##	1.870119	1.565152	1.356421	1.723063	1.668263	1.767614	1.450437	1.649498
##	2609	2610	2611	2612	2613	2614	2615	2616
##	1.350411	1.904550	2.107337	1.660705	1.757908	1.948109	1.488931	1.762634
##	2617	2618	2619	2620	2621	2622	2623	2624
##	2.064246	1.662276	1.480498	1.700494	1.750130	1.918506	1.936695	1.533159
##	2625	2626	2627	2628	2629	2630	2631	2632
##	1.462932	1.927096	1.228132	1.915904	1.914368	1.403177	2.016674	1.939273
##	2633	2634	2635	2636	2637	2638	2639	2640
##	1.973049	1.788295	1.689788	1.582831	1.751974	1.625801	1.487487	1.664950
##	2641	2642	2643	2644	2645	2646	2647	2648
##	1.822364	1.967232	1.757693	1.765123	2.031500	1.499341	1.437076	1.580734
##	2649	2650	2651	2652	2653	2654	2655	2656
##	2.147947	1.282577	1.391616	1.867219	1.667303	1.955974	2.033495	1.722814
##	2657	2658	2659	2660	2661	2662	2663	2664
##	2.024893	1.464080	1.790298	1.831526	1.683733	2.059375	2.051069	1.834954
##	2665	2666	2667	2668	2669	2670	2671	2672
##	1.472683	1.787894	1.797817	1.946372	1.439975	1.763472	2.022346	1.923307
##	2673	2674	2675	2676	2677	2678	2679	2680
##	1.423416	1.934200	1.362712	2.214201	1.987048	1.593360	1.427362	1.852298
##	2681	2682	2683	2684	2685	2686	2687	2688
##	2.000540	1.403102	1.626412	1.395209	1.929539	1.362195	1.668175	1.739073
##	2689	2690	2691	2692	2693	2694	2695	2696
##	2.114741	1.869117	1.961063	2.062705	2.162540	1.813642	1.513788	1.715258
##	2697	2698	2699	2700	2701	2702	2703	2704
##	2.051391	1.658111	1.528198	1.916599	2.063510	1.453294	1.373290	1.307039
##	2705	2706	2707	2708	2709	2710	2711	2712
##	1.608269	1.921486	1.540946	1.687712	1.755538	1.790036	1.838183	1.709287
##	2713	2714	2715	2716	2717	2718	2719	2720
##	2.171954	2.044325	1.974512	1.639950	1.354179	2.007549	1.874451	2.063695
##	2721	2722	2723	2724	2725	2726	2727	2728
##	1.617621	1.986862	1.272715	1.725714	1.283886	1.693049	1.824515	1.850660
##	2729	2730	2731	2732	2733	2734	2735	2736
##	1.527856	1.833841	1.605844	1.672709	1.800726	1.947853	1.806182	1.643376
##	2737	2738	2739	2740	2741	2742	2743	2744
##	1.270256	2.170391	1.983081	1.723071	1.228597	1.990910	1.781137	1.464982
##	2745	2746	2747	2748	2749	2750	2751	2752
##	1.739166	1.811686	1.627666	1.863855	1.263944	1.718486	1.936810	1.798192
##	2753	2754	2755	2756	2757	2758	2759	2760
##	1.947644	1.818693	1.835240	1.884148	1.485194	1.672146	1.909602	1.912889
##	2761	2762	2763	2764	2765	2766	2767	2768
##	1.468328	1.883159	1.718483	1.881204	1.868399	1.371105	1.684663	2.140540
##	2769	2770	2771	2772	2773	2774	2775	2776
##	1.697525	1.718714	1.892310	1.466793	1.840676	1.523226	1.333936	1.896156

##	2777	2778	2779	2780	2781	2782	2783	2784
##	1.556630	1.889133	1.639115	1.420334	1.629312	1.895305	2.062708	1.914179
##	2785	2786	2787	2788	2789	2790	2791	2792
##	1.446037	1.806703	1.964196	1.732988	1.416816	1.832972	1.336118	1.696656
##	2793	2794	2795	2796	2797	2798	2799	2800
##	1.243177	1.359915	2.047435	1.878559	1.809264	1.459522	1.976301	1.704043
##	2801	2802	2803	2804	2805	2806	2807	2808
##	2.151862	1.923553	1.896101	1.407154	1.702627	1.777559	2.016805	1.812854
##	2809	2810	2811	2812	2813	2814	2815	2816
##	2.035381	2.071216	1.425023	1.927307	2.011243	1.606234	1.731664	1.976211
##	2817	2818	2819	2820	2821	2822	2823	2824
##	1.297657	1.928081	1.966396	2.065702	1.738726	1.745260	1.610037	1.891419
##	2825	2826	2827	2828	2829	2830	2831	2832
##	1.393965	2.087633	1.301092	1.864675	2.080553	1.984284	1.995940	1.639001
##	2833	2834	2835	2836	2837	2838	2839	2840
##	1.801538	1.998824	2.047709	1.731042	1.620486	1.685782	2.054044	1.249480
##	2841	2842	2843	2844	2845	2846	2847	2848
##	1.491244	1.571385	1.571347	1.833821	1.833197	1.646737	2.052723	2.105731
##	2849	2850	2851	2852	2853	2854	2855	2856
##	1.751854	1.706330	2.034444	1.539588	2.024631	1.776248	2.049001	1.641975
##	2857	2858	2859	2860	2861	2862	2863	2864
##	1.328211	1.437652	1.645840	1.656024	1.953263	1.431041	1.925133	1.509580
##	2865	2866	2867	2868	2869	2870	2871	2872
##	1.304984	1.800218	1.359689	1.996486	1.405731	2.076931	1.412389	1.868698
##	2873	2874	2875	2876	2877	2878	2879	2880
##	1.680077	1.478304	1.695148	1.430992	1.842519	1.532805	2.050060	2.089353
##	2881	2882	2883	2884	2885	2886	2887	2888
##	1.909045	1.832906	1.592172	1.367065	1.937237	1.679496	1.344941	1.805860
##	2889	2890	2891	2892	2893	2894	2895	2896
##	1.768423	1.984600	1.917049	1.842081	1.974316	1.691879	2.116340	1.378363
##	2897	2898	2899	2900	2901	2902	2903	2904
##	1.932632	1.439419	1.738785	1.568245	1.678063	1.696441	1.409302	1.400800
##	2905	2906	2907	2908	2909	2910	2911	2912
##	1.954400	1.920554	1.482660	1.470712	1.989807	1.697801	2.069684	1.822814
##	2913	2914	2915	2916	2917	2918	2919	2920
##	2.069243	1.511429	1.815796	2.173726	1.277903	1.525599	1.776845	1.482275
##	2921	2922	2923	2924	2925	2926	2927	2928
##	1.774716	1.967574	1.405446	2.101441	1.944678	1.939820	1.464095	1.726602
##	2929	2930	2931	2932	2933	2934	2935	2936
##	2.035141	1.883025	2.135953	1.536121	1.797967	1.790971	1.502020	1.659462
##	2937	2938	2939	2940	2941	2942	2943	2944
##	1.955192	2.024355	1.902334	1.691985	1.548541	1.706052	1.706906	1.467135
##	2945	2946	2947	2948	2949	2950	2951	2952
##	2.018772	1.772078	1.786138	1.857329	1.423521	1.411316	1.276883	1.660340
##	2953	2954	2955	2956	2957	2958	2959	2960
##	1.367329	1.824223	1.666545	1.417345	1.725195	1.629865	1.872909	1.809048
##	2961	2962	2963	2964	2965	2966	2967	2968
##	1.707388	1.439995	1.937951	1.430002	1.985684	1.365150	2.080245	2.044329
##	2969	2970	2971	2972	2973	2974	2975	2976
##	1.752880	1.549463	1.645895	1.797118	1.762602	1.619790	1.912803	2.057847

##	2977	2978	2979	2980	2981	2982	2983	2984
##	2.098207	1.973084	2.172722	1.855238	1.704371	1.809329	1.999586	1.915758
##	2985	2986	2987	2988	2989	2990	2991	2992
##	1.788721	1.535840	1.633047	1.728369	1.871186	2.016872	1.624855	1.668763
##	2993	2994	2995	2996	2997	2998	2999	3000
##	1.682878	1.430474	1.877528	1.361289	1.828007	1.834452	1.580555	1.360874
##	3001	3002	3003	3004	3005	3006	3007	3008
##	1.763903	1.366889	1.539725	1.874746	1.699233	1.583519	1.938151	2.049917
##	3009	3010	3011	3012	3013	3014	3015	3016
##	1.616069	1.523872	2.074700	1.546779	1.852354	1.995831	1.836704	1.915887
##	3017	3018	3019	3020	3021	3022	3023	3024
##	1.820797	1.808247	2.169794	1.852015	2.044407	1.375093	1.767523	1.718865
##	3025	3026	3027	3028	3029	3030	3031	3032
##	1.715389	1.351256	1.597973	1.959413	1.895196	1.342298	1.484651	1.965810
##	3033	3034	3035	3036	3037	3038	3039	3040
##	1.952578	1.759063	1.984691	1.921225	1.643595	1.792409	1.516643	1.585619
##	3041	3042	3043	3044	3045	3046	3047	3048
##	1.833688	1.788714	1.613407	1.654473	1.820304	1.427382	2.170656	1.747708
##	3049	3050	3051	3052	3053	3054	3055	3056
##	1.869460	1.851081	1.692665	1.964527	1.945472	1.666590	1.995231	1.664271
##	3057	3058	3059	3060	3061	3062	3063	3064
##	1.353075	1.700947	1.483221	1.518099	1.586595	1.379136	1.402554	1.731473
##	3065	3066	3067	3068	3069	3070	3071	3072
##	1.774576	1.703795	1.951284	2.027396	1.873884	1.808252	1.803970	1.735880
##	3073	3074	3075	3076	3077	3078	3079	3080
##	2.003941	1.237032	1.540841	1.614846	1.430711	1.990432	2.013653	1.821399
##	3081	3082	3083	3084	3085	3086	3087	3088
##	1.281293	1.464908	1.315761	2.013305	2.127526	1.546904	1.874098	1.552216
##	3089	3090	3091	3092	3093	3094	3095	3096
##	1.874397	1.795106	1.461683	1.943517	1.832963	1.538045	1.891024	1.666285
##	3097	3098	3099	3100	3101	3102	3103	3104
##	1.738303	1.782251	1.716694	1.346688	1.831566	2.045095	2.005817	1.780927
##	3105	3106	3107	3108	3109	3110	3111	3112
##	1.966836	1.811947	1.868762	2.003888	1.459190	1.633804	1.439179	1.697372
##	3113	3114	3115	3116	3117	3118	3119	3120
##	1.832861	1.985696	1.416856	1.996854	1.674850	2.024333	1.496843	2.173524
##	3121	3122	3123	3124	3125	3126	3127	3128
##	1.824774	1.870951	1.664637	1.858086	1.821081	1.830122	2.132271	1.457591
##	3129	3130	3131	3132	3133	3134	3135	3136
##	1.935789	1.950914	1.485234	1.483226	1.684536	1.594173	1.691320	1.524768
##	3137	3138	3139	3140	3141	3142	3143	3144
##	1.388588	1.810693	1.665873	1.830121	1.441050	1.406360	1.485200	1.766572
##	3145	3146	3147	3148	3149	3150	3151	3152
##	1.682393	1.600378	1.602084	1.674461	1.744523	1.453989	1.950628	1.875471
##	3153	3154	3155	3156	3157	3158	3159	3160
##	1.676645	1.670415	1.197020	2.131571	1.894438	1.570151	1.536375	1.510727
##	3161	3162	3163	3164	3165	3166	3167	3168
##	1.932598	1.782680	2.100633	1.937215	1.959049	1.519747	1.904796	1.487761
##	3169	3170	3171	3172	3173	3174	3175	3176
##	1.892883	1.731290	1.441039	1.974614	2.080058	1.763790	1.915116	1.810868

##	3177	3178	3179	3180	3181	3182	3183	3184
##	2.045269	1.722374	1.443801	2.023445	1.552769	2.081032	1.605410	1.679826
##	3185	3186	3187	3188	3189	3190	3191	3192
##	1.865506	1.980730	1.582500	2.022421	1.924739	1.660392	1.513511	1.852169
##	3193	3194	3195	3196	3197	3198	3199	3200
##	1.693672	1.579187	2.056263	1.613929	1.863184	1.540454	2.171518	1.954632
##	3201	3202	3203	3204	3205	3206	3207	3208
##	2.006664	1.818260	1.783615	1.803161	1.234817	2.063745	1.906578	1.651759
##	3209	3210	3211	3212	3213	3214	3215	3216
##	1.878303	1.660448	1.601095	1.662555	1.754404	1.923061	1.922470	2.118492
##	3217	3218	3219	3220	3221	3222	3223	3224
##	1.628903	1.672143	1.647934	1.513196	1.585528	1.819924	1.596346	1.687246
##	3225	3226	3227	3228	3229	3230	3231	3232
##	1.299954	2.087756	1.747098	1.947030	1.528028	1.976208	2.042481	1.675024
##	3233	3234	3235	3236	3237	3238	3239	3240
##	2.055275	1.997751	1.716099	1.776384	1.808462	1.926493	1.588468	1.648145
##	3241	3242	3243	3244	3245	3246	3247	3248
##	1.692042	1.593697	1.922681	1.277853	1.670864	1.821144	1.516479	1.772352
##	3249	3250	3251	3252	3253	3254	3255	3256
##	1.563103	1.362073	1.849433	2.119134	1.456153	1.569182	1.481998	1.662680
##	3257	3258	3259	3260	3261	3262	3263	3264
##	2.128597	1.580223	1.872494	1.480289	1.566857	2.129360	1.999172	1.718046
##	3265	3266	3267	3268	3269	3270	3271	3272
##	1.998396	1.288114	1.263232	1.386630	1.630597	1.602210	1.922014	1.366391
##	3273	3274	3275	3276	3277	3278	3279	3280
##	1.904567	1.989698	1.924436	2.068999	1.712294	1.791731	2.020603	1.524471
##	3281	3282	3283	3284	3285	3286	3287	3288
##	2.117255	1.408705	1.465684	1.939818	1.604831	1.672560	1.881562	1.481240
##	3289	3290	3291	3292	3293	3294	3295	3296
##	1.527321	1.421808	2.196102	1.714113	1.932594	1.813190	1.920002	1.952097
##	3297	3298	3299	3300	3301	3302	3303	3304
##	1.353586	1.511686	1.457711	1.846878	1.478565	1.508736	1.931793	1.870223
##	3305	3306	3307	3308	3309	3310	3311	3312
##	1.930936	1.355665	1.763776	1.806975	1.822965	1.729469	1.804002	1.805708
##	3313	3314	3315	3316	3317	3318	3319	3320
##	2.095819	1.642545	1.535832	1.636984	2.018501	1.285536	1.899242	1.451796
##	3321	3322	3323	3324	3325	3326	3327	3328
##	1.300321	1.809551	1.828515	1.398893	1.713107	1.534460	1.633200	1.975359
##	3329	3330	3331	3332	3333	3334	3335	3336
##	1.531693	1.790893	2.056149	1.373898	1.478032	2.162677	1.281234	1.784988
##	3337	3338	3339	3340	3341	3342	3343	3344
##	1.805444	1.911338	1.396852	1.810928	1.246941	1.969572	1.737053	1.299431
##	3345	3346	3347	3348	3349	3350	3351	3352
##	1.598864	1.736435	1.271902	1.436810	1.937170	1.994310	1.609921	1.623333
##	3353	3354	3355	3356	3357	3358	3359	3360
##	1.880619	1.813328	1.436843	1.922160	1.669974	1.906916	1.436651	1.945084
##	3361	3362	3363	3364	3365	3366	3367	3368
##	1.542354	1.964151	1.654454	1.580337	1.841726	1.807796	1.665270	1.285776
##	3369	3370	3371	3372	3373	3374	3375	3376
##	1.666949	2.125478	1.781570	2.044084	2.176210	1.813437	1.177618	1.890518

##	3377	3378	3379	3380	3381	3382	3383	3384
##	2.083288	1.366776	1.455097	1.295336	1.939133	1.817489	1.939479	1.392431
##	3385	3386	3387	3388	3389	3390	3391	3392
##	2.015820	1.824492	1.878506	1.825347	1.815765	1.870316	1.880618	2.066562
##	3393	3394	3395	3396	3397	3398	3399	3400
##	1.835331	1.826502	1.463188	2.014455	1.328292	1.825794	1.948131	1.852249
##	3401	3402	3403	3404	3405	3406	3407	3408
##	1.925581	1.986755	1.678181	1.912461	1.623951	1.552138	1.887992	1.510434
##	3409	3410	3411	3412	3413	3414	3415	3416
##	1.961323	1.766627	1.615131	1.778574	1.759877	1.950820	1.703666	2.040755
##	3417	3418	3419	3420	3421	3422	3423	3424
##	2.004835	1.716512	1.348739	1.623151	1.406189	1.359306	1.644993	2.035378
##	3425	3426	3427	3428	3429	3430	3431	3432
##	1.877291	1.382701	2.077009	1.800132	1.789998	1.409001	1.894790	1.782869
##	3433	3434	3435	3436	3437	3438	3439	3440
##	1.341746	1.821169	2.102290	1.883177	1.554109	1.767037	1.829841	1.663241
##	3441	3442	3443	3444	3445	3446	3447	3448
##	1.781355	1.680093	1.681069	1.713543	1.734818	1.743727	1.592915	1.761852
##	3449	3450	3451	3452	3453	3454	3455	3456
##	1.641780	1.285778	2.014504	1.758651	1.465562	1.890495	1.675909	1.986376
##	3457	3458	3459	3460	3461	3462	3463	3464
##	1.314564	1.564051	1.568222	1.606661	2.032354	1.254583	1.833611	1.315877
##	3465	3466	3467	3468	3469	3470	3471	3472
##	1.705290	1.934157	1.641023	1.592823	1.781793	1.870257	1.717532	1.441778
##	3473	3474	3475	3476	3477	3478	3479	3480
##	1.662776	1.599247	2.098728	1.595386	1.688670	1.585685	1.577298	1.370543
##	3481	3482	3483	3484	3485	3486	3487	3488
##	1.778411	2.076031	1.564318	1.760196	1.650122	1.893237	1.634781	1.607895
##	3489	3490	3491	3492	3493	3494	3495	3496
##	1.367577	1.292308	1.667565	1.360155	1.689611	1.798564	1.733969	2.010973
##	3497	3498	3499	3500	3501	3502	3503	3504
##	1.754814	1.811549	2.123420	1.587069	1.517282	1.819128	1.991568	1.593287
##	3505	3506	3507	3508	3509	3510	3511	3512
##	1.376948	1.990255	1.913470	1.877280	1.882321	1.749607	1.620509	1.983619
##	3513	3514	3515	3516	3517	3518	3519	3520
##	1.813295	1.494057	1.846940	2.045275	1.985680	2.048706	1.301555	1.585907
##	3521	3522	3523	3524	3525	3526	3527	3528
##	1.619132	1.361932	1.802982	1.368697	1.620527	1.907949	1.613888	1.823535
##	3529	3530	3531	3532	3533	3534	3535	3536
##	1.814804	1.879701	1.358218	1.848939	2.130932	1.623532	2.065983	1.803218
##	3537	3538	3539	3540	3541	3542	3543	3544
##	1.838834	2.071665	1.571022	1.543203	2.118259	2.089485	1.936587	2.146594
##	3545	3546	3547	3548	3549	3550	3551	3552
##	1.548294	1.369573	1.927505	2.045567	1.447693	1.403667	1.891505	1.641326
##	3553	3554	3555	3556	3557	3558	3559	3560
##	1.555426	1.978417	1.673250	1.542751	1.285048	1.473550	1.804140	1.613386
##	3561	3562	3563	3564	3565	3566	3567	3568
##	1.883724	1.529132	1.511677	1.894242	1.952363	1.689908	1.482162	1.876316
##	3569	3570	3571	3572	3573	3574	3575	3576
##	1.752332	1.742986	1.998230	1.833097	1.850152	1.594802	1.616942	2.188463

##	3577	3578	3579	3580	3581	3582	3583	3584
##	1.351459	1.823111	1.491330	1.702638	1.737965	1.266460	1.562945	1.714761
##	3585	3586	3587	3588	3589	3590	3591	3592
##	1.950534	1.526397	1.591571	1.432808	1.596000	1.368792	1.725993	1.502635
##	3593	3594	3595	3596	3597	3598	3599	3600
##	1.590870	1.921064	1.640642	1.988882	1.810706	1.640043	1.940348	1.763017
##	3601	3602	3603	3604	3605	3606	3607	3608
##	1.735650	1.846032	1.609609	1.728116	1.319136	1.740408	1.465156	1.692623
##	3609	3610	3611	3612	3613	3614	3615	3616
##	2.033269	1.447211	1.907765	1.479149	1.843157	2.218193	1.676731	1.581902
##	3617	3618	3619	3620	3621	3622	3623	3624
##	2.172701	1.541738	1.687170	2.093648	1.812270	1.886743	1.697639	1.852749
##	3625	3626	3627	3628	3629	3630	3631	3632
##	1.829998	1.602114	1.473312	1.341318	1.993092	2.049067	1.873943	1.828959
##	3633	3634	3635	3636	3637	3638	3639	3640
##	1.625215	1.632038	1.436029	1.916522	1.411102	2.006518	1.973447	1.832913
##	3641	3642	3643	3644	3645	3646	3647	3648
##	1.770200	1.394587	1.666759	2.082065	1.944864	1.998024	1.559093	1.850190
##	3649	3650	3651	3652	3653	3654	3655	3656
##	1.589931	1.915621	1.898784	1.936898	1.755083	1.892485	1.693047	1.716142
##	3657	3658	3659	3660	3661	3662	3663	3664
##	1.678254	1.339678	1.654967	1.931647	1.617518	1.487579	1.759619	1.617563
##	3665	3666	3667	3668	3669	3670	3671	3672
##	1.892620	1.340357	1.747340	1.520596	1.640778	1.801538	1.912884	1.654687
##	3673	3674	3675	3676	3677	3678	3679	3680
##	1.720596	1.758141	1.627733	1.488323	1.411394	2.173795	1.580502	1.871619
##	3681	3682	3683	3684	3685	3686	3687	3688
##	1.401286	1.617677	1.580170	1.342061	1.583480	1.812301	1.559438	1.824110
##	3689	3690	3691	3692	3693	3694	3695	3696
##	1.941254	1.482459	1.676368	1.611611	1.726771	1.881290	1.845299	1.946659
##	3697	3698	3699	3700	3701	3702	3703	3704
##	1.458022	1.897359	2.021174	2.123018	1.558461	2.124384	1.919491	1.577638
##	3705	3706	3707	3708	3709	3710	3711	3712
##	1.897402	1.989487	1.955806	1.549825	2.124907	1.365648	1.299088	1.791886
##	3713	3714	3715	3716	3717	3718	3719	3720
##	1.654782	1.952644	1.909979	1.803034	1.904672	1.870023	2.016893	1.386993
##	3721	3722	3723	3724	3725	3726	3727	3728
##	1.452936	1.227837	2.038097	2.023185	1.654629	1.411846	1.825862	1.927668
##	3729	3730	3731	3732	3733	3734	3735	3736
##	1.886385	1.293923	1.837651	1.541512	1.653558	1.871108	1.415655	2.050490
##	3737	3738	3739	3740	3741	3742	3743	3744
##	1.689612	1.747467	1.670836	1.353877	1.406845	1.650018	1.986342	1.195632
##	3745	3746	3747	3748	3749	3750	3751	3752
##	1.656190	1.796379	2.058340	1.669047	1.808834	1.354851	1.561000	1.939588
##	3753	3754	3755	3756	3757	3758	3759	3760
##	1.719912	1.343868	1.439317	2.030000	1.607879	1.360382	1.822868	1.754627
##	3761	3762	3763	3764	3765	3766	3767	3768
##	1.599346	1.969770	1.689998	1.836193	2.063934	1.354973	1.342372	1.601794
##	3769	3770	3771	3772	3773	3774	3775	3776
##	1.750378	1.475626	1.758120	2.063887	1.611523	2.109051	2.023607	1.932067

##	3777	3778	3779	3780	3781	3782	3783	3784
##	1.379407	1.709257	1.407297	1.299242	1.516842	1.731098	1.974253	1.831969
##	3785	3786	3787	3788	3789	3790	3791	3792
##	1.874955	1.438727	1.385468	1.825405	1.648100	1.398585	1.599570	1.776227
##	3793	3794	3795	3796	3797	3798	3799	3800
##	1.565724	1.857756	1.977197	1.463780	1.809206	1.840618	1.467339	1.342294
##	3801	3802	3803	3804	3805	3806	3807	3808
##	1.475099	1.419333	1.837822	1.998843	1.676197	1.709725	1.871719	1.847873
##	3809	3810	3811	3812	3813	3814	3815	3816
##	2.101124	1.357076	1.908623	2.029410	1.873960	1.822762	1.865594	1.296908
##	3817	3818	3819	3820	3821	3822	3823	3824
##	1.359533	2.187556	1.546789	2.055778	1.847110	2.092050	1.481986	1.267225
##	3825	3826	3827	3828	3829	3830	3831	3832
##	1.487610	1.839303	1.555886	1.908550	1.936123	2.013492	1.425326	1.414337
##	3833	3834	3835	3836	3837	3838	3839	3840
##	1.864222	1.988522	1.454625	1.448887	1.389039	1.793590	1.433441	1.645941
##	3841	3842	3843	3844	3845	3846	3847	3848
##	1.798848	1.667971	1.815568	2.014628	1.987469	1.784919	1.667315	1.727524
##	3849	3850	3851	3852	3853	3854	3855	3856
##	1.956003	1.740971	1.838289	1.949523	1.717186	1.652008	1.648007	2.061001
##	3857	3858	3859	3860	3861	3862	3863	3864
##	1.381893	1.441344	1.776928	1.902901	1.744602	1.575003	1.631588	1.852863
##	3865	3866	3867	3868	3869	3870	3871	3872
##	1.252670	1.457952	2.024471	1.637858	1.605562	1.399103	1.653417	2.019952
##	3873	3874	3875	3876	3877	3878	3879	3880
##	1.645100	1.689620	2.174155	1.621488	1.462967	1.453129	1.351944	1.802981
##	3881	3882	3883	3884	3885	3886	3887	3888
##	1.529123	1.399727	1.905383	1.885186	1.875395	1.866546	1.576517	1.978958
##	3889	3890	3891	3892	3893	3894	3895	3896
##	2.050644	1.967785	2.012785	1.941825	1.631090	1.965521	1.895706	1.658244
##	3897	3898	3899	3900	3901	3902	3903	3904
##	1.774726	1.912629	1.567796	1.401489	1.563748	1.852499	1.941047	1.576452
##	3905	3906	3907	3908	3909	3910	3911	3912
##	1.780608	1.966358	2.065356	1.956398	1.832672	1.475266	1.411575	1.429744
##	3913	3914	3915	3916	3917	3918	3919	3920
##	1.283986	1.920844	1.761415	1.609349	1.332530	1.645393	1.815078	1.667718
##	3921	3922	3923	3924	3925	3926	3927	3928
##	1.773641	1.403691	1.877796	1.892291	1.781084	1.311907	1.848812	1.830729
##	3929	3930	3931	3932	3933	3934	3935	3936
##	2.089317	1.725229	1.776972	1.691481	1.426958	1.632365	1.820693	1.615968
##	3937	3938	3939	3940	3941	3942	3943	3944
##	1.607971	1.889644	1.727368	1.652468	1.726993	1.769887	1.714598	1.490997
##	3945	3946	3947	3948	3949	3950	3951	3952
##	2.148037	1.930775	1.437218	1.282756	1.555058	1.276906	1.774593	1.455340
##	3953	3954	3955	3956	3957	3958	3959	3960
##	1.878357	1.621696	1.599122	1.273730	2.095416	1.989180	1.600590	2.014789
##	3961	3962	3963	3964	3965	3966	3967	3968
##	1.933235	2.103919	1.435059	1.993335	1.923452	1.853685	1.834298	1.781105
##	3969	3970	3971	3972	3973	3974	3975	3976
##	1.351657	1.573110	1.959431	1.338138	2.014660	1.442526	1.325109	2.065654

##	3977	3978	3979	3980	3981	3982	3983	3984
##	1.570297	2.090008	1.705352	2.029318	1.386149	1.952403	1.618865	1.354554
##	3985	3986	3987	3988	3989	3990	3991	3992
##	1.387260	2.051424	2.183007	1.594321	1.647693	1.951909	1.962631	1.926684
##	3993	3994	3995	3996	3997	3998	3999	4000
##	1.358476	1.450356	1.756223	2.145550	1.988064	2.154022	1.706296	2.075032
##	4001	4002	4003	4004	4005	4006	4007	4008
##	2.015617	1.793710	2.081625	1.802281	1.924532	1.661245	1.594194	1.708332
##	4009	4010	4011	4012	4013	4014	4015	4016
##	1.834281	1.636313	1.816408	1.767785	1.334632	1.976023	1.773391	1.836375
##	4017	4018	4019	4020	4021	4022	4023	4024
##	1.988652	1.644943	1.444449	2.014547	1.618746	2.036021	2.067512	1.679461
##	4025	4026	4027	4028	4029	4030	4031	4032
##	1.928011	1.745402	2.150173	1.719618	1.732465	1.823526	2.025385	2.040836
##	4033	4034	4035	4036	4037	4038	4039	4040
##	1.278413	1.930720	1.882168	1.626557	1.871041	2.019542	1.466583	1.708114
##	4041	4042	4043	4044	4045	4046	4047	4048
##	1.846766	1.992745	1.637594	1.594962	1.823377	1.563707	1.675454	1.553799
##	4049	4050	4051	4052	4053	4054	4055	4056
##	1.934514	1.468861	2.068143	1.656751	1.546283	1.927746	1.771770	1.447356
##	4057	4058	4059	4060	4061	4062	4063	4064
##	1.367148	1.699829	1.811065	2.008734	2.106199	1.858484	1.963159	1.597208
##	4065	4066	4067	4068	4069	4070	4071	4072
##	1.623922	1.346372	1.702182	1.584315	1.802157	1.932565	1.278909	1.868930
##	4073	4074	4075	4076	4077	4078	4079	4080
##	1.465839	1.926630	1.403726	1.922951	1.653506	1.408780	1.714227	2.155717
##	4081	4082	4083	4084	4085	4086	4087	4088
##	1.775044	1.438960	1.389095	1.717766	1.668061	1.753075	1.499211	1.517954
##	4089	4090	4091	4092	4093	4094	4095	4096
##	1.499699	1.547201	1.822075	1.757397	1.700243	2.035969	1.641230	1.699732
##	4097	4098	4099	4100	4101	4102	4103	4104
##	1.852988	1.665763	1.957340	1.336160	1.924238	1.935104	1.567647	2.165957
##	4105	4106	4107	4108	4109	4110	4111	4112
##	1.776396	1.763740	1.908362	2.049456	1.986007	1.947203	1.919729	1.694396
##	4113	4114	4115	4116	4117	4118	4119	4120
##	1.897052	1.628543	1.423127	2.093313	1.576790	1.291205	1.730152	1.848464
##	4121	4122	4123	4124	4125	4126	4127	4128
##	1.974875	1.732962	1.575826	1.708485	1.753075	1.603413	1.685692	1.644968
##	4129	4130	4131	4132	4133	4134	4135	4136
##	1.877908	1.999393	1.821428	1.345425	1.452352	1.770938	1.589011	2.129876
##	4137	4138	4139	4140	4141	4142	4143	4144
##	1.430171	1.483171	1.809213	1.528380	2.022358	1.902820	1.904366	1.282254
##	4145	4146	4147	4148	4149	4150	4151	4152
##	1.670504	2.097081	1.923123	1.374629	1.935005	1.760743	1.696907	1.969386
##	4153	4154	4155	4156	4157	4158	4159	4160
##	1.747726	1.840820	1.602545	2.100139	2.029320	1.991898	1.404247	1.900352
##	4161	4162	4163	4164	4165	4166	4167	4168
##	1.807512	1.917548	1.393740	2.057490	1.788738	1.808973	1.340747	1.794116
##	4169	4170	4171	4172	4173	4174	4175	4176
##	2.034267	1.944290	1.744109	2.043234	1.372892	1.568368	1.635605	1.482071

##	4177	4178	4179	4180	4181	4182	4183	4184
##	1.715633	1.334754	1.807862	1.845223	2.029391	1.438690	2.104264	1.466266
##	4185	4186	4187	4188	4189	4190	4191	4192
##	1.766944	1.931159	1.851541	1.997048	1.766660	2.066262	1.433713	2.017169
##	4193	4194	4195	4196	4197	4198	4199	4200
##	1.720469	2.011801	2.133613	1.900567	1.885590	1.334471	1.787352	2.012499
##	4201	4202	4203	4204	4205	4206	4207	4208
##	1.704278	1.903395	1.914269	1.800670	1.389077	1.331778	1.682243	1.324675
##	4209	4210	4211	4212	4213	4214	4215	4216
##	1.925838	2.153406	1.362840	1.738979	1.781637	2.020581	1.830032	1.836101
##	4217	4218	4219	4220	4221	4222	4223	4224
##	1.405788	2.081809	1.824524	1.345780	2.179561	1.438030	1.945655	1.524038
##	4225	4226	4227	4228	4229	4230	4231	4232
##	2.171645	1.393313	1.868588	1.896184	1.881277	1.821249	1.510978	2.026509
##	4233	4234	4235	4236	4237	4238	4239	4240
##	1.845189	1.366047	1.835868	1.807114	1.877208	2.053220	2.088200	1.907448
##	4241	4242	4243	4244	4245	4246	4247	4248
##	2.008265	1.817036	1.658094	1.965880	1.852790	1.606396	1.452780	1.590592
##	4249	4250	4251	4252	4253	4254	4255	4256
##	1.529167	2.013425	1.697967	1.642140	1.763341	1.899749	1.965441	1.611120
##	4257	4258	4259	4260	4261	4262	4263	4264
##	1.990494	1.525559	1.700972	1.928685	2.104050	1.705498	1.575083	2.086744
##	4265	4266	4267	4268	4269	4270	4271	4272
##	1.943324	1.957247	1.576193	2.001697	1.689706	1.615224	1.760841	1.689148
##	4273	4274	4275	4276	4277	4278	4279	4280
##	1.809119	2.062894	1.802401	1.707475	1.367274	1.476380	2.031177	1.404363
##	4281	4282	4283	4284	4285	4286	4287	4288
##	1.742967	1.364185	2.033815	1.631226	1.988319	1.460436	1.355214	1.512390
##	4289	4290	4291	4292	4293	4294	4295	4296
##	2.049006	1.873716	1.933509	1.673625	1.718781	1.883432	2.046090	1.777730
##	4297	4298	4299	4300	4301	4302	4303	4304
##	1.956256	1.996469	1.915092	1.678907	1.405375	1.583072	1.534464	2.031883
##	4305	4306	4307	4308	4309	4310	4311	4312
##	1.551578	1.898899	1.598904	1.349078	1.397627	2.118964	1.838397	1.922637
##	4313	4314	4315	4316	4317	4318	4319	4320
##	1.866628	2.047814	1.381224	1.404092	1.576162	1.836781	1.819251	1.296560
##	4321	4322	4323	4324	4325	4326	4327	4328
##	1.425879	1.584518	1.525466	1.544475	2.068821	2.075457	1.672714	1.551128
##	4329	4330	4331	4332	4333	4334	4335	4336
##	1.396621	1.919402	1.677333	1.588731	1.846312	1.721766	1.560723	1.941389
##	4337	4338	4339	4340	4341	4342	4343	4344
##	1.324594	1.910266	2.021008	1.867337	1.774176	1.761626	1.345184	1.736895
##	4345	4346	4347	4348	4349	4350	4351	4352
##	1.819461	1.841035	1.406307	2.024357	1.604824	1.819458	1.855367	1.614537
##	4353	4354	4355	4356	4357	4358	4359	4360
##	1.410601	1.536102	1.912501	1.989610	1.635442	2.061479	1.990164	1.503057
##	4361	4362	4363	4364	4365	4366	4367	4368
##	1.875503	1.335652	1.622441	1.791137	1.878308	1.803376	1.935983	2.081255
##	4369	4370	4371	4372	4373	4374	4375	4376
##	1.912396	1.700083	1.469497	1.991459	1.806031	1.548860	1.550237	2.075825

##	4377	4378	4379	4380	4381	4382	4383	4384
##	1.496725	1.853439	2.165905	1.780914	1.939646	1.492566	1.856358	1.652229
##	4385	4386	4387	4388	4389	4390	4391	4392
##	1.837329	1.392914	1.741052	1.773948	1.513837	2.029722	2.080361	1.891120
##	4393	4394	4395	4396	4397	4398	4399	4400
##	1.601678	1.652367	1.810459	1.784755	1.520619	1.434823	1.839528	1.850432
##	4401	4402	4403	4404	4405	4406	4407	4408
##	2.027192	2.068300	1.416953	1.867319	2.008103	1.423290	1.879452	2.036725
##	4409	4410	4411	4412	4413	4414	4415	4416
##	1.542874	1.417435	2.051976	1.853131	1.903647	1.561069	1.552070	1.730885
##	4417	4418	4419	4420	4421	4422	4423	4424
##	1.640790	1.693257	1.561296	1.815026	1.504721	2.197998	1.947802	1.490396
##	4425	4426	4427	4428	4429	4430	4431	4432
##	1.897000	1.353038	1.553798	1.465742	1.787724	1.776352	1.953194	1.949508
##	4433	4434	4435	4436	4437	4438	4439	4440
##	1.845783	2.009981	1.370886	1.640774	1.811998	1.941422	1.311240	1.859809
##	4441	4442	4443	4444	4445	4446	4447	4448
##	1.394095	1.809306	1.702131	1.490307	2.165260	1.308197	1.822530	1.590059
##	4449	4450	4451	4452	4453	4454	4455	4456
##	1.989820	1.659878	1.581283	1.250826	1.627517	1.528421	1.393611	1.405818
##	4457	4458	4459	4460	4461	4462	4463	4464
##	1.575714	1.623714	1.365091	1.828745	1.750787	1.900778	1.643029	1.609403
##	4465	4466	4467	4468	4469	4470	4471	4472
##	2.013542	1.375830	1.917320	1.821915	1.798564	1.820093	1.553378	2.016388
##	4473	4474	4475	4476	4477	4478	4479	4480
##	1.395688	1.725823	1.376050	2.046352	1.402100	2.115040	1.717173	1.844391
##	4481	4482	4483	4484	4485	4486	4487	4488
##	1.649395	1.923410	1.777401	1.776364	1.988844	1.919187	1.431955	1.400008
##	4489	4490	4491	4492	4493	4494	4495	4496
##	2.178757	1.717141	1.845791	1.493325	1.929248	2.003372	1.576001	1.467300
##	4497	4498	4499	4500	4501	4502	4503	4504
##	1.966513	1.981388	2.031691	1.744280	1.883092	1.418094	1.820776	1.772627
##	4505	4506	4507	4508	4509	4510	4511	4512
##	1.987933	2.100342	1.495607	1.469258	2.149794	1.252762	1.328303	1.778363
##	4513	4514	4515	4516	4517	4518	4519	4520
##	1.855184	1.801218	1.938654	1.503659	1.514733	1.645436	1.541870	1.768621
##	4521	4522	4523	4524	4525	4526	4527	4528
##	1.662239	1.688231	2.070516	1.436041	1.438492	1.851207	1.721417	1.454073
##	4529	4530	4531	4532	4533	4534	4535	4536
##	1.409535	1.528020	1.455585	1.975532	1.825574	1.525034	1.522739	2.008718
##	4537	4538	4539	4540	4541	4542	4543	4544
##	1.342106	1.668667	1.451965	1.754265	1.485657	1.534291	2.037818	1.746362
##	4545	4546	4547	4548	4549	4550	4551	4552
##	1.787208	2.006209	1.592382	1.964656	1.425641	1.853933	1.388690	1.845623
##	4553	4554	4555	4556	4557	4558	4559	4560
##	1.403924	1.654270	2.066966	1.428923	1.809206	2.029450	1.859736	1.534951
##	4561	4562	4563	4564	4565	4566	4567	4568
##	1.675550	1.754658	1.782533	1.524160	1.664865	2.112855	1.751537	1.756696
##	4569	4570	4571	4572	4573	4574	4575	4576
##	1.881413	1.701109	1.623521	1.537954	2.098893	2.046110	2.107454	2.128002

##	4577	4578	4579	4580	4581	4582	4583	4584
##	2.068154	1.232547	2.016879	1.599149	1.553980	1.937359	1.869424	1.779348
##	4585	4586	4587	4588	4589	4590	4591	4592
##	1.876023	1.854931	1.540852	2.068140	1.455067	1.370354	1.703958	1.892809
##	4593	4594	4595	4596	4597	4598	4599	4600
##	1.933619	1.630463	1.973116	1.721259	1.724051	2.023321	1.884386	1.617232
##	4601	4602	4603	4604	4605	4606	4607	4608
##	1.821452	1.765914	1.961913	2.010884	1.985102	1.624359	1.846011	2.181246
##	4609	4610	4611	4612	4613	4614	4615	4616
##	1.699746	1.775830	1.268396	1.429321	2.043917	1.676828	1.673690	1.711176
##	4617	4618	4619	4620	4621	4622	4623	4624
##	1.342081	1.417091	1.642480	1.859996	1.827692	1.793728	1.766254	1.299842
##	4625	4626	4627	4628	4629	4630	4631	4632
##	1.831520	2.039847	1.841440	2.039924	2.013250	2.044256	1.343388	1.352057
##	4633	4634	4635	4636	4637	4638	4639	4640
##	1.426877	1.607743	2.073138	1.540580	1.693083	1.477252	1.387737	1.673914
##	4641	4642	4643	4644	4645	4646	4647	4648
##	1.407965	1.979221	1.863210	1.524368	1.876574	1.699660	1.941989	1.729623
##	4649	4650	4651	4652	4653	4654	4655	4656
##	1.487877	1.694350	1.671566	1.856233	1.811274	2.122832	1.904173	1.309518
##	4657	4658	4659	4660	4661	4662	4663	4664
##	1.405395	2.033604	1.843314	1.882850	1.620388	2.028208	1.878900	1.401719
##	4665	4666	4667	4668	4669	4670	4671	4672
##	1.726180	1.430179	1.815932	1.611836	1.839287	1.424607	1.278559	2.067646
##	4673	4674	4675	4676	4677	4678	4679	4680
##	1.658549	1.295410	1.475321	1.390892	1.918948	1.726214	1.964151	1.432480
##	4681	4682	4683	4684	4685	4686	4687	4688
##	1.725157	1.817429	1.749772	1.571583	1.526652	2.023475	1.814321	1.934678
##	4689	4690	4691	4692	4693	4694	4695	4696
##	1.805827	1.759136	1.868056	1.888821	1.587044	1.354110	1.702252	1.482228
##	4697	4698	4699	4700	4701	4702	4703	4704
##	1.655301	1.515263	1.592683	1.737082	2.042295	1.649503	1.803389	1.935907
##	4705	4706	4707	4708	4709	4710	4711	4712
##	1.743646	1.771829	2.062796	2.058176	2.081903	1.666247	1.848394	1.500883
##	4713	4714	4715	4716	4717	4718	4719	4720
##	1.801744	1.807347	1.982085	1.428143	1.979397	1.628278	1.972119	2.022410
##	4721	4722	4723	4724	4725	4726	4727	4728
##	1.984715	1.891821	1.496488	1.922584	2.118079	1.547374	1.947541	1.820837
##	4729	4730	4731	4732	4733	4734	4735	4736
##	2.096956	1.998697	1.332218	1.479178	1.668523	1.340395	2.035266	1.974482
##	4737	4738	4739	4740	4741	4742	4743	4744
##	1.984023	1.452980	1.340026	1.965956	1.923735	1.677190	1.761680	1.807201
##	4745	4746	4747	4748	4749	4750	4751	4752
##	1.909390	1.425408	2.055524	1.531610	1.869495	1.656574	2.062170	1.355717
##	4753	4754	4755	4756	4757	4758	4759	4760
##	2.105616	2.088547	1.588589	1.754291	1.603679	1.772387	1.991977	1.890897
##	4761	4762	4763	4764	4765	4766	4767	4768
##	2.072180	1.973194	1.884697	1.360332	2.137997	1.708409	1.705351	1.479971
##	4769	4770	4771	4772	4773	4774	4775	4776
##	1.428184	1.674395	1.987353	1.391066	1.490678	2.054703	1.423174	1.995693

##	4777	4778	4779	4780	4781	4782	4783	4784
##	1.758280	1.458344	1.858290	1.726628	1.951358	1.435084	1.414603	1.835813
##	4785	4786	4787	4788	4789	4790	4791	4792
##	1.694582	1.734800	1.817114	2.002850	1.741928	2.028363	1.499859	1.826285
##	4793	4794	4795	4796	4797	4798	4799	4800
##	1.187511	2.195710	1.860085	1.631525	1.851312	2.013822	1.977367	1.721818
##	4801	4802	4803	4804	4805	4806	4807	4808
##	2.034891	1.774421	1.395578	1.593833	1.689052	1.632406	1.473606	1.652673
##	4809	4810	4811	4812	4813	4814	4815	4816
##	1.985934	1.805999	1.871889	2.084627	1.971307	1.816652	2.025777	1.717875
##	4817	4818	4819	4820	4821	4822	4823	4824
##	1.751417	1.475921	1.245061	1.449322	1.841752	1.655296	1.963230	1.785870
##	4825	4826	4827	4828	4829	4830	4831	4832
##	1.912845	1.907421	2.076648	1.747838	1.772348	1.424414	1.841610	1.381189
##	4833	4834	4835	4836	4837	4838	4839	4840
##	1.749187	1.495013	1.634624	2.123163	1.991568	1.871818	1.508751	1.485237
##	4841	4842	4843	4844	4845	4846	4847	4848
##	1.253691	1.659320	1.767098	1.357946	2.041242	1.819750	1.712202	1.959231
##	4849	4850	4851	4852	4853	4854	4855	4856
##	1.515996	1.676422	2.111674	1.871266	1.887794	1.791554	1.398835	2.062368
##	4857	4858	4859	4860	4861	4862	4863	4864
##	1.865775	1.643821	1.548801	1.510091	1.483111	1.437416	1.937761	1.945309
##	4865	4866	4867	4868	4869	4870	4871	4872
##	2.065409	1.827030	1.719533	1.694033	1.437656	1.940575	1.641822	1.786622
##	4873	4874	4875	4876	4877	4878	4879	4880
##	2.025363	1.661171	2.018808	1.545561	1.590698	1.874926	1.866777	1.925535
##	4881	4882	4883	4884	4885	4886	4887	4888
##	1.702684	1.802092	1.755137	1.547454	1.360819	1.648711	1.802509	1.733878
##	4889	4890	4891	4892	4893	4894	4895	4896
##	1.696058	1.701484	1.614330	1.479367	1.451348	1.421591	1.861390	1.322562
##	4897	4898	4899	4900	4901	4902	4903	4904
##	1.517919	2.018360	1.948011	2.040750	1.394025	2.021406	1.896071	2.008741
##	4905	4906	4907	4908	4909	4910	4911	4912
##	1.505027	1.915141	2.158301	1.678231	1.418792	1.846198	2.075026	2.030354
##	4913	4914	4915	4916	4917	4918	4919	4920
##	2.123994	1.565758	1.969660	1.882357	1.498401	1.845497	2.063350	1.980779
##	4921	4922	4923	4924	4925	4926	4927	4928
##	1.623378	2.008244	1.607561	1.398191	1.699316	1.574127	1.896916	1.891657
##	4929	4930	4931	4932	4933	4934	4935	4936
##	1.680260	1.887385	1.535497	1.817385	1.401239	1.765711	1.570264	2.132953
##	4937	4938	4939	4940	4941	4942	4943	4944
##	1.752847	1.968108	1.358962	1.414380	1.607956	1.473159	1.308140	1.405043
##	4945	4946	4947	4948	4949	4950	4951	4952
##	1.418297	1.969932	1.307437	1.451675	1.297810	1.795821	1.739506	1.791615
##	4953	4954	4955	4956	4957	4958	4959	4960
##	1.501516	1.685080	1.708359	1.909264	1.490159	1.487691	1.695006	1.553985
##	4961	4962	4963	4964	4965	4966	4967	4968
##	1.840773	1.831430	1.636757	1.805935	2.057826	1.455602	1.624333	1.856504
##	4969	4970	4971	4972	4973	4974	4975	4976
##	1.873944	1.895328	1.603096	1.969845	1.817812	1.505204	1.679771	1.624098

##	4977	4978	4979	4980	4981	4982	4983	4984
##	1.939610	2.100107	1.471702	2.066672	1.917003	1.701853	1.678170	1.803885
##	4985	4986	4987	4988	4989	4990	4991	4992
##	1.750553	2.058758	1.446004	1.390785	1.996527	1.556659	1.773625	1.954972
##	4993	4994	4995	4996	4997	4998	4999	5000
##	1.689392	1.750002	1.950161	1.428177	1.754883	1.723971	1.645145	1.871970
##	5001	5002	5003	5004	5005	5006	5007	5008
##	1.922457	1.978690	1.988970	1.589793	1.833498	1.549657	1.766803	1.741666
##	5009	5010	5011	5012	5013	5014	5015	5016
##	1.833268	1.852417	2.120348	1.258402	1.949633	1.631079	2.108826	1.398521
##	5017	5018	5019	5020	5021	5022	5023	5024
##	2.041245	1.452701	1.898380	1.336157	2.013538	1.688145	1.398088	1.430113
##	5025	5026	5027	5028	5029	5030	5031	5032
##	1.376581	1.759395	1.810069	1.519929	1.328358	1.344211	1.826603	1.303199
##	5033	5034	5035	5036	5037	5038	5039	5040
##	1.535108	1.897854	1.922650	1.399331	1.562167	1.654083	1.637800	1.567970
##	5041	5042	5043	5044	5045	5046	5047	5048
##	1.709143	1.776879	1.838128	1.716354	1.692060	1.476740	2.009960	1.946152
##	5049	5050	5051	5052	5053	5054	5055	5056
##	2.124431	1.385744	1.777421	1.491984	1.677726	1.952076	1.720829	1.471410
##	5057	5058	5059	5060	5061	5062	5063	5064
##	1.652052	1.812328	1.821387	1.871335	2.049158	1.407457	1.627820	1.463330
##	5065	5066	5067	5068	5069	5070	5071	5072
##	1.350496	1.615384	2.018838	1.598762	1.575211	1.930604	1.928172	1.499895
##	5073	5074	5075	5076	5077	5078	5079	5080
##	1.843657	2.050767	1.926294	1.880159	1.945635	1.696730	1.927419	1.803729
##	5081	5082	5083	5084	5085	5086	5087	5088
##	2.097047	1.603722	1.358036	1.605035	1.840894	1.874764	1.918651	1.920507
##	5089	5090	5091	5092	5093	5094	5095	5096
##	2.193356	1.685611	1.291718	1.871215	1.453655	1.532642	1.952811	1.654659
##	5097	5098	5099	5100	5101	5102	5103	5104
##	1.935013	1.635326	1.787329	1.797674	1.751892	2.195172	1.392924	1.671573
##	5105	5106	5107	5108	5109	5110	5111	5112
##	1.822445	2.069714	1.666562	2.084871	1.452050	1.974585	1.658261	1.467079
##	5113	5114	5115	5116	5117	5118	5119	5120
##	1.746028	1.745321	1.791026	1.453798	1.976625	1.299759	1.829609	1.905522
##	5121	5122	5123	5124	5125	5126	5127	5128
##	1.549582	1.391185	1.637483	1.509497	1.951124	1.366567	1.394391	1.814925
##	5129	5130	5131	5132	5133	5134	5135	5136
##	1.310852	1.717093	1.832971	2.003869	1.295444	1.774628	1.933823	1.956470
##	5137	5138	5139	5140	5141	5142	5143	5144
##	1.528000	1.971071	1.410857	1.712995	1.885458	2.021559	1.829100	1.820716
##	5145	5146	5147	5148	5149	5150	5151	5152
##	1.974916	1.521594	1.425140	1.584630	1.823258	1.932725	2.070248	1.380689
##	5153	5154	5155	5156	5157	5158	5159	5160
##	1.474515	1.857043	1.879593	1.712260	1.629232	1.357164	1.814540	2.060847
##	5161	5162	5163	5164	5165	5166	5167	5168
##	1.386871	1.780992	1.807858	1.696212	2.042150	1.685834	1.367097	1.894889
##	5169	5170	5171	5172	5173	5174	5175	5176
##	1.771845	1.452656	1.747345	1.555519	2.071701	2.114256	1.840004	1.518890

##	5177	5178	5179	5180	5181	5182	5183	5184
##	1.919338	1.981288	1.443056	1.479752	1.417168	1.614838	1.372794	1.808430
##	5185	5186	5187	5188	5189	5190	5191	5192
##	2.078560	2.051134	1.533913	2.168649	1.763467	1.915480	1.662283	1.710218
##	5193	5194	5195	5196	5197	5198	5199	5200
##	1.796729	1.831128	1.881247	1.613588	1.624240	1.706558	2.057323	1.543461
##	5201	5202	5203	5204	5205	5206	5207	5208
##	1.876091	1.970564	1.815489	1.329042	2.079536	1.298282	1.473335	1.844645
##	5209	5210	5211	5212	5213	5214	5215	5216
##	1.830111	1.726815	1.804745	1.960485	1.712992	1.664322	2.032468	1.537770
##	5217	5218	5219	5220	5221	5222	5223	5224
##	1.830403	1.813520	1.309822	1.626151	1.558184	1.904635	1.294718	1.831860
##	5225	5226	5227	5228	5229	5230	5231	5232
##	1.399544	1.665625	1.440555	1.723722	1.741439	1.875738	1.972361	1.850145
##	5233	5234	5235	5236	5237	5238	5239	5240
##	1.940214	1.421220	1.547691	1.587135	2.064928	1.351884	1.401597	1.877327
##	5241	5242	5243	5244	5245	5246	5247	5248
##	2.091751	1.358206	1.369490	1.785847	1.734546	2.046948	1.495030	1.800333
##	5249	5250	5251	5252	5253	5254	5255	5256
##	1.425726	1.847461	1.480512	1.536227	1.737379	2.011333	1.748344	1.792777
##	5257	5258	5259	5260	5261	5262	5263	5264
##	1.784605	1.952734	1.838741	2.130234	1.602053	1.860721	1.616889	1.332887
##	5265	5266	5267	5268	5269	5270	5271	5272
##	2.117567	1.793358	1.650602	2.050487	1.375115	1.752957	2.078913	1.734151
##	5273	5274	5275	5276	5277	5278	5279	5280
##	2.180049	1.236654	1.804265	1.455508	2.055577	1.500388	1.820738	1.346562
##	5281	5282	5283	5284	5285	5286	5287	5288
##	1.850440	2.077954	1.859247	1.888965	1.691574	1.916675	1.685112	1.926436
##	5289	5290	5291	5292	5293	5294	5295	5296
##	2.027897	1.616078	1.413711	1.357952	1.502011	1.674569	1.830300	1.475891
##	5297	5298	5299	5300	5301	5302	5303	5304
##	1.934404	1.420978	1.311299	2.068690	2.068662	1.941518	1.845643	1.689066
##	5305	5306	5307	5308	5309	5310	5311	5312
##	1.676968	2.077857	1.595893	1.696387	1.689781	2.000302	1.900098	2.061892
##	5313	5314	5315	5316	5317	5318	5319	5320
##	1.936762	1.755906	1.733479	1.807968	1.888676	1.826230	1.993868	1.972564
##	5321	5322	5323	5324	5325	5326	5327	5328
##	1.607981	1.444422	1.954732	1.987638	1.449552	1.792785	1.879549	1.815898
##	5329	5330	5331	5332	5333	5334	5335	5336
##	1.779577	1.885404	1.531592	1.837734	1.287239	1.661892	1.966296	2.179223
##	5337	5338	5339	5340	5341	5342	5343	5344
##	1.581344	2.010267	1.998565	1.720197	1.996615	2.005870	1.443551	1.528404
##	5345	5346	5347	5348	5349	5350	5351	5352
##	1.679881	1.314639	1.697822	1.806794	2.056491	1.859455	1.597376	1.455803
##	5353	5354	5355	5356	5357	5358	5359	5360
##	1.826992	2.069636	2.057911	1.400951	2.108089	2.016306	2.065298	1.360290
##	5361	5362	5363	5364	5365	5366	5367	5368
##	1.891805	1.420054	1.727013	1.583975	1.940302	1.395591	1.645951	1.850891
##	5369	5370	5371	5372	5373	5374	5375	5376
##	1.604163	2.059112	1.696512	1.351058	1.530993	1.917460	1.501123	1.546903

##	5377	5378	5379	5380	5381	5382	5383	5384
##	1.667556	1.637527	1.676403	1.832124	1.717130	1.264423	1.561047	2.048112
##	5385	5386	5387	5388	5389	5390	5391	5392
##	1.396291	1.642343	1.367023	1.925836	1.398733	1.813754	2.005699	1.588016
##	5393	5394	5395	5396	5397	5398	5399	5400
##	1.973740	1.932646	1.832776	1.779397	1.608331	1.883185	2.199120	2.004228
##	5401	5402	5403	5404	5405	5406	5407	5408
##	1.414350	1.882536	1.510403	1.789757	1.402543	1.807724	1.607722	1.745137
##	5409	5410	5411	5412	5413	5414	5415	5416
##	1.826116	1.414679	1.911229	2.047244	1.989856	2.252540	1.408512	1.831296
##	5417	5418	5419	5420	5421	5422	5423	5424
##	1.481854	1.861321	1.591054	1.391575	2.147053	1.470180	1.902354	1.587836
##	5425	5426	5427	5428	5429	5430	5431	5432
##	1.763810	1.601647	1.816993	1.784046	1.498350	1.474838	1.382692	1.719467
##	5433	5434	5435	5436	5437	5438	5439	5440
##	2.149837	1.997274	1.750761	1.568153	1.793226	1.811808	1.649477	1.694734
##	5441	5442	5443	5444	5445	5446	5447	5448
##	2.018629	1.283050	1.903394	1.878717	2.085470	1.352243	1.837181	1.608071
##	5449	5450	5451	5452	5453	5454	5455	5456
##	1.775557	1.665083	1.375265	1.997768	2.023209	1.922952	1.639033	1.903904
##	5457	5458	5459	5460	5461	5462	5463	5464
##	1.766440	1.874784	1.814812	1.382473	1.626378	1.908056	1.493382	1.750266
##	5465	5466	5467	5468	5469	5470	5471	5472
##	1.708277	1.287282	1.837196	1.315768	2.090461	1.898516	1.501715	1.585619
##	5473	5474	5475	5476	5477	5478	5479	5480
##	1.304948	1.785530	1.678320	1.862222	1.641186	2.005860	1.912386	1.686425
##	5481	5482	5483	5484	5485	5486	5487	5488
##	1.665585	1.706480	1.769850	2.020789	1.264646	1.490824	1.529658	1.987868
##	5489	5490	5491	5492	5493	5494	5495	5496
##	1.745099	1.587436	1.380215	2.135078	1.667467	1.436996	1.991873	1.621108
##	5497	5498	5499	5500	5501	5502	5503	5504
##	1.773475	1.807719	1.896114	2.070638	1.671176	1.477951	2.035571	1.604001
##	5505	5506	5507	5508	5509	5510	5511	5512
##	1.966173	1.677769	1.961345	1.598589	1.933027	1.578464	1.694977	1.780173
##	5513	5514	5515	5516	5517	5518	5519	5520
##	1.893827	1.391826	1.451815	2.089548	1.942634	1.917596	1.804792	1.990334
##	5521	5522	5523	5524	5525	5526	5527	5528
##	1.811684	1.749417	1.954256	1.984673	1.322240	1.590734	1.986413	1.544923
##	5529	5530	5531	5532	5533	5534	5535	5536
##	1.938864	1.334531	1.931167	1.823341	1.788221	2.052980	1.554081	1.822202
##	5537	5538	5539	5540	5541	5542	5543	5544
##	1.480519	1.728126	1.301180	2.066155	1.390246	1.876284	1.826773	1.955187
##	5545	5546	5547	5548	5549	5550	5551	5552
##	1.529297	2.006198	2.124001	1.496010	1.415247	2.019973	1.605790	1.880875
##	5553	5554	5555	5556	5557	5558	5559	5560
##	1.812184	1.693455	1.812504	1.874929	1.575314	1.997438	1.832332	1.757044
##	5561	5562	5563	5564	5565	5566	5567	5568
##	1.360824	1.565927	1.842836	2.077442	1.351727	1.915910	2.152629	1.542582
##	5569	5570	5571	5572	5573	5574	5575	5576
##	2.001542	2.023880	2.107628	2.005597	1.998150	1.993064	1.510041	1.432895

##	5577	5578	5579	5580	5581	5582	5583	5584
##	1.764089	1.922930	1.650389	1.599958	2.005284	1.851370	1.321037	1.929488
##	5585	5586	5587	5588	5589	5590	5591	5592
##	1.892552	1.444132	1.813551	2.037362	1.434986	2.033409	1.473038	1.476729
##	5593	5594	5595	5596	5597	5598	5599	5600
##	1.786797	1.705714	1.668843	1.484423	1.652728	1.849365	1.634420	1.896959
##	5601	5602	5603	5604	5605	5606	5607	5608
##	1.536560	1.348251	1.630689	1.971718	2.172816	1.897660	1.780829	1.912180
##	5609	5610	5611	5612	5613	5614	5615	5616
##	1.806521	1.833467	1.408471	1.855059	1.360423	1.449192	1.818808	1.660037
##	5617	5618	5619	5620	5621	5622	5623	5624
##	1.841030	1.721859	1.325626	1.424431	1.758694	1.526427	1.611629	2.061294
##	5625	5626	5627	5628	5629	5630	5631	5632
##	1.779958	1.785663	1.705955	1.542434	1.805525	1.817388	1.817349	1.399956
##	5633	5634	5635	5636	5637	5638	5639	5640
##	1.948354	1.903485	1.453506	1.449199	1.908143	1.838671	1.748905	1.642885
##	5641	5642	5643	5644	5645	5646	5647	5648
##	1.890465	1.976761	1.655111	1.625422	1.384446	1.955992	2.002842	1.706754
##	5649	5650	5651	5652	5653	5654	5655	5656
##	1.341576	1.393540	2.053619	1.728267	1.775076	1.398893	1.473641	1.363700
##	5657	5658	5659	5660	5661	5662	5663	5664
##	1.678174	1.776127	1.818958	1.483597	1.603849	1.821282	2.030485	1.928104
##	5665	5666	5667	5668	5669	5670	5671	5672
##	1.864327	2.010132	1.410356	1.841050	1.737006	1.748615	1.316383	1.696759
##	5673	5674	5675	5676	5677	5678	5679	5680
##	1.823824	1.551336	1.610430	1.820726	2.050294	1.396548	1.850373	1.978226
##	5681	5682	5683	5684	5685	5686	5687	5688
##	1.448622	1.992104	1.859887	1.774657	1.874941	1.816457	1.953778	1.806405
##	5689	5690	5691	5692	5693	5694	5695	5696
##	1.857422	1.470474	1.483042	1.521780	1.753984	1.784960	2.016885	1.375538
##	5697	5698	5699	5700	5701	5702	5703	5704
##	1.811808	1.414155	1.646325	1.397395	1.882534	1.896728	1.409830	1.836350
##	5705	5706	5707	5708	5709	5710	5711	5712
##	1.985881	1.302161	1.604259	1.568411	1.918820	1.380198	1.928035	1.530875
##	5713	5714	5715	5716	5717	5718	5719	5720
##	1.955191	1.491654	1.802012	1.386854	1.872883	2.006426	1.919639	1.548930
##	5721	5722	5723	5724	5725	5726	5727	5728
##	1.873164	2.023499	1.780069	1.444089	2.122590	2.108026	2.039243	1.808834
##	5729	5730	5731	5732	5733	5734	5735	5736
##	1.756006	1.804745	1.886887	2.092133	1.374240	1.937557	1.938302	1.758364
##	5737	5738	5739	5740	5741	5742	5743	5744
##	1.983176	1.413345	1.790713	1.385351	1.624554	1.411747	2.034003	2.028692
##	5745	5746	5747	5748	5749	5750	5751	5752
##	1.777641	1.915671	1.374858	2.048086	1.770536	1.908526	1.391826	1.443751
##	5753	5754	5755	5756	5757	5758	5759	5760
##	2.023043	1.587878	1.410504	1.872126	1.791291	1.805663	1.989687	1.614935
##	5761	5762	5763	5764	5765	5766	5767	5768
##	1.943196	1.912658	1.833479	2.050671	1.876826	1.648488	1.821856	2.122661
##	5769	5770	5771	5772	5773	5774	5775	5776
##	2.178501	1.818646	1.747183	2.029771	1.571380	1.353214	1.240982	1.604169

##	5777	5778	5779	5780	5781	5782	5783	5784
##	1.987064	2.062955	1.634790	1.566846	1.971756	1.648631	1.703621	1.481992
##	5785	5786	5787	5788	5789	5790	5791	5792
##	1.622079	1.884473	1.560090	1.856528	1.600580	1.309704	1.543393	1.503853
##	5793	5794	5795	5796	5797	5798	5799	5800
##	1.466133	1.792156	1.376335	2.079440	1.699616	1.792126	2.068923	1.918070
##	5801	5802	5803	5804	5805	5806	5807	5808
##	1.377026	1.399464	1.944240	1.419442	1.907930	1.811236	1.284165	1.657098
##	5809	5810	5811	5812	5813	5814	5815	5816
##	1.628705	1.841891	2.010792	1.912781	1.938497	1.575475	1.813092	2.000038
##	5817	5818	5819	5820	5821	5822	5823	5824
##	1.350617	1.362699	1.532487	2.087172	1.823004	1.921831	1.346237	1.527918
##	5825	5826	5827	5828	5829	5830	5831	5832
##	1.607600	1.743179	1.997051	1.872141	1.508485	1.932824	1.323983	1.984832
##	5833	5834	5835	5836	5837	5838	5839	5840
##	1.723087	1.557832	1.543090	1.409922	1.347335	1.395996	1.687661	2.096794
##	5841	5842	5843	5844	5845	5846	5847	5848
##	2.033423	1.503138	1.648826	1.465870	1.851142	1.596106	1.888978	1.630109
##	5849	5850	5851	5852	5853	5854	5855	5856
##	1.472528	2.044377	2.145828	1.472673	1.991471	1.546518	1.347048	2.038986
##	5857	5858	5859	5860	5861	5862	5863	5864
##	1.803224	1.767363	1.928031	1.596029	1.715867	1.750506	1.713926	1.427243
##	5865	5866	5867	5868	5869	5870	5871	5872
##	1.548084	1.291401	2.089141	1.303743	1.702647	1.848015	1.951928	1.592239
##	5873	5874	5875	5876	5877	5878	5879	5880
##	1.847299	1.899333	1.786039	1.754313	1.882863	2.040110	1.736500	1.567232
##	5881	5882	5883	5884	5885	5886	5887	5888
##	1.664668	2.042218	1.582609	1.674074	1.869003	1.564335	1.741783	2.004289
##	5889	5890	5891	5892	5893	5894	5895	5896
##	2.081470	1.926359	1.650729	1.862308	1.660925	1.684435	1.859764	1.810874
##	5897	5898	5899	5900	5901	5902	5903	5904
##	1.365269	1.392146	1.597748	1.807719	1.697111	1.610868	1.705872	1.606793
##	5905	5906	5907	5908	5909	5910	5911	5912
##	1.705055	1.892360	2.029896	2.006969	1.766322	2.076360	2.081904	1.443221
##	5913	5914	5915	5916	5917	5918	5919	5920
##	1.806368	1.968742	1.437578	2.092059	1.712101	1.697555	1.983479	2.097993
##	5921	5922	5923	5924	5925	5926	5927	5928
##	1.766147	1.989197	1.355453	1.324665	1.216660	1.423565	1.570620	1.963229
##	5929	5930	5931	5932	5933	5934	5935	5936
##	1.277793	1.526772	1.731941	1.870472	1.774124	1.492118	1.353837	1.789736
##	5937	5938	5939	5940	5941	5942	5943	5944
##	1.777769	2.009183	1.897468	2.092608	1.897333	1.590840	1.576228	1.723899
##	5945	5946	5947	5948	5949	5950	5951	5952
##	1.641558	1.738245	2.224413	1.479620	1.454021	1.602509	2.015952	1.686087
##	5953	5954	5955	5956	5957	5958	5959	5960
##	1.656896	1.625577	1.670656	2.019938	1.852500	1.646189	1.537749	1.629569
##	5961	5962	5963	5964	5965	5966	5967	5968
##	1.733113	1.369324	2.111699	1.660076	1.806092	1.821679	1.482987	1.791562
##	5969	5970	5971	5972	5973	5974	5975	5976
##	2.064501	1.732361	2.057636	1.806458	1.960821	1.891700	1.551456	1.360563

##	5977	5978	5979	5980	5981	5982	5983	5984
##	1.985148	1.366184	1.910387	1.963493	1.194267	1.570277	1.446746	2.046919
##	5985	5986	5987	5988	5989	5990	5991	5992
##	1.479658	1.575005	2.111432	2.085507	1.337131	1.973791	1.697939	2.026690
##	5993	5994	5995	5996	5997	5998	5999	6000
##	1.553703	1.330458	2.122713	2.006968	1.856876	1.725882	1.818302	1.862441
##	6001	6002	6003	6004	6005	6006	6007	6008
##	1.576218	1.932096	1.934855	1.417212	1.613558	1.694092	1.469909	1.892128
##	6009	6010	6011	6012	6013	6014	6015	6016
##	1.721325	1.980494	1.715955	1.814019	1.806008	1.827623	1.992232	1.307807
##	6017	6018	6019	6020	6021	6022	6023	6024
##	1.844872	1.856104	1.974984	1.631453	1.486702	1.648843	1.621054	1.684459
##	6025	6026	6027	6028	6029	6030	6031	6032
##	1.418822	1.861878	1.784950	1.890385	1.740219	1.998473	1.604769	1.437687
##	6033	6034	6035	6036	6037	6038	6039	6040
##	1.816978	1.896204	1.511860	1.413817	1.989360	1.402565	1.592282	1.361932
##	6041	6042	6043	6044	6045	6046	6047	6048
##	2.056996	1.874731	1.847604	2.004390	1.936353	1.560768	1.561526	2.026835
##	6049	6050	6051	6052	6053	6054	6055	6056
##	1.678953	1.648989	1.891333	1.340995	1.661452	1.676671	2.055912	1.439845
##	6057	6058	6059	6060	6061	6062	6063	6064
##	2.009311	1.351356	1.728758	1.664667	2.040176	1.956205	1.912679	1.868515
##	6065	6066	6067	6068	6069	6070	6071	6072
##	1.998291	1.574531	1.745732	2.099672	1.946820	1.935510	1.719207	1.663681
##	6073	6074	6075	6076	6077	6078	6079	6080
##	1.663871	1.690102	1.969309	1.476048	1.532675	1.934346	1.702070	1.535388
##	6081	6082	6083	6084	6085	6086	6087	6088
##	1.246600	1.969413	1.220114	2.048169	1.915598	2.064028	1.768998	1.349125
##	6089	6090	6091	6092	6093	6094	6095	6096
##	2.186856	1.663833	2.088876	1.396644	1.927507	2.013352	1.866091	1.813216
##	6097	6098	6099	6100	6101	6102	6103	6104
##	1.782025	1.655524	1.809578	1.658016	1.608329	1.634582	1.601527	1.725681
##	6105	6106	6107	6108	6109	6110	6111	6112
##	1.496309	1.640661	2.058464	1.886281	2.061102	1.980663	1.761971	1.640406
##	6113	6114	6115	6116	6117	6118	6119	6120
##	1.959121	1.891746	1.917377	2.033680	1.309598	1.362944	1.815329	1.431002
##	6121	6122	6123	6124	6125	6126	6127	6128
##	1.748042	2.112424	1.613382	1.819212	1.576236	1.630966	2.029004	2.055090
##	6129	6130	6131	6132	6133	6134	6135	6136
##	1.790174	1.836267	1.859968	1.810952	1.611821	1.713450	1.950983	1.504682
##	6137	6138	6139	6140	6141	6142	6143	6144
##	2.104467	1.470829	1.658281	2.076331	1.639741	1.528352	1.488205	1.451968
##	6145	6146	6147	6148	6149	6150	6151	6152
##	2.046645	1.947223	1.824558	1.500978	1.815990	1.771572	1.894235	1.779890
##	6153	6154	6155	6156	6157	6158	6159	6160
##	1.540109	1.757099	1.416148	1.938031	1.366318	1.527567	1.764535	1.352237
##	6161	6162	6163	6164	6165	6166	6167	6168
##	1.612769	1.825338	1.646653	1.447867	1.558789	1.581767	1.682365	1.620345
##	6169	6170	6171	6172	6173	6174	6175	6176
##	1.610172	1.937745	1.254137	1.752519	1.719373	2.185673	1.769642	1.735998

##	6177	6178	6179	6180	6181	6182	6183	6184
##	1.685805	1.731899	1.935091	1.854871	2.116898	1.393265	1.728198	1.463131
##	6185	6186	6187	6188	6189	6190	6191	6192
##	1.412488	1.910742	1.398606	1.893981	1.758005	1.940777	1.500777	2.091905
##	6193	6194	6195	6196	6197	6198	6199	6200
##	1.490493	1.814785	1.972701	1.615234	1.592581	1.706446	1.677675	2.057463
##	6201	6202	6203	6204	6205	6206	6207	6208
##	1.687285	1.849836	1.442708	1.598712	1.961095	2.009241	1.240073	2.138748
##	6209	6210	6211	6212	6213	6214	6215	6216
##	1.895635	1.943010	1.497615	1.854637	1.893417	1.782093	1.463100	1.858147
##	6217	6218	6219	6220	6221	6222	6223	6224
##	2.033224	2.021228	1.661944	2.150055	2.030219	1.827058	1.349285	1.255481
##	6225	6226	6227	6228	6229	6230	6231	6232
##	1.809261	1.968815	1.653796	1.425930	1.455396	1.654574	1.828331	1.266745
##	6233	6234	6235	6236	6237	6238	6239	6240
##	1.621049	2.073919	2.048845	1.556030	1.872494	1.982752	1.747173	1.943278
##	6241	6242	6243	6244	6245	6246	6247	6248
##	1.409847	1.901525	1.840817	1.781029	1.677601	1.884802	1.826156	1.544868
##	6249	6250	6251	6252	6253	6254	6255	6256
##	1.384090	1.758656	2.049064	1.787789	2.105452	1.750436	1.716431	1.794588
##	6257	6258	6259	6260	6261	6262	6263	6264
##	1.589911	1.524674	1.400008	1.922623	1.740970	1.986352	1.542434	1.994236
##	6265	6266	6267	6268	6269	6270	6271	6272
##	1.351169	1.662097	2.147939	1.923051	1.808946	1.873802	1.698129	1.814956
##	6273	6274	6275	6276	6277	6278	6279	6280
##	1.860881	1.943489	1.373304	1.390725	1.773533	1.847946	1.449125	1.372828
##	6281	6282	6283	6284	6285	6286	6287	6288
##	2.004225	1.788950	2.054846	1.607471	1.974714	1.811437	2.065907	1.705654
##	6289	6290	6291	6292	6293	6294	6295	6296
##	1.960744	1.667988	1.876928	2.000169	1.857049	1.411549	1.955789	1.423430
##	6297	6298	6299	6300	6301	6302	6303	6304
##	1.472065	1.953750	1.911542	1.453716	2.054461	1.848916	1.588111	1.841465
##	6305	6306	6307	6308	6309	6310	6311	6312
##	1.295311	1.367182	1.973689	2.039561	1.369979	1.870478	1.687126	1.816683
##	6313	6314	6315	6316	6317	6318	6319	6320
##	1.911157	1.368033	1.614508	1.515120	1.616021	1.872309	1.640287	2.141385
##	6321	6322	6323	6324	6325	6326	6327	6328
##	1.794490	1.465673	1.960292	1.967363	1.698789	1.887057	1.605575	1.670582
##	6329	6330	6331	6332	6333	6334	6335	6336
##	1.748740	1.757025	1.672671	1.482117	1.363176	1.596281	1.950062	1.512019
##	6337	6338	6339	6340	6341	6342	6343	6344
##	1.506379	1.641271	1.506352	1.547998	2.024666	1.788625	1.725882	1.620546
##	6345	6346	6347	6348	6349	6350	6351	6352
##	1.758241	1.986963	1.980021	1.464975	1.917388	2.135850	1.861694	1.752703
##	6353	6354	6355	6356	6357	6358	6359	6360
##	1.709441	1.338877	1.502299	1.901082	1.209750	2.034818	2.076095	1.193730
##	6361	6362	6363	6364	6365	6366	6367	6368
##	1.929855	1.593103	1.911577	1.945316	1.628515	2.052225	1.432375	2.095294
##	6369	6370	6371	6372	6373	6374	6375	6376
##	1.575574	1.552929	1.425837	1.649200	1.836441	2.002364	1.909699	1.869179

##	6377	6378	6379	6380	6381	6382	6383	6384
##	1.278716	2.096995	1.855810	1.802281	2.082448	1.922490	1.786377	1.743896
##	6385	6386	6387	6388	6389	6390	6391	6392
##	1.547049	1.879857	1.653272	1.469248	1.927641	1.881418	1.656640	2.099775
##	6393	6394	6395	6396	6397	6398	6399	6400
##	1.729962	1.938915	2.019580	1.812165	1.691875	1.613500	1.685180	1.869619
##	6401	6402	6403	6404	6405	6406	6407	6408
##	1.939428	2.020552	1.407808	2.066185	1.518127	1.987292	1.840049	2.030500
##	6409	6410	6411	6412	6413	6414	6415	6416
##	1.639050	1.699469	1.783821	1.630701	1.912642	1.989037	2.084763	1.879309
##	6417	6418	6419	6420	6421	6422	6423	6424
##	1.903288	1.929813	2.001240	1.424983	2.099490	1.870705	1.944712	1.875538
##	6425	6426	6427	6428	6429	6430	6431	6432
##	2.081122	1.601448	1.950788	2.151606	1.880310	1.299372	1.654495	1.440472
##	6433	6434	6435	6436	6437	6438	6439	6440
##	1.805134	2.019787	1.852598	1.743116	1.407357	1.861291	2.036244	1.748148
##	6441	6442	6443	6444	6445	6446	6447	6448
##	1.812552	1.984794	1.878989	1.458088	1.507003	1.621559	1.686447	1.827245
##	6449	6450	6451	6452	6453	6454	6455	6456
##	1.759687	1.704218	1.701275	1.704860	1.669027	1.359352	1.938164	1.777040
##	6457	6458	6459	6460	6461	6462	6463	6464
##	2.071328	1.490376	1.446925	1.747414	1.999858	1.696403	1.942605	1.889376
##	6465	6466	6467	6468	6469	6470	6471	6472
##	1.345512	1.907978	1.715158	2.070932	1.884083	1.827973	1.547422	1.789178
##	6473	6474	6475	6476	6477	6478	6479	6480
##	1.501108	1.224247	1.436509	1.842546	1.808719	1.641067	1.852518	1.404470
##	6481	6482	6483	6484	6485	6486	6487	6488
##	1.767435	1.924585	1.406700	1.957480	1.676967	1.664260	1.407305	1.540879
##	6489	6490	6491	6492	6493	6494	6495	6496
##	1.626135	1.407071	1.806975	1.869429	1.759383	1.979435	1.968384	1.416915
##	6497	6498	6499	6500	6501	6502	6503	6504
##	2.071016	1.359525	1.777806	1.535050	1.562816	1.860505	2.037309	1.721847
##	6505	6506	6507	6508	6509	6510	6511	6512
##	1.706699	2.030583	1.650411	1.687184	1.637156	1.648446	1.758296	1.351047
##	6513	6514	6515	6516	6517	6518	6519	6520
##	1.901992	1.888778	1.829514	1.361283	2.063723	1.701352	1.658220	2.120132
##	6521	6522	6523	6524	6525	6526	6527	6528
##	1.294115	1.944279	1.745959	1.865321	1.441564	1.794657	1.593706	1.611693
##	6529	6530	6531	6532	6533	6534	6535	6536
##	1.980094	1.471561	1.708070	1.867448	1.960751	1.407908	2.057223	1.504242
##	6537	6538	6539	6540	6541	6542	6543	6544
##	1.602982	1.748007	1.925335	1.862965	1.529068	1.425186	1.753544	1.315851
##	6545	6546	6547	6548	6549	6550	6551	6552
##	1.929114	1.461111	1.903377	1.906131	1.465313	1.871844	1.734887	1.937336
##	6553	6554	6555	6556	6557	6558	6559	6560
##	1.464502	1.279078	1.460528	1.835074	1.717658	1.999202	1.386113	1.936635
##	6561	6562	6563	6564	6565	6566	6567	6568
##	1.935834	1.622719	1.904637	2.078752	1.893520	1.289283	1.742790	1.805784
##	6569	6570	6571	6572	6573	6574	6575	6576
##	2.112463	1.776004	2.114545	1.880260	1.859983	1.910454	1.858876	2.061057

##	6577	6578	6579	6580	6581	6582	6583	6584
##	1.981970	1.954410	1.719082	1.929948	2.049137	1.394432	1.419038	1.820944
##	6585	6586	6587	6588	6589	6590	6591	6592
##	1.769410	1.802586	2.080083	2.090604	1.569041	2.077135	1.441226	1.704092
##	6593	6594	6595	6596	6597	6598	6599	6600
##	1.925595	1.590843	1.602680	1.630282	1.841331	1.549972	1.586379	1.818075
##	6601	6602	6603	6604	6605	6606	6607	6608
##	1.758141	1.362554	1.876382	1.419810	1.807849	2.118546	1.677996	1.538075
##	6609	6610	6611	6612	6613	6614	6615	6616
##	1.837498	1.565236	1.852278	1.340712	2.057154	1.537952	1.284129	1.989072
##	6617	6618	6619	6620	6621	6622	6623	6624
##	1.313507	1.270386	2.005547	1.384552	1.979893	1.389977	1.707988	1.901056
##	6625	6626	6627	6628	6629	6630	6631	6632
##	1.344818	1.366388	1.914708	1.712299	2.040363	2.039968	1.809233	1.838435
##	6633	6634	6635	6636	6637	6638	6639	6640
##	1.711539	1.748117	1.397971	1.665179	1.807209	2.013140	2.089543	1.878912
##	6641	6642	6643	6644	6645	6646	6647	6648
##	1.862665	1.817511	1.826101	1.964263	1.644317	1.307188	2.023635	2.006435
##	6649	6650	6651	6652	6653	6654	6655	6656
##	1.992502	1.452010	2.146147	1.409308	2.008186	1.960840	1.542214	1.564096
##	6657	6658	6659	6660	6661	6662	6663	6664
##	1.801148	1.666742	1.392813	1.559831	1.473367	1.840275	1.977864	1.608200
##	6665	6666	6667	6668	6669	6670	6671	6672
##	1.778512	1.767691	1.663958	1.673131	1.981273	2.071495	1.834315	1.299054
##	6673	6674	6675	6676	6677	6678	6679	6680
##	1.901156	1.834568	1.757287	1.791682	1.917813	1.356854	1.963213	1.847937
##	6681	6682	6683	6684	6685	6686	6687	6688
##	1.714835	1.938941	1.834721	1.568508	1.759215	2.196230	1.376831	1.706955
##	6689	6690	6691	6692	6693	6694	6695	6696
##	1.715721	1.978233	1.848760	1.626608	1.526877	1.447839	1.721827	1.766261
##	6697	6698	6699	6700	6701	6702	6703	6704
##	1.805999	1.957473	1.370887	1.720598	2.019053	1.607901	1.581306	1.697750
##	6705	6706	6707	6708	6709	6710	6711	6712
##	1.413368	1.358500	1.365212	1.615293	1.397860	2.057721	2.040219	1.953377
##	6713	6714	6715	6716	6717	6718	6719	6720
##	1.743793	2.038966	2.043737	1.931753	1.401389	1.487317	2.037932	2.049505
##	6721	6722	6723	6724	6725	6726	6727	6728
##	1.916450	1.929181	1.492831	1.808563	1.766526	2.204436	2.043396	1.862812
##	6729	6730	6731	6732	6733	6734	6735	6736
##	1.806604	1.550108	1.665961	1.351769	2.016568	1.740062	1.939913	1.646465
##	6737	6738	6739	6740	6741	6742	6743	6744
##	1.738320	1.885169	1.297381	2.126424	1.817265	2.034964	1.790896	1.977982
##	6745	6746	6747	6748	6749	6750	6751	6752
##	1.637129	1.386466	1.884897	1.845401	1.692213	1.694945	1.759628	1.744359
##	6753	6754	6755	6756	6757	6758	6759	6760
##	1.987393	1.406700	2.021360	1.912818	2.008739	2.068628	2.036732	1.382970
##	6761	6762	6763	6764	6765	6766	6767	6768
##	1.869635	1.838428	1.432398	1.807858	1.821798	1.985725	1.625828	2.065438
##	6769	6770	6771	6772	6773	6774	6775	6776
##	1.822899	1.736722	1.492660	1.698785	1.894885	1.824299	1.877122	1.759736

##	6777	6778	6779	6780	6781	6782	6783	6784
##	1.578868	1.890151	1.753447	2.001887	1.581452	1.960919	1.950966	2.012908
##	6785	6786	6787	6788	6789	6790	6791	6792
##	1.759765	1.651588	1.536844	1.454235	1.883738	1.576918	1.536873	1.485403
##	6793	6794	6795	6796	6797	6798	6799	6800
##	1.796605	1.441982	1.785675	2.000607	1.892166	1.686502	1.361025	1.667082
##	6801	6802	6803	6804	6805	6806	6807	6808
##	1.450381	1.754345	2.033573	1.690885	2.228300	1.402472	2.057386	1.797296
##	6809	6810	6811	6812	6813	6814	6815	6816
##	1.619567	1.776856	1.413853	1.476797	1.676771	1.689410	1.497283	1.777597
##	6817	6818	6819	6820	6821	6822	6823	6824
##	1.987230	1.941251	1.952733	1.934373	1.311317	2.051772	1.385133	1.660703
##	6825	6826	6827	6828	6829	6830	6831	6832
##	1.781813	1.350271	1.330026	1.367740	1.295557	1.787978	1.714326	1.834436
##	6833	6834	6835	6836	6837	6838	6839	6840
##	1.523455	1.645303	1.536083	1.341447	1.678918	1.555992	1.645133	2.171573
##	6841	6842	6843	6844	6845	6846	6847	6848
##	1.717061	1.899832	1.741922	1.811541	1.933260	2.040325	1.712133	1.475015
##	6849	6850	6851	6852	6853	6854	6855	6856
##	2.040145	1.527043	1.434135	1.265997	1.928962	1.564792	1.808285	1.226871
##	6857	6858	6859	6860	6861	6862	6863	6864
##	2.096153	1.355907	1.940707	1.632934	1.715814	1.870425	2.113542	1.773687
##	6865	6866	6867	6868	6869	6870	6871	6872
##	2.076048	1.886087	1.468926	1.323073	1.513207	2.085608	1.759254	1.899783
##	6873	6874	6875	6876	6877	6878	6879	6880
##	1.641359	1.510549	1.445797	1.268129	1.980284	1.372504	1.412881	1.839652
##	6881	6882	6883	6884	6885	6886	6887	6888
##	1.630576	1.759148	1.767256	1.210289	1.937446	1.646722	1.933160	1.508337
##	6889	6890	6891	6892	6893	6894	6895	6896
##	1.615232	1.643396	1.712412	1.976699	1.786401	1.782334	1.591547	1.931483
##	6897	6898	6899	6900	6901	6902	6903	6904
##	1.676798	1.649010	1.670487	1.993734	2.034559	1.334527	1.891472	1.510341
##	6905	6906	6907	6908	6909	6910	6911	6912
##	1.799177	2.058996	1.948581	1.673141	1.690827	2.005464	1.688240	1.496480
##	6913	6914	6915	6916	6917	6918	6919	6920
##	1.951954	1.409535	1.896973	1.728266	1.773577	1.903812	1.908033	1.356768
##	6921	6922	6923	6924	6925	6926	6927	6928
##	1.864444	1.583137	1.407676	1.895694	1.891586	1.407213	1.700905	2.009210
##	6929	6930	6931	6932	6933	6934	6935	6936
##	1.725865	2.114009	1.964367	1.993545	1.699389	1.770688	1.900975	1.789723
##	6937	6938	6939	6940	6941	6942	6943	6944
##	1.771510	1.769628	1.782595	1.685640	1.993233	1.585919	1.329473	1.798847
##	6945	6946	6947	6948	6949	6950	6951	6952
##	1.639235	2.050839	1.493282	1.919836	1.558075	1.519134	1.469400	1.464793
##	6953	6954	6955	6956	6957	6958	6959	6960
##	1.356058	1.780822	1.837169	1.871832	1.409782	1.430057	1.805488	1.364806
##	6961	6962	6963	6964	6965	6966	6967	6968
##	1.416140	1.702152	1.755833	1.615627	1.893232	2.014458	1.712467	2.168399
##	6969	6970	6971	6972	6973	6974	6975	6976
##	1.637069	1.534363	1.647430	2.170494	1.696819	1.736629	1.879995	1.560184

```
##      6977      6978      6979      6980      6981      6982      6983      6984
## 1.553173 1.706614 1.709798 1.580936 1.334455 1.856192 1.569332 1.908360
##      6985      6986      6987      6988      6989      6990      6991      6992
## 2.063141 1.886823 1.557533 1.407343 1.633443 2.030948 1.619403 1.848911
##      6993      6994      6995      6996      6997      6998      6999      7000
## 1.762797 1.565764 1.932171 1.534199 2.004911 1.311136 1.474402 1.293335
##      7001      7002      7003      7004      7005      7006      7007      7008
## 1.729937 1.999070 1.590333 1.564067 1.506970 1.665706 2.045058 1.414233
##      7009      7010      7011      7012      7013      7014      7015      7016
## 1.995160 1.824648 1.696363 1.801091 1.643126 1.667171 1.469167 1.649988
##      7017      7018      7019      7020      7021      7022      7023      7024
## 1.678968 2.103267 1.419965 1.757233 1.921761 1.289334 1.610627 1.809769
##      7025      7026      7027      7028      7029      7030      7031      7032
## 1.476730 1.666917 2.046856 1.736280 1.830835 1.673316 1.306902 1.958708
```

residuals(fit)

```
##           1           2           3           4           5
## 4.212205e-01 1.195841e-01 -6.784100e-01 6.221027e-02 -4.014162e-01
##           6           7           8           9          10
## -2.827473e-01 5.231914e-01 3.114542e-01 -4.839328e-01 -7.725445e-02
##          11          12          13          14          15
## 2.827325e-01 4.070819e-02 2.837956e-01 -6.148475e-01 4.254464e-01
##          16          17          18          19          20
## -5.528752e-02 1.936205e-02 5.385749e-02 -7.751256e-01 5.088968e-01
##          21          22          23          24          25
## -4.639526e-01 9.691352e-02 -8.080907e-01 2.274791e-02 -4.318281e-02
##          26          27          28          29          30
## 1.923469e-01 -5.937580e-01 -6.543384e-01 -9.302690e-02 -5.799656e-01
##          31          32          33          34          35
## 3.146974e-02 7.469439e-01 3.430424e-02 1.688491e-01 3.857017e-01
##          36          37          38          39          40
## -7.646371e-02 -4.264421e-01 3.298016e-01 -4.772256e-01 -3.316295e-01
##          41          42          43          44          45
## 2.330650e-01 -3.872043e-02 8.794888e-02 -5.916353e-02 3.353532e-01
##          46          47          48          49          50
## 4.347987e-01 3.288002e-01 -3.440918e-01 6.937739e-02 -1.041531e-01
##          51          52          53          54          55
## 4.845371e-01 -4.654573e-01 3.232440e-01 -3.511893e-01 -2.107078e-02
##          56          57          58          59          60
## -2.910501e-01 2.185171e-01 1.947023e-01 3.030626e-02 1.184528e-01
##          61          62          63          64          65
## 4.586655e-01 3.002228e-01 -4.680935e-02 1.908081e-01 -3.339682e-01
##          66          67          68          69          70
## 4.344628e-01 3.250105e-01 1.299734e-01 -6.464684e-02 4.860543e-01
##          71          72          73          74          75
## 2.945761e-01 3.432107e-02 1.264565e-01 -1.079414e-02 2.994959e-01
##          76          77          78          79          80
## 2.524139e-01 1.537344e-01 2.295990e-01 3.358404e-01 9.538227e-02
##          81          82          83          84          85
```

##	-3.726814e-01	3.880094e-01	-4.502573e-01	3.231485e-01	9.042911e-03
##	86	87	88	89	90
##	6.823099e-01	1.969436e-01	-6.407877e-02	1.451483e-02	3.445073e-01
##	91	92	93	94	95
##	3.215232e-01	5.373907e-01	-4.831352e-02	2.264885e-01	1.145998e-01
##	96	97	98	99	100
##	-4.655069e-01	-8.787121e-02	-8.129129e-01	-5.254209e-02	-4.339929e-01
##	101	102	103	104	105
##	1.922811e-01	1.606697e-01	2.988713e-01	1.564102e-01	-9.094287e-01
##	106	107	108	109	110
##	3.769246e-01	1.377804e-01	2.023695e-01	4.110518e-01	-1.256871e-01
##	111	112	113	114	115
##	-7.031970e-01	-6.715160e-02	3.744425e-01	-4.830281e-01	8.914369e-02
##	116	117	118	119	120
##	4.940873e-01	1.258986e-01	-3.658337e-01	4.755765e-03	4.017391e-01
##	121	122	123	124	125
##	3.219929e-01	1.867968e-01	-3.609004e-01	2.643169e-01	1.716809e-01
##	126	127	128	129	130
##	2.431693e-01	-4.604158e-01	-2.441850e-02	1.889352e-01	1.745813e-01
##	131	132	133	134	135
##	6.453807e-01	-6.789968e-01	-8.015135e-02	-5.033330e-01	-6.590969e-01
##	136	137	138	139	140
##	7.810484e-02	4.042998e-01	-8.228119e-02	-2.482537e-02	-3.377407e-01
##	141	142	143	144	145
##	-8.220688e-02	-6.674382e-01	2.588658e-01	1.511536e-01	-2.159794e-02
##	146	147	148	149	150
##	3.028289e-02	1.395241e-01	-5.955214e-01	1.592653e-01	2.853305e-01
##	151	152	153	154	155
##	3.925661e-01	-3.118144e-01	8.879088e-02	-1.364348e-01	1.570963e-01
##	156	157	158	159	160
##	5.488775e-01	5.685435e-01	7.103511e-02	1.667313e-01	1.198671e-01
##	161	162	163	164	165
##	2.574994e-01	-5.361363e-01	5.919486e-01	4.071304e-02	1.064347e-01
##	166	167	168	169	170
##	-7.741212e-02	-4.251782e-01	-1.038671e-01	-7.065500e-01	1.269896e-01
##	171	172	173	174	175
##	1.691617e-01	-2.981633e-01	2.449552e-01	-6.897525e-01	4.780082e-02
##	176	177	178	179	180
##	1.516017e-01	-3.661907e-01	-4.921739e-01	6.163542e-01	2.412274e-02
##	181	182	183	184	185
##	-6.456935e-01	3.633155e-01	-3.983476e-01	1.536691e-01	-5.033340e-01
##	186	187	188	189	190
##	-5.605431e-01	3.200309e-01	3.264026e-01	1.097673e-01	2.144447e-01
##	191	192	193	194	195
##	1.179474e-01	-3.921005e-01	-1.225246e-01	-6.351538e-03	-9.580144e-02
##	196	197	198	199	200
##	4.156199e-01	9.516638e-02	2.717906e-01	5.456356e-02	1.724815e-01
##	201	202	203	204	205
##	3.924549e-01	4.424509e-01	6.137915e-02	5.381391e-01	3.068416e-01
##	206	207	208	209	210

##	2.778161e-01	-8.462521e-02	-3.977257e-01	-5.133851e-01	1.184623e-01
##	211	212	213	214	215
##	-6.044005e-01	3.907666e-01	-7.833252e-02	4.809013e-02	5.931910e-01
##	216	217	218	219	220
##	1.843477e-01	-1.411816e-01	-3.092821e-02	-1.277837e-02	6.004786e-01
##	221	222	223	224	225
##	-4.149313e-01	-6.597707e-02	1.698379e-01	-7.080011e-01	1.452166e-01
##	226	227	228	229	230
##	3.626987e-01	1.773754e-01	-5.789211e-01	4.639491e-01	5.103196e-02
##	231	232	233	234	235
##	1.516258e-01	1.828796e-01	-3.960425e-01	-1.037435e-01	1.656916e-01
##	236	237	238	239	240
##	-5.607302e-01	2.739650e-01	5.505596e-01	-3.242492e-01	6.451731e-02
##	241	242	243	244	245
##	-8.387476e-02	1.203962e-02	1.054401e-01	1.570485e-01	3.736730e-01
##	246	247	248	249	250
##	5.282130e-01	2.324144e-01	-4.528885e-01	-6.575435e-01	2.989178e-01
##	251	252	253	254	255
##	2.079577e-01	-4.759257e-01	-5.235165e-01	1.767344e-01	2.159375e-01
##	256	257	258	259	260
##	4.395252e-02	1.791151e-02	1.547702e-01	-6.090131e-01	3.818438e-01
##	261	262	263	264	265
##	-4.608687e-01	-2.746057e-01	4.008091e-01	1.402068e-01	2.158756e-01
##	266	267	268	269	270
##	-1.016776e-01	-2.072662e-03	5.150203e-01	-1.052810e+00	-6.205417e-03
##	271	272	273	274	275
##	-3.938812e-01	-8.386235e-02	-6.321509e-01	5.736595e-01	-4.427523e-01
##	276	277	278	279	280
##	-4.375218e-01	-6.189618e-01	3.211648e-01	4.308789e-01	3.063695e-01
##	281	282	283	284	285
##	2.671230e-01	3.053448e-01	2.334809e-01	6.191920e-02	-4.740042e-01
##	286	287	288	289	290
##	4.921011e-01	3.211840e-01	-4.533097e-01	-4.161786e-01	-6.445982e-01
##	291	292	293	294	295
##	-4.100530e-01	8.712268e-02	2.893996e-01	7.262290e-01	1.636751e-01
##	296	297	298	299	300
##	1.926528e-01	4.921423e-02	5.929700e-01	3.260888e-01	-4.814583e-01
##	301	302	303	304	305
##	3.436183e-01	-1.933797e-01	5.771887e-01	-1.050584e-02	4.135175e-01
##	306	307	308	309	310
##	-6.671144e-03	-4.613254e-01	1.585887e-01	4.867918e-01	1.658944e-01
##	311	312	313	314	315
##	2.160577e-01	4.122298e-01	1.793189e-01	6.254635e-01	-3.675017e-01
##	316	317	318	319	320
##	1.461337e-01	-4.734799e-02	-9.470274e-01	-4.058597e-01	4.414330e-01
##	321	322	323	324	325
##	-9.376593e-01	3.064563e-02	3.981586e-01	1.987345e-01	-6.232062e-03
##	326	327	328	329	330
##	3.301547e-01	5.787366e-01	-3.532439e-01	4.368378e-01	6.174439e-01
##	331	332	333	334	335

##	4.193683e-02	1.772064e-01	3.374003e-01	-3.823635e-01	-3.895333e-01
##	336	337	338	339	340
##	-1.018779e+00	-6.497186e-01	-8.055056e-02	4.477481e-01	-7.043652e-01
##	341	342	343	344	345
##	1.671595e-01	-1.638707e-01	2.703965e-02	-1.996391e-02	5.380622e-02
##	346	347	348	349	350
##	6.874775e-01	-2.886492e-01	-9.883570e-02	4.675036e-01	1.040104e-01
##	351	352	353	354	355
##	3.774569e-02	2.276826e-01	7.227152e-01	-4.276519e-01	-5.688047e-01
##	356	357	358	359	360
##	-4.112191e-01	3.840872e-01	1.601534e-01	-7.033441e-01	3.069954e-01
##	361	362	363	364	365
##	1.583927e-01	2.628932e-01	5.581660e-02	3.854141e-02	4.351924e-01
##	366	367	368	369	370
##	-3.766866e-01	2.825915e-01	1.884244e-01	2.332146e-01	-3.080177e-02
##	371	372	373	374	375
##	4.195636e-02	-2.900660e-01	9.943899e-02	1.859097e-01	4.476516e-01
##	376	377	378	379	380
##	1.433257e-01	3.953704e-01	-4.685674e-01	-6.441759e-02	4.191848e-01
##	381	382	383	384	385
##	2.370434e-01	-6.566407e-01	-1.849514e-02	-3.071079e-01	3.326004e-01
##	386	387	388	389	390
##	-7.845817e-01	-6.478837e-01	1.319638e-01	4.411368e-01	3.179996e-01
##	391	392	393	394	395
##	5.895305e-01	3.711547e-01	4.445243e-01	1.458102e-01	5.578643e-01
##	396	397	398	399	400
##	-6.133130e-02	4.514505e-01	-6.172160e-01	3.927323e-01	7.280820e-02
##	401	402	403	404	405
##	4.338537e-02	1.086734e-01	-7.408682e-01	-1.152076e-01	1.007629e-01
##	406	407	408	409	410
##	-5.565889e-02	1.801399e-01	5.241944e-01	-7.556774e-01	-7.618583e-01
##	411	412	413	414	415
##	-3.147245e-01	1.067179e-01	5.058805e-01	2.453748e-01	3.815763e-01
##	416	417	418	419	420
##	3.962277e-01	5.916297e-02	7.831100e-02	-5.729460e-01	-3.688140e-01
##	421	422	423	424	425
##	2.650398e-01	5.493744e-01	3.250442e-01	6.240530e-02	2.646001e-01
##	426	427	428	429	430
##	2.265495e-01	3.820669e-01	5.964046e-01	5.469534e-01	-8.170916e-02
##	431	432	433	434	435
##	-9.424288e-01	-5.657744e-02	2.736716e-01	-6.559691e-01	3.496290e-02
##	436	437	438	439	440
##	3.228888e-01	3.771061e-02	-3.763178e-02	4.264095e-01	2.971997e-01
##	441	442	443	444	445
##	5.421770e-01	3.852467e-01	2.085351e-01	3.058026e-01	4.050018e-01
##	446	447	448	449	450
##	-6.676845e-01	-4.466089e-01	2.390991e-02	6.351222e-01	-9.590628e-02
##	451	452	453	454	455
##	1.993931e-02	2.915724e-01	1.774400e-01	-5.134878e-01	-6.697339e-03
##	456	457	458	459	460

##	5.816343e-01	2.428404e-01	1.046462e-01	1.898992e-01	6.556926e-01
##	461	462	463	464	465
##	1.517096e-01	3.632688e-01	-3.187504e-01	-2.900691e-01	4.683880e-02
##	466	467	468	469	470
##	1.018230e-01	1.649397e-01	1.703256e-01	-3.148620e-02	-6.590498e-01
##	471	472	473	474	475
##	1.640539e-01	-5.423124e-01	4.805495e-01	1.348154e-01	-4.437654e-01
##	476	477	478	479	480
##	-4.926118e-01	2.808086e-01	2.754522e-01	-3.623944e-01	-5.694393e-01
##	481	482	483	484	485
##	5.301411e-02	-7.609882e-01	6.040041e-01	9.906610e-02	-4.381515e-01
##	486	487	488	489	490
##	1.615581e-01	6.646751e-01	-1.483707e-02	-3.737729e-01	1.813449e-01
##	491	492	493	494	495
##	4.298122e-01	-4.627604e-01	1.354019e-01	1.937681e-01	-6.775387e-01
##	496	497	498	499	500
##	1.026246e-01	-1.010905e-01	-6.031061e-01	-4.559647e-01	2.938045e-01
##	501	502	503	504	505
##	1.612331e-01	-9.940812e-03	1.346299e-01	-1.332582e-01	-3.823196e-01
##	506	507	508	509	510
##	5.623480e-01	-3.550694e-01	-4.453084e-01	1.936291e-01	3.395250e-01
##	511	512	513	514	515
##	3.001820e-01	-3.142740e-01	2.941799e-01	3.225834e-01	-6.318967e-01
##	516	517	518	519	520
##	8.084509e-02	5.824022e-01	-5.568680e-01	1.443885e-01	2.172205e-01
##	521	522	523	524	525
##	4.040901e-01	2.983821e-01	-5.266291e-01	-4.633092e-01	1.830836e-01
##	526	527	528	529	530
##	2.881207e-02	1.907538e-01	-1.149367e-02	2.024386e-01	6.700114e-02
##	531	532	533	534	535
##	-1.173109e-01	6.451479e-01	2.138754e-01	-2.830586e-01	6.368641e-01
##	536	537	538	539	540
##	2.777334e-01	1.053923e-01	1.931087e-01	-3.030738e-02	-3.722819e-02
##	541	542	543	544	545
##	4.764219e-01	1.913985e-01	-3.499027e-01	-6.700442e-01	3.766215e-01
##	546	547	548	549	550
##	-5.995996e-01	1.904717e-01	2.921210e-01	1.503425e-01	4.511082e-02
##	551	552	553	554	555
##	-1.705550e-02	-9.448637e-02	1.235971e-01	-5.589434e-01	8.651971e-02
##	556	557	558	559	560
##	1.705689e-01	4.865169e-02	4.939696e-01	3.389460e-01	2.722374e-01
##	561	562	563	564	565
##	2.853287e-01	3.445427e-01	2.500532e-01	2.951583e-01	-1.373273e-01
##	566	567	568	569	570
##	3.947322e-01	-1.563927e-01	-4.637177e-01	2.761360e-01	-3.894889e-02
##	571	572	573	574	575
##	6.418718e-02	2.501599e-01	-7.235697e-01	5.475199e-01	-2.434448e-02
##	576	577	578	579	580
##	3.396564e-01	5.582882e-01	4.622781e-01	2.358447e-01	-8.644240e-01
##	581	582	583	584	585

##	-4.952511e-01	-2.632670e-01	2.154562e-01	2.395525e-01	-2.289630e-01
##	586	587	588	589	590
##	2.189108e-02	1.165089e-01	4.691169e-02	-1.720890e-01	4.650993e-02
##	591	592	593	594	595
##	4.192112e-02	-6.162176e-02	3.340957e-01	3.615957e-01	-7.205911e-01
##	596	597	598	599	600
##	1.599955e-01	4.095025e-01	3.299788e-01	-3.490050e-02	4.467383e-01
##	601	602	603	604	605
##	1.445286e-01	2.159550e-01	2.212062e-01	3.643128e-01	-1.002670e-01
##	606	607	608	609	610
##	2.392087e-02	-5.334676e-05	-8.362417e-02	-7.508282e-01	-6.306329e-01
##	611	612	613	614	615
##	-8.386087e-01	-9.278869e-02	3.760471e-01	4.622925e-02	3.585400e-01
##	616	617	618	619	620
##	4.092478e-01	2.320312e-01	1.544049e-01	5.808139e-01	4.702381e-01
##	621	622	623	624	625
##	1.581362e-01	3.479284e-01	5.503626e-02	-8.448400e-01	5.020381e-01
##	626	627	628	629	630
##	4.428982e-01	2.415583e-01	9.672129e-02	-6.228299e-01	-5.986656e-01
##	631	632	633	634	635
##	1.440699e-01	-1.802498e-01	1.274471e-01	2.042243e-01	-7.317498e-01
##	636	637	638	639	640
##	2.880317e-01	-1.681895e-01	-7.099170e-01	-3.384050e-01	-7.269725e-02
##	641	642	643	644	645
##	-8.005091e-01	-2.932137e-01	3.266431e-01	2.339723e-01	-3.070455e-01
##	646	647	648	649	650
##	-5.873390e-01	1.314107e-01	-3.109713e-01	4.626381e-01	-4.309832e-01
##	651	652	653	654	655
##	-4.007270e-01	-6.111241e-03	2.027491e-01	-7.847586e-01	5.926034e-01
##	656	657	658	659	660
##	-1.084298e-01	6.491046e-02	-8.777837e-01	7.622945e-02	-5.672856e-01
##	661	662	663	664	665
##	3.279936e-01	1.911658e-01	6.602518e-03	-9.351029e-02	5.885753e-01
##	666	667	668	669	670
##	-4.592627e-01	2.621494e-01	-6.466427e-01	-1.289015e-02	1.555597e-02
##	671	672	673	674	675
##	-2.389503e-02	-3.329181e-01	2.245480e-01	-6.397548e-01	1.455968e-01
##	676	677	678	679	680
##	4.494062e-02	-5.080628e-01	7.117833e-01	3.174203e-01	-4.191568e-01
##	681	682	683	684	685
##	-9.990115e-03	3.243021e-01	4.267623e-01	5.649158e-01	3.473576e-01
##	686	687	688	689	690
##	8.342110e-02	-6.138534e-01	1.640848e-01	3.407451e-01	2.444616e-01
##	691	692	693	694	695
##	1.424792e-01	-1.594902e-02	-3.616506e-01	1.970237e-01	2.516134e-01
##	696	697	698	699	700
##	-4.486911e-02	-6.356900e-01	3.218616e-01	-1.244090e-01	5.259420e-02
##	701	702	703	704	705
##	4.474483e-01	5.393893e-01	2.468026e-01	3.196748e-01	-6.307914e-01
##	706	707	708	709	710

##	-1.033546e-01	4.931481e-01	4.263555e-01	3.138039e-01	-8.125518e-01
##	711	712	713	714	715
##	4.410446e-01	2.833106e-02	4.629160e-01	-3.678146e-02	3.526931e-01
##	716	717	718	719	720
##	-1.671811e-02	5.166828e-01	4.385709e-01	2.991493e-01	1.248963e-01
##	721	722	723	724	725
##	-9.566126e-02	-3.184951e-01	-6.060852e-01	-3.916670e-01	2.793557e-01
##	726	727	728	729	730
##	1.128951e-01	6.192243e-01	-6.008032e-01	-1.323619e-02	-6.580642e-01
##	731	732	733	734	735
##	1.829388e-01	4.234499e-01	1.220805e-02	4.845896e-01	3.344654e-01
##	736	737	738	739	740
##	3.820531e-01	-9.173183e-02	4.282079e-01	-6.672108e-02	4.806321e-02
##	741	742	743	744	745
##	5.389530e-01	-4.077542e-01	1.056598e-02	3.738265e-01	1.377518e-01
##	746	747	748	749	750
##	2.551063e-02	5.924627e-01	-2.073517e-02	1.449782e-01	2.249566e-01
##	751	752	753	754	755
##	-7.914855e-02	2.901397e-01	5.303456e-01	-3.178559e-01	-9.334654e-02
##	756	757	758	759	760
##	1.883408e-01	-4.789089e-01	-4.444143e-02	1.967422e-01	-4.712069e-01
##	761	762	763	764	765
##	-4.112861e-01	-1.732364e-01	-9.092380e-02	4.760586e-01	5.215994e-01
##	766	767	768	769	770
##	9.253368e-02	3.110248e-01	2.154433e-01	2.008399e-01	-3.359380e-01
##	771	772	773	774	775
##	-8.059991e-01	-4.260161e-01	-5.357541e-01	7.826786e-02	4.101508e-01
##	776	777	778	779	780
##	-3.557812e-01	1.394890e-01	-6.520371e-01	-6.794914e-02	3.216191e-01
##	781	782	783	784	785
##	1.759973e-01	-6.355413e-01	-6.813602e-03	-6.187474e-01	-8.886135e-02
##	786	787	788	789	790
##	1.900011e-01	2.486823e-01	-1.975718e-01	-9.203687e-03	3.474838e-02
##	791	792	793	794	795
##	1.179136e-01	-1.216704e-02	4.744087e-01	3.813700e-01	3.331236e-01
##	796	797	798	799	800
##	2.063833e-01	1.647591e-01	-7.164551e-01	2.301972e-01	-3.577062e-01
##	801	802	803	804	805
##	7.481119e-02	6.069603e-02	-3.932266e-01	6.502958e-02	2.022498e-01
##	806	807	808	809	810
##	4.666898e-02	-5.105931e-01	-4.080482e-01	-7.269071e-01	-9.265018e-01
##	811	812	813	814	815
##	3.975869e-02	1.507603e-01	2.073285e-01	5.765339e-01	-3.372557e-01
##	816	817	818	819	820
##	1.668111e-01	-4.462639e-01	-1.056628e-03	2.804576e-01	2.706235e-02
##	821	822	823	824	825
##	3.644683e-01	3.606449e-01	2.753062e-02	-4.960408e-01	-2.280003e-01
##	826	827	828	829	830
##	1.965444e-01	-8.561733e-01	2.807508e-01	-8.238497e-01	1.678937e-02
##	831	832	833	834	835

##	-1.835822e-01	4.372267e-01	-3.184799e-01	2.619761e-01	-1.004860e-01
##	836	837	838	839	840
##	-6.473266e-01	1.837614e-01	-2.536461e-02	-5.943885e-01	1.163912e-01
##	841	842	843	844	845
##	-9.244414e-01	3.367739e-01	-2.906114e-01	9.613873e-02	-1.026319e-01
##	846	847	848	849	850
##	1.529120e-01	-1.012951e-01	-1.739577e-01	-2.881953e-02	3.311776e-02
##	851	852	853	854	855
##	2.457293e-01	3.242046e-01	-8.781009e-02	-7.258641e-01	-1.314241e-01
##	856	857	858	859	860
##	-6.633361e-01	2.190695e-02	-6.017233e-02	6.632273e-02	6.607199e-02
##	861	862	863	864	865
##	-4.853287e-01	-3.181298e-01	-3.799266e-01	-4.684068e-01	1.083507e-01
##	866	867	868	869	870
##	2.377359e-01	-7.304455e-01	1.934625e-01	1.102588e-02	2.169853e-01
##	871	872	873	874	875
##	-1.083454e-01	-7.116825e-01	2.787413e-01	4.792715e-01	-5.500170e-01
##	876	877	878	879	880
##	6.796592e-02	-5.101094e-02	2.853987e-01	-4.856753e-01	1.102909e-01
##	881	882	883	884	885
##	-4.358277e-01	1.335367e-01	9.177422e-02	2.414875e-01	6.592722e-01
##	886	887	888	889	890
##	5.056957e-01	3.721477e-01	-8.006528e-01	2.708513e-01	-6.366235e-01
##	891	892	893	894	895
##	5.172233e-01	-6.140663e-01	2.065687e-01	4.446338e-01	3.635635e-03
##	896	897	898	899	900
##	2.425370e-01	-4.908038e-01	2.978103e-01	1.889328e-01	-3.579980e-01
##	901	902	903	904	905
##	-5.091132e-01	1.910062e-01	-1.050177e-01	-2.369504e-01	4.525756e-01
##	906	907	908	909	910
##	2.371933e-01	1.509271e-01	9.347750e-02	-4.361378e-01	5.960740e-01
##	911	912	913	914	915
##	1.183603e-01	1.015287e-01	-3.983498e-02	-3.039774e-01	4.644230e-01
##	916	917	918	919	920
##	-4.473437e-02	5.079842e-01	4.527627e-01	3.948414e-03	1.635277e-01
##	921	922	923	924	925
##	5.767950e-01	1.064551e-01	4.136000e-01	7.751985e-02	-3.238903e-01
##	926	927	928	929	930
##	-4.808571e-01	1.032774e-01	3.723969e-01	4.313679e-01	1.873786e-01
##	931	932	933	934	935
##	-9.952008e-02	-2.551899e-01	2.448804e-01	7.378629e-01	-4.291744e-01
##	936	937	938	939	940
##	1.610697e-01	1.549577e-01	4.744169e-02	3.091702e-01	5.063579e-01
##	941	942	943	944	945
##	-9.557826e-02	2.805690e-01	-4.221811e-01	2.146706e-01	5.594432e-01
##	946	947	948	949	950
##	-4.196873e-01	-3.193636e-02	-5.968557e-01	4.992220e-01	1.509067e-01
##	951	952	953	954	955
##	1.610547e-01	6.282472e-01	-6.590030e-01	-8.340569e-02	2.885181e-01
##	956	957	958	959	960

##	1.902001e-01	4.348616e-01	3.455499e-01	1.573391e-01	3.576552e-01
##	961	962	963	964	965
##	-5.994977e-03	-5.873390e-01	-4.549902e-01	-8.374743e-01	1.678098e-01
##	966	967	968	969	970
##	-1.997550e-01	-2.245884e-01	-3.321498e-01	2.957235e-01	-7.486633e-02
##	971	972	973	974	975
##	-6.698259e-01	7.291787e-03	-9.466363e-01	-4.054459e-01	5.515454e-01
##	976	977	978	979	980
##	-6.813329e-01	5.954286e-02	1.656745e-01	-2.619683e-02	1.316762e-01
##	981	982	983	984	985
##	-2.751126e-01	-9.086681e-02	-5.060687e-01	2.845385e-01	1.655032e-01
##	986	987	988	989	990
##	9.014572e-02	1.776375e-02	7.084871e-02	-1.968406e-02	7.022711e-02
##	991	992	993	994	995
##	1.137972e-01	5.662251e-02	-6.747861e-01	-5.853947e-01	-2.034578e-01
##	996	997	998	999	1000
##	-1.065477e-01	4.060012e-01	-3.274751e-01	-4.272478e-01	5.614051e-01
##	1001	1002	1003	1004	1005
##	8.110424e-03	1.366573e-01	4.393175e-01	-4.451677e-01	-4.631884e-01
##	1006	1007	1008	1009	1010
##	-5.305468e-01	1.870092e-01	3.452664e-01	-6.355368e-02	5.944091e-01
##	1011	1012	1013	1014	1015
##	3.309485e-01	-7.154254e-01	-7.271657e-01	-9.356197e-02	4.673450e-02
##	1016	1017	1018	1019	1020
##	4.268284e-01	1.811131e-01	1.088072e-01	8.518953e-02	6.626950e-01
##	1021	1022	1023	1024	1025
##	4.432214e-01	4.167815e-01	9.306566e-02	-2.293877e-01	2.437836e-01
##	1026	1027	1028	1029	1030
##	-4.645393e-01	-4.434939e-01	2.967993e-01	2.639978e-01	-3.069204e-01
##	1031	1032	1033	1034	1035
##	-3.736221e-02	-1.520678e-01	-2.999556e-02	-1.847737e-03	4.414026e-01
##	1036	1037	1038	1039	1040
##	2.949148e-01	-6.938669e-01	-3.771948e-01	1.069434e-01	4.558808e-01
##	1041	1042	1043	1044	1045
##	-6.143163e-01	1.474670e-01	4.426228e-01	1.467157e-02	3.451815e-01
##	1046	1047	1048	1049	1050
##	1.212846e-01	-8.078579e-01	-5.703577e-01	4.190649e-01	2.610045e-01
##	1051	1052	1053	1054	1055
##	-5.771558e-01	-4.808441e-01	5.878743e-02	-3.666362e-01	-4.463918e-01
##	1056	1057	1058	1059	1060
##	-3.376580e-01	-4.721211e-01	8.601431e-02	1.502947e-01	1.386129e-01
##	1061	1062	1063	1064	1065
##	2.167238e-01	1.537032e-01	-4.983675e-01	-2.217351e-02	3.913621e-01
##	1066	1067	1068	1069	1070
##	-5.965071e-01	1.636001e-01	-4.741043e-01	-6.337409e-01	2.514671e-01
##	1071	1072	1073	1074	1075
##	-3.070546e-01	1.989728e-01	2.360545e-01	4.853119e-02	-6.743367e-01
##	1076	1077	1078	1079	1080
##	2.602417e-01	5.636079e-01	4.972555e-02	5.015424e-01	-3.459448e-01
##	1081	1082	1083	1084	1085

##	-2.574901e-02	-4.255997e-01	-3.703297e-01	3.082927e-01	-2.932851e-01
##	1086	1087	1088	1089	1090
##	5.694633e-01	1.959499e-01	2.391225e-01	-2.224205e-01	-3.523746e-02
##	1091	1092	1093	1094	1095
##	1.400219e-01	6.561796e-01	3.130762e-01	-5.002312e-01	-1.073866e-02
##	1096	1097	1098	1099	1100
##	3.773862e-01	2.285994e-01	1.123022e-01	-6.387415e-01	2.568315e-01
##	1101	1102	1103	1104	1105
##	8.377374e-02	6.080323e-01	1.619324e-01	-5.626358e-02	-4.942394e-02
##	1106	1107	1108	1109	1110
##	2.222723e-01	-1.928265e-02	-4.975110e-01	-7.273321e-02	-5.631479e-01
##	1111	1112	1113	1114	1115
##	5.267539e-01	1.269815e-01	1.404026e-01	2.927715e-01	3.406231e-01
##	1116	1117	1118	1119	1120
##	-6.907507e-02	4.357028e-01	1.000670e-01	-5.717777e-01	1.328451e-01
##	1121	1122	1123	1124	1125
##	3.117345e-01	-4.770860e-01	-4.890227e-01	1.097229e-01	1.588085e-01
##	1126	1127	1128	1129	1130
##	4.890161e-01	4.379699e-02	-6.174959e-01	-3.274893e-01	1.581446e-01
##	1131	1132	1133	1134	1135
##	3.235467e-01	4.398127e-02	-9.417570e-02	-1.071026e-01	3.743357e-01
##	1136	1137	1138	1139	1140
##	1.646414e-01	1.938831e-01	2.062813e-01	6.235669e-01	3.164363e-01
##	1141	1142	1143	1144	1145
##	-5.025895e-01	3.663800e-01	1.440779e-01	5.128355e-01	-2.320968e-01
##	1146	1147	1148	1149	1150
##	-3.721113e-01	3.293864e-01	1.783832e-01	3.864090e-01	1.040857e-01
##	1151	1152	1153	1154	1155
##	3.946188e-02	-8.100063e-02	-3.880116e-02	3.108290e-01	2.536933e-01
##	1156	1157	1158	1159	1160
##	-2.999234e-01	5.600413e-01	-5.893698e-01	-5.923149e-02	-3.886931e-01
##	1161	1162	1163	1164	1165
##	-5.616502e-02	6.597823e-02	3.814802e-01	3.138935e-01	1.232375e-01
##	1166	1167	1168	1169	1170
##	1.917465e-01	-1.077454e-02	-7.385770e-01	5.726558e-01	-7.678102e-01
##	1171	1172	1173	1174	1175
##	3.450621e-01	5.275849e-01	-3.510955e-01	1.275677e-01	-4.388358e-01
##	1176	1177	1178	1179	1180
##	4.140285e-01	7.825987e-02	-6.079267e-01	2.251564e-01	2.713318e-01
##	1181	1182	1183	1184	1185
##	4.614228e-01	-4.775954e-01	3.208093e-02	2.017707e-01	3.706415e-01
##	1186	1187	1188	1189	1190
##	5.833886e-01	3.951463e-01	2.191143e-02	-3.258335e-01	7.089960e-02
##	1191	1192	1193	1194	1195
##	2.791848e-01	4.009137e-01	-7.788615e-02	1.829966e-01	3.023550e-02
##	1196	1197	1198	1199	1200
##	4.552943e-01	3.907732e-01	3.329635e-01	-7.051435e-01	-6.755165e-03
##	1201	1202	1203	1204	1205
##	3.076468e-01	-3.457945e-01	5.905855e-01	3.873603e-01	-3.421006e-01
##	1206	1207	1208	1209	1210

##	2.001857e-01	-5.171050e-01	-5.980386e-01	5.584937e-01	-1.210843e-01
##	1211	1212	1213	1214	1215
##	-4.002841e-01	-3.747984e-01	-7.389301e-02	5.879204e-02	-4.626689e-01
##	1216	1217	1218	1219	1220
##	2.300977e-01	3.217836e-01	4.181286e-01	-1.462971e-01	-3.395787e-01
##	1221	1222	1223	1224	1225
##	-6.083984e-01	-5.646129e-01	-6.804821e-02	2.815464e-01	4.090729e-01
##	1226	1227	1228	1229	1230
##	-7.818176e-02	3.191525e-01	2.351101e-01	-6.171226e-01	-8.074418e-02
##	1231	1232	1233	1234	1235
##	1.363372e-01	2.273946e-01	-3.417489e-01	1.108149e-01	-2.669389e-01
##	1236	1237	1238	1239	1240
##	3.930840e-01	1.752496e-01	3.241279e-01	2.605944e-01	-6.484455e-01
##	1241	1242	1243	1244	1245
##	-8.706048e-01	6.234833e-01	3.665216e-01	3.512826e-01	-4.522709e-01
##	1246	1247	1248	1249	1250
##	-6.424937e-01	1.659016e-01	-4.637337e-01	1.788940e-01	-3.809611e-01
##	1251	1252	1253	1254	1255
##	1.601781e-01	-6.127084e-01	-7.635361e-02	2.936634e-01	-1.997926e-02
##	1256	1257	1258	1259	1260
##	-6.530728e-01	3.872034e-01	4.847631e-01	3.485056e-01	-6.934374e-01
##	1261	1262	1263	1264	1265
##	8.598803e-02	2.198345e-01	6.400778e-01	-5.360280e-03	-7.732700e-01
##	1266	1267	1268	1269	1270
##	2.854740e-05	-5.974970e-02	7.617230e-02	1.543727e-01	3.244604e-01
##	1271	1272	1273	1274	1275
##	1.638940e-01	-1.236480e-01	1.300488e-03	-6.425807e-02	1.464396e-01
##	1276	1277	1278	1279	1280
##	1.188755e-01	4.630720e-02	8.037333e-02	5.059332e-01	1.303170e-01
##	1281	1282	1283	1284	1285
##	-7.583181e-02	-2.822002e-01	3.505202e-01	4.430818e-01	-6.697649e-02
##	1286	1287	1288	1289	1290
##	-1.047966e-01	-1.964500e-02	-5.481603e-01	-2.289852e-02	8.154085e-02
##	1291	1292	1293	1294	1295
##	-6.726338e-01	-4.481641e-02	5.341687e-01	5.894027e-01	2.368881e-01
##	1296	1297	1298	1299	1300
##	-6.412906e-01	7.802373e-02	-1.569861e-01	5.883962e-02	-1.240123e-01
##	1301	1302	1303	1304	1305
##	-3.350375e-01	3.091536e-01	-9.868270e-01	1.040529e-01	-3.132275e-01
##	1306	1307	1308	1309	1310
##	-3.873850e-01	-4.212316e-01	2.253479e-01	9.320801e-02	-6.475993e-01
##	1311	1312	1313	1314	1315
##	-7.273246e-01	5.191627e-02	2.240763e-01	2.448699e-01	3.730291e-01
##	1316	1317	1318	1319	1320
##	-7.868626e-01	2.575075e-01	-1.067012e-01	1.991934e-01	-9.840628e-03
##	1321	1322	1323	1324	1325
##	-8.327591e-01	-3.561881e-01	1.172179e-01	-6.962335e-01	1.917630e-01
##	1326	1327	1328	1329	1330
##	-1.125557e-01	1.511300e-01	4.481555e-01	-6.786653e-02	1.226618e-01
##	1331	1332	1333	1334	1335

##	-5.091431e-01	-5.968850e-01	4.417214e-01	3.978448e-03	-8.080907e-01
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##	-7.326856e-01	-5.867884e-01	9.114852e-02	2.351991e-02	1.267991e-01
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##	3.270031e-01	-4.129499e-01	1.066886e-01	-4.019092e-01	3.210634e-01
##	1346	1347	1348	1349	1350
##	-6.705293e-02	1.857768e-01	-8.250612e-02	-7.405346e-03	-4.608943e-01
##	1351	1352	1353	1354	1355
##	2.118692e-01	6.102305e-01	3.407367e-01	5.043543e-01	-2.827167e-01
##	1356	1357	1358	1359	1360
##	-2.577569e-01	-4.435654e-01	-4.169332e-01	-1.395411e-01	-8.525988e-02
##	1361	1362	1363	1364	1365
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##	1366	1367	1368	1369	1370
##	6.750746e-02	-2.997673e-01	5.057278e-01	1.657897e-01	7.385574e-03
##	1371	1372	1373	1374	1375
##	5.818001e-03	-5.463735e-01	-1.895567e-01	1.792849e-01	-6.982980e-02
##	1376	1377	1378	1379	1380
##	1.301858e-01	5.532849e-01	5.451738e-02	-5.527457e-01	-5.167177e-01
##	1381	1382	1383	1384	1385
##	1.601281e-01	-2.979462e-02	-8.883516e-02	3.595490e-01	-4.772775e-01
##	1386	1387	1388	1389	1390
##	-1.598000e-01	4.703131e-01	2.620073e-02	1.973468e-01	1.850050e-01
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##	-7.053304e-01	-7.056320e-01	6.113910e-01	4.097899e-01	9.040391e-02
##	1396	1397	1398	1399	1400
##	1.611931e-01	-2.912901e-01	-5.819522e-01	4.871683e-01	3.567272e-02
##	1401	1402	1403	1404	1405
##	-3.839870e-01	-1.644916e-02	2.514064e-01	1.633035e-01	4.184976e-01
##	1406	1407	1408	1409	1410
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##	1411	1412	1413	1414	1415
##	1.465197e-01	1.252181e-01	3.554416e-01	2.171731e-01	-3.687961e-02
##	1416	1417	1418	1419	1420
##	3.516138e-01	-2.961177e-01	-6.788818e-03	-3.212629e-01	1.406896e-03
##	1421	1422	1423	1424	1425
##	3.965676e-01	5.495238e-02	3.517761e-01	-5.373571e-01	9.741929e-03
##	1426	1427	1428	1429	1430
##	1.270307e-01	1.890681e-01	7.867638e-02	2.892367e-01	-3.502018e-01
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##	2.597524e-01	-2.856796e-01	3.014133e-01	1.980837e-01	-3.800466e-01
##	1436	1437	1438	1439	1440
##	9.079353e-02	3.590201e-01	1.900968e-01	3.463445e-01	1.813805e-01
##	1441	1442	1443	1444	1445
##	5.793366e-01	4.357798e-01	-4.946815e-01	1.289462e-01	2.048288e-01
##	1446	1447	1448	1449	1450
##	1.954682e-01	3.238103e-01	3.139887e-01	4.881157e-01	1.439737e-01
##	1451	1452	1453	1454	1455
##	2.481971e-01	-3.426117e-01	3.923121e-01	-8.129272e-01	2.010688e-01
##	1456	1457	1458	1459	1460

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##	4.934083e-01	2.718278e-01	3.542850e-01	1.673744e-01	-5.958097e-01
##	1466	1467	1468	1469	1470
##	1.699284e-01	4.558084e-01	-4.422063e-01	-3.984880e-01	3.592375e-01
##	1471	1472	1473	1474	1475
##	1.397587e-01	1.901187e-01	-7.947566e-01	-5.425974e-01	3.125452e-01
##	1476	1477	1478	1479	1480
##	1.640900e-01	-5.971530e-02	6.940762e-01	-6.027198e-03	1.652025e-01
##	1481	1482	1483	1484	1485
##	-3.055087e-01	-6.820932e-01	3.279444e-01	3.122100e-01	1.010657e-01
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##	1.456600e-01	1.913985e-01	-3.876861e-01	4.630731e-01	-8.399726e-01
##	1491	1492	1493	1494	1495
##	1.984085e-01	2.296762e-01	1.944571e-01	-4.193382e-01	3.201612e-01
##	1496	1497	1498	1499	1500
##	3.512625e-01	7.315369e-02	1.525869e-01	4.629356e-01	5.179858e-01
##	1501	1502	1503	1504	1505
##	-2.971412e-01	7.887050e-02	-5.309267e-02	4.920481e-01	-4.881296e-01
##	1506	1507	1508	1509	1510
##	-1.645991e-01	-7.246264e-02	6.122779e-01	-4.968712e-01	-9.993652e-02
##	1511	1512	1513	1514	1515
##	1.952802e-01	6.034422e-01	3.059763e-01	1.725918e-01	-5.966202e-01
##	1516	1517	1518	1519	1520
##	2.386061e-01	3.069832e-02	-7.856042e-01	3.195008e-01	2.249700e-01
##	1521	1522	1523	1524	1525
##	1.601783e-01	6.345324e-01	-1.282760e-01	3.866631e-01	-7.552820e-02
##	1526	1527	1528	1529	1530
##	-4.941320e-01	1.789188e-01	1.358553e-01	-5.243101e-01	-1.175268e-01
##	1531	1532	1533	1534	1535
##	2.952250e-01	-1.836078e-01	-2.327115e-02	-3.417824e-01	2.654428e-01
##	1536	1537	1538	1539	1540
##	1.907543e-01	-1.116227e-01	3.697109e-02	-4.699134e-01	2.819373e-01
##	1541	1542	1543	1544	1545
##	2.062910e-01	-7.170121e-02	-7.265176e-01	3.811155e-01	-5.862237e-01
##	1546	1547	1548	1549	1550
##	6.800689e-01	1.034979e-01	1.602630e-01	2.918842e-01	1.298007e-01
##	1551	1552	1553	1554	1555
##	-7.925518e-01	-4.557443e-01	2.896400e-01	-4.105898e-01	1.943776e-01
##	1556	1557	1558	1559	1560
##	9.599824e-02	-3.454227e-01	2.411898e-01	5.752942e-01	-2.341493e-01
##	1561	1562	1563	1564	1565
##	2.674979e-01	-2.827330e-02	4.457599e-01	6.791545e-01	2.865708e-01
##	1566	1567	1568	1569	1570
##	5.921152e-03	1.672768e-01	-6.041910e-01	2.193541e-01	8.899869e-02
##	1571	1572	1573	1574	1575
##	-8.186739e-01	7.858847e-03	-5.975455e-01	-6.195340e-01	-3.549460e-01
##	1576	1577	1578	1579	1580
##	3.462908e-01	3.043453e-01	6.567731e-02	4.054546e-01	1.817195e-01
##	1581	1582	1583	1584	1585

##	1.291574e-01	3.325864e-02	-1.298992e-02	3.667964e-01	4.544753e-01
##	1586	1587	1588	1589	1590
##	-9.405892e-02	1.376451e-01	-6.291446e-01	1.516534e-01	-5.686412e-02
##	1591	1592	1593	1594	1595
##	-3.817746e-01	5.993037e-01	2.061343e-01	1.062273e-02	-8.850811e-02
##	1596	1597	1598	1599	1600
##	-2.518521e-01	3.507730e-01	-4.746511e-01	-6.227853e-01	1.245568e-01
##	1601	1602	1603	1604	1605
##	-3.283990e-02	2.416565e-02	-4.676598e-01	1.588131e-01	2.514243e-01
##	1606	1607	1608	1609	1610
##	-1.331848e-01	-9.678046e-02	-8.785566e-01	9.925372e-02	-1.781804e-02
##	1611	1612	1613	1614	1615
##	5.367585e-02	-1.478253e-02	2.205972e-01	-4.070028e-01	-9.539672e-02
##	1616	1617	1618	1619	1620
##	2.860633e-01	-4.829268e-01	1.507434e-02	2.836566e-01	-6.713413e-01
##	1621	1622	1623	1624	1625
##	-4.573527e-01	1.872089e-01	5.334866e-01	5.692937e-01	-1.168929e-01
##	1626	1627	1628	1629	1630
##	5.160269e-01	-4.594906e-01	-6.325783e-01	3.443520e-01	1.406867e-02
##	1631	1632	1633	1634	1635
##	4.593200e-01	4.708091e-02	6.460153e-02	1.098961e-01	-6.142472e-01
##	1636	1637	1638	1639	1640
##	1.186881e-01	-1.172059e-01	1.197375e-01	3.645920e-01	-5.329969e-01
##	1641	1642	1643	1644	1645
##	-4.845286e-01	-5.954452e-02	-4.470510e-01	2.893847e-01	2.306232e-01
##	1646	1647	1648	1649	1650
##	-3.196215e-01	-3.044612e-01	2.752441e-01	-4.340820e-02	1.169175e-01
##	1651	1652	1653	1654	1655
##	-6.743194e-01	1.995470e-01	1.950516e-01	-7.157945e-01	-7.704377e-02
##	1656	1657	1658	1659	1660
##	1.124995e-01	3.463529e-01	-4.264664e-01	-5.592755e-01	-5.827159e-01
##	1661	1662	1663	1664	1665
##	6.288569e-01	9.130888e-02	2.037022e-01	3.122178e-01	6.118144e-01
##	1666	1667	1668	1669	1670
##	-5.699888e-01	7.039328e-02	-1.992057e-01	-6.828560e-01	8.014584e-02
##	1671	1672	1673	1674	1675
##	-5.184693e-01	5.883524e-01	1.306771e-01	1.184936e-01	4.137668e-01
##	1676	1677	1678	1679	1680
##	6.661264e-02	-5.860871e-02	-1.515237e-02	6.489651e-03	2.578189e-01
##	1681	1682	1683	1684	1685
##	5.106297e-01	-7.551655e-01	1.625102e-01	4.258390e-03	3.681084e-01
##	1686	1687	1688	1689	1690
##	1.718794e-01	-9.325546e-02	2.528725e-01	-5.624617e-02	-5.062085e-01
##	1691	1692	1693	1694	1695
##	1.017902e-01	-2.974276e-01	-1.783756e-01	4.003103e-02	8.981332e-02
##	1696	1697	1698	1699	1700
##	-3.977160e-02	-7.876674e-01	-4.457352e-01	3.290709e-01	-2.607760e-01
##	1701	1702	1703	1704	1705
##	2.377503e-01	6.379870e-02	5.760042e-01	-5.669856e-01	2.523759e-01
##	1706	1707	1708	1709	1710

##	5.578079e-01	-4.691405e-03	2.757218e-01	8.451889e-02	-2.758364e-02
##	1711	1712	1713	1714	1715
##	-4.203491e-02	4.164299e-01	-1.025890e-01	8.525204e-02	6.388891e-01
##	1716	1717	1718	1719	1720
##	6.572145e-01	-5.110526e-01	2.578823e-01	7.521288e-02	7.117959e-01
##	1721	1722	1723	1724	1725
##	7.126960e-01	2.892255e-01	2.908866e-01	7.720445e-03	7.040652e-02
##	1726	1727	1728	1729	1730
##	-4.850257e-01	-3.535857e-01	2.739984e-01	1.837305e-01	-4.796649e-01
##	1731	1732	1733	1734	1735
##	-7.373163e-02	-8.089732e-01	3.835420e-01	1.055877e-01	-4.054459e-01
##	1736	1737	1738	1739	1740
##	9.553766e-02	4.044820e-01	-3.688824e-01	-4.153789e-02	2.984707e-01
##	1741	1742	1743	1744	1745
##	-2.898461e-02	2.219429e-02	-3.353937e-01	-4.928509e-02	3.647920e-01
##	1746	1747	1748	1749	1750
##	1.931405e-01	-4.222904e-01	1.218582e-01	2.071828e-02	4.412435e-02
##	1751	1752	1753	1754	1755
##	2.747599e-01	1.609580e-01	8.684224e-02	-9.702220e-02	1.339614e-01
##	1756	1757	1758	1759	1760
##	1.081434e-01	2.278854e-02	4.366397e-01	4.030521e-01	-8.445954e-02
##	1761	1762	1763	1764	1765
##	2.242203e-01	1.114551e-01	2.032077e-02	6.276299e-02	2.047220e-01
##	1766	1767	1768	1769	1770
##	-5.340283e-01	-3.136476e-01	-4.106917e-01	-6.923556e-02	3.217689e-01
##	1771	1772	1773	1774	1775
##	1.430070e-01	3.250795e-02	2.788182e-01	-8.883252e-02	5.860818e-01
##	1776	1777	1778	1779	1780
##	-9.419480e-01	3.287869e-01	3.996684e-01	-4.163232e-01	-8.106440e-01
##	1781	1782	1783	1784	1785
##	-9.681932e-02	-7.197887e-01	4.081747e-01	-1.682388e-02	1.997661e-01
##	1786	1787	1788	1789	1790
##	-4.862378e-01	9.396164e-02	1.774707e-01	-9.200867e-02	-1.360793e-01
##	1791	1792	1793	1794	1795
##	-4.480068e-01	3.883044e-01	1.151413e-02	8.804310e-02	-3.505311e-01
##	1796	1797	1798	1799	1800
##	3.754738e-01	4.920907e-01	1.740490e-01	1.178612e-01	8.602943e-02
##	1801	1802	1803	1804	1805
##	-1.484492e-01	2.222683e-02	-4.458477e-01	-4.856636e-01	-4.195556e-01
##	1806	1807	1808	1809	1810
##	-8.966424e-03	5.793817e-01	5.568294e-01	4.578911e-01	5.002322e-02
##	1811	1812	1813	1814	1815
##	-9.680965e-02	1.848458e-01	1.664553e-01	2.362951e-01	-4.693250e-03
##	1816	1817	1818	1819	1820
##	3.448614e-01	-4.686177e-01	-4.899930e-01	-5.398000e-01	-1.287219e-01
##	1821	1822	1823	1824	1825
##	2.994258e-01	2.911664e-01	2.767305e-01	8.357582e-02	6.163269e-01
##	1826	1827	1828	1829	1830
##	-1.948328e-03	2.803279e-01	-6.239777e-01	2.798630e-01	-5.997923e-01
##	1831	1832	1833	1834	1835

##	4.053104e-01	-4.814360e-01	-8.322662e-01	4.052895e-01	1.959904e-01
##	1836	1837	1838	1839	1840
##	-9.894299e-01	4.399698e-02	2.231271e-01	-1.205372e-01	-4.596541e-02
##	1841	1842	1843	1844	1845
##	1.177860e-01	9.541944e-02	-7.871326e-02	4.658373e-02	-6.298481e-01
##	1846	1847	1848	1849	1850
##	2.058175e-01	-5.036902e-01	-6.495645e-01	-6.456104e-01	-4.925984e-01
##	1851	1852	1853	1854	1855
##	1.118262e-02	-7.865541e-01	-1.651018e-01	-5.676612e-01	-6.684435e-01
##	1856	1857	1858	1859	1860
##	-1.088013e-01	-6.318516e-01	2.551571e-01	1.941830e-01	3.070926e-01
##	1861	1862	1863	1864	1865
##	4.317284e-01	1.306700e-01	-4.340041e-01	3.769608e-01	-8.725480e-02
##	1866	1867	1868	1869	1870
##	4.115457e-01	2.989598e-01	-4.636349e-02	-1.028689e-01	6.750491e-02
##	1871	1872	1873	1874	1875
##	6.402057e-03	4.138934e-01	-1.574233e-01	2.253165e-01	-4.043306e-01
##	1876	1877	1878	1879	1880
##	-2.853650e-01	3.027653e-01	2.517728e-01	-6.136763e-01	1.041915e-01
##	1881	1882	1883	1884	1885
##	1.783132e-01	-1.475560e-01	-4.921339e-01	1.746350e-01	3.907350e-01
##	1886	1887	1888	1889	1890
##	-7.774839e-01	-5.880312e-01	5.677684e-01	3.362359e-01	3.708047e-01
##	1891	1892	1893	1894	1895
##	-8.061842e-02	7.942402e-02	-7.048798e-01	-3.729132e-01	5.235645e-01
##	1896	1897	1898	1899	1900
##	7.434662e-02	1.143647e-01	-1.180445e-01	7.125968e-01	-7.179169e-01
##	1901	1902	1903	1904	1905
##	1.451962e-01	1.325452e-01	3.433876e-01	-9.623246e-02	1.139118e-01
##	1906	1907	1908	1909	1910
##	3.883771e-01	-8.522940e-02	4.059729e-02	2.321580e-01	4.022196e-01
##	1911	1912	1913	1914	1915
##	2.428479e-01	-6.493664e-01	-9.698516e-02	1.336813e-01	-6.409854e-01
##	1916	1917	1918	1919	1920
##	1.641650e-01	-3.169587e-02	3.363332e-01	-3.880982e-02	5.479405e-01
##	1921	1922	1923	1924	1925
##	4.123267e-02	-5.863313e-01	-6.475067e-01	-8.638783e-01	6.389720e-01
##	1926	1927	1928	1929	1930
##	2.307453e-01	2.692519e-01	1.922811e-01	1.437237e-01	-4.922932e-01
##	1931	1932	1933	1934	1935
##	4.328566e-02	-2.128198e-02	5.081352e-02	2.014361e-01	2.250338e-01
##	1936	1937	1938	1939	1940
##	-9.303643e-02	4.022577e-01	-3.783798e-02	4.499993e-01	-6.489664e-01
##	1941	1942	1943	1944	1945
##	-1.267649e-01	3.299886e-01	8.171415e-02	-3.932077e-01	2.158426e-02
##	1946	1947	1948	1949	1950
##	-7.172299e-01	2.860650e-01	4.964108e-01	-4.445972e-01	-3.417051e-01
##	1951	1952	1953	1954	1955
##	4.244284e-01	5.670329e-02	1.461986e-01	4.745205e-01	2.736496e-01
##	1956	1957	1958	1959	1960

##	2.906042e-01	1.420909e-01	4.496945e-01	4.978240e-01	4.724378e-03
##	1961	1962	1963	1964	1965
##	-7.722259e-01	3.286066e-01	-1.064139e+00	3.065975e-01	8.494574e-02
##	1966	1967	1968	1969	1970
##	-3.697898e-01	1.285080e-01	5.196916e-01	-1.133612e-01	-3.993553e-01
##	1971	1972	1973	1974	1975
##	4.951702e-02	-1.908573e-01	5.555325e-01	-4.042433e-02	-4.758126e-03
##	1976	1977	1978	1979	1980
##	6.283698e-01	-7.093007e-01	1.318651e-01	2.335962e-01	-4.150608e-01
##	1981	1982	1983	1984	1985
##	-6.829550e-01	6.632325e-02	-5.640417e-01	-7.228591e-01	1.401142e-01
##	1986	1987	1988	1989	1990
##	-3.267089e-01	1.621647e-01	5.353170e-01	-6.133739e-01	8.895725e-02
##	1991	1992	1993	1994	1995
##	-3.509834e-01	-1.698766e-01	1.418164e-01	-5.019132e-01	-4.670097e-01
##	1996	1997	1998	1999	2000
##	5.476483e-01	1.840868e-01	2.619272e-02	-7.463892e-01	-4.324075e-01
##	2001	2002	2003	2004	2005
##	-6.801926e-01	-6.280374e-01	-3.520753e-01	-4.200737e-01	-1.544027e-01
##	2006	2007	2008	2009	2010
##	-3.752839e-01	7.050876e-02	-6.763265e-01	3.341182e-02	1.902292e-01
##	2011	2012	2013	2014	2015
##	2.820933e-01	-3.762402e-01	-1.300672e-02	-5.863627e-01	-8.216070e-01
##	2016	2017	2018	2019	2020
##	1.295811e-01	-3.715448e-02	5.578915e-01	-3.221779e-01	5.426206e-01
##	2021	2022	2023	2024	2025
##	-2.102027e-02	1.484498e-01	9.360687e-02	6.657507e-02	-8.835031e-01
##	2026	2027	2028	2029	2030
##	2.982107e-01	3.630055e-01	-4.392039e-01	-7.573972e-01	4.965810e-02
##	2031	2032	2033	2034	2035
##	1.482559e-01	6.512773e-01	6.616602e-01	-4.616700e-01	-4.892046e-01
##	2036	2037	2038	2039	2040
##	-1.490251e-01	8.352758e-02	2.257864e-01	5.169390e-01	1.285845e-01
##	2041	2042	2043	2044	2045
##	1.029725e-01	3.705989e-01	4.632732e-01	-3.804409e-01	2.109924e-01
##	2046	2047	2048	2049	2050
##	-6.388364e-02	-1.002010e-01	3.753110e-01	-6.779733e-01	-5.458502e-01
##	2051	2052	2053	2054	2055
##	3.106611e-01	2.866009e-01	-6.572279e-01	-1.723367e-01	4.184915e-01
##	2056	2057	2058	2059	2060
##	-1.547124e-01	-7.124882e-01	9.759723e-03	4.931534e-02	2.387799e-02
##	2061	2062	2063	2064	2065
##	4.670540e-01	8.728092e-03	2.723380e-01	2.327719e-01	-3.356750e-01
##	2066	2067	2068	2069	2070
##	-8.486025e-01	3.683896e-02	-7.217703e-03	1.545849e-01	-6.515629e-01
##	2071	2072	2073	2074	2075
##	4.462390e-01	2.397768e-01	-4.410361e-01	2.093113e-01	1.811919e-01
##	2076	2077	2078	2079	2080
##	2.382049e-02	4.455037e-01	1.678719e-01	-7.538186e-01	-4.963932e-01
##	2081	2082	2083	2084	2085

##	-3.867340e-01	-5.092731e-01	-6.540620e-01	2.149368e-01	3.418620e-02
##	2086	2087	2088	2089	2090
##	1.990448e-01	-6.061926e-02	-1.769770e-01	1.840439e-01	1.443650e-01
##	2091	2092	2093	2094	2095
##	-3.482816e-01	-8.182709e-01	6.476809e-01	6.158108e-01	3.655168e-01
##	2096	2097	2098	2099	2100
##	1.910868e-01	-6.942593e-01	5.253472e-01	5.922804e-01	-3.274842e-01
##	2101	2102	2103	2104	2105
##	-4.015524e-01	2.532899e-02	4.700719e-01	1.518268e-01	4.487410e-02
##	2106	2107	2108	2109	2110
##	1.826975e-01	7.953705e-03	1.042582e-01	3.217024e-01	9.398543e-02
##	2111	2112	2113	2114	2115
##	3.193471e-02	-6.006693e-01	-1.070456e-01	5.124371e-01	3.600405e-02
##	2116	2117	2118	2119	2120
##	-5.770455e-02	1.941399e-01	4.351718e-01	4.677540e-01	-5.739937e-01
##	2121	2122	2123	2124	2125
##	4.227242e-02	3.530452e-01	-8.180490e-01	1.853283e-01	-3.428204e-01
##	2126	2127	2128	2129	2130
##	-7.348019e-01	2.641836e-02	6.473414e-02	-3.465222e-01	1.958597e-01
##	2131	2132	2133	2134	2135
##	3.130679e-01	5.838606e-01	1.392343e-01	-1.126955e-01	5.018630e-01
##	2136	2137	2138	2139	2140
##	-5.462012e-01	1.201344e-01	1.929053e-01	3.264411e-01	3.472889e-01
##	2141	2142	2143	2144	2145
##	4.691725e-01	1.246477e-01	1.299589e-01	1.495266e-01	4.220342e-01
##	2146	2147	2148	2149	2150
##	5.871422e-01	-3.275887e-03	4.639910e-01	4.636966e-01	2.009306e-02
##	2151	2152	2153	2154	2155
##	-4.614695e-01	-3.959816e-01	3.399935e-01	1.165502e-02	1.044807e-01
##	2156	2157	2158	2159	2160
##	-1.781782e-01	-4.056914e-01	4.645177e-01	-3.917475e-01	-6.110315e-02
##	2161	2162	2163	2164	2165
##	1.202227e-01	1.514047e-01	-2.555776e-01	-3.233928e-01	-7.130791e-02
##	2166	2167	2168	2169	2170
##	1.525668e-01	4.085298e-01	3.376566e-01	5.894835e-01	8.919606e-02
##	2171	2172	2173	2174	2175
##	-6.252390e-01	-6.288622e-02	1.088075e-01	-5.307752e-02	1.299546e-01
##	2176	2177	2178	2179	2180
##	7.686113e-02	1.266177e-01	1.973047e-01	3.330922e-01	-2.548849e-01
##	2181	2182	2183	2184	2185
##	-7.743085e-01	-5.202831e-02	7.216971e-03	2.993518e-01	-8.656175e-02
##	2186	2187	2188	2189	2190
##	-7.420779e-02	-2.261113e-01	-7.748671e-04	2.808426e-02	-3.516274e-01
##	2191	2192	2193	2194	2195
##	1.386521e-01	1.251230e-01	7.814748e-02	2.812264e-01	-5.604030e-03
##	2196	2197	2198	2199	2200
##	2.539953e-01	7.310925e-02	-3.749372e-01	2.395173e-03	-8.555115e-01
##	2201	2202	2203	2204	2205
##	4.696666e-01	-6.423493e-01	-3.737606e-01	-1.732748e-01	1.969799e-01
##	2206	2207	2208	2209	2210

##	9.749919e-02	3.292426e-01	1.185173e-01	1.015338e-01	-4.301387e-01
##	2211	2212	2213	2214	2215
##	-5.493281e-03	2.176631e-01	-1.345831e-01	-1.206084e-01	5.970106e-01
##	2216	2217	2218	2219	2220
##	-1.310253e-01	-2.492030e-01	4.818337e-01	-4.786205e-01	-4.474185e-01
##	2221	2222	2223	2224	2225
##	3.045653e-01	9.906921e-02	1.300398e-02	1.553354e-01	5.337928e-01
##	2226	2227	2228	2229	2230
##	-3.519408e-02	-4.544907e-01	-3.341309e-02	4.882846e-02	1.256822e-01
##	2231	2232	2233	2234	2235
##	1.652329e-01	6.417788e-01	2.976834e-01	6.649075e-01	-7.181051e-02
##	2236	2237	2238	2239	2240
##	-7.217766e-02	1.397675e-02	5.324835e-02	3.626718e-01	-8.646756e-01
##	2241	2242	2243	2244	2245
##	8.271415e-02	-3.264310e-01	-1.642173e-02	2.351089e-01	3.680783e-01
##	2246	2247	2248	2249	2250
##	9.898630e-02	4.547733e-01	-6.897839e-02	-1.736203e-01	-5.023844e-03
##	2251	2252	2253	2254	2255
##	2.918996e-01	7.773955e-02	7.518112e-02	-7.657288e-03	9.647427e-02
##	2256	2257	2258	2259	2260
##	-5.289192e-01	2.615421e-01	-3.475594e-01	-5.379072e-01	2.602140e-02
##	2261	2262	2263	2264	2265
##	-3.636918e-01	2.210141e-01	5.025904e-03	3.335480e-02	-4.365713e-01
##	2266	2267	2268	2269	2270
##	-2.951738e-01	5.248523e-01	3.698297e-01	5.514832e-02	-5.753181e-01
##	2271	2272	2273	2274	2275
##	-3.709432e-01	4.091214e-01	-7.765674e-01	3.609432e-01	4.000798e-02
##	2276	2277	2278	2279	2280
##	7.080831e-01	-5.656539e-01	-6.757190e-01	-3.853670e-01	2.722890e-01
##	2281	2282	2283	2284	2285
##	-7.455979e-01	3.984369e-01	-8.577389e-01	6.234102e-01	-1.584792e-02
##	2286	2287	2288	2289	2290
##	-5.243489e-01	-2.967271e-01	-5.251172e-02	-8.069340e-02	-3.188496e-01
##	2291	2292	2293	2294	2295
##	-5.636055e-01	4.009513e-01	-7.823005e-01	1.380067e-01	-2.120672e-02
##	2296	2297	2298	2299	2300
##	-7.192045e-01	6.194399e-01	-1.035303e-01	-6.749198e-01	1.409968e-01
##	2301	2302	2303	2304	2305
##	4.694142e-01	5.880468e-01	2.928604e-01	5.992491e-02	2.061756e-01
##	2306	2307	2308	2309	2310
##	-4.084221e-02	2.879558e-01	1.004787e-01	3.359414e-01	-1.148595e-01
##	2311	2312	2313	2314	2315
##	2.355191e-01	1.882565e-01	6.583443e-03	-8.164604e-03	5.771887e-01
##	2316	2317	2318	2319	2320
##	-6.822008e-02	3.054859e-01	-5.948188e-02	-4.430398e-01	-4.483883e-01
##	2321	2322	2323	2324	2325
##	2.064180e-01	7.251335e-02	5.559529e-01	5.395568e-01	1.752955e-01
##	2326	2327	2328	2329	2330
##	2.865057e-01	2.001873e-01	1.301035e-01	-3.321406e-02	6.633674e-01
##	2331	2332	2333	2334	2335

##	3.363486e-01	-5.016903e-01	-6.319779e-01	-1.272879e-01	-3.125698e-01
##	2336	2337	2338	2339	2340
##	1.249296e-01	-2.250643e-02	3.990397e-01	4.135933e-01	1.889453e-01
##	2341	2342	2343	2344	2345
##	1.896963e-01	1.164342e-01	1.599925e-01	6.919965e-02	-4.868472e-02
##	2346	2347	2348	2349	2350
##	6.839033e-01	-1.114439e-01	1.959873e-01	6.436060e-01	5.746208e-02
##	2351	2352	2353	2354	2355
##	-1.091201e-01	2.132530e-01	-8.233187e-03	-4.942059e-03	2.311789e-01
##	2356	2357	2358	2359	2360
##	-9.890449e-02	-6.557406e-01	2.373230e-01	3.977868e-01	5.368857e-01
##	2361	2362	2363	2364	2365
##	5.135013e-01	-3.494963e-01	-3.524923e-01	1.024321e-02	9.531811e-03
##	2366	2367	2368	2369	2370
##	6.511760e-03	3.021116e-01	-1.609323e-01	-3.969379e-03	1.830401e-01
##	2371	2372	2373	2374	2375
##	8.373288e-03	3.529462e-01	9.344259e-02	-5.753240e-01	-4.864839e-01
##	2376	2377	2378	2379	2380
##	2.458738e-01	1.167909e-01	1.052963e-01	3.594218e-01	4.595921e-01
##	2381	2382	2383	2384	2385
##	3.451370e-01	1.416122e-01	6.685053e-01	4.649838e-01	-9.157132e-02
##	2386	2387	2388	2389	2390
##	1.014900e-01	4.792331e-01	5.849126e-01	-5.799337e-01	1.778595e-01
##	2391	2392	2393	2394	2395
##	5.327139e-01	3.519592e-01	-3.021361e-01	4.047044e-01	4.864055e-01
##	2396	2397	2398	2399	2400
##	3.843972e-01	3.033671e-01	1.515273e-01	-9.896615e-02	2.989556e-01
##	2401	2402	2403	2404	2405
##	-3.659645e-01	-3.234920e-01	-3.991736e-01	-2.558164e-02	2.691577e-01
##	2406	2407	2408	2409	2410
##	3.527529e-01	-2.893032e-03	-8.710975e-01	1.870134e-01	1.165504e-01
##	2411	2412	2413	2414	2415
##	-4.584802e-01	5.334497e-01	2.830030e-01	5.173188e-01	1.779202e-01
##	2416	2417	2418	2419	2420
##	3.356464e-01	2.170408e-01	6.458097e-01	1.041598e-01	-8.059946e-01
##	2421	2422	2423	2424	2425
##	1.681846e-01	3.561042e-01	-5.503089e-01	-5.326192e-01	1.568062e-01
##	2426	2427	2428	2429	2430
##	1.363042e-01	-5.137300e-01	1.086290e-01	2.646605e-01	1.644901e-01
##	2431	2432	2433	2434	2435
##	3.609713e-01	4.216065e-01	2.564345e-01	-4.141326e-01	5.878525e-02
##	2436	2437	2438	2439	2440
##	1.133164e-01	6.689486e-01	-2.735992e-01	5.059298e-03	-4.052563e-01
##	2441	2442	2443	2444	2445
##	3.339966e-01	-4.136675e-01	5.581563e-01	-2.963338e-01	3.621653e-01
##	2446	2447	2448	2449	2450
##	8.536153e-03	-5.973741e-01	-3.870231e-01	6.885269e-01	-4.747016e-02
##	2451	2452	2453	2454	2455
##	-4.476358e-01	3.397667e-03	2.840950e-01	3.255022e-01	2.097550e-01
##	2456	2457	2458	2459	2460

##	-3.989055e-02	-5.786646e-02	2.932013e-01	6.624643e-01	-3.251147e-01
##	2461	2462	2463	2464	2465
##	-5.204414e-01	-7.313797e-02	3.040013e-01	-4.904870e-01	7.500734e-02
##	2466	2467	2468	2469	2470
##	7.979847e-03	-6.116358e-01	-1.583328e-01	1.579190e-01	4.376128e-01
##	2471	2472	2473	2474	2475
##	2.942965e-02	-1.110005e-01	6.031613e-01	3.396332e-01	-2.917708e-02
##	2476	2477	2478	2479	2480
##	-5.836213e-01	1.621089e-02	4.013160e-01	-6.381371e-01	1.417196e-01
##	2481	2482	2483	2484	2485
##	-4.157139e-01	4.293043e-01	9.867730e-02	-7.950957e-01	-7.280216e-02
##	2486	2487	2488	2489	2490
##	3.061840e-01	7.068528e-02	-6.158834e-01	6.754121e-01	-5.902027e-01
##	2491	2492	2493	2494	2495
##	8.704311e-02	4.238951e-02	1.846291e-01	2.055452e-01	5.777007e-02
##	2496	2497	2498	2499	2500
##	6.483046e-03	-1.103054e-01	-6.700649e-03	-1.213188e-02	-4.612707e-01
##	2501	2502	2503	2504	2505
##	6.779786e-02	-1.786934e-02	-4.784249e-03	1.391671e-01	-1.381161e-02
##	2506	2507	2508	2509	2510
##	-3.428167e-01	3.583205e-01	1.603114e-01	-6.204545e-02	-4.026399e-01
##	2511	2512	2513	2514	2515
##	6.068997e-02	-2.677599e-01	-3.739010e-01	5.750089e-01	7.136057e-01
##	2516	2517	2518	2519	2520
##	3.520301e-02	-4.576126e-01	1.601047e-01	-4.807856e-02	-1.322745e-01
##	2521	2522	2523	2524	2525
##	-2.366088e-02	-8.136671e-01	-3.463989e-01	-4.016051e-01	-8.843133e-01
##	2526	2527	2528	2529	2530
##	6.148618e-01	-2.048990e-03	3.838757e-01	5.873349e-02	5.994864e-02
##	2531	2532	2533	2534	2535
##	-3.422998e-02	-8.874999e-01	-6.270913e-02	2.110309e-01	-5.320680e-02
##	2536	2537	2538	2539	2540
##	1.093537e-02	4.960883e-02	2.332474e-01	-4.194499e-01	3.593484e-01
##	2541	2542	2543	2544	2545
##	-4.854902e-02	2.699491e-01	-1.000145e-02	5.999998e-01	1.887818e-01
##	2546	2547	2548	2549	2550
##	-6.027016e-02	1.380037e-01	7.911943e-02	2.245662e-01	3.344467e-01
##	2551	2552	2553	2554	2555
##	3.722800e-01	3.403651e-01	3.521421e-01	5.620178e-02	7.519931e-03
##	2556	2557	2558	2559	2560
##	-6.552661e-01	3.713199e-02	4.441049e-02	-4.112035e-01	-6.199731e-01
##	2561	2562	2563	2564	2565
##	1.375030e-01	-1.286271e-01	-6.957611e-01	4.130979e-02	-6.090463e-02
##	2566	2567	2568	2569	2570
##	-4.355745e-01	2.625996e-01	-5.976077e-02	-5.324102e-01	-4.442951e-01
##	2571	2572	2573	2574	2575
##	7.772658e-02	2.325975e-01	-2.292402e-01	-5.223839e-01	-3.795289e-02
##	2576	2577	2578	2579	2580
##	5.567382e-01	1.508249e-01	6.496037e-01	-5.420131e-02	9.476823e-02
##	2581	2582	2583	2584	2585

##	6.231797e-03	5.809029e-02	3.767794e-02	2.629961e-01	-2.985230e-01
##	2586	2587	2588	2589	2590
##	4.587487e-01	3.581150e-01	1.604622e-01	-1.025630e-01	1.093514e-01
##	2591	2592	2593	2594	2595
##	1.521682e-02	2.670307e-01	1.296754e-01	5.621946e-01	-1.676769e-01
##	2596	2597	2598	2599	2600
##	5.496698e-01	2.148600e-02	1.644581e-01	1.192111e-03	5.162471e-01
##	2601	2602	2603	2604	2605
##	1.298810e-01	4.348484e-01	-3.564208e-01	-7.230633e-01	-6.682632e-01
##	2606	2607	2608	2609	2610
##	-7.676141e-01	-4.504370e-01	3.505016e-01	-3.504110e-01	-9.045504e-01
##	2611	2612	2613	2614	2615
##	-1.073374e-01	-6.607055e-01	-7.579079e-01	5.189128e-02	-4.889314e-01
##	2616	2617	2618	2619	2620
##	2.373660e-01	-6.424642e-02	3.377237e-01	5.195024e-01	2.995057e-01
##	2621	2622	2623	2624	2625
##	2.498697e-01	8.149398e-02	6.330489e-02	4.668405e-01	-4.629320e-01
##	2626	2627	2628	2629	2630
##	7.290356e-02	-2.281319e-01	8.409634e-02	8.563236e-02	-4.031774e-01
##	2631	2632	2633	2634	2635
##	-1.667441e-02	6.072738e-02	2.695067e-02	-7.882953e-01	-6.897882e-01
##	2636	2637	2638	2639	2640
##	4.171694e-01	2.480263e-01	-6.258012e-01	-4.874870e-01	-6.649503e-01
##	2641	2642	2643	2644	2645
##	1.776360e-01	3.276781e-02	2.423068e-01	2.348773e-01	-3.150033e-02
##	2646	2647	2648	2649	2650
##	5.006592e-01	-4.370759e-01	4.192659e-01	-1.479471e-01	-2.825771e-01
##	2651	2652	2653	2654	2655
##	-3.916163e-01	1.327815e-01	3.326968e-01	4.402597e-02	-3.349454e-02
##	2656	2657	2658	2659	2660
##	2.771857e-01	-2.489278e-02	-4.640799e-01	2.097022e-01	1.684740e-01
##	2661	2662	2663	2664	2665
##	3.162667e-01	-5.937458e-02	-5.106881e-02	-8.349538e-01	-4.726831e-01
##	2666	2667	2668	2669	2670
##	2.121062e-01	2.021831e-01	5.362837e-02	-4.399754e-01	2.365278e-01
##	2671	2672	2673	2674	2675
##	-2.234583e-02	7.669314e-02	-4.234156e-01	6.580031e-02	-3.627120e-01
##	2676	2677	2678	2679	2680
##	-2.142014e-01	1.295222e-02	-5.933598e-01	-4.273620e-01	1.477020e-01
##	2681	2682	2683	2684	2685
##	-5.404011e-04	-4.031019e-01	3.735879e-01	-3.952090e-01	7.046114e-02
##	2686	2687	2688	2689	2690
##	-3.621954e-01	3.318248e-01	2.609269e-01	-1.147412e-01	1.308832e-01
##	2691	2692	2693	2694	2695
##	3.893654e-02	-6.270531e-02	-1.625397e-01	1.863575e-01	4.862119e-01
##	2696	2697	2698	2699	2700
##	2.847424e-01	-5.139102e-02	3.418886e-01	-5.281984e-01	8.340126e-02
##	2701	2702	2703	2704	2705
##	-6.351016e-02	-4.532935e-01	-3.732895e-01	-3.070387e-01	3.917309e-01
##	2706	2707	2708	2709	2710

##	7.851356e-02	-5.409463e-01	3.122881e-01	2.444616e-01	2.099644e-01
##	2711	2712	2713	2714	2715
##	1.618173e-01	2.907133e-01	-1.719545e-01	-4.432495e-02	2.548775e-02
##	2716	2717	2718	2719	2720
##	-6.399500e-01	-3.541789e-01	-7.548713e-03	1.255485e-01	-6.369523e-02
##	2721	2722	2723	2724	2725
##	3.823790e-01	1.313847e-02	-2.727149e-01	2.742860e-01	-2.838860e-01
##	2726	2727	2728	2729	2730
##	3.069515e-01	1.754850e-01	1.493397e-01	4.721442e-01	1.661593e-01
##	2731	2732	2733	2734	2735
##	3.941559e-01	3.272909e-01	1.992740e-01	5.214675e-02	1.938177e-01
##	2736	2737	2738	2739	2740
##	-6.433762e-01	-2.702556e-01	-1.703912e-01	1.691940e-02	2.769292e-01
##	2741	2742	2743	2744	2745
##	-2.285967e-01	9.090492e-03	2.188632e-01	-4.649824e-01	2.608340e-01
##	2746	2747	2748	2749	2750
##	1.883138e-01	3.723336e-01	-8.638546e-01	-2.639443e-01	2.815137e-01
##	2751	2752	2753	2754	2755
##	6.319003e-02	-7.981921e-01	5.235601e-02	1.813072e-01	1.647597e-01
##	2756	2757	2758	2759	2760
##	1.158522e-01	-4.851940e-01	3.278545e-01	9.039835e-02	8.711103e-02
##	2761	2762	2763	2764	2765
##	5.316716e-01	1.168409e-01	2.815170e-01	1.187958e-01	-8.683986e-01
##	2766	2767	2768	2769	2770
##	-3.711047e-01	3.153370e-01	-1.405396e-01	3.024748e-01	2.812860e-01
##	2771	2772	2773	2774	2775
##	-8.923102e-01	-4.667934e-01	1.593243e-01	4.767738e-01	-3.339356e-01
##	2776	2777	2778	2779	2780
##	-8.961560e-01	4.433697e-01	1.108670e-01	3.608846e-01	-4.203343e-01
##	2781	2782	2783	2784	2785
##	3.706881e-01	1.046946e-01	-6.270755e-02	8.582094e-02	5.539627e-01
##	2786	2787	2788	2789	2790
##	-8.067025e-01	3.580423e-02	2.670119e-01	5.831837e-01	1.670277e-01
##	2791	2792	2793	2794	2795
##	-3.361180e-01	3.033444e-01	-2.431771e-01	-3.599150e-01	-4.743496e-02
##	2796	2797	2798	2799	2800
##	1.214413e-01	1.907363e-01	-4.595222e-01	2.369881e-02	-7.040431e-01
##	2801	2802	2803	2804	2805
##	-1.518621e-01	7.644714e-02	1.038991e-01	5.928463e-01	2.973731e-01
##	2806	2807	2808	2809	2810
##	2.224406e-01	-1.680535e-02	-8.128544e-01	-3.538090e-02	-7.121589e-02
##	2811	2812	2813	2814	2815
##	-4.250228e-01	7.269303e-02	-1.124319e-02	-6.062337e-01	2.683357e-01
##	2816	2817	2818	2819	2820
##	2.378892e-02	-2.976574e-01	-9.280811e-01	3.360436e-02	-6.570163e-02
##	2821	2822	2823	2824	2825
##	2.612738e-01	2.547403e-01	3.899634e-01	1.085807e-01	-3.939655e-01
##	2826	2827	2828	2829	2830
##	-8.763324e-02	-3.010922e-01	1.353255e-01	-8.055290e-02	1.571565e-02
##	2831	2832	2833	2834	2835

##	4.059867e-03	3.609986e-01	-8.015380e-01	1.175976e-03	-4.770905e-02
##	2836	2837	2838	2839	2840
##	2.689582e-01	3.795142e-01	3.142176e-01	-5.404406e-02	-2.494802e-01
##	2841	2842	2843	2844	2845
##	5.087564e-01	4.286147e-01	4.286530e-01	1.661786e-01	1.668029e-01
##	2846	2847	2848	2849	2850
##	3.532626e-01	-5.272279e-02	-1.057312e-01	2.481459e-01	2.936705e-01
##	2851	2852	2853	2854	2855
##	-3.444437e-02	4.604123e-01	-2.463146e-02	2.237518e-01	-4.900058e-02
##	2856	2857	2858	2859	2860
##	3.580252e-01	-3.282113e-01	-4.376516e-01	3.541605e-01	3.439762e-01
##	2861	2862	2863	2864	2865
##	4.673715e-02	5.689592e-01	7.486664e-02	4.904196e-01	-3.049835e-01
##	2866	2867	2868	2869	2870
##	1.997820e-01	-3.596892e-01	3.514404e-03	-4.057309e-01	-7.693092e-02
##	2871	2872	2873	2874	2875
##	-4.123889e-01	1.313020e-01	-6.800772e-01	5.216963e-01	-6.951475e-01
##	2876	2877	2878	2879	2880
##	5.690083e-01	1.574807e-01	4.671949e-01	-5.005983e-02	-8.935303e-02
##	2881	2882	2883	2884	2885
##	9.095472e-02	1.670943e-01	-5.921719e-01	-3.670654e-01	6.276339e-02
##	2886	2887	2888	2889	2890
##	-6.794957e-01	-3.449406e-01	1.941399e-01	-7.684229e-01	-9.845999e-01
##	2891	2892	2893	2894	2895
##	8.295060e-02	1.579188e-01	2.568411e-02	3.081213e-01	-1.163405e-01
##	2896	2897	2898	2899	2900
##	-3.783627e-01	6.736842e-02	5.605807e-01	2.612148e-01	-5.682448e-01
##	2901	2902	2903	2904	2905
##	3.219366e-01	3.035586e-01	-4.093022e-01	-4.008001e-01	4.559996e-02
##	2906	2907	2908	2909	2910
##	7.944611e-02	-4.826596e-01	5.292884e-01	1.019317e-02	3.021990e-01
##	2911	2912	2913	2914	2915
##	-6.968398e-02	1.771864e-01	-6.924261e-02	4.885713e-01	1.842039e-01
##	2916	2917	2918	2919	2920
##	-1.737263e-01	-2.779035e-01	-5.255994e-01	2.231554e-01	-4.822749e-01
##	2921	2922	2923	2924	2925
##	2.252844e-01	3.242552e-02	5.945541e-01	-1.014412e-01	5.532212e-02
##	2926	2927	2928	2929	2930
##	6.018047e-02	5.359049e-01	2.733977e-01	-3.514097e-02	1.169745e-01
##	2931	2932	2933	2934	2935
##	-1.359526e-01	4.638791e-01	2.020327e-01	2.090286e-01	-5.020205e-01
##	2936	2937	2938	2939	2940
##	-6.594623e-01	4.480834e-02	-2.435508e-02	9.766581e-02	3.080147e-01
##	2941	2942	2943	2944	2945
##	4.514595e-01	2.939482e-01	2.930943e-01	-4.671345e-01	-1.877187e-02
##	2946	2947	2948	2949	2950
##	2.279225e-01	2.138617e-01	1.426711e-01	-4.235206e-01	-4.113160e-01
##	2951	2952	2953	2954	2955
##	-2.768829e-01	3.396595e-01	6.326714e-01	1.757772e-01	3.334549e-01
##	2956	2957	2958	2959	2960

##	-4.173455e-01	2.748053e-01	-6.298650e-01	1.270909e-01	1.909517e-01
##	2961	2962	2963	2964	2965
##	-7.073880e-01	5.600053e-01	6.204908e-02	5.699980e-01	1.431618e-02
##	2966	2967	2968	2969	2970
##	-3.651499e-01	-8.024520e-02	-4.432882e-02	-7.528799e-01	-5.494633e-01
##	2971	2972	2973	2974	2975
##	3.541049e-01	2.028817e-01	2.373981e-01	3.802098e-01	8.719663e-02
##	2976	2977	2978	2979	2980
##	-5.784716e-02	-9.820728e-02	2.691564e-02	-1.727223e-01	1.447620e-01
##	2981	2982	2983	2984	2985
##	2.956290e-01	1.906714e-01	4.141090e-04	8.424152e-02	2.112785e-01
##	2986	2987	2988	2989	2990
##	-5.358403e-01	3.669534e-01	2.716307e-01	1.288139e-01	-1.687227e-02
##	2991	2992	2993	2994	2995
##	3.751453e-01	3.312371e-01	-6.828778e-01	5.695262e-01	1.224716e-01
##	2996	2997	2998	2999	3000
##	-3.612892e-01	1.719933e-01	1.655475e-01	-5.805553e-01	-3.608736e-01
##	3001	3002	3003	3004	3005
##	2.360967e-01	-3.668894e-01	-5.397254e-01	1.252538e-01	3.007672e-01
##	3006	3007	3008	3009	3010
##	4.164807e-01	6.184940e-02	-4.991717e-02	3.839311e-01	4.761276e-01
##	3011	3012	3013	3014	3015
##	-7.470044e-02	-5.467793e-01	1.476461e-01	4.169322e-03	-8.367044e-01
##	3016	3017	3018	3019	3020
##	8.411283e-02	1.792035e-01	1.917531e-01	-1.697943e-01	1.479852e-01
##	3021	3022	3023	3024	3025
##	-4.440722e-02	-3.750925e-01	2.324775e-01	-7.188646e-01	-7.153890e-01
##	3026	3027	3028	3029	3030
##	-3.512557e-01	-5.979732e-01	4.058677e-02	1.048039e-01	-3.422978e-01
##	3031	3032	3033	3034	3035
##	5.153487e-01	3.418962e-02	4.742182e-02	2.409369e-01	1.530921e-02
##	3036	3037	3038	3039	3040
##	-9.212247e-01	3.564049e-01	-7.924087e-01	-5.166433e-01	-5.856192e-01
##	3041	3042	3043	3044	3045
##	1.663116e-01	2.112865e-01	-6.134072e-01	3.455271e-01	-8.203040e-01
##	3046	3047	3048	3049	3050
##	-4.273819e-01	-1.706561e-01	2.522918e-01	1.305397e-01	1.489189e-01
##	3051	3052	3053	3054	3055
##	-6.926648e-01	3.547315e-02	5.452823e-02	-6.665903e-01	4.769241e-03
##	3056	3057	3058	3059	3060
##	3.357291e-01	-3.530754e-01	2.990529e-01	5.167788e-01	4.819012e-01
##	3061	3062	3063	3064	3065
##	4.134045e-01	6.208644e-01	-4.025541e-01	2.685270e-01	2.254240e-01
##	3066	3067	3068	3069	3070
##	2.962052e-01	4.871633e-02	-2.739553e-02	1.261159e-01	1.917479e-01
##	3071	3072	3073	3074	3075
##	1.960304e-01	-7.358799e-01	-3.941144e-03	-2.370321e-01	-5.408413e-01
##	3076	3077	3078	3079	3080
##	3.851536e-01	-4.307108e-01	9.568044e-03	-1.365325e-02	1.786010e-01
##	3081	3082	3083	3084	3085

##	-2.812930e-01	5.350918e-01	-3.157613e-01	-1.330455e-02	-1.275256e-01
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##	3091	3092	3093	3094	3095
##	5.383174e-01	5.648289e-02	1.670369e-01	-5.380447e-01	1.089764e-01
##	3096	3097	3098	3099	3100
##	3.337150e-01	2.616970e-01	-7.822514e-01	-7.166936e-01	6.533115e-01
##	3101	3102	3103	3104	3105
##	1.684340e-01	-4.509515e-02	-5.816610e-03	2.190729e-01	3.316419e-02
##	3106	3107	3108	3109	3110
##	1.880527e-01	-8.687619e-01	-3.888176e-03	5.408101e-01	3.661963e-01
##	3111	3112	3113	3114	3115
##	-4.391792e-01	3.026277e-01	1.671392e-01	1.430398e-02	-4.168561e-01
##	3116	3117	3118	3119	3120
##	3.145823e-03	-6.748501e-01	-2.433311e-02	5.031568e-01	-1.735241e-01
##	3121	3122	3123	3124	3125
##	1.752256e-01	1.290487e-01	-6.646367e-01	1.419138e-01	1.789186e-01
##	3126	3127	3128	3129	3130
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##	3131	3132	3133	3134	3135
##	-4.852338e-01	-4.832263e-01	3.154644e-01	-5.941734e-01	-6.913203e-01
##	3136	3137	3138	3139	3140
##	4.752320e-01	-3.885884e-01	-8.106930e-01	3.341265e-01	1.698787e-01
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##	-4.410502e-01	-4.063603e-01	5.148001e-01	2.334280e-01	3.176069e-01
##	3146	3147	3148	3149	3150
##	3.996221e-01	3.979158e-01	3.255393e-01	2.554767e-01	5.460110e-01
##	3151	3152	3153	3154	3155
##	4.937189e-02	1.245288e-01	-6.766449e-01	-6.704154e-01	8.029799e-01
##	3156	3157	3158	3159	3160
##	-1.315707e-01	1.055618e-01	4.298488e-01	4.636255e-01	4.892728e-01
##	3161	3162	3163	3164	3165
##	6.740165e-02	2.173197e-01	-1.006328e-01	6.278452e-02	4.095096e-02
##	3166	3167	3168	3169	3170
##	4.802528e-01	9.520419e-02	-4.877607e-01	1.071168e-01	2.687102e-01
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##	1.891324e-01	-4.526924e-02	2.776262e-01	-4.438006e-01	-2.344538e-02
##	3181	3182	3183	3184	3185
##	-5.527694e-01	-8.103243e-02	3.945895e-01	-6.798256e-01	1.344940e-01
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##	1.927024e-02	4.174996e-01	-2.242146e-02	7.526094e-02	-6.603921e-01
##	3191	3192	3193	3194	3195
##	4.864893e-01	1.478311e-01	-6.936722e-01	4.208128e-01	-5.626281e-02
##	3196	3197	3198	3199	3200
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##	3201	3202	3203	3204	3205
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##	-6.374512e-02	9.342198e-02	3.482412e-01	1.216968e-01	3.395519e-01
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##	3.989047e-01	-6.625555e-01	2.455957e-01	7.693878e-02	7.752963e-02
##	3216	3217	3218	3219	3220
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##	3221	3222	3223	3224	3225
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##	3236	3237	3238	3239	3240
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##	1.788555e-01	-5.164793e-01	2.276483e-01	4.368969e-01	6.379274e-01
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##	1.505674e-01	-1.191341e-01	5.438474e-01	4.308180e-01	5.180017e-01
##	3256	3257	3258	3259	3260
##	-6.626797e-01	-1.285965e-01	-5.802233e-01	1.275061e-01	5.197106e-01
##	3261	3262	3263	3264	3265
##	-5.668566e-01	-1.293604e-01	8.277674e-04	2.819536e-01	1.603658e-03
##	3266	3267	3268	3269	3270
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##	7.798608e-02	-3.663908e-01	9.543270e-02	1.030237e-02	7.556350e-02
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##	3286	3287	3288	3289	3290
##	3.274397e-01	1.184380e-01	5.187595e-01	4.726790e-01	-4.218077e-01
##	3291	3292	3293	3294	3295
##	-1.961017e-01	2.858871e-01	6.740597e-02	1.868095e-01	7.999809e-02
##	3296	3297	3298	3299	3300
##	4.790329e-02	-3.535857e-01	-5.116857e-01	-4.577112e-01	1.531215e-01
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##	5.214348e-01	4.912635e-01	6.820671e-02	1.297766e-01	6.906385e-02
##	3306	3307	3308	3309	3310
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##	3311	3312	3313	3314	3315
##	1.959977e-01	1.942919e-01	-9.581864e-02	-6.425453e-01	-5.358321e-01
##	3316	3317	3318	3319	3320
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##	3326	3327	3328	3329	3330
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##	3346	3347	3348	3349	3350
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##	7.783972e-02	-6.699744e-01	9.308377e-02	-4.366511e-01	5.491564e-02
##	3361	3362	3363	3364	3365
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##	3366	3367	3368	3369	3370
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##	3371	3372	3373	3374	3375
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##	3381	3382	3383	3384	3385
##	6.086680e-02	1.825109e-01	6.052064e-02	6.075695e-01	-1.581979e-02
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##	1.755078e-01	1.214940e-01	1.746533e-01	1.842352e-01	1.296841e-01
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##	1.193821e-01	-6.656203e-02	1.646693e-01	1.734980e-01	5.368117e-01
##	3396	3397	3398	3399	3400
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##	7.441862e-02	1.324461e-02	-6.781806e-01	8.753859e-02	-6.239511e-01
##	3406	3407	3408	3409	3410
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##	3411	3412	3413	3414	3415
##	3.848686e-01	2.214258e-01	2.401229e-01	4.918011e-02	2.963338e-01
##	3416	3417	3418	3419	3420
##	-4.075537e-02	-4.834674e-03	-7.165120e-01	-3.487386e-01	3.768486e-01
##	3421	3422	3423	3424	3425
##	-4.061894e-01	6.406938e-01	-6.449926e-01	-3.537815e-02	1.227092e-01
##	3426	3427	3428	3429	3430
##	-3.827012e-01	-7.700877e-02	1.998683e-01	2.100016e-01	5.909991e-01
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##	1.052097e-01	2.171312e-01	-3.417462e-01	-8.211691e-01	-1.022899e-01
##	3436	3437	3438	3439	3440
##	1.168228e-01	4.458907e-01	2.329626e-01	1.701590e-01	3.367589e-01
##	3441	3442	3443	3444	3445
##	2.186448e-01	3.199067e-01	-6.810693e-01	2.864569e-01	2.651817e-01
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##	3451	3452	3453	3454	3455
##	-1.450424e-02	2.413485e-01	-4.655624e-01	1.095052e-01	3.240911e-01
##	3456	3457	3458	3459	3460

##	1.362430e-02	-3.145637e-01	4.359489e-01	4.317784e-01	3.933392e-01
##	3461	3462	3463	3464	3465
##	-3.235359e-02	-2.545829e-01	1.663888e-01	6.841231e-01	2.947104e-01
##	3466	3467	3468	3469	3470
##	6.584268e-02	3.589769e-01	-5.928234e-01	2.182067e-01	1.297429e-01
##	3471	3472	3473	3474	3475
##	2.824679e-01	5.582217e-01	3.372239e-01	-5.992469e-01	-9.872783e-02
##	3476	3477	3478	3479	3480
##	4.046144e-01	3.113303e-01	4.143147e-01	4.227018e-01	-3.705435e-01
##	3481	3482	3483	3484	3485
##	2.215889e-01	-7.603149e-02	4.356823e-01	2.398040e-01	-6.501224e-01
##	3486	3487	3488	3489	3490
##	1.067628e-01	3.652193e-01	3.921050e-01	-3.675767e-01	-2.923083e-01
##	3491	3492	3493	3494	3495
##	3.324353e-01	6.398453e-01	-6.896107e-01	-7.985639e-01	2.660313e-01
##	3496	3497	3498	3499	3500
##	-1.097278e-02	2.451859e-01	1.884510e-01	-1.234195e-01	4.129307e-01
##	3501	3502	3503	3504	3505
##	4.827182e-01	1.808719e-01	8.432281e-03	4.067128e-01	6.230521e-01
##	3506	3507	3508	3509	3510
##	9.745019e-03	8.652965e-02	1.227203e-01	1.176793e-01	2.503930e-01
##	3511	3512	3513	3514	3515
##	-6.205093e-01	-9.836194e-01	1.867046e-01	5.059429e-01	1.530595e-01
##	3516	3517	3518	3519	3520
##	-4.527497e-02	1.432035e-02	-4.870622e-02	-3.015551e-01	-5.859074e-01
##	3521	3522	3523	3524	3525
##	-6.191318e-01	-3.619320e-01	-8.029821e-01	6.313029e-01	3.794727e-01
##	3526	3527	3528	3529	3530
##	9.205117e-02	-6.138881e-01	1.764647e-01	-8.148042e-01	1.202987e-01
##	3531	3532	3533	3534	3535
##	6.417819e-01	1.510613e-01	-1.309321e-01	-6.235318e-01	-6.598253e-02
##	3536	3537	3538	3539	3540
##	1.967816e-01	1.611663e-01	-7.166528e-02	-5.710216e-01	4.567970e-01
##	3541	3542	3543	3544	3545
##	-1.182588e-01	-8.948470e-02	6.341341e-02	-1.465938e-01	-5.482941e-01
##	3546	3547	3548	3549	3550
##	-3.695732e-01	7.249495e-02	-4.556672e-02	5.523074e-01	-4.036672e-01
##	3551	3552	3553	3554	3555
##	1.084946e-01	3.586735e-01	4.445743e-01	2.158272e-02	3.267500e-01
##	3556	3557	3558	3559	3560
##	-5.427511e-01	-2.850482e-01	5.264498e-01	1.958600e-01	-6.133861e-01
##	3561	3562	3563	3564	3565
##	1.162756e-01	-5.291325e-01	4.883226e-01	1.057579e-01	4.763689e-02
##	3566	3567	3568	3569	3570
##	3.100924e-01	5.178382e-01	1.236839e-01	2.476685e-01	2.570144e-01
##	3571	3572	3573	3574	3575
##	1.770332e-03	-8.330966e-01	1.498477e-01	4.051985e-01	-6.169417e-01
##	3576	3577	3578	3579	3580
##	-1.884630e-01	6.485408e-01	1.768891e-01	5.086698e-01	2.973620e-01
##	3581	3582	3583	3584	3585

##	-7.379652e-01	-2.664604e-01	4.370547e-01	2.852393e-01	4.946565e-02
##	3586	3587	3588	3589	3590
##	-5.263968e-01	-5.915711e-01	-4.328084e-01	4.040004e-01	-3.687921e-01
##	3591	3592	3593	3594	3595
##	-7.259928e-01	4.973647e-01	4.091301e-01	7.893606e-02	-6.406422e-01
##	3596	3597	3598	3599	3600
##	1.111805e-02	1.892937e-01	-6.400428e-01	5.965180e-02	2.369826e-01
##	3601	3602	3603	3604	3605
##	2.643504e-01	1.539681e-01	-6.096094e-01	2.718842e-01	-3.191364e-01
##	3606	3607	3608	3609	3610
##	2.595920e-01	5.348437e-01	3.073771e-01	-3.326947e-02	-4.472114e-01
##	3611	3612	3613	3614	3615
##	9.223542e-02	-4.791488e-01	1.568429e-01	-2.181932e-01	3.232692e-01
##	3616	3617	3618	3619	3620
##	-5.819019e-01	-1.727007e-01	4.582619e-01	3.128303e-01	-9.364799e-02
##	3621	3622	3623	3624	3625
##	1.877304e-01	1.132567e-01	3.023609e-01	1.472513e-01	-8.299981e-01
##	3626	3627	3628	3629	3630
##	-6.021138e-01	5.266882e-01	6.586824e-01	6.908289e-03	-4.906666e-02
##	3631	3632	3633	3634	3635
##	1.260568e-01	-8.289588e-01	-6.252150e-01	3.679618e-01	-4.360292e-01
##	3636	3637	3638	3639	3640
##	8.347794e-02	5.888984e-01	-6.518389e-03	2.655282e-02	1.670867e-01
##	3641	3642	3643	3644	3645
##	2.298004e-01	6.054132e-01	3.332414e-01	-8.206507e-02	5.513604e-02
##	3646	3647	3648	3649	3650
##	1.975653e-03	-5.590930e-01	1.498095e-01	4.100688e-01	8.437856e-02
##	3651	3652	3653	3654	3655
##	1.012161e-01	6.310226e-02	2.449171e-01	1.075151e-01	3.069531e-01
##	3656	3657	3658	3659	3660
##	2.838583e-01	-6.782543e-01	6.603217e-01	3.450331e-01	6.835329e-02
##	3661	3662	3663	3664	3665
##	-6.175183e-01	5.124207e-01	2.403812e-01	3.824369e-01	1.073804e-01
##	3666	3667	3668	3669	3670
##	-3.403570e-01	-7.473395e-01	-5.205959e-01	-6.407775e-01	1.984620e-01
##	3671	3672	3673	3674	3675
##	8.711570e-02	3.453130e-01	2.794044e-01	-7.581407e-01	-6.277330e-01
##	3676	3677	3678	3679	3680
##	-4.883232e-01	-4.113941e-01	-1.737951e-01	4.194981e-01	1.283810e-01
##	3681	3682	3683	3684	3685
##	-4.012857e-01	-6.176772e-01	4.198297e-01	-3.420611e-01	-5.834797e-01
##	3686	3687	3688	3689	3690
##	1.876987e-01	4.405618e-01	1.758899e-01	-9.412542e-01	5.175413e-01
##	3691	3692	3693	3694	3695
##	-6.763678e-01	3.883893e-01	2.732289e-01	1.187102e-01	-8.452987e-01
##	3696	3697	3698	3699	3700
##	5.334114e-02	-4.580217e-01	1.026410e-01	-2.117427e-02	-1.230175e-01
##	3701	3702	3703	3704	3705
##	4.415387e-01	-1.243836e-01	8.050889e-02	4.223624e-01	1.025983e-01
##	3706	3707	3708	3709	3710

##	1.051273e-02	4.419429e-02	-5.498252e-01	-1.249072e-01	6.343524e-01
##	3711	3712	3713	3714	3715
##	-2.990878e-01	2.081144e-01	3.452177e-01	4.735558e-02	9.002124e-02
##	3716	3717	3718	3719	3720
##	-8.030345e-01	9.532792e-02	1.299769e-01	-1.689298e-02	-3.869931e-01
##	3721	3722	3723	3724	3725
##	-4.529358e-01	-2.278370e-01	-3.809679e-02	-2.318465e-02	-6.546295e-01
##	3726	3727	3728	3729	3730
##	5.881540e-01	1.741375e-01	7.233248e-02	1.136146e-01	7.060766e-01
##	3731	3732	3733	3734	3735
##	1.623489e-01	-5.415121e-01	3.464416e-01	1.288919e-01	5.843452e-01
##	3736	3737	3738	3739	3740
##	-5.048971e-02	3.103882e-01	-7.474667e-01	3.291637e-01	-3.538772e-01
##	3741	3742	3743	3744	3745
##	-4.068446e-01	3.499820e-01	1.365806e-02	-1.956322e-01	3.438100e-01
##	3746	3747	3748	3749	3750
##	2.036211e-01	-5.833990e-02	3.309532e-01	1.911658e-01	-3.548507e-01
##	3751	3752	3753	3754	3755
##	-5.609995e-01	6.041190e-02	2.800884e-01	-3.438684e-01	5.606835e-01
##	3756	3757	3758	3759	3760
##	-2.999962e-02	3.921212e-01	-3.603817e-01	1.771317e-01	2.453733e-01
##	3761	3762	3763	3764	3765
##	-5.993458e-01	3.023026e-02	3.100021e-01	1.638073e-01	-6.393377e-02
##	3766	3767	3768	3769	3770
##	-3.549733e-01	-3.423722e-01	-6.017945e-01	2.496217e-01	-4.756257e-01
##	3771	3772	3773	3774	3775
##	2.418800e-01	-6.388740e-02	3.884765e-01	-1.109051e+00	-2.360685e-02
##	3776	3777	3778	3779	3780
##	6.793302e-02	6.205930e-01	2.907429e-01	-4.072969e-01	-2.992418e-01
##	3781	3782	3783	3784	3785
##	4.831583e-01	2.689022e-01	-9.742534e-01	1.680308e-01	-8.749547e-01
##	3786	3787	3788	3789	3790
##	5.612731e-01	-3.854681e-01	1.745954e-01	3.519000e-01	6.014150e-01
##	3791	3792	3793	3794	3795
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##	3796	3797	3798	3799	3800
##	-4.637804e-01	1.907940e-01	-8.406178e-01	5.326610e-01	-3.422938e-01
##	3801	3802	3803	3804	3805
##	5.249008e-01	-4.193334e-01	1.621777e-01	1.156528e-03	3.238034e-01
##	3806	3807	3808	3809	3810
##	2.902751e-01	1.282810e-01	1.521273e-01	-1.011236e-01	-3.570763e-01
##	3811	3812	3813	3814	3815
##	9.137724e-02	-2.940994e-02	1.260396e-01	1.772376e-01	1.344065e-01
##	3816	3817	3818	3819	3820
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##	3821	3822	3823	3824	3825
##	1.528905e-01	-9.205050e-02	-4.819860e-01	-2.672250e-01	-4.876096e-01
##	3826	3827	3828	3829	3830
##	1.606969e-01	4.441136e-01	-9.085498e-01	6.387698e-02	-1.349162e-02
##	3831	3832	3833	3834	3835

##	-4.253257e-01	5.856628e-01	1.357780e-01	1.147815e-02	-4.546254e-01
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##	5.511131e-01	-3.890387e-01	-7.935903e-01	-4.334405e-01	3.540594e-01
##	3841	3842	3843	3844	3845
##	2.011518e-01	3.320293e-01	-8.155684e-01	-1.462775e-02	1.253100e-02
##	3846	3847	3848	3849	3850
##	2.150814e-01	3.326855e-01	2.724762e-01	4.399721e-02	2.590286e-01
##	3851	3852	3853	3854	3855
##	1.617115e-01	5.047680e-02	2.828144e-01	3.479920e-01	3.519929e-01
##	3856	3857	3858	3859	3860
##	-6.100051e-02	6.181071e-01	-4.413437e-01	2.230715e-01	9.709920e-02
##	3861	3862	3863	3864	3865
##	2.553982e-01	-5.750035e-01	3.684116e-01	1.471367e-01	-2.526698e-01
##	3866	3867	3868	3869	3870
##	5.420480e-01	-2.447133e-02	3.621422e-01	-6.055625e-01	6.008968e-01
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##	-6.534173e-01	-1.995198e-02	-6.450997e-01	3.103805e-01	-1.741553e-01
##	3876	3877	3878	3879	3880
##	3.785123e-01	5.370330e-01	5.468705e-01	6.480559e-01	1.970187e-01
##	3881	3882	3883	3884	3885
##	-5.291228e-01	-3.997271e-01	9.461685e-02	-8.851862e-01	1.246052e-01
##	3886	3887	3888	3889	3890
##	1.334542e-01	4.234833e-01	2.104152e-02	-5.064438e-02	3.221458e-02
##	3891	3892	3893	3894	3895
##	-1.278529e-02	5.817514e-02	3.689099e-01	3.447920e-02	1.042937e-01
##	3896	3897	3898	3899	3900
##	3.417563e-01	2.252741e-01	8.737057e-02	-5.677965e-01	-4.014891e-01
##	3901	3902	3903	3904	3905
##	4.362515e-01	1.475009e-01	5.895337e-02	-5.764523e-01	-7.806084e-01
##	3906	3907	3908	3909	3910
##	3.364174e-02	-6.535624e-02	4.360239e-02	1.673278e-01	5.247337e-01
##	3911	3912	3913	3914	3915
##	-4.115755e-01	-4.297442e-01	-2.839860e-01	7.915590e-02	2.385851e-01
##	3916	3917	3918	3919	3920
##	3.906506e-01	-3.325298e-01	-6.453931e-01	1.849224e-01	3.322820e-01
##	3921	3922	3923	3924	3925
##	-7.736406e-01	5.963092e-01	1.222044e-01	1.077091e-01	2.189157e-01
##	3926	3927	3928	3929	3930
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##	2.230276e-01	3.085191e-01	-4.269584e-01	3.676347e-01	1.793073e-01
##	3936	3937	3938	3939	3940
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##	3941	3942	3943	3944	3945
##	2.730070e-01	2.301127e-01	2.854017e-01	-4.909969e-01	-1.480365e-01
##	3946	3947	3948	3949	3950
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##	3951	3952	3953	3954	3955
##	2.254071e-01	-4.553402e-01	1.216429e-01	3.783043e-01	4.008782e-01
##	3956	3957	3958	3959	3960

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##	1.463147e-01	1.657020e-01	2.188955e-01	-3.516574e-01	-5.731095e-01
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##	4.056883e-02	6.618620e-01	-1.465970e-02	-4.425264e-01	6.748913e-01
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##	3981	3982	3983	3984	3985
##	-3.861487e-01	4.759745e-02	3.811350e-01	6.454459e-01	-3.872600e-01
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##	3991	3992	3993	3994	3995
##	3.736883e-02	7.331593e-02	-3.584760e-01	5.496444e-01	2.437769e-01
##	3996	3997	3998	3999	4000
##	-1.455499e-01	1.193588e-02	-1.540221e-01	-7.062963e-01	-7.503212e-02
##	4001	4002	4003	4004	4005
##	-1.561708e-02	2.062900e-01	-8.162515e-02	1.977185e-01	7.546808e-02
##	4006	4007	4008	4009	4010
##	-6.612445e-01	4.058064e-01	2.916675e-01	1.657185e-01	3.636873e-01
##	4011	4012	4013	4014	4015
##	1.835923e-01	2.322154e-01	-3.346318e-01	2.397723e-02	-7.733909e-01
##	4016	4017	4018	4019	4020
##	1.636248e-01	1.134805e-02	3.550565e-01	-4.444492e-01	-1.454742e-02
##	4021	4022	4023	4024	4025
##	-6.187456e-01	-3.602131e-02	-6.751221e-02	3.205392e-01	7.198921e-02
##	4026	4027	4028	4029	4030
##	2.545977e-01	-1.501726e-01	2.803822e-01	2.675347e-01	1.764736e-01
##	4031	4032	4033	4034	4035
##	-2.538519e-02	-4.083638e-02	7.215867e-01	6.927979e-02	1.178319e-01
##	4036	4037	4038	4039	4040
##	3.734430e-01	1.289585e-01	-1.954191e-02	-4.665827e-01	2.918857e-01
##	4041	4042	4043	4044	4045
##	1.532336e-01	7.254860e-03	3.624058e-01	4.050376e-01	1.766226e-01
##	4046	4047	4048	4049	4050
##	-5.637070e-01	3.245456e-01	4.462007e-01	6.548620e-02	-4.688615e-01
##	4051	4052	4053	4054	4055
##	-6.814293e-02	-6.567513e-01	-5.462826e-01	7.225382e-02	2.282297e-01
##	4056	4057	4058	4059	4060
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##	4061	4062	4063	4064	4065
##	-1.061988e-01	1.415164e-01	3.684110e-02	4.027922e-01	3.760777e-01
##	4066	4067	4068	4069	4070
##	6.536280e-01	-7.021822e-01	-5.843151e-01	1.978432e-01	6.743453e-02
##	4071	4072	4073	4074	4075
##	7.210912e-01	-8.689299e-01	5.341606e-01	7.337048e-02	-4.037261e-01
##	4076	4077	4078	4079	4080
##	-9.229510e-01	-6.535065e-01	-4.087799e-01	2.857728e-01	-1.557175e-01
##	4081	4082	4083	4084	4085

##	2.249556e-01	-4.389605e-01	-3.890951e-01	2.822337e-01	3.319390e-01
##	4086	4087	4088	4089	4090
##	2.469250e-01	5.007888e-01	4.820457e-01	5.003011e-01	4.527990e-01
##	4091	4092	4093	4094	4095
##	1.779249e-01	-7.573972e-01	2.997575e-01	-3.596902e-02	3.587697e-01
##	4096	4097	4098	4099	4100
##	3.002677e-01	1.470120e-01	3.342367e-01	4.266004e-02	-3.361602e-01
##	4101	4102	4103	4104	4105
##	7.576210e-02	6.489642e-02	-5.676470e-01	-1.659569e-01	2.236040e-01
##	4106	4107	4108	4109	4110
##	2.362597e-01	9.163825e-02	-4.945630e-02	1.399270e-02	5.279693e-02
##	4111	4112	4113	4114	4115
##	8.027146e-02	3.056038e-01	1.029479e-01	3.714568e-01	-4.231265e-01
##	4116	4117	4118	4119	4120
##	-9.331304e-02	4.232102e-01	7.087953e-01	2.698476e-01	1.515361e-01
##	4121	4122	4123	4124	4125
##	2.512493e-02	-7.329618e-01	4.241739e-01	2.915150e-01	-7.530750e-01
##	4126	4127	4128	4129	4130
##	-6.034134e-01	3.143077e-01	3.550319e-01	1.220916e-01	6.070722e-04
##	4131	4132	4133	4134	4135
##	1.785717e-01	-3.454252e-01	5.476483e-01	-7.709380e-01	4.109893e-01
##	4136	4137	4138	4139	4140
##	-1.298761e-01	-4.301708e-01	5.168286e-01	1.907870e-01	-5.283798e-01
##	4141	4142	4143	4144	4145
##	-2.235767e-02	9.717992e-02	-9.043662e-01	7.177457e-01	3.294956e-01
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##	-9.708076e-02	7.687743e-02	-3.746290e-01	6.499526e-02	2.392570e-01
##	4151	4152	4153	4154	4155
##	3.030925e-01	3.061384e-02	2.522737e-01	1.591803e-01	3.974550e-01
##	4156	4157	4158	4159	4160
##	-1.001387e-01	-2.932020e-02	8.101883e-03	5.957525e-01	9.964778e-02
##	4161	4162	4163	4164	4165
##	1.924881e-01	8.245236e-02	-3.937400e-01	-5.749027e-02	-7.887379e-01
##	4166	4167	4168	4169	4170
##	1.910268e-01	6.592527e-01	-7.941160e-01	-3.426673e-02	5.570953e-02
##	4171	4172	4173	4174	4175
##	2.558913e-01	-4.323387e-02	6.271075e-01	-5.683681e-01	3.643946e-01
##	4176	4177	4178	4179	4180
##	-4.820714e-01	2.843666e-01	-3.347544e-01	1.921384e-01	1.547765e-01
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##	-2.939109e-02	-4.386904e-01	-1.042640e-01	-4.662661e-01	2.330557e-01
##	4186	4187	4188	4189	4190
##	6.884111e-02	1.484586e-01	2.952171e-03	2.333403e-01	-6.626180e-02
##	4191	4192	4193	4194	4195
##	5.662867e-01	-1.716942e-02	-7.204689e-01	-1.180080e-02	-1.336129e-01
##	4196	4197	4198	4199	4200
##	9.943322e-02	1.144104e-01	6.655294e-01	2.126481e-01	-1.249912e-02
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##	2.957222e-01	9.660532e-02	8.573053e-02	1.993298e-01	-3.890770e-01
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##	6.371597e-01	2.610211e-01	2.183632e-01	-2.058057e-02	1.699680e-01
##	4216	4217	4218	4219	4220
##	1.638994e-01	5.942121e-01	-8.180919e-02	1.754761e-01	-3.457801e-01
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##	-3.933130e-01	1.314115e-01	1.038160e-01	1.187228e-01	1.787513e-01
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##	1.928856e-01	1.227917e-01	-5.322021e-02	-8.819957e-02	9.255207e-02
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##	3.936039e-01	5.472196e-01	-5.905918e-01	-5.291666e-01	-1.342495e-02
##	4251	4252	4253	4254	4255
##	3.020326e-01	-6.421399e-01	-7.633413e-01	1.002507e-01	3.455927e-02
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##	-1.040498e-01	2.945023e-01	-5.750831e-01	-8.674378e-02	5.667647e-02
##	4266	4267	4268	4269	4270
##	-9.572471e-01	-5.761932e-01	-1.697082e-03	3.102940e-01	-6.152238e-01
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##	2.391586e-01	3.108516e-01	1.908813e-01	-6.289375e-02	1.975986e-01
##	4276	4277	4278	4279	4280
##	2.925248e-01	6.327259e-01	5.236203e-01	-3.117716e-02	5.956371e-01
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##	4311	4312	4313	4314	4315
##	1.616032e-01	7.736328e-02	1.333715e-01	-4.781401e-02	6.187762e-01
##	4316	4317	4318	4319	4320
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##	4321	4322	4323	4324	4325
##	5.741206e-01	4.154817e-01	-5.254664e-01	-5.444753e-01	-6.882126e-02
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##	-7.545723e-02	3.272859e-01	4.488720e-01	6.033789e-01	8.059794e-02
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##	5.861147e-02	-3.245943e-01	8.973364e-02	-2.100774e-02	1.326625e-01
##	4341	4342	4343	4344	4345
##	2.258242e-01	-7.616256e-01	-3.451843e-01	2.631051e-01	1.805393e-01
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##	1.589648e-01	-4.063071e-01	-2.435666e-02	3.951758e-01	1.805415e-01
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##	1.446327e-01	3.854631e-01	5.893995e-01	4.638977e-01	8.749932e-02
##	4356	4357	4358	4359	4360
##	1.038967e-02	3.645578e-01	-6.147861e-02	9.835534e-03	4.969428e-01
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##	1.244971e-01	-3.356518e-01	-6.224409e-01	2.088630e-01	1.216921e-01
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##	1.966244e-01	6.401677e-02	-8.125457e-02	8.760426e-02	2.999171e-01
##	4371	4372	4373	4374	4375
##	5.305030e-01	8.541323e-03	1.939689e-01	-5.488600e-01	4.497625e-01
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##	6.035373e-02	5.074338e-01	1.436417e-01	3.477714e-01	1.626712e-01
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##	-8.036095e-02	1.088801e-01	3.983224e-01	3.476332e-01	-8.104591e-01
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##	4411	4412	4413	4414	4415
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##	4416	4417	4418	4419	4420
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##	4421	4422	4423	4424	4425
##	-5.047210e-01	-1.979978e-01	5.219808e-02	5.096042e-01	1.029995e-01
##	4426	4427	4428	4429	4430
##	6.469619e-01	4.462023e-01	5.342580e-01	2.122761e-01	2.236479e-01
##	4431	4432	4433	4434	4435
##	4.680551e-02	5.049235e-02	1.542174e-01	-9.980994e-03	-3.708860e-01
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##	6.241702e-01	8.268009e-02	1.780846e-01	-7.985639e-01	1.799074e-01
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##	4506	4507	4508	4509	4510
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##	4511	4512	4513	4514	4515
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##	4516	4517	4518	4519	4520
##	4.963409e-01	-5.147335e-01	3.545641e-01	4.581300e-01	-7.686209e-01
##	4521	4522	4523	4524	4525
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##	4546	4547	4548	4549	4550
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##	4556	4557	4558	4559	4560
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##	4561	4562	4563	4564	4565
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##	4581	4582	4583	4584	4585

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##	4586	4587	4588	4589	4590
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##	4596	4597	4598	4599	4600
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##	1.785482e-01	2.340859e-01	-9.619135e-01	-1.088379e-02	1.489792e-02
##	4606	4607	4608	4609	4610
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##	4616	4617	4618	4619	4620
##	2.888242e-01	-3.420807e-01	5.829092e-01	3.575199e-01	1.400036e-01
##	4621	4622	4623	4624	4625
##	1.723079e-01	2.062724e-01	2.337459e-01	-2.998424e-01	-8.315196e-01
##	4626	4627	4628	4629	4630
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##	4631	4632	4633	4634	4635
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##	4636	4637	4638	4639	4640
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##	5.920348e-01	2.077851e-02	1.367900e-01	-5.243677e-01	1.234262e-01
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##	3.284341e-01	1.437670e-01	-8.112743e-01	-1.228323e-01	9.582653e-02
##	4656	4657	4658	4659	4660
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##	3.796119e-01	-2.820829e-02	1.211001e-01	-4.017188e-01	2.738203e-01
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##	6.091078e-01	-9.189476e-01	2.737859e-01	3.584889e-02	-4.324805e-01
##	4681	4682	4683	4684	4685
##	2.748425e-01	1.825712e-01	2.502283e-01	-5.715825e-01	4.733476e-01
##	4686	4687	4688	4689	4690
##	-2.347506e-02	1.856789e-01	6.532198e-02	1.941726e-01	2.408635e-01
##	4691	4692	4693	4694	4695
##	-8.680564e-01	1.111791e-01	4.129555e-01	6.458902e-01	2.977477e-01
##	4696	4697	4698	4699	4700
##	-4.822278e-01	3.446990e-01	4.847366e-01	-5.926827e-01	2.629178e-01
##	4701	4702	4703	4704	4705
##	-4.229462e-02	3.504971e-01	1.966107e-01	6.409314e-02	2.563543e-01
##	4706	4707	4708	4709	4710

##	2.281710e-01	-6.279581e-02	-5.817600e-02	-8.190345e-02	3.337529e-01
##	4711	4712	4713	4714	4715
##	1.516061e-01	-5.008828e-01	1.982557e-01	-8.073472e-01	1.791538e-02
##	4716	4717	4718	4719	4720
##	-4.281435e-01	2.060302e-02	-6.282783e-01	2.788080e-02	-2.240990e-02
##	4721	4722	4723	4724	4725
##	1.528521e-02	1.081790e-01	5.035115e-01	7.741563e-02	-1.180792e-01
##	4726	4727	4728	4729	4730
##	4.526258e-01	-9.475410e-01	1.791626e-01	-9.695594e-02	1.302728e-03
##	4731	4732	4733	4734	4735
##	-3.322180e-01	5.208223e-01	-6.685234e-01	6.596051e-01	-3.526650e-02
##	4736	4737	4738	4739	4740
##	2.551750e-02	1.597713e-02	5.470200e-01	-3.400259e-01	3.404361e-02
##	4741	4742	4743	4744	4745
##	7.626478e-02	-6.771900e-01	2.383202e-01	-8.072008e-01	9.060965e-02
##	4746	4747	4748	4749	4750
##	-4.254084e-01	-5.552377e-02	4.683902e-01	1.305053e-01	-6.565736e-01
##	4751	4752	4753	4754	4755
##	-6.216988e-02	-3.557168e-01	-1.056159e-01	-8.854720e-02	4.114108e-01
##	4756	4757	4758	4759	4760
##	2.457086e-01	-6.036788e-01	2.276129e-01	8.023448e-03	1.091032e-01
##	4761	4762	4763	4764	4765
##	-7.217971e-02	2.680620e-02	1.153032e-01	-3.603319e-01	-1.379973e-01
##	4766	4767	4768	4769	4770
##	-7.084093e-01	2.946491e-01	-4.799714e-01	5.718158e-01	3.256053e-01
##	4771	4772	4773	4774	4775
##	1.264721e-02	6.089336e-01	5.093217e-01	-5.470308e-02	5.768264e-01
##	4776	4777	4778	4779	4780
##	4.307430e-03	2.417203e-01	-4.583441e-01	1.417098e-01	2.733715e-01
##	4781	4782	4783	4784	4785
##	4.864225e-02	-4.350842e-01	5.853968e-01	1.641868e-01	-6.945818e-01
##	4786	4787	4788	4789	4790
##	2.651996e-01	1.828858e-01	-1.002850e+00	2.580721e-01	-2.836276e-02
##	4791	4792	4793	4794	4795
##	5.001411e-01	1.737153e-01	-1.875114e-01	-1.957103e-01	1.399149e-01
##	4796	4797	4798	4799	4800
##	3.684753e-01	1.486881e-01	-1.382210e-02	2.263347e-02	2.781816e-01
##	4801	4802	4803	4804	4805
##	-3.489058e-02	2.255791e-01	-3.955780e-01	-5.938325e-01	-6.890516e-01
##	4806	4807	4808	4809	4810
##	3.675942e-01	-4.736060e-01	-6.526732e-01	1.406595e-02	1.940009e-01
##	4811	4812	4813	4814	4815
##	1.281109e-01	-1.084627e+00	2.869296e-02	1.833478e-01	-2.577688e-02
##	4816	4817	4818	4819	4820
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##	4821	4822	4823	4824	4825
##	1.582484e-01	3.447043e-01	3.677028e-02	2.141297e-01	8.715474e-02
##	4826	4827	4828	4829	4830
##	9.257901e-02	-7.664833e-02	2.521624e-01	2.276521e-01	-4.244136e-01
##	4831	4832	4833	4834	4835

##	1.583896e-01	-3.811888e-01	2.508135e-01	5.049874e-01	-6.346244e-01
##	4836	4837	4838	4839	4840
##	-1.231628e-01	8.432078e-03	1.281817e-01	4.912491e-01	-4.852368e-01
##	4841	4842	4843	4844	4845
##	-2.536906e-01	3.406799e-01	2.329016e-01	-3.579462e-01	-4.124245e-02
##	4846	4847	4848	4849	4850
##	1.802500e-01	2.877979e-01	4.076903e-02	-5.159964e-01	3.235781e-01
##	4851	4852	4853	4854	4855
##	-1.116740e-01	1.287344e-01	1.122063e-01	2.084464e-01	-3.988350e-01
##	4856	4857	4858	4859	4860
##	-6.236816e-02	1.342252e-01	3.561794e-01	4.511990e-01	4.899094e-01
##	4861	4862	4863	4864	4865
##	-4.831107e-01	5.625840e-01	6.223920e-02	5.469085e-02	-6.540879e-02
##	4866	4867	4868	4869	4870
##	1.729704e-01	-7.195328e-01	-6.940326e-01	-4.376557e-01	5.942465e-02
##	4871	4872	4873	4874	4875
##	3.581776e-01	2.133784e-01	-2.536262e-02	3.388287e-01	-1.880813e-02
##	4876	4877	4878	4879	4880
##	-5.455614e-01	4.093016e-01	1.250742e-01	1.332228e-01	7.446536e-02
##	4881	4882	4883	4884	4885
##	2.973160e-01	1.979083e-01	2.448626e-01	4.525464e-01	6.391807e-01
##	4886	4887	4888	4889	4890
##	-6.487113e-01	1.974909e-01	2.661216e-01	3.039420e-01	2.985159e-01
##	4891	4892	4893	4894	4895
##	-6.143301e-01	-4.793671e-01	-4.513477e-01	-4.215907e-01	1.386096e-01
##	4896	4897	4898	4899	4900
##	-3.225616e-01	4.820806e-01	-1.836014e-02	5.198890e-02	-4.074970e-02
##	4901	4902	4903	4904	4905
##	-3.940248e-01	-2.140593e-02	-8.960706e-01	-8.740839e-03	-5.050269e-01
##	4906	4907	4908	4909	4910
##	8.485949e-02	-1.583007e-01	3.217694e-01	5.812078e-01	1.538016e-01
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##	-7.502620e-02	-3.035380e-02	-1.239937e-01	4.342416e-01	3.034000e-02
##	4916	4917	4918	4919	4920
##	1.176426e-01	-4.984015e-01	1.545033e-01	-6.334952e-02	1.922124e-02
##	4921	4922	4923	4924	4925
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##	4926	4927	4928	4929	4930
##	4.258727e-01	1.030843e-01	1.083428e-01	3.197399e-01	1.126147e-01
##	4931	4932	4933	4934	4935
##	-5.354971e-01	1.826152e-01	5.987612e-01	-7.657114e-01	-5.702637e-01
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##	4941	4942	4943	4944	4945
##	3.920436e-01	-4.731591e-01	-3.081405e-01	5.949566e-01	5.817032e-01
##	4946	4947	4948	4949	4950
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##	4951	4952	4953	4954	4955
##	2.604938e-01	-7.916145e-01	-5.015155e-01	3.149195e-01	2.916412e-01
##	4956	4957	4958	4959	4960

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##	4961	4962	4963	4964	4965
##	1.592271e-01	1.685696e-01	3.632427e-01	1.940649e-01	-5.782588e-02
##	4966	4967	4968	4969	4970
##	5.443981e-01	-6.243329e-01	1.434959e-01	1.260560e-01	1.046716e-01
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##	4976	4977	4978	4979	4980
##	-6.240979e-01	6.038974e-02	-1.001068e-01	5.282983e-01	-6.667170e-02
##	4981	4982	4983	4984	4985
##	8.299749e-02	2.981466e-01	3.218300e-01	-8.038854e-01	2.494470e-01
##	4986	4987	4988	4989	4990
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##	4991	4992	4993	4994	4995
##	2.263754e-01	4.502803e-02	3.106076e-01	-7.500023e-01	4.983908e-02
##	4996	4997	4998	4999	5000
##	-4.281767e-01	2.451169e-01	-7.239709e-01	-6.451453e-01	1.280304e-01
##	5001	5002	5003	5004	5005
##	7.754263e-02	2.130966e-02	1.102980e-02	4.102071e-01	1.665017e-01
##	5006	5007	5008	5009	5010
##	4.503428e-01	2.331973e-01	2.583338e-01	-8.332680e-01	1.475832e-01
##	5011	5012	5013	5014	5015
##	-1.203476e-01	7.415982e-01	5.036690e-02	3.689207e-01	-1.088260e-01
##	5016	5017	5018	5019	5020
##	-3.985214e-01	-4.124509e-02	5.472987e-01	1.016201e-01	-3.361565e-01
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##	-1.353819e-02	3.118549e-01	-3.980877e-01	5.698872e-01	6.234187e-01
##	5026	5027	5028	5029	5030
##	2.406050e-01	1.899308e-01	4.800706e-01	-3.283582e-01	-3.442109e-01
##	5031	5032	5033	5034	5035
##	1.733969e-01	-3.031992e-01	4.648924e-01	1.021462e-01	7.735046e-02
##	5036	5037	5038	5039	5040
##	-3.993312e-01	4.378332e-01	3.459169e-01	3.622002e-01	4.320300e-01
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##	2.908570e-01	-7.768788e-01	-8.381281e-01	2.836456e-01	3.079396e-01
##	5046	5047	5048	5049	5050
##	5.232597e-01	-9.960208e-03	5.384835e-02	-1.244308e-01	6.142556e-01
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##	2.225791e-01	-4.919840e-01	3.222740e-01	4.792381e-02	-7.208293e-01
##	5056	5057	5058	5059	5060
##	-4.714096e-01	-6.520523e-01	1.876722e-01	1.786130e-01	1.286653e-01
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##	3.846161e-01	-1.883765e-02	4.012376e-01	-5.752108e-01	6.939591e-02
##	5071	5072	5073	5074	5075
##	7.182760e-02	5.001051e-01	1.563434e-01	-5.076669e-02	7.370619e-02
##	5076	5077	5078	5079	5080
##	1.198414e-01	5.436539e-02	3.032697e-01	-9.274191e-01	1.962707e-01
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##	-9.704718e-02	3.962776e-01	-3.580361e-01	-6.050354e-01	1.591055e-01
##	5086	5087	5088	5089	5090
##	1.252358e-01	8.134910e-02	7.949319e-02	-1.933563e-01	3.143893e-01
##	5091	5092	5093	5094	5095
##	-2.917184e-01	-8.712150e-01	-4.536548e-01	4.673582e-01	4.718884e-02
##	5096	5097	5098	5099	5100
##	3.453410e-01	6.498720e-02	-6.353261e-01	2.126714e-01	2.023261e-01
##	5101	5102	5103	5104	5105
##	2.481082e-01	-1.951717e-01	6.070758e-01	-6.715728e-01	-8.224448e-01
##	5106	5107	5108	5109	5110
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##	5111	5112	5113	5114	5115
##	3.417387e-01	5.329210e-01	-7.460282e-01	2.546788e-01	2.089736e-01
##	5116	5117	5118	5119	5120
##	-4.537983e-01	2.337473e-02	-2.997588e-01	1.703912e-01	-9.055222e-01
##	5121	5122	5123	5124	5125
##	4.504180e-01	6.088147e-01	-6.374829e-01	-5.094968e-01	4.887611e-02
##	5126	5127	5128	5129	5130
##	-3.665669e-01	-3.943908e-01	1.850749e-01	6.891477e-01	2.829074e-01
##	5131	5132	5133	5134	5135
##	1.670289e-01	-3.868955e-03	7.045557e-01	2.253717e-01	6.617679e-02
##	5136	5137	5138	5139	5140
##	4.352967e-02	4.720004e-01	2.892948e-02	5.891428e-01	2.870052e-01
##	5141	5142	5143	5144	5145
##	1.145423e-01	-2.155924e-02	1.708996e-01	1.792845e-01	2.508401e-02
##	5146	5147	5148	5149	5150
##	4.784063e-01	-4.251402e-01	4.153698e-01	1.767424e-01	6.727511e-02
##	5151	5152	5153	5154	5155
##	-7.024828e-02	6.193113e-01	5.254852e-01	1.429570e-01	1.204070e-01
##	5156	5157	5158	5159	5160
##	2.877402e-01	3.707683e-01	-3.571644e-01	1.854596e-01	-6.084718e-02
##	5161	5162	5163	5164	5165
##	-3.868713e-01	2.190084e-01	1.921421e-01	3.037881e-01	-4.214959e-02
##	5166	5167	5168	5169	5170
##	3.141658e-01	-3.670966e-01	1.051114e-01	2.281548e-01	-4.526564e-01
##	5171	5172	5173	5174	5175
##	2.526545e-01	-5.555195e-01	-7.170106e-02	-1.142557e-01	1.599964e-01
##	5176	5177	5178	5179	5180
##	-5.188901e-01	8.066221e-02	1.871195e-02	-4.430565e-01	5.202483e-01
##	5181	5182	5183	5184	5185
##	5.828324e-01	3.851624e-01	6.272055e-01	1.915700e-01	-7.856006e-02
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##	5191	5192	5193	5194	5195
##	-6.622829e-01	2.897819e-01	2.032713e-01	1.688720e-01	1.187530e-01
##	5196	5197	5198	5199	5200
##	3.864118e-01	3.757602e-01	2.934424e-01	-5.732291e-02	-5.434610e-01
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##	5206	5207	5208	5209	5210

##	7.017176e-01	-4.733349e-01	-8.446455e-01	-8.301107e-01	2.731853e-01
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##	1.952552e-01	3.951530e-02	2.870079e-01	3.356780e-01	-3.246843e-02
##	5216	5217	5218	5219	5220
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##	-5.581841e-01	9.536475e-02	-2.947181e-01	1.681398e-01	-3.995437e-01
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##	3.343753e-01	5.594454e-01	2.762781e-01	2.585607e-01	1.242625e-01
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##	2.763896e-02	1.498550e-01	5.978554e-02	-4.212204e-01	4.523088e-01
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##	4.128652e-01	-6.492833e-02	-3.518839e-01	-4.015969e-01	1.226731e-01
##	5241	5242	5243	5244	5245
##	-9.175141e-02	6.417943e-01	-3.694901e-01	2.141531e-01	2.654540e-01
##	5246	5247	5248	5249	5250
##	-4.694780e-02	5.049697e-01	-8.003333e-01	-4.257264e-01	-8.474612e-01
##	5251	5252	5253	5254	5255
##	5.194882e-01	4.637729e-01	2.626213e-01	-1.133258e-02	2.516558e-01
##	5256	5257	5258	5259	5260
##	2.072234e-01	2.153945e-01	4.726630e-02	1.612593e-01	-1.302340e-01
##	5261	5262	5263	5264	5265
##	3.979465e-01	-8.607210e-01	3.831108e-01	-3.328869e-01	-1.175672e-01
##	5266	5267	5268	5269	5270
##	2.066424e-01	-6.506022e-01	-5.048703e-02	-3.751149e-01	2.470433e-01
##	5271	5272	5273	5274	5275
##	-7.891303e-02	2.658495e-01	-1.800487e-01	-2.366537e-01	1.957349e-01
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##	-4.555077e-01	-5.557664e-02	-5.003885e-01	1.792621e-01	-3.465618e-01
##	5281	5282	5283	5284	5285
##	1.495597e-01	-7.795399e-02	1.407525e-01	1.110350e-01	3.084257e-01
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##	8.332505e-02	3.148882e-01	7.356379e-02	-2.789651e-02	3.839216e-01
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##	-4.137105e-01	-3.579516e-01	-5.020112e-01	3.254308e-01	1.697004e-01
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##	5301	5302	5303	5304	5305
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##	-7.785739e-02	-5.958932e-01	3.036129e-01	-6.897813e-01	-3.017458e-04
##	5311	5312	5313	5314	5315
##	9.990215e-02	-6.189164e-02	6.323837e-02	2.440944e-01	2.665213e-01
##	5316	5317	5318	5319	5320
##	1.920319e-01	1.113243e-01	-8.262298e-01	6.132442e-03	2.743591e-02
##	5321	5322	5323	5324	5325
##	-6.079812e-01	-4.444216e-01	4.526813e-02	1.236183e-02	-4.495522e-01
##	5326	5327	5328	5329	5330
##	-7.927851e-01	1.204515e-01	1.841023e-01	2.204228e-01	1.145955e-01
##	5331	5332	5333	5334	5335

##	4.684078e-01	1.622659e-01	-2.872390e-01	-6.618924e-01	3.370362e-02
##	5336	5337	5338	5339	5340
##	-1.792230e-01	-5.813441e-01	-1.026682e-02	1.434750e-03	2.798029e-01
##	5341	5342	5343	5344	5345
##	3.385176e-03	-5.869574e-03	-4.435505e-01	4.715961e-01	3.201188e-01
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##	6.853606e-01	3.021781e-01	1.932061e-01	-5.649080e-02	1.405449e-01
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##	-5.973757e-01	-4.558027e-01	1.730080e-01	-6.963587e-02	-5.791063e-02
##	5356	5357	5358	5359	5360
##	-4.009506e-01	-1.080893e-01	-1.630640e-02	-6.529798e-02	-3.602898e-01
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##	1.081950e-01	5.799465e-01	-7.270129e-01	4.160253e-01	5.969816e-02
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##	3.034877e-01	-3.510577e-01	-5.309932e-01	8.254003e-02	-5.011229e-01
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##	4.530970e-01	-6.675557e-01	3.624731e-01	3.235971e-01	-8.321241e-01
##	5381	5382	5383	5384	5385
##	2.828704e-01	-2.644225e-01	4.389527e-01	-4.811177e-02	-3.962908e-01
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##	3.576569e-01	-3.670234e-01	7.416402e-02	-3.987333e-01	1.862457e-01
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##	5396	5397	5398	5399	5400
##	2.206035e-01	3.916692e-01	1.168146e-01	-1.991199e-01	-4.227873e-03
##	5401	5402	5403	5404	5405
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##	5416	5417	5418	5419	5420
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##	5421	5422	5423	5424	5425
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##	5436	5437	5438	5439	5440
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##	5446	5447	5448	5449	5450
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##	5451	5452	5453	5454	5455
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##	3.736216e-01	9.194398e-02	5.066185e-01	2.497342e-01	2.917229e-01
##	5466	5467	5468	5469	5470
##	7.127179e-01	-8.371958e-01	-3.157683e-01	-9.046089e-02	1.014843e-01
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##	1.377782e-01	3.588141e-01	-5.859631e-03	8.761400e-02	3.135752e-01
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##	3.344146e-01	2.935200e-01	2.301496e-01	-2.078865e-02	-2.646461e-01
##	5486	5487	5488	5489	5490
##	-4.908239e-01	-5.296584e-01	1.213217e-02	-7.450989e-01	-5.874358e-01
##	5491	5492	5493	5494	5495
##	-3.802152e-01	-1.350777e-01	3.325335e-01	-4.369960e-01	8.126511e-03
##	5496	5497	5498	5499	5500
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##	5551	5552	5553	5554	5555
##	3.942102e-01	1.191254e-01	1.878163e-01	3.065454e-01	1.874961e-01
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##	1.250708e-01	-5.753144e-01	2.562226e-03	1.676683e-01	2.429561e-01
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##	5616	5617	5618	5619	5620
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##	3.961513e-01	-8.212825e-01	-3.048516e-02	7.189555e-02	1.356726e-01
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##	1.835435e-01	4.622164e-02	-8.064046e-01	-8.574219e-01	-4.704742e-01
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##	5.169578e-01	4.782196e-01	2.460163e-01	-7.849602e-01	-1.688547e-02
##	5696	5697	5698	5699	5700
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##	5701	5702	5703	5704	5705
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##	1.268360e-01	-2.349873e-02	2.199308e-01	5.559113e-01	-1.225903e-01
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##	3.754459e-01	-4.117465e-01	-3.400266e-02	-2.869223e-02	2.223592e-01
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##	1.278736e-01	-7.912910e-01	1.943367e-01	1.031332e-02	3.850650e-01
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##	5.680396e-02	8.734193e-02	1.665211e-01	-5.067129e-02	1.231742e-01
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##	3.515118e-01	1.781441e-01	-1.226614e-01	-1.785011e-01	1.813537e-01
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##	2.824378e-02	3.513685e-01	2.963785e-01	-4.819922e-01	3.779214e-01
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##	1.155273e-01	4.399102e-01	1.434724e-01	3.994203e-01	-3.097039e-01
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##	1.076401e-01	-2.989579e-02	-6.968715e-03	2.336775e-01	-7.636027e-02
##	5911	5912	5913	5914	5915
##	-8.190363e-02	5.567795e-01	1.936325e-01	3.125804e-02	5.624222e-01
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##	-9.205876e-02	2.878987e-01	3.024454e-01	1.652150e-02	-9.799308e-02
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##	5926	5927	5928	5929	5930
##	-4.235652e-01	4.293803e-01	3.677121e-02	-2.777927e-01	4.732279e-01
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##	2.680585e-01	1.295281e-01	2.258759e-01	-4.921182e-01	-3.538367e-01
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##	-7.897356e-01	2.222311e-01	-1.009183e+00	-8.974682e-01	-9.260810e-02
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##	1.026675e-01	4.091596e-01	4.237721e-01	2.761008e-01	3.584423e-01
##	5946	5947	5948	5949	5950
##	2.617551e-01	-2.244132e-01	-4.796205e-01	-4.540206e-01	3.974908e-01
##	5951	5952	5953	5954	5955
##	-1.595165e-02	3.139129e-01	3.431036e-01	3.744229e-01	3.293437e-01
##	5956	5957	5958	5959	5960

##	-1.993788e-02	1.474996e-01	-6.461895e-01	-5.377490e-01	-6.295691e-01
##	5961	5962	5963	5964	5965
##	2.668868e-01	6.306755e-01	-1.116990e-01	-6.600759e-01	1.939076e-01
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##	1.783211e-01	-4.829868e-01	2.084375e-01	-6.450107e-02	2.676389e-01
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##	-5.763648e-02	1.935418e-01	3.917892e-02	1.082998e-01	4.485445e-01
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##	-3.605633e-01	1.485163e-02	6.338162e-01	8.961294e-02	3.650714e-02
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##	-5.762176e-01	6.790425e-02	6.514487e-02	-4.172122e-01	3.864419e-01
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##	6011	6012	6013	6014	6015
##	2.840451e-01	1.859811e-01	1.939920e-01	1.723769e-01	7.767824e-03
##	6016	6017	6018	6019	6020
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##	6021	6022	6023	6024	6025
##	5.132976e-01	-6.488429e-01	3.789456e-01	-6.844593e-01	-4.188222e-01
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##	1.381217e-01	-7.849501e-01	1.096149e-01	2.597806e-01	-9.984732e-01
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##	-6.047694e-01	-4.376866e-01	1.830218e-01	1.037960e-01	-5.118597e-01
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##	5.861832e-01	1.064032e-02	5.974355e-01	4.077183e-01	-3.619323e-01
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##	-5.699637e-02	1.252695e-01	1.523961e-01	-4.389575e-03	6.364714e-02
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##	1.086670e-01	6.590052e-01	3.385479e-01	3.233289e-01	-5.591223e-02
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##	2.807931e-01	-6.636811e-01	3.361293e-01	-6.901016e-01	3.069136e-02
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##	-8.887598e-02	-3.966441e-01	7.249290e-02	-1.335196e-02	1.339088e-01
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##	6111	6112	6113	6114	6115
##	2.380286e-01	3.595942e-01	4.087922e-02	1.082540e-01	8.262256e-02
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##	3.690341e-01	-2.900370e-02	-5.508979e-02	-7.901737e-01	1.637331e-01
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##	1.400316e-01	1.890480e-01	-6.118206e-01	-7.134502e-01	4.901665e-02
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##	6141	6142	6143	6144	6145
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##	2.640019e-01	3.141952e-01	-7.318990e-01	6.490895e-02	1.451286e-01
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##	6196	6197	6198	6199	6200
##	3.847658e-01	-5.925811e-01	2.935543e-01	-6.776749e-01	-5.746276e-02
##	6201	6202	6203	6204	6205
##	3.127147e-01	1.501640e-01	-4.427077e-01	4.012885e-01	3.890473e-02
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##	6216	6217	6218	6219	6220
##	1.418526e-01	-3.322413e-02	-2.122779e-02	-6.619437e-01	-1.500548e-01
##	6221	6222	6223	6224	6225
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##	2.054122e-01	4.100893e-01	-5.246745e-01	-4.000084e-01	7.737678e-02
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##	9.891757e-02	-2.097499e-01	-3.481836e-02	-7.609539e-02	-1.937299e-01
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##	1.930246e-01	1.305709e-01	2.406171e-01	2.056461e-02	3.161615e-02
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##	-3.612830e-01	-6.372330e-02	-7.013517e-01	-6.582202e-01	-1.201316e-01
##	6521	6522	6523	6524	6525
##	-2.941152e-01	5.572062e-02	2.540415e-01	1.346791e-01	5.584358e-01
##	6526	6527	6528	6529	6530
##	2.053429e-01	-5.937064e-01	3.883070e-01	-9.800939e-01	-4.715607e-01
##	6531	6532	6533	6534	6535
##	2.919297e-01	1.325517e-01	3.924899e-02	-4.079075e-01	-5.722277e-02
##	6536	6537	6538	6539	6540
##	-5.042424e-01	-6.029817e-01	2.519933e-01	7.466537e-02	1.370351e-01
##	6541	6542	6543	6544	6545
##	-5.290680e-01	-4.251862e-01	2.464559e-01	-3.158514e-01	7.088563e-02
##	6546	6547	6548	6549	6550
##	-4.611113e-01	9.662273e-02	9.386871e-02	5.346872e-01	-8.718438e-01
##	6551	6552	6553	6554	6555
##	2.651130e-01	6.266444e-02	5.354978e-01	-2.790782e-01	-4.605279e-01
##	6556	6557	6558	6559	6560
##	1.649263e-01	2.823418e-01	7.981283e-04	6.138871e-01	6.336510e-02
##	6561	6562	6563	6564	6565
##	6.416622e-02	3.772810e-01	9.536347e-02	-7.875175e-02	1.064803e-01
##	6566	6567	6568	6569	6570
##	7.107169e-01	2.572097e-01	1.942156e-01	-1.124628e-01	2.239956e-01
##	6571	6572	6573	6574	6575
##	-1.145453e-01	1.197402e-01	1.400170e-01	8.954559e-02	1.411241e-01
##	6576	6577	6578	6579	6580
##	-6.105722e-02	1.803048e-02	4.558962e-02	2.809183e-01	7.005173e-02
##	6581	6582	6583	6584	6585

##	-4.913653e-02	-3.944320e-01	-4.190379e-01	1.790559e-01	-7.694099e-01
##	6586	6587	6588	6589	6590
##	1.974138e-01	-8.008321e-02	-9.060414e-02	-5.690414e-01	-7.713501e-02
##	6591	6592	6593	6594	6595
##	-4.412265e-01	-7.040915e-01	7.440508e-02	4.091568e-01	3.973199e-01
##	6596	6597	6598	6599	6600
##	3.697175e-01	-8.413312e-01	-5.499715e-01	-5.863793e-01	-8.180755e-01
##	6601	6602	6603	6604	6605
##	-7.581407e-01	6.374458e-01	1.236178e-01	-4.198098e-01	1.921505e-01
##	6606	6607	6608	6609	6610
##	-1.185455e-01	3.220039e-01	-5.380747e-01	1.625023e-01	4.347640e-01
##	6611	6612	6613	6614	6615
##	1.477220e-01	-3.407122e-01	-5.715395e-02	-5.379517e-01	-2.841295e-01
##	6616	6617	6618	6619	6620
##	1.092842e-02	-3.135066e-01	-2.703860e-01	-5.547151e-03	6.154477e-01
##	6621	6622	6623	6624	6625
##	2.010710e-02	6.100228e-01	2.920122e-01	-9.010556e-01	-3.448182e-01
##	6626	6627	6628	6629	6630
##	-3.663883e-01	8.529231e-02	2.877011e-01	-4.036275e-02	-3.996826e-02
##	6631	6632	6633	6634	6635
##	1.907670e-01	1.615654e-01	-7.115386e-01	2.518832e-01	6.020292e-01
##	6636	6637	6638	6639	6640
##	3.348213e-01	1.927907e-01	-1.313973e-02	-8.954288e-02	1.210878e-01
##	6641	6642	6643	6644	6645
##	1.373350e-01	1.824889e-01	1.738986e-01	3.573670e-02	3.556832e-01
##	6646	6647	6648	6649	6650
##	-3.071876e-01	-2.363539e-02	-6.434512e-03	7.498486e-03	-4.520103e-01
##	6651	6652	6653	6654	6655
##	-1.461473e-01	-4.093079e-01	-8.186063e-03	3.915985e-02	4.577862e-01
##	6656	6657	6658	6659	6660
##	4.359037e-01	1.988524e-01	3.332583e-01	-3.928130e-01	4.401691e-01
##	6661	6662	6663	6664	6665
##	5.266330e-01	1.597254e-01	2.213646e-02	3.917996e-01	2.214882e-01
##	6666	6667	6668	6669	6670
##	2.323085e-01	3.360424e-01	3.268694e-01	1.872735e-02	-7.149452e-02
##	6671	6672	6673	6674	6675
##	-8.343151e-01	-2.990542e-01	9.884411e-02	1.654323e-01	2.427128e-01
##	6676	6677	6678	6679	6680
##	2.083178e-01	8.218707e-02	-3.568540e-01	3.678667e-02	1.520628e-01
##	6681	6682	6683	6684	6685
##	2.851646e-01	6.105862e-02	1.652794e-01	4.314918e-01	2.407855e-01
##	6686	6687	6688	6689	6690
##	-1.962301e-01	6.231687e-01	2.930451e-01	2.842789e-01	2.176665e-02
##	6691	6692	6693	6694	6695
##	1.512398e-01	3.733923e-01	4.731230e-01	-4.478385e-01	2.781726e-01
##	6696	6697	6698	6699	6700
##	2.337386e-01	1.940009e-01	4.252709e-02	-3.708867e-01	2.794024e-01
##	6701	6702	6703	6704	6705
##	-1.905251e-02	3.920990e-01	4.186938e-01	3.022501e-01	5.866316e-01
##	6706	6707	6708	6709	6710

##	6.414997e-01	-3.652121e-01	-6.152934e-01	-3.978603e-01	-5.772054e-02
##	6711	6712	6713	6714	6715
##	-4.021919e-02	4.662297e-02	2.562074e-01	-3.896620e-02	-1.043737e+00
##	6716	6717	6718	6719	6720
##	6.824667e-02	-4.013890e-01	5.126832e-01	-3.793151e-02	-4.950547e-02
##	6721	6722	6723	6724	6725
##	8.354960e-02	7.081915e-02	5.071691e-01	1.914369e-01	-7.665258e-01
##	6726	6727	6728	6729	6730
##	-2.044362e-01	-4.339563e-02	1.371878e-01	1.933964e-01	4.498924e-01
##	6731	6732	6733	6734	6735
##	-6.659608e-01	-3.517693e-01	-1.656842e-02	2.599385e-01	6.008690e-02
##	6736	6737	6738	6739	6740
##	-6.464648e-01	-7.383197e-01	1.148313e-01	-2.973814e-01	-1.264236e-01
##	6741	6742	6743	6744	6745
##	1.827347e-01	-3.496370e-02	2.091045e-01	2.201823e-02	3.628713e-01
##	6746	6747	6748	6749	6750
##	6.135335e-01	-8.848974e-01	1.545993e-01	3.077870e-01	-6.949452e-01
##	6751	6752	6753	6754	6755
##	2.403722e-01	-7.443586e-01	1.260711e-02	-4.067002e-01	-2.135967e-02
##	6756	6757	6758	6759	6760
##	8.718197e-02	-8.739008e-03	-6.862767e-02	-3.673218e-02	6.170303e-01
##	6761	6762	6763	6764	6765
##	1.303646e-01	-8.384283e-01	-4.323977e-01	1.921421e-01	1.782023e-01
##	6766	6767	6768	6769	6770
##	1.427505e-02	3.741722e-01	-6.543816e-02	1.771007e-01	2.632784e-01
##	6771	6772	6773	6774	6775
##	-4.926604e-01	3.012154e-01	1.051147e-01	1.757009e-01	-8.771222e-01
##	6776	6777	6778	6779	6780
##	-7.597365e-01	4.211317e-01	1.098486e-01	-7.534468e-01	-1.886670e-03
##	6781	6782	6783	6784	6785
##	-5.814522e-01	-9.609194e-01	4.903443e-02	-1.290773e-02	2.402348e-01
##	6786	6787	6788	6789	6790
##	-6.515884e-01	4.631561e-01	5.457655e-01	1.162624e-01	-5.769177e-01
##	6791	6792	6793	6794	6795
##	4.631272e-01	5.145965e-01	2.033945e-01	5.580182e-01	2.143252e-01
##	6796	6797	6798	6799	6800
##	-6.070212e-04	1.078336e-01	3.134980e-01	-3.610253e-01	-6.670820e-01
##	6801	6802	6803	6804	6805
##	-4.503813e-01	2.456548e-01	-1.033573e+00	3.091150e-01	-2.283000e-01
##	6806	6807	6808	6809	6810
##	-4.024718e-01	-5.738610e-02	2.027044e-01	-6.195665e-01	2.231443e-01
##	6811	6812	6813	6814	6815
##	-4.138531e-01	-4.767971e-01	3.232291e-01	-6.894103e-01	5.027167e-01
##	6816	6817	6818	6819	6820
##	2.224028e-01	1.277005e-02	5.874907e-02	4.726693e-02	6.562699e-02
##	6821	6822	6823	6824	6825
##	-3.113168e-01	-5.177195e-02	6.148674e-01	3.392969e-01	2.181875e-01
##	6826	6827	6828	6829	6830
##	-3.502705e-01	6.699744e-01	-3.677402e-01	-2.955567e-01	2.120221e-01
##	6831	6832	6833	6834	6835

##	2.856742e-01	1.655637e-01	-5.234552e-01	3.546974e-01	4.639166e-01
##	6836	6837	6838	6839	6840
##	-3.414474e-01	3.210823e-01	4.440079e-01	3.548673e-01	-1.715729e-01
##	6841	6842	6843	6844	6845
##	2.829386e-01	1.001681e-01	-7.419219e-01	1.884593e-01	6.673951e-02
##	6846	6847	6848	6849	6850
##	-4.032494e-02	2.878668e-01	-4.750154e-01	-4.014481e-02	-5.270433e-01
##	6851	6852	6853	6854	6855
##	-4.341351e-01	-2.659974e-01	7.103774e-02	-5.647915e-01	1.917145e-01
##	6856	6857	6858	6859	6860
##	-2.268706e-01	-9.615271e-02	-3.559066e-01	-9.407068e-01	3.670656e-01
##	6861	6862	6863	6864	6865
##	2.841864e-01	1.295753e-01	-1.135423e-01	2.263130e-01	-7.604803e-02
##	6866	6867	6868	6869	6870
##	1.139128e-01	-4.689256e-01	-3.230731e-01	4.867933e-01	-8.560825e-02
##	6871	6872	6873	6874	6875
##	2.407463e-01	1.002167e-01	3.586415e-01	-5.105486e-01	-4.457974e-01
##	6876	6877	6878	6879	6880
##	-2.681295e-01	1.971644e-02	6.274959e-01	5.871192e-01	1.603479e-01
##	6881	6882	6883	6884	6885
##	3.694237e-01	2.408524e-01	-7.672559e-01	-2.102894e-01	6.255416e-02
##	6886	6887	6888	6889	6890
##	-6.467221e-01	6.684045e-02	4.916634e-01	-6.152322e-01	3.566042e-01
##	6891	6892	6893	6894	6895
##	2.875876e-01	2.330140e-02	2.135993e-01	2.176663e-01	4.084533e-01
##	6896	6897	6898	6899	6900
##	6.851711e-02	-6.767983e-01	-6.490103e-01	3.295131e-01	6.265533e-03
##	6901	6902	6903	6904	6905
##	-3.455892e-02	6.654735e-01	1.085280e-01	-5.103410e-01	2.008234e-01
##	6906	6907	6908	6909	6910
##	-5.899572e-02	5.141895e-02	-6.731409e-01	3.091728e-01	-5.464398e-03
##	6911	6912	6913	6914	6915
##	3.117596e-01	5.035195e-01	4.804585e-02	-4.095353e-01	1.030268e-01
##	6916	6917	6918	6919	6920
##	-7.282665e-01	2.264234e-01	9.618769e-02	9.196691e-02	-3.567682e-01
##	6921	6922	6923	6924	6925
##	1.355560e-01	4.168629e-01	-4.076764e-01	1.043062e-01	1.084141e-01
##	6926	6927	6928	6929	6930
##	-4.072129e-01	2.990950e-01	-9.209502e-03	2.741347e-01	-1.140085e-01
##	6931	6932	6933	6934	6935
##	3.563313e-02	6.454570e-03	-6.993892e-01	2.293117e-01	-9.009746e-01
##	6936	6937	6938	6939	6940
##	2.102774e-01	2.284897e-01	2.303719e-01	2.174048e-01	3.143597e-01
##	6941	6942	6943	6944	6945
##	6.766779e-03	-5.859194e-01	-3.294726e-01	2.011526e-01	3.607647e-01
##	6946	6947	6948	6949	6950
##	-5.083948e-02	5.067184e-01	8.016383e-02	4.419251e-01	4.808658e-01
##	6951	6952	6953	6954	6955
##	-4.694003e-01	-4.647934e-01	6.439419e-01	2.191776e-01	1.628314e-01
##	6956	6957	6958	6959	6960

```
## 1.281675e-01 -4.097824e-01 -4.300568e-01 -8.054883e-01 -3.648057e-01
## 6961 6962 6963 6964 6965
## -4.161395e-01 -7.021523e-01 2.441671e-01 3.843727e-01 1.067679e-01
## 6966 6967 6968 6969 6970
## -1.445786e-02 2.875331e-01 -1.683985e-01 3.629309e-01 -5.343626e-01
## 6971 6972 6973 6974 6975
## 3.525698e-01 -1.704938e-01 3.031808e-01 2.633714e-01 1.200052e-01
## 6976 6977 6978 6979 6980
## -5.601844e-01 4.468272e-01 2.933861e-01 2.902018e-01 4.190636e-01
## 6981 6982 6983 6984 6985
## -3.344550e-01 1.438081e-01 -5.693321e-01 9.164043e-02 -6.314080e-02
## 6986 6987 6988 6989 6990
## -8.868231e-01 4.424669e-01 5.926571e-01 -6.334427e-01 -3.094810e-02
## 6991 6992 6993 6994 6995
## -6.194026e-01 1.510891e-01 2.372026e-01 4.342355e-01 6.782851e-02
## 6996 6997 6998 6999 7000
## -5.341992e-01 -4.910679e-03 -3.111364e-01 -4.744019e-01 -2.933352e-01
## 7001 7002 7003 7004 7005
## -7.299373e-01 9.295996e-04 4.096674e-01 4.359333e-01 4.930302e-01
## 7006 7007 7008 7009 7010
## 3.342943e-01 -4.505845e-02 -4.142334e-01 4.840340e-03 1.753519e-01
## 7011 7012 7013 7014 7015
## -6.963625e-01 1.989088e-01 3.568745e-01 3.328288e-01 5.308326e-01
## 7016 7017 7018 7019 7020
## -6.499883e-01 3.210324e-01 -1.032665e-01 5.800353e-01 2.427666e-01
## 7021 7022 7023 7024 7025
## 7.823893e-02 -2.893342e-01 3.893726e-01 -8.097692e-01 5.232701e-01
## 7026 7027 7028 7029 7030
## 3.330831e-01 -4.685621e-02 2.637199e-01 1.691649e-01 3.266835e-01
## 7031 7032
## -3.069020e-01 4.129215e-02
```

#Anova Table

anova(fit)

Analysis of Variance Table

##

Response: Churn

##	Df	Sum Sq	Mean Sq	F value	Pr(>F)	
## Gender	1	0.10	0.100	0.7064	0.40068	
## SeniorCitizen	1	31.09	31.092	219.2101	< 2.2e-16	***
## Partner	1	31.94	31.942	225.1981	< 2.2e-16	***
## Dependents	1	7.01	7.007	49.4036	2.280e-12	***
## Tenure	1	143.41	143.413	1011.1025	< 2.2e-16	***
## PhoneService	1	0.22	0.224	1.5826	0.20843	
## MultipleLines	1	28.49	28.491	200.8684	< 2.2e-16	***
## InternetService	1	2.83	2.831	19.9589	8.037e-06	***
## OnlineBackup	1	0.09	0.092	0.6490	0.42049	
## OnlineSecurity	1	8.41	8.406	59.2631	1.569e-14	***
## DeviceProtection	1	1.29	1.286	9.0682	0.00261	**

```

## TechSupport      1   5.91   5.911   41.6721 1.151e-10 ***
## StreamingTV      1  20.06  20.061  141.4371 < 2.2e-16 ***
## StreamingMovies  1   8.13   8.128   57.3065 4.207e-14 ***
## Contract         1  21.94  21.938  154.6714 < 2.2e-16 ***
## PaperlessBilling  1  11.10  11.098   78.2460 < 2.2e-16 ***
## PaymentMethod    1   0.00   0.001   0.0050 0.94340
## MonthlyCharges   1  46.53  46.531  328.0532 < 2.2e-16 ***
## TotalCharges     1   9.12   9.124   64.3284 1.225e-15 ***
## Residuals       7012 994.57   0.142
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

vcov(fit)

```

##              (Intercept)          Gender SeniorCitizen          Partner
## (Intercept)  9.330979e-03 -1.043314e-04 -7.174709e-05 -1.196903e-04
## Gender      -1.043314e-04  8.084175e-05 -1.918729e-07 -7.220319e-07
## SeniorCitizen -7.174709e-05 -1.918729e-07  1.704688e-04  1.433912e-05
## Partner      -1.196903e-04 -7.220319e-07  1.433912e-05  1.180349e-04
## Dependents   -7.359280e-05  1.271971e-06 -2.827964e-05 -5.513827e-05
## Tenure       -2.655198e-06 -1.438413e-08 -2.714253e-07  6.209264e-07
## PhoneService -1.325468e-03 -1.919321e-06 -1.375776e-05 -4.739417e-06
## MultipleLines  2.621207e-04  7.127575e-07 -4.244851e-06  2.555923e-06
## InternetService -2.141852e-04 -1.254449e-06  2.906557e-06 -5.852266e-07
## OnlineBackup  -4.321501e-04 -1.679395e-06 -1.639265e-06  3.367763e-07
## OnlineSecurity -4.649507e-04 -2.405852e-06 -8.707809e-06 -7.710743e-07
## DeviceProtection -4.054213e-04  1.640601e-07 -2.683899e-06 -1.943922e-06
## TechSupport   -3.973676e-04 -1.006999e-06 -1.372185e-05  2.804173e-06
## StreamingTV   -4.884500e-04 -4.046762e-07 -6.087791e-06 -1.093309e-06
## StreamingMovies -4.996359e-04 -9.416645e-07 -2.726379e-06 -1.069560e-06
## Contract      -3.314475e-04  3.762276e-07  7.694614e-06  9.571979e-07
## PaperlessBilling -2.410612e-04 -8.575108e-07  5.524762e-06  2.985978e-08
## PaymentMethod -7.834087e-05 -7.445961e-07  3.226624e-07 -9.974055e-07
## MonthlyCharges -2.315082e-05  1.284184e-08 -6.076301e-07  5.001210e-08
## TotalCharges  -5.857800e-08 -8.271498e-10  1.028860e-09  5.862567e-10
##              Dependents          Tenure PhoneService MultipleLines
## (Intercept) -7.359280e-05 -2.655198e-06 -1.325468e-03  2.621207e-04
## Gender      1.271971e-06 -1.438413e-08 -1.919321e-06  7.127575e-07
## SeniorCitizen -2.827964e-05 -2.714253e-07 -1.375776e-05 -4.244851e-06
## Partner      -5.513827e-05  6.209264e-07 -4.739417e-06  2.555923e-06
## Dependents   1.329003e-04 -8.259228e-08 -5.466097e-06 -8.899269e-07
## Tenure       -8.259228e-08  2.509082e-07  3.599119e-07 -4.764958e-07
## PhoneService -5.466097e-06  3.599119e-07  8.435583e-04 -2.398677e-04
## MultipleLines -8.899269e-07 -4.764958e-07 -2.398677e-04  1.278825e-04
## InternetService -2.600217e-07 -1.288240e-07 -7.277115e-05  3.739687e-06
## OnlineBackup  -3.649096e-06 -1.067779e-07  4.383273e-05 -8.987536e-06
## OnlineSecurity -5.172883e-06 -2.189410e-07  3.401055e-05 -1.112849e-05
## DeviceProtection 2.046162e-07 -2.530302e-07  4.908229e-05 -9.437501e-06
## TechSupport   -2.548810e-06 -5.059799e-07  3.258670e-05 -1.156028e-05
## StreamingTV   -4.345735e-06 -2.065340e-07  7.783321e-05 -1.261980e-05

```


## StreamingMovies	1.805325e-07	-2.368224e-07	7.820319e-05	-1.163990e-05
## Contract	7.055507e-06	-1.650745e-06	2.682114e-05	-2.626768e-06
## PaperlessBilling	2.582901e-06	1.619332e-07	1.346655e-05	7.414882e-07
## PaymentMethod	4.599891e-07	4.332767e-07	-2.218533e-08	6.444628e-07
## MonthlyCharges	-2.334312e-07	7.015047e-08	5.462805e-06	-1.177836e-06
## TotalCharges	-1.400690e-09	-2.559805e-09	1.250002e-08	-4.421621e-09
##	InternetService	OnlineBackup	OnlineSecurity	
## (Intercept)	-2.141852e-04	-4.321501e-04	-4.649507e-04	
## Gender	-1.254449e-06	-1.679395e-06	-2.405852e-06	
## SeniorCitizen	2.906557e-06	-1.639265e-06	-8.707809e-06	
## Partner	-5.852266e-07	3.367763e-07	-7.710743e-07	
## Dependents	-2.600217e-07	-3.649096e-06	-5.172883e-06	
## Tenure	-1.288240e-07	-1.067779e-07	-2.189410e-07	
## PhoneService	-7.277115e-05	4.383273e-05	3.401055e-05	
## MultipleLines	3.739687e-06	-8.987536e-06	-1.112849e-05	
## InternetService	7.138995e-05	1.481684e-05	2.939667e-05	
## OnlineBackup	1.481684e-05	1.354896e-04	3.871325e-06	
## OnlineSecurity	2.939667e-05	3.871325e-06	1.474679e-04	
## DeviceProtection	1.158418e-05	6.968639e-06	5.240840e-06	
## TechSupport	2.689060e-05	1.850624e-06	-6.362494e-06	
## StreamingTV	-7.690445e-07	1.331065e-05	1.859493e-05	
## StreamingMovies	-8.601065e-09	1.599902e-05	1.630379e-05	
## Contract	9.941673e-06	4.457994e-06	1.460907e-05	
## PaperlessBilling	2.160343e-06	1.275585e-06	1.030859e-05	
## PaymentMethod	1.246129e-06	1.217583e-07	2.268381e-07	
## MonthlyCharges	-5.724919e-07	7.342228e-07	5.395447e-07	
## TotalCharges	6.723676e-09	1.338913e-08	1.137596e-08	
##	DeviceProtection	TechSupport	StreamingTV	
## (Intercept)	-4.054213e-04	-3.973676e-04	-4.884500e-04	
## Gender	1.640601e-07	-1.006999e-06	-4.046762e-07	
## SeniorCitizen	-2.683899e-06	-1.372185e-05	-6.087791e-06	
## Partner	-1.943922e-06	2.804173e-06	-1.093309e-06	
## Dependents	2.046162e-07	-2.548810e-06	-4.345735e-06	
## Tenure	-2.530302e-07	-5.059799e-07	-2.065340e-07	
## PhoneService	4.908229e-05	3.258670e-05	7.783321e-05	
## MultipleLines	-9.437501e-06	-1.156028e-05	-1.261980e-05	
## InternetService	1.158418e-05	2.689060e-05	-7.690445e-07	
## OnlineBackup	6.968639e-06	1.850624e-06	1.331065e-05	
## OnlineSecurity	5.240840e-06	-6.362494e-06	1.859493e-05	
## DeviceProtection	1.424146e-04	-1.441401e-06	1.917970e-07	
## TechSupport	-1.441401e-06	1.510015e-04	3.442249e-06	
## StreamingTV	1.917970e-07	3.442249e-06	1.653172e-04	
## StreamingMovies	-2.348457e-06	3.950646e-06	-1.737778e-05	
## Contract	1.356267e-05	2.371814e-05	1.357233e-05	
## PaperlessBilling	6.110666e-06	4.468371e-06	-1.485915e-06	
## PaymentMethod	-3.925489e-07	-2.622397e-07	1.250326e-06	
## MonthlyCharges	7.895166e-07	4.171404e-07	1.694071e-06	
## TotalCharges	1.041821e-08	1.071044e-08	6.810876e-09	
##	StreamingMovies	Contract	PaperlessBilling	
## (Intercept)	-4.996359e-04	-3.314475e-04	-2.410612e-04	

## Gender	-9.416645e-07	3.762276e-07	-8.575108e-07
## SeniorCitizen	-2.726379e-06	7.694614e-06	5.524762e-06
## Partner	-1.069560e-06	9.571979e-07	2.985978e-08
## Dependents	1.805325e-07	7.055507e-06	2.582901e-06
## Tenure	-2.368224e-07	-1.650745e-06	1.619332e-07
## PhoneService	7.820319e-05	2.682114e-05	1.346655e-05
## MultipleLines	-1.163990e-05	-2.626768e-06	7.414882e-07
## InternetService	-8.601065e-09	9.941673e-06	2.160343e-06
## OnlineBackup	1.599902e-05	4.457994e-06	1.275585e-06
## OnlineSecurity	1.630379e-05	1.460907e-05	1.030859e-05
## DeviceProtection	-2.348457e-06	1.356267e-05	6.110666e-06
## TechSupport	3.950646e-06	2.371814e-05	4.468371e-06
## StreamingTV	-1.737778e-05	1.357233e-05	-1.485915e-06
## StreamingMovies	1.651940e-04	1.399133e-05	1.137417e-06
## Contract	1.399133e-05	7.247600e-05	-7.238461e-06
## PaperlessBilling	1.137417e-06	-7.238461e-06	1.004681e-04
## PaymentMethod	7.983254e-07	7.276605e-07	-1.007124e-06
## MonthlyCharges	1.646184e-06	8.133148e-07	6.816789e-07
## TotalCharges	7.393941e-09	3.944176e-09	-8.912854e-10
##	PaymentMethod	MonthlyCharges	TotalCharges
## (Intercept)	-7.834087e-05	-2.315082e-05	-5.857800e-08
## Gender	-7.445961e-07	1.284184e-08	-8.271498e-10
## SeniorCitizen	3.226624e-07	-6.076301e-07	1.028860e-09
## Partner	-9.974055e-07	5.001210e-08	5.862567e-10
## Dependents	4.599891e-07	-2.334312e-07	-1.400690e-09
## Tenure	4.332767e-07	7.015047e-08	-2.559805e-09
## PhoneService	-2.218533e-08	5.462805e-06	1.250002e-08
## MultipleLines	6.444628e-07	-1.177836e-06	-4.421621e-09
## InternetService	1.246129e-06	-5.724919e-07	6.723676e-09
## OnlineBackup	1.217583e-07	7.342228e-07	1.338913e-08
## OnlineSecurity	2.268381e-07	5.395447e-07	1.137596e-08
## DeviceProtection	-3.925489e-07	7.895166e-07	1.041821e-08
## TechSupport	-2.622397e-07	4.171404e-07	1.071044e-08
## StreamingTV	1.250326e-06	1.694071e-06	6.810876e-09
## StreamingMovies	7.983254e-07	1.646184e-06	7.393941e-09
## Contract	7.276605e-07	8.133148e-07	3.944176e-09
## PaperlessBilling	-1.007124e-06	6.816789e-07	-8.912854e-10
## PaymentMethod	2.099732e-05	1.594187e-07	-2.132492e-09
## MonthlyCharges	1.594187e-07	1.434099e-07	-1.126434e-09
## TotalCharges	-2.132492e-09	-1.126434e-09	4.168302e-11

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##	(Intercept)	Gender	SeniorCitizen	Partner
## (Intercept)	1.00000000	-0.120124991	-0.056887682	-0.1140485821
## Gender	-0.12012499	1.000000000	-0.001634456	-0.0073915108
## SeniorCitizen	-0.05688768	-0.001634456	1.000000000	0.1010868537
## Partner	-0.11404858	-0.007391511	0.101086854	1.0000000000
## Dependents	-0.06608590	0.012271465	-0.187883457	-0.4402354054
## Tenure	-0.05487517	-0.003193804	-0.041502129	0.1140978354

## PhoneService	-0.47244143	-0.007349743	-0.036280035	-0.0150197278
## MultipleLines	0.23995631	0.007010005	-0.028749773	0.0208035239
## InternetService	-0.26242624	-0.016512650	0.026347409	-0.0063752938
## OnlineBackup	-0.38434222	-0.016046567	-0.010786334	0.0026630738
## OnlineSecurity	-0.39636423	-0.022034448	-0.054920899	-0.0058444292
## DeviceProtection	-0.35169465	0.001529001	-0.017225288	-0.0149932688
## TechSupport	-0.33476364	-0.009114247	-0.085526315	0.0210043335
## StreamingTV	-0.39327608	-0.003500505	-0.036264217	-0.0078267000
## StreamingMovies	-0.40243240	-0.008148567	-0.016246757	-0.0076595445
## Contract	-0.40304543	0.004915137	0.069225690	0.0103490223
## PaperlessBilling	-0.24897151	-0.009514976	0.042215996	0.0002741999
## PaymentMethod	-0.17698759	-0.018072613	0.005393169	-0.0200347772
## MonthlyCharges	-0.63286796	0.003771549	-0.122893017	0.0121557057
## TotalCharges	-0.09392720	-0.014249077	0.012205460	0.0083580106
##	Dependents	Tenure	PhoneService	MultipleLines
## (Intercept)	-0.066085903	-0.054875174	-0.4724414252	0.239956313
## Gender	0.012271465	-0.003193804	-0.0073497432	0.007010005
## SeniorCitizen	-0.187883457	-0.041502129	-0.0362800351	-0.028749773
## Partner	-0.440235405	0.114097835	-0.0150197278	0.020803524
## Dependents	1.000000000	-0.014302736	-0.0163251398	-0.006826307
## Tenure	-0.014302736	1.000000000	0.0247389472	-0.084119387
## PhoneService	-0.016325140	0.024738947	1.0000000000	-0.730312367
## MultipleLines	-0.006826307	-0.084119387	-0.7303123670	1.0000000000
## InternetService	-0.002669489	-0.030438324	-0.2965399227	0.039139127
## OnlineBackup	-0.027193772	-0.018313490	0.1296546345	-0.068278207
## OnlineSecurity	-0.036950553	-0.035993236	0.0964289163	-0.081036697
## DeviceProtection	0.001487305	-0.042328976	0.1416087256	-0.069931717
## TechSupport	-0.017992189	-0.082202537	0.0913045053	-0.083190171
## StreamingTV	-0.029318470	-0.032068233	0.2084243111	-0.086793655
## StreamingMovies	0.001218416	-0.036784795	0.2094931462	-0.080084142
## Contract	0.071889960	-0.387102138	0.1084732349	-0.027284690
## PaperlessBilling	0.022352739	0.032252577	0.0462577826	0.006541609
## PaymentMethod	0.008707684	0.188766964	-0.0001666964	0.012436847
## MonthlyCharges	-0.053469544	0.369814198	0.4966707501	-0.275036036
## TotalCharges	-0.018819129	-0.791534549	0.0666612625	-0.060561464
##	InternetService	OnlineBackup	OnlineSecurity	
## (Intercept)	-2.624262e-01	-0.384342218	-0.396364232	
## Gender	-1.651265e-02	-0.016046567	-0.022034448	
## SeniorCitizen	2.634741e-02	-0.010786334	-0.054920899	
## Partner	-6.375294e-03	0.002663074	-0.005844429	
## Dependents	-2.669489e-03	-0.027193772	-0.036950553	
## Tenure	-3.043832e-02	-0.018313490	-0.035993236	
## PhoneService	-2.965399e-01	0.129654634	0.096428916	
## MultipleLines	3.913913e-02	-0.068278207	-0.081036697	
## InternetService	1.000000e+00	0.150655219	0.286504096	
## OnlineBackup	1.506552e-01	1.000000000	0.027387844	
## OnlineSecurity	2.865041e-01	0.027387844	1.000000000	
## DeviceProtection	1.148867e-01	0.050166960	0.036163867	
## TechSupport	2.589950e-01	0.012938223	-0.042637133	
## StreamingTV	-7.079033e-03	0.088937971	0.119093125	

## StreamingMovies	-7.920208e-05	0.106940746	0.104458219
## Contract	1.382114e-01	0.044987250	0.141311182
## PaperlessBilling	2.550880e-02	0.010933076	0.084690841
## PaymentMethod	3.218567e-02	0.002282778	0.004076479
## MonthlyCharges	-1.789210e-01	0.166565591	0.117324590
## TotalCharges	1.232562e-01	0.178163964	0.145097370
##	DeviceProtection	TechSupport	StreamingTV
## (Intercept)	-0.351694650	-0.334763642	-0.393276081
## Gender	0.001529001	-0.009114247	-0.003500505
## SeniorCitizen	-0.017225288	-0.085526315	-0.036264217
## Partner	-0.014993269	0.021004333	-0.007826700
## Dependents	0.001487305	-0.017992189	-0.029318470
## Tenure	-0.042328976	-0.082202537	-0.032068233
## PhoneService	0.141608726	0.091304505	0.208424311
## MultipleLines	-0.069931717	-0.083190171	-0.086793655
## InternetService	0.114886685	0.258995028	-0.007079033
## OnlineBackup	0.050166960	0.012938223	0.088937971
## OnlineSecurity	0.036163867	-0.042637133	0.119093125
## DeviceProtection	1.000000000	-0.009829171	0.001249987
## TechSupport	-0.009829171	1.000000000	0.021786765
## StreamingTV	0.001249987	0.021786765	1.000000000
## StreamingMovies	-0.015311169	0.025013845	-0.105157016
## Contract	0.133496839	0.226721613	0.123993281
## PaperlessBilling	0.051085452	0.036278100	-0.011529776
## PaymentMethod	-0.007178515	-0.004657211	0.021221809
## MonthlyCharges	0.174700623	0.089640054	0.347922814
## TotalCharges	0.135218601	0.135001107	0.082047320
##	StreamingMovies	Contract	PaperlessBilling
## (Intercept)	-4.024324e-01	-0.403045428	-0.2489715131
## Gender	-8.148567e-03	0.004915137	-0.0095149757
## SeniorCitizen	-1.624676e-02	0.069225690	0.0422159960
## Partner	-7.659544e-03	0.010349022	0.0002741999
## Dependents	1.218416e-03	0.071889960	0.0223527390
## Tenure	-3.678479e-02	-0.387102138	0.0322525774
## PhoneService	2.094931e-01	0.108473235	0.0462577826
## MultipleLines	-8.008414e-02	-0.027284690	0.0065416094
## InternetService	-7.920208e-05	0.138211394	0.0255087997
## OnlineBackup	1.069407e-01	0.044987250	0.0109330759
## OnlineSecurity	1.044582e-01	0.141311182	0.0846908407
## DeviceProtection	-1.531117e-02	0.133496839	0.0510854523
## TechSupport	2.501384e-02	0.226721613	0.0362780999
## StreamingTV	-1.051570e-01	0.123993281	-0.0115297760
## StreamingMovies	1.000000e+00	0.127868842	0.0088289399
## Contract	1.278688e-01	1.000000000	-0.0848271864
## PaperlessBilling	8.828940e-03	-0.084827186	1.0000000000
## PaymentMethod	1.355504e-02	0.018653045	-0.0219273902
## MonthlyCharges	3.382141e-01	0.252273697	0.1795875220
## TotalCharges	8.910444e-02	0.071759542	-0.0137728282
##	PaymentMethod	MonthlyCharges	TotalCharges
## (Intercept)	-0.1769875922	-0.632867955	-0.093927200

```
## Gender          -0.0180726126    0.003771549 -0.014249077
## SeniorCitizen    0.0053931685   -0.122893017  0.012205460
## Partner          -0.0200347772    0.012155706  0.008358011
## Dependents       0.0087076837   -0.053469544 -0.018819129
## Tenure           0.1887669642    0.369814198 -0.791534549
## PhoneService     -0.0001666964    0.496670750  0.066661263
## MultipleLines    0.0124368473   -0.275036036 -0.060561464
## InternetService  0.0321856660   -0.178920961  0.123256160
## OnlineBackup     0.0022827775    0.166565591  0.178163964
## OnlineSecurity   0.0040764789    0.117324590  0.145097370
## DeviceProtection -0.0071785152    0.174700623  0.135218601
## TechSupport      -0.0046572109    0.089640054  0.135001107
## StreamingTV      0.0212218090    0.347922814  0.082047320
## StreamingMovies  0.0135550435    0.338214078  0.089104435
## Contract         0.0186530455    0.252273697  0.071759542
## PaperlessBilling -0.0219273902    0.179587522 -0.013772828
## PaymentMethod    1.0000000000    0.091868757 -0.072081851
## MonthlyCharges   0.0918687568    1.000000000 -0.460719561
## TotalCharges     -0.0720818510   -0.460719561  1.000000000
```

```
temp <- influence.measures(fit)
temp
```

```
## Influence measures of
```

```
## lm(formula = Churn ~ Gender + SeniorCitizen + Partner + Dependents +
## Tenure + PhoneService + MultipleLines + InternetService + OnlineBackup +
## OnlineSecurity + DeviceProtection + TechSupport + StreamingTV +
## StreamingMovies + Contract + PaperlessBilling + PaymentMethod +
## MonthlyCharges + TotalCharges, data = tablechurn) :
```

```
##
##          dfb.1_ dfb.Gndr dfb.SnrC dfb.Prtn dfb.Dpnd dfb.Tenr dfb.PhnS
## 1  -2.03e-03 -1.34e-02 -1.12e-02 -2.90e-02  1.88e-02 -2.65e-02  1.89e-02
## 2  -4.60e-03  3.55e-03 -8.24e-04  2.91e-03  1.89e-03  2.50e-03 -7.70e-05
## 3  -1.66e-02 -2.24e-02  6.71e-03 -5.75e-03 -1.07e-02  8.29e-03  1.46e-02
## 4  -1.74e-03  1.97e-03 -5.51e-04  1.78e-03  8.49e-04  1.71e-03  3.82e-03
## 5   1.64e-02  1.29e-02  9.08e-03 -4.11e-03 -2.83e-03  2.32e-03 -1.53e-02
## 6  -7.70e-03  8.71e-03  8.13e-03 -5.15e-03 -1.11e-03 -6.52e-03  8.23e-03
## 7   3.38e-03  1.68e-02 -7.18e-03  3.03e-02 -3.91e-02  5.68e-03 -9.05e-03
## 8  -1.16e-02 -1.04e-02 -4.01e-03  3.72e-03  4.00e-03 -6.90e-03  1.58e-02
## 9  -2.08e-02  1.50e-02  1.57e-02  2.48e-02 -1.72e-02 -8.20e-03  9.92e-03
## 10  1.92e-03 -2.36e-03 -3.38e-04 -5.61e-03  5.17e-03 -3.27e-03 -6.37e-04
## 11  2.67e-03  8.69e-03 -9.30e-04 -7.84e-03 -9.75e-03 -1.00e-03 -3.15e-03
## 12 -3.66e-04  1.31e-03  7.68e-05  6.56e-04  9.97e-04 -2.55e-03  1.91e-04
## 13 -1.12e-02  8.46e-03 -9.79e-03 -1.01e-02  1.06e-02 -3.09e-03  4.24e-04
## 14 -1.83e-02 -1.97e-02  2.05e-02 -2.28e-02 -6.28e-05 -5.54e-03  1.13e-02
## 15  1.80e-02  1.43e-02 -7.58e-03  9.59e-03  2.85e-03  1.63e-02  1.17e-02
## 16 -5.80e-04  1.76e-03  3.61e-04 -3.01e-04  2.10e-03  2.73e-03 -4.31e-04
## 17 -2.77e-05 -6.52e-04 -1.41e-04  5.71e-04  3.35e-04  1.49e-03  1.19e-04
## 18 -2.59e-03  1.61e-03 -3.12e-04  4.58e-03 -3.98e-03 -1.96e-03  7.92e-04
## 19 -2.14e-02  2.59e-02 -1.79e-03  2.18e-02  2.84e-02  6.94e-03  9.64e-03
```

## 20	6.73e-03	-1.59e-02	-1.38e-02	1.07e-02	1.97e-03	1.39e-02	1.48e-02
## 21	3.95e-03	-1.41e-02	-3.36e-02	-9.05e-03	4.53e-03	2.01e-02	-1.51e-02
## 22	2.87e-03	3.21e-03	-9.67e-04	-6.04e-03	5.22e-03	-6.10e-03	-2.72e-05
## 23	-2.44e-02	-2.49e-02	3.60e-03	-6.00e-03	-1.39e-02	3.60e-02	7.29e-03
## 24	-4.00e-04	-7.19e-04	-3.98e-04	-9.53e-04	1.10e-03	-1.60e-05	-9.46e-04
## 25	-1.31e-03	-1.36e-03	-2.29e-05	5.48e-04	1.51e-03	-1.99e-03	1.38e-04
## 26	6.80e-03	-5.78e-03	-2.71e-03	4.38e-03	2.18e-03	3.62e-03	-2.37e-03
## 27	-7.01e-03	-1.83e-02	1.50e-02	4.41e-03	2.73e-02	-5.38e-03	6.43e-03
## 28	1.66e-02	-1.97e-02	5.50e-03	2.18e-02	2.27e-02	3.88e-02	-3.23e-02
## 29	-4.12e-03	-3.08e-03	1.59e-03	2.92e-03	-4.37e-03	1.10e-03	4.64e-03
## 30	-1.08e-02	2.00e-02	3.04e-04	-3.06e-02	4.21e-02	-1.11e-02	1.16e-02
## 31	-6.85e-04	-9.73e-04	2.12e-03	-7.15e-04	7.99e-04	-1.00e-03	3.81e-04
## 32	1.54e-02	2.52e-02	4.46e-02	-4.00e-02	1.71e-02	6.42e-03	1.39e-02
## 33	1.03e-03	-1.10e-03	2.43e-04	-7.11e-04	-1.02e-03	2.40e-04	-1.62e-04
## 34	8.00e-03	5.49e-03	-8.44e-04	1.58e-03	2.77e-03	-1.06e-02	-1.51e-03
## 35	-1.23e-02	1.18e-02	3.17e-02	7.25e-03	-1.87e-03	-1.79e-02	-5.53e-03
## 36	1.93e-03	2.42e-03	4.62e-04	-3.57e-04	2.73e-03	3.19e-03	-1.48e-03
## 37	2.05e-02	-1.33e-02	9.70e-03	-4.69e-03	-3.28e-03	9.93e-04	-1.58e-02
## 38	-1.17e-02	-1.13e-02	-9.00e-03	1.03e-02	3.05e-04	9.51e-03	1.51e-02
## 39	-1.10e-02	-1.53e-02	1.55e-02	-1.40e-02	-1.11e-03	-1.17e-02	9.90e-03
## 40	-1.33e-02	9.90e-03	9.55e-03	-6.89e-03	-1.07e-03	-3.11e-03	1.01e-02
## 41	-7.72e-03	6.97e-03	1.28e-04	-6.78e-03	-6.81e-03	-7.72e-03	-1.13e-03
## 42	-1.76e-04	1.24e-03	2.19e-04	-1.05e-04	1.25e-03	-6.33e-05	1.63e-03
## 43	1.93e-03	-2.93e-03	4.42e-04	-2.26e-03	-2.47e-03	-2.85e-03	3.39e-04
## 44	-1.92e-03	1.82e-03	4.02e-04	-2.40e-03	-9.35e-04	-3.61e-04	3.01e-03
## 45	2.92e-02	-9.48e-03	-5.97e-03	-2.05e-02	1.60e-02	2.01e-03	-2.41e-02
## 46	-1.46e-02	-1.46e-02	-1.43e-02	1.46e-02	-5.10e-04	1.53e-02	-2.34e-03
## 47	-6.34e-03	9.98e-03	-3.32e-03	2.57e-03	4.90e-03	-5.64e-03	-5.29e-03
## 48	7.53e-03	1.09e-02	7.78e-03	-3.88e-03	-2.86e-03	-2.49e-03	-1.11e-02
## 49	3.61e-04	2.28e-03	-4.49e-04	2.44e-03	1.07e-03	-8.08e-04	-3.52e-03
## 50	-7.62e-04	3.41e-03	-5.44e-05	-9.02e-05	3.58e-03	-2.26e-03	4.26e-03
## 51	-7.95e-03	-1.58e-02	2.96e-02	1.95e-02	-6.77e-03	9.41e-03	-6.00e-03
## 52	-2.18e-02	1.30e-02	1.07e-02	-8.97e-03	-4.16e-03	-1.26e-02	-1.12e-02
## 53	1.99e-02	-9.66e-03	2.41e-02	-1.49e-02	8.93e-03	8.16e-04	-2.27e-02
## 54	3.02e-04	1.04e-02	-1.98e-02	1.83e-02	-8.01e-03	5.63e-03	6.28e-03
## 55	-1.23e-03	6.66e-04	-1.92e-03	-1.09e-04	1.15e-03	-5.10e-04	1.70e-04
## 56	4.11e-03	-9.30e-03	-1.82e-02	-8.74e-03	3.84e-03	-3.79e-03	6.64e-03
## 57	-1.53e-03	-7.11e-03	-4.15e-03	4.60e-04	-9.60e-03	-3.94e-03	1.12e-03
## 58	2.33e-03	5.83e-03	1.47e-02	2.11e-03	-1.20e-02	-2.95e-03	-1.30e-03
## 59	4.81e-04	-9.62e-04	8.89e-05	-4.54e-04	-8.10e-04	-8.34e-04	-1.20e-03
## 60	-5.02e-03	-4.04e-03	-2.52e-03	5.58e-03	4.09e-04	-5.00e-03	1.60e-03
## 61	4.74e-03	-1.52e-02	-1.85e-02	-1.89e-02	1.48e-02	5.88e-03	-5.31e-03
## 62	-5.09e-03	9.29e-03	-9.94e-03	1.18e-02	4.21e-04	3.73e-03	-1.07e-03
## 63	2.37e-03	-1.50e-03	1.04e-03	1.62e-03	-2.35e-03	-2.10e-03	-3.37e-03
## 64	3.61e-03	-6.27e-03	5.35e-04	-4.60e-03	-6.58e-03	-4.29e-03	-1.57e-03
## 65	3.84e-03	1.05e-02	8.55e-03	-5.75e-03	-2.10e-03	-6.27e-03	6.90e-03
## 66	2.96e-02	-1.30e-02	-4.17e-03	4.27e-03	5.42e-03	5.24e-03	-1.29e-02
## 67	-1.65e-02	1.02e-02	-1.14e-02	-1.47e-02	1.34e-02	-7.16e-04	5.86e-04
## 68	5.48e-04	-4.22e-03	-1.02e-04	3.12e-03	2.47e-03	-1.25e-04	-1.40e-03
## 69	-4.71e-04	2.07e-03	-2.78e-04	6.26e-04	1.72e-03	-1.53e-03	-9.08e-04

## 70	-5.21e-03	1.56e-02	-9.82e-03	7.15e-03	4.29e-03	8.55e-03	1.58e-02
## 71	-6.22e-03	8.80e-03	-9.93e-04	1.71e-03	4.23e-03	-3.99e-03	-4.08e-03
## 72	1.24e-03	-1.13e-03	-9.56e-05	-3.69e-04	-1.11e-03	2.01e-03	1.79e-04
## 73	-4.39e-04	4.05e-03	1.04e-02	1.62e-03	-7.27e-03	-6.82e-03	8.00e-04
## 74	-2.71e-04	-3.49e-04	4.23e-05	3.61e-05	3.20e-04	-4.66e-04	4.32e-04
## 75	2.11e-02	-8.87e-03	2.82e-03	1.40e-02	-2.09e-02	-2.59e-03	-6.46e-03
## 76	-1.20e-03	-8.08e-03	1.73e-02	1.27e-02	-2.69e-03	-2.18e-03	-1.71e-03
## 77	-7.69e-03	-5.29e-03	-1.96e-03	4.63e-03	1.56e-03	2.75e-03	4.27e-04
## 78	5.63e-03	-7.35e-03	-4.08e-05	-6.74e-03	-7.30e-03	-2.02e-03	-2.88e-03
## 79	1.61e-02	1.11e-02	2.59e-02	1.10e-02	-1.81e-03	1.06e-02	-8.91e-03
## 80	5.02e-03	-3.02e-03	-5.69e-04	-1.05e-03	-3.21e-03	2.07e-03	-4.39e-03
## 81	5.16e-03	1.22e-02	2.53e-03	-1.74e-02	2.72e-02	-2.21e-03	-1.18e-02
## 82	7.12e-03	-1.25e-02	-2.94e-03	-1.00e-02	-1.39e-02	-5.82e-03	1.70e-02
## 83	4.14e-04	1.38e-02	1.41e-02	2.78e-02	-1.76e-02	6.11e-03	-1.57e-02
## 84	1.67e-02	-9.92e-03	-7.40e-03	1.00e-02	7.69e-04	7.76e-03	9.65e-03
## 85	1.77e-04	-2.74e-04	-1.25e-04	-4.16e-04	4.82e-04	1.37e-04	8.58e-05
## 86	1.86e-02	2.37e-02	-2.02e-02	1.18e-02	4.57e-03	9.77e-03	-1.94e-02
## 87	1.67e-03	-6.04e-03	-3.53e-03	-9.85e-03	9.48e-03	-2.38e-03	-2.54e-04
## 88	-4.02e-04	2.05e-03	-2.89e-04	6.68e-04	1.71e-03	-8.02e-04	-9.56e-04
## 89	1.29e-04	-4.79e-04	3.62e-05	-1.93e-04	-3.94e-04	3.70e-04	1.47e-04
## 90	-1.65e-02	9.83e-03	-8.92e-03	-1.97e-02	1.54e-02	4.97e-03	1.72e-02
## 91	-4.58e-03	9.96e-03	-5.38e-03	-5.21e-03	-1.35e-02	1.47e-03	1.47e-02
## 92	-2.61e-02	1.70e-02	4.24e-02	9.14e-03	-3.66e-03	1.51e-03	1.86e-02
## 93	-1.03e-03	-1.45e-03	-1.27e-05	-2.40e-05	1.66e-03	1.80e-04	2.36e-03
## 94	9.36e-03	-7.16e-03	-7.24e-03	1.02e-02	-1.96e-04	1.71e-03	-1.99e-03
## 95	-3.30e-03	3.53e-03	-2.99e-03	5.56e-03	6.78e-04	-5.32e-03	3.37e-05
## 96	3.19e-03	1.40e-02	1.12e-02	-7.92e-03	-3.41e-03	-2.85e-03	6.66e-03
## 97	-1.65e-03	-2.79e-03	4.59e-04	5.51e-05	3.20e-03	-3.04e-03	3.63e-03
## 98	-2.24e-02	-2.49e-02	4.30e-03	-7.40e-03	-1.37e-02	2.68e-02	5.85e-03
## 99	8.97e-04	-1.67e-03	2.00e-04	-1.66e-03	-1.13e-03	-1.71e-03	-6.80e-04
## 100	-1.50e-02	1.34e-02	-2.51e-02	1.90e-02	-9.13e-03	-7.19e-03	-9.35e-03
## 101	5.79e-03	5.91e-03	-8.59e-04	1.43e-03	3.32e-03	-8.56e-03	-1.72e-03
## 102	9.47e-03	-5.24e-03	5.22e-04	-5.20e-03	-5.04e-03	-9.44e-03	-1.13e-03
## 103	-8.43e-03	9.39e-03	-5.21e-03	9.03e-03	2.54e-03	-1.67e-03	-1.12e-03
## 104	-4.26e-03	-5.27e-03	1.01e-02	-4.32e-03	4.22e-03	6.90e-03	8.77e-03
## 105	5.70e-03	-2.93e-02	2.62e-02	2.86e-02	-3.64e-02	5.34e-02	-5.21e-03
## 106	-2.56e-02	1.07e-02	-5.75e-03	3.28e-03	4.39e-03	-1.55e-02	1.89e-02
## 107	7.28e-04	-4.48e-03	-2.78e-03	7.44e-04	-5.97e-03	-1.37e-03	5.82e-04
## 108	-1.40e-02	-6.84e-03	-2.37e-03	4.39e-03	3.13e-03	2.08e-03	1.25e-02
## 109	-2.83e-02	1.21e-02	-1.01e-02	1.30e-02	3.02e-03	4.54e-03	-9.74e-04
## 110	1.37e-03	-3.82e-03	-2.05e-04	2.23e-04	3.39e-03	-1.15e-02	-1.99e-03
## 111	-3.27e-03	-2.29e-02	2.63e-02	2.83e-02	-2.70e-02	-1.11e-02	1.88e-03
## 112	2.63e-05	2.21e-03	1.37e-04	-2.15e-03	-9.37e-04	-2.62e-03	1.13e-04
## 113	-1.33e-03	-1.25e-02	-1.04e-02	1.15e-02	1.31e-03	1.15e-02	1.48e-02
## 114	2.24e-02	1.60e-02	-2.61e-02	1.94e-02	-8.72e-03	-3.10e-03	1.63e-03
## 115	-1.36e-03	-2.96e-03	-5.48e-04	-3.95e-04	-3.02e-03	2.69e-03	5.53e-03
## 116	8.11e-03	1.68e-02	-4.81e-03	-1.44e-02	-1.64e-02	7.53e-03	1.55e-02
## 117	-1.00e-02	-4.02e-03	-1.11e-03	3.28e-03	2.32e-03	-2.96e-03	8.86e-03
## 118	-1.59e-02	1.08e-02	6.70e-03	8.26e-03	1.50e-02	-5.06e-03	7.77e-03
## 119	-1.08e-04	-1.58e-04	-7.65e-06	1.22e-04	1.06e-04	1.03e-04	5.29e-05

## 120	5.35e-03	1.32e-02	-6.71e-03	-7.85e-03	-1.68e-02	5.16e-03	-3.72e-03
## 121	-2.20e-03	-1.09e-02	-6.99e-03	-8.28e-05	-1.49e-02	-4.33e-03	-4.50e-04
## 122	6.64e-03	-6.14e-03	-9.74e-04	1.86e-03	3.00e-03	-5.51e-03	-1.33e-03
## 123	1.30e-02	-1.15e-02	9.51e-03	-4.32e-03	-2.40e-03	3.00e-03	5.57e-03
## 124	9.52e-05	-8.79e-03	8.14e-05	-7.86e-03	-8.80e-03	-3.43e-03	-2.02e-03
## 125	8.59e-03	-5.71e-03	4.37e-04	-5.45e-03	-5.40e-03	-7.25e-03	-8.16e-04
## 126	-1.15e-02	8.04e-03	-1.93e-03	6.00e-03	4.20e-03	-3.77e-03	1.25e-02
## 127	1.06e-02	1.53e-02	-2.94e-02	-1.55e-02	6.89e-03	-5.23e-03	8.07e-03
## 128	-4.31e-04	-8.08e-04	4.96e-04	8.57e-04	-1.25e-03	-1.61e-03	9.90e-04
## 129	5.84e-03	5.81e-03	-8.17e-04	1.40e-03	3.27e-03	-8.49e-03	-1.81e-03
## 130	-3.50e-03	5.44e-03	1.23e-02	8.78e-03	-1.15e-03	1.04e-02	9.37e-03
## 131	-1.14e-02	-2.03e-02	-1.90e-02	1.16e-02	1.78e-03	4.15e-03	-9.54e-03
## 132	-5.62e-02	2.07e-02	8.55e-03	1.21e-02	2.60e-02	-3.67e-03	-2.22e-02
## 133	6.54e-03	-2.36e-03	3.18e-04	-2.96e-03	-1.27e-03	-3.27e-03	-1.34e-03
## 134	1.30e-02	-1.54e-02	1.01e-02	-4.40e-03	-4.19e-03	2.37e-02	-2.12e-02
## 135	2.43e-02	-1.95e-02	6.30e-03	-5.62e-03	-8.63e-03	1.91e-02	7.90e-03
## 136	1.18e-03	-2.42e-03	-7.03e-04	2.32e-03	1.45e-03	-1.74e-05	-3.32e-03
## 137	-5.53e-03	-1.22e-02	-8.84e-03	8.61e-03	2.67e-03	1.99e-03	1.71e-02
## 138	1.17e-03	2.81e-03	-2.43e-04	4.81e-04	2.21e-03	-6.51e-03	-1.35e-03
## 139	2.51e-04	-7.37e-04	-2.18e-04	-1.68e-03	1.51e-03	-1.59e-03	-2.42e-04
## 140	1.42e-02	1.09e-02	-2.10e-02	1.97e-02	-8.10e-03	4.43e-03	-1.19e-02
## 141	-4.57e-03	2.61e-03	-7.52e-03	-1.17e-03	4.30e-03	1.52e-03	4.46e-03
## 142	-2.74e-02	2.01e-02	5.05e-03	-9.03e-03	-7.91e-03	-5.57e-03	4.51e-02
## 143	-8.76e-03	-8.02e-03	-8.93e-03	-8.83e-03	1.06e-02	-1.13e-02	2.22e-03
## 144	-5.93e-03	4.87e-03	-3.96e-03	6.11e-03	1.10e-03	1.49e-03	9.12e-04
## 145	1.27e-04	-6.97e-04	-1.62e-03	5.65e-04	-7.66e-04	-1.30e-03	8.66e-04
## 146	-2.10e-04	-9.38e-04	-2.43e-04	2.48e-05	-1.08e-03	-1.01e-03	3.56e-04
## 147	8.86e-04	4.33e-03	-5.32e-05	1.24e-03	3.00e-03	-8.76e-03	-4.09e-04
## 148	1.25e-02	-1.80e-02	7.65e-03	-4.84e-03	-6.79e-03	1.92e-02	8.18e-03
## 149	-6.85e-05	4.73e-03	9.03e-04	9.58e-03	-1.04e-02	4.76e-04	-1.73e-03
## 150	1.91e-02	8.98e-03	-9.18e-04	-7.63e-03	-1.07e-02	5.11e-03	-7.08e-03
## 151	2.35e-02	-1.26e-02	-4.99e-04	-1.14e-02	-1.45e-02	9.42e-04	-9.45e-03
## 152	7.68e-03	-9.88e-03	7.97e-03	-4.75e-03	-2.36e-03	-7.95e-03	6.59e-03
## 153	2.81e-03	-2.88e-03	-1.74e-03	6.10e-04	-3.97e-03	-3.40e-03	-5.92e-05
## 154	-2.88e-03	-4.24e-03	-8.03e-04	3.35e-04	4.08e-03	-9.04e-04	-4.26e-04
## 155	8.07e-03	-5.23e-03	4.18e-04	-4.86e-03	-4.94e-03	-5.98e-03	-9.35e-04
## 156	-1.40e-03	-1.72e-02	-1.02e-02	-1.27e-02	-2.43e-02	-3.21e-03	2.16e-02
## 157	-4.70e-03	-1.77e-02	-1.62e-02	1.31e-02	2.41e-03	1.12e-03	-8.21e-03
## 158	1.02e-03	2.14e-03	3.12e-04	-1.72e-03	-1.95e-03	-1.11e-03	2.15e-04
## 159	-3.00e-03	5.12e-03	1.32e-03	-3.78e-03	-4.06e-03	-5.40e-03	-8.48e-04
## 160	7.16e-04	4.02e-03	-2.36e-04	1.94e-03	2.77e-03	-1.05e-02	-5.46e-03
## 161	8.93e-03	-8.12e-03	8.75e-04	1.29e-02	-1.76e-02	1.05e-04	-3.58e-03
## 162	1.39e-02	1.65e-02	1.65e-02	3.01e-02	-2.21e-02	-3.95e-03	1.37e-03
## 163	-2.31e-02	-1.90e-02	-1.32e-02	6.04e-03	4.27e-03	-3.66e-03	2.17e-02
## 164	5.42e-04	1.32e-03	-4.35e-04	1.45e-03	5.09e-04	-4.71e-04	-2.23e-03
## 165	2.57e-03	-3.53e-03	6.23e-04	-3.01e-03	-2.94e-03	-5.02e-03	2.74e-04
## 166	2.17e-03	-2.35e-03	1.01e-03	3.11e-03	-4.27e-03	-7.13e-03	-1.15e-03
## 167	1.30e-02	1.32e-02	9.90e-03	-5.27e-03	-2.66e-03	6.43e-03	-1.66e-02
## 168	-5.46e-03	-3.50e-03	1.76e-03	3.20e-03	-4.88e-03	1.56e-03	5.39e-03
## 169	-2.63e-05	-2.12e-02	-4.01e-02	2.36e-02	-1.44e-02	-4.43e-02	-3.08e-02

## 170	6.74e-03	-4.18e-03	1.14e-04	-3.32e-03	-4.13e-03	-1.98e-03	-4.46e-04
## 171	-8.73e-04	5.68e-03	-3.67e-03	-7.93e-03	7.30e-03	-4.53e-05	8.32e-03
## 172	-1.81e-02	8.64e-03	8.98e-03	1.88e-02	-1.18e-02	-7.69e-03	9.51e-03
## 173	2.36e-03	8.04e-03	-1.91e-03	-1.49e-02	1.35e-02	-4.88e-03	-2.93e-03
## 174	9.99e-03	2.25e-02	2.28e-02	2.67e-02	-2.54e-02	7.53e-03	-3.26e-02
## 175	1.02e-03	-1.50e-03	-2.41e-04	1.11e-03	8.50e-04	5.72e-05	1.51e-04
## 176	8.21e-03	-4.83e-03	-3.11e-03	-8.01e-03	7.05e-03	4.23e-03	-8.27e-03
## 177	1.67e-02	1.21e-02	-2.38e-02	-9.64e-03	4.61e-03	-1.32e-03	5.28e-03
## 178	1.50e-02	1.48e-02	-3.67e-02	-1.17e-02	3.68e-03	2.85e-03	-1.92e-02
## 179	4.34e-02	-1.80e-02	-1.43e-02	-1.13e-02	-2.71e-02	5.23e-03	-1.66e-02
## 180	6.33e-04	7.72e-04	-4.74e-04	-1.03e-03	1.18e-03	1.86e-03	1.19e-04
## 181	1.29e-02	2.07e-02	1.04e-02	-6.10e-03	-7.57e-03	4.13e-02	-3.04e-02
## 182	-1.31e-02	-1.25e-02	-3.44e-03	2.89e-03	4.56e-03	-8.73e-03	-3.80e-03
## 183	1.02e-02	-1.32e-02	1.04e-02	-6.58e-03	-2.19e-03	1.15e-03	6.38e-03
## 184	4.17e-03	4.81e-03	-4.85e-05	-2.08e-03	-5.06e-03	1.56e-04	-1.66e-03
## 185	1.34e-04	1.59e-02	1.22e-02	-8.25e-03	-3.31e-03	-6.05e-03	-1.55e-02
## 186	1.56e-02	1.87e-02	1.44e-02	3.85e-02	-2.41e-02	3.88e-02	-2.73e-02
## 187	-4.30e-03	9.68e-03	-5.14e-03	4.96e-03	3.60e-03	4.26e-03	-3.71e-03
## 188	-1.40e-02	9.75e-03	-3.18e-03	2.25e-03	3.97e-03	-1.33e-02	1.64e-02
## 189	1.85e-03	-3.53e-03	-2.01e-04	1.54e-03	2.17e-03	-4.38e-03	-1.05e-04
## 190	-4.04e-04	-7.02e-03	-5.82e-03	-1.05e-02	8.99e-03	3.16e-03	-1.13e-02
## 191	3.23e-03	3.84e-03	-3.61e-04	-1.35e-03	-4.33e-03	-9.05e-05	-5.93e-03
## 192	-8.39e-03	-1.33e-02	1.32e-02	2.47e-02	-1.58e-02	-5.58e-03	-1.01e-02
## 193	-2.90e-04	3.98e-03	-2.32e-04	2.27e-04	3.42e-03	-9.12e-03	-2.03e-03
## 194	9.00e-05	2.09e-04	8.32e-05	-5.37e-05	2.50e-04	3.67e-04	-7.61e-05
## 195	7.19e-04	-2.94e-03	-3.33e-04	6.79e-04	2.50e-03	-4.90e-03	-1.34e-03
## 196	1.82e-02	-1.18e-02	-1.01e-02	-2.44e-02	1.85e-02	1.09e-02	1.45e-02
## 197	3.46e-03	3.18e-03	1.19e-04	-1.81e-03	-2.57e-03	-5.84e-03	-4.39e-03
## 198	7.11e-03	8.34e-03	-7.80e-03	1.06e-02	-1.76e-04	4.83e-03	-2.94e-03
## 199	-3.99e-04	1.69e-03	-7.93e-04	3.46e-04	-2.31e-03	-3.09e-03	6.39e-04
## 200	5.97e-03	5.14e-03	1.84e-03	7.47e-03	-1.11e-02	-7.39e-03	-1.19e-03
## 201	6.39e-03	-1.12e-02	-8.65e-03	-2.09e-02	1.74e-02	2.17e-04	1.69e-02
## 202	1.47e-03	-1.33e-02	-8.32e-03	6.36e-03	3.46e-03	6.10e-03	1.59e-02
## 203	-3.00e-03	1.79e-03	-7.87e-04	4.14e-04	-2.41e-03	-2.15e-03	8.83e-04
## 204	-1.10e-02	1.66e-02	-4.28e-03	2.80e-02	-3.96e-02	3.54e-03	1.82e-02
## 205	-2.38e-02	8.92e-03	-7.34e-03	8.72e-03	1.50e-03	1.09e-02	1.56e-02
## 206	-7.08e-03	-8.45e-03	-4.64e-03	6.65e-03	2.66e-03	-1.46e-03	1.36e-02
## 207	-3.84e-04	-2.70e-03	3.88e-04	-2.98e-05	2.89e-03	-2.49e-03	-5.45e-03
## 208	1.77e-02	-1.26e-02	8.43e-03	-4.12e-03	-3.23e-03	-3.10e-03	-1.35e-02
## 209	-2.70e-02	1.51e-02	9.04e-03	-1.04e-02	-3.44e-03	-2.34e-02	-1.37e-02
## 210	1.27e-03	3.71e-03	-3.31e-03	-4.33e-03	4.58e-03	-1.14e-03	5.24e-03
## 211	9.82e-03	-1.86e-02	8.01e-03	-5.57e-03	-6.64e-03	2.17e-02	7.89e-03
## 212	-2.15e-02	-1.35e-02	-5.90e-03	3.21e-03	4.19e-03	-2.25e-02	2.01e-02
## 213	2.24e-03	-2.27e-03	-8.71e-04	-5.42e-03	4.66e-03	-6.44e-03	-1.05e-03
## 214	1.25e-03	-1.58e-03	1.64e-04	-9.72e-04	-1.39e-03	-5.77e-05	2.06e-04
## 215	-2.73e-02	1.85e-02	3.36e-02	-2.71e-02	1.21e-02	2.80e-03	-5.85e-03
## 216	1.26e-02	-5.63e-03	-5.86e-03	-7.27e-03	7.32e-03	7.70e-03	7.43e-03
## 217	3.95e-03	-4.39e-03	4.15e-05	1.49e-04	4.26e-03	-7.89e-03	-9.88e-03
## 218	-1.53e-04	-1.03e-03	5.56e-04	1.16e-03	-1.56e-03	-4.86e-04	-1.95e-03
## 219	-4.80e-04	-4.02e-04	5.40e-05	-1.50e-05	4.57e-04	1.65e-04	6.67e-04

## 220	-7.54e-03	-1.85e-02	-1.40e-02	9.11e-03	4.28e-03	-1.04e-03	2.01e-02
## 221	1.69e-02	1.33e-02	9.41e-03	-4.59e-03	-2.88e-03	1.44e-03	-1.57e-02
## 222	-3.51e-04	2.06e-03	1.15e-03	2.30e-03	-3.42e-03	-4.09e-03	2.31e-03
## 223	7.37e-03	5.42e-03	6.92e-04	-5.47e-03	-4.75e-03	-1.42e-02	-5.48e-04
## 224	1.08e-02	-2.15e-02	8.38e-03	4.94e-02	-3.38e-02	1.09e-02	7.60e-03
## 225	6.80e-03	-4.40e-03	-7.18e-04	2.17e-03	2.58e-03	-8.33e-03	-6.96e-04
## 226	-7.81e-03	1.15e-02	-5.59e-03	7.33e-03	5.22e-03	-2.58e-03	1.72e-02
## 227	1.05e-02	-5.67e-03	5.00e-04	-2.97e-03	-6.04e-03	2.52e-03	-2.30e-03
## 228	4.92e-03	1.94e-02	9.96e-03	3.93e-02	-2.76e-02	1.19e-02	8.73e-03
## 229	-3.20e-03	1.50e-02	-1.17e-02	1.11e-02	9.72e-04	7.84e-03	-5.50e-03
## 230	2.59e-03	-1.51e-03	4.70e-05	-3.81e-04	-1.59e-03	-1.31e-03	-2.65e-03
## 231	-3.57e-04	5.22e-03	-2.41e-03	5.70e-03	1.88e-03	-4.40e-03	-1.94e-04
## 232	3.83e-03	6.13e-03	-3.74e-03	5.76e-03	8.76e-04	5.40e-03	7.37e-03
## 233	2.64e-03	-1.34e-02	8.26e-03	-4.10e-03	-3.69e-03	-7.60e-03	-1.13e-02
## 234	2.05e-03	3.40e-03	6.20e-04	-4.12e-03	-2.04e-03	-9.59e-03	-1.61e-03
## 235	7.61e-03	-5.35e-03	-2.02e-03	3.63e-03	2.14e-03	3.68e-03	-9.23e-03
## 236	-4.89e-03	-1.77e-02	9.58e-03	-5.41e-03	-6.74e-03	1.22e-02	3.97e-02
## 237	-2.00e-02	-9.13e-03	-1.31e-03	2.98e-03	5.03e-03	-1.84e-02	1.66e-02
## 238	-1.80e-02	1.74e-02	-1.94e-02	-3.21e-02	2.14e-02	-2.26e-03	-6.26e-03
## 239	-3.50e-03	9.84e-03	-2.16e-02	-8.29e-03	3.32e-03	-6.19e-03	-7.20e-03
## 240	-1.40e-03	2.00e-03	1.26e-04	9.56e-04	1.61e-03	-3.10e-03	3.62e-04
## 241	-3.00e-04	2.77e-03	8.33e-04	-3.85e-03	-9.33e-04	1.07e-03	3.69e-03
## 242	-4.00e-04	3.70e-04	-2.19e-04	5.68e-04	9.04e-05	-5.29e-04	9.58e-05
## 243	4.97e-03	-3.30e-03	2.13e-04	-1.33e-03	-3.65e-03	4.48e-04	-7.13e-04
## 244	-1.69e-04	-5.17e-03	9.39e-03	-4.16e-03	2.92e-03	4.11e-03	7.01e-03
## 245	8.18e-03	-1.22e-02	2.90e-02	9.12e-03	-2.66e-03	-1.53e-03	-8.95e-03
## 246	-2.44e-02	1.72e-02	3.99e-02	1.09e-02	-2.97e-03	1.50e-03	1.91e-02
## 247	-8.02e-03	6.66e-03	-3.66e-03	6.86e-03	2.30e-03	5.57e-03	-1.31e-02
## 248	1.58e-02	-1.45e-02	-3.07e-02	-1.11e-02	4.18e-03	-3.64e-03	-1.47e-02
## 249	-1.53e-03	-2.08e-02	5.86e-03	-5.32e-03	-9.50e-03	1.34e-02	1.19e-02
## 250	1.45e-03	9.95e-03	-7.54e-03	9.86e-03	2.14e-03	-1.39e-03	-3.09e-03
## 251	1.55e-03	-6.46e-03	-5.85e-03	-8.62e-03	9.06e-03	1.64e-03	9.20e-03
## 252	2.08e-02	1.58e-02	5.72e-03	1.46e-02	1.85e-02	5.35e-03	-2.07e-02
## 253	9.02e-03	-1.64e-02	-3.60e-02	3.08e-02	-1.61e-02	2.72e-02	-2.05e-02
## 254	8.57e-03	5.57e-03	1.07e-03	1.10e-02	-1.20e-02	1.31e-03	-1.21e-02
## 255	9.90e-03	6.74e-03	-1.85e-03	2.40e-03	3.26e-03	-4.65e-03	-2.46e-03
## 256	1.10e-04	-1.48e-03	-2.81e-04	-6.74e-05	-1.56e-03	1.08e-03	2.59e-03
## 257	2.28e-04	-5.59e-04	-1.16e-04	3.46e-05	-6.63e-04	-7.84e-04	1.23e-04
## 258	3.68e-03	5.17e-03	-2.64e-03	5.70e-03	1.36e-03	-1.37e-03	-1.28e-03
## 259	-1.53e-03	1.96e-02	1.25e-02	4.09e-02	-2.69e-02	2.79e-02	8.11e-03
## 260	8.54e-03	-1.22e-02	2.45e-02	-1.70e-02	8.90e-03	4.85e-03	1.49e-02
## 261	5.46e-03	-1.40e-02	-3.30e-02	-9.40e-03	4.68e-03	1.76e-02	-1.61e-02
## 262	-8.35e-03	-9.23e-03	-1.69e-02	-8.05e-03	3.34e-03	-7.08e-03	8.75e-03
## 263	-8.49e-03	1.24e-02	2.01e-02	-1.24e-02	6.52e-03	8.34e-03	-3.12e-03
## 264	4.13e-04	-3.99e-03	-1.02e-03	3.28e-03	2.49e-03	-3.81e-03	7.75e-03
## 265	7.50e-03	-6.52e-03	-5.13e-03	-9.31e-03	9.38e-03	7.58e-04	-2.34e-03
## 266	-3.83e-03	3.32e-03	-3.59e-04	1.21e-04	3.20e-03	6.70e-04	5.21e-03
## 267	9.31e-06	-6.72e-05	1.46e-05	-6.77e-05	-4.22e-05	-4.04e-05	8.32e-05
## 268	2.37e-02	-1.49e-02	3.86e-02	1.42e-02	-4.04e-03	2.15e-02	1.17e-02
## 269	3.46e-02	-3.16e-02	3.99e-03	-3.42e-02	-2.34e-02	-7.83e-02	-1.19e-02

## 270	-1.15e-04	1.93e-04	1.25e-04	2.21e-04	-3.14e-04	-4.29e-04	2.43e-04
## 271	-2.57e-03	1.23e-02	-2.87e-02	-1.03e-02	4.51e-03	-1.09e-02	-1.02e-02
## 272	1.29e-03	-2.75e-03	8.58e-04	3.74e-03	-4.45e-03	-1.12e-03	-6.37e-04
## 273	3.19e-02	-1.91e-02	9.75e-03	-5.70e-03	-6.96e-03	4.46e-02	-3.18e-02
## 274	9.11e-03	1.94e-02	3.57e-02	-2.72e-02	1.37e-02	1.07e-02	-1.16e-02
## 275	3.15e-02	-1.34e-02	8.61e-03	-3.85e-03	-4.36e-03	-7.49e-04	-1.79e-02
## 276	-5.97e-03	-1.52e-02	1.30e-02	2.87e-02	-1.86e-02	-1.46e-03	7.70e-03
## 277	-1.82e-02	2.01e-02	2.55e-02	2.41e-02	-2.03e-02	-2.10e-03	8.02e-03
## 278	1.74e-02	1.13e-02	2.25e-02	-1.54e-02	8.92e-03	-1.94e-03	-7.26e-03
## 279	1.29e-02	1.34e-02	-6.82e-03	6.50e-03	3.60e-03	2.30e-03	1.41e-02
## 280	6.46e-04	-9.67e-03	-3.46e-03	3.54e-03	3.93e-03	-8.80e-03	-4.04e-03
## 281	2.83e-03	-8.39e-03	-2.05e-03	2.86e-03	4.29e-03	-5.42e-04	-4.02e-03
## 282	-3.82e-03	-1.01e-02	-3.59e-03	3.78e-03	3.91e-03	-2.23e-03	-3.39e-03
## 283	1.25e-02	-7.74e-03	1.62e-03	1.07e-02	-1.55e-02	-1.05e-02	-1.37e-02
## 284	-1.68e-03	-2.18e-03	-1.11e-03	2.41e-03	4.56e-04	5.40e-03	-2.98e-03
## 285	3.42e-03	-1.41e-02	7.26e-03	1.01e-02	1.96e-02	-1.26e-02	-1.54e-02
## 286	-2.95e-02	-1.57e-02	-1.22e-02	1.08e-02	3.63e-03	-1.22e-02	3.27e-05
## 287	-5.99e-03	-1.09e-02	-4.69e-03	5.32e-03	2.92e-03	6.50e-04	-3.42e-03
## 288	2.52e-02	-1.42e-02	1.23e-02	3.06e-02	-1.97e-02	6.23e-03	-1.85e-02
## 289	1.32e-02	-1.34e-02	-2.85e-02	-8.99e-03	3.54e-03	-1.06e-04	-1.27e-02
## 290	1.12e-02	-1.97e-02	8.93e-03	-8.08e-03	-6.73e-03	1.38e-02	8.26e-03
## 291	2.24e-02	-1.26e-02	-2.59e-02	-1.25e-02	5.44e-03	-4.22e-03	4.18e-03
## 292	-1.29e-03	2.69e-03	-6.51e-04	2.15e-03	1.50e-03	2.21e-03	-4.51e-04
## 293	-8.87e-03	8.93e-03	-1.59e-03	-6.44e-03	-1.01e-02	2.72e-03	1.39e-02
## 294	-5.75e-03	-2.27e-02	4.93e-02	1.70e-02	-7.95e-03	1.03e-02	1.69e-02
## 295	5.83e-03	-5.40e-03	-9.34e-04	2.03e-03	2.59e-03	-2.15e-03	-1.24e-03
## 296	5.79e-03	5.93e-03	-8.64e-04	1.43e-03	3.32e-03	-8.57e-03	-1.71e-03
## 297	-5.34e-03	-1.82e-03	-5.56e-04	9.48e-05	-1.94e-03	2.26e-04	3.66e-03
## 298	2.80e-03	1.85e-02	3.13e-02	-2.24e-02	1.03e-02	7.39e-03	-1.18e-02
## 299	1.47e-02	9.56e-03	-4.88e-03	-3.46e-03	-1.40e-02	7.37e-03	-2.24e-02
## 300	5.55e-03	1.53e-02	1.59e-03	-2.20e-02	3.43e-02	-3.24e-03	-1.67e-02
## 301	-1.61e-03	1.09e-02	-4.47e-03	7.40e-03	4.33e-03	-6.03e-03	-4.54e-03
## 302	-3.97e-04	5.91e-03	-1.23e-02	-4.71e-03	2.34e-03	-2.45e-03	5.36e-03
## 303	7.05e-03	1.90e-02	-1.10e-02	6.61e-03	3.51e-03	1.57e-02	1.49e-02
## 304	1.15e-04	3.55e-04	4.16e-05	4.56e-06	3.61e-04	-2.62e-04	-6.65e-04
## 305	-1.52e-02	1.22e-02	-6.61e-03	2.59e-02	-3.21e-02	1.10e-02	-1.23e-03
## 306	5.28e-05	-2.01e-04	-5.15e-06	6.25e-05	1.77e-04	-2.40e-04	2.50e-04
## 307	2.21e-02	-1.42e-02	-2.53e-02	1.98e-02	-9.13e-03	-3.39e-03	3.75e-03
## 308	-1.97e-03	4.70e-03	1.11e-03	-2.90e-03	-4.63e-03	-7.88e-04	-7.09e-04
## 309	-3.93e-03	1.50e-02	3.42e-02	-9.93e-04	-2.95e-02	6.73e-03	-6.03e-03
## 310	6.68e-03	5.15e-03	-1.12e-04	1.19e-02	-1.18e-02	2.23e-03	-1.05e-02
## 311	1.60e-02	-6.56e-03	-1.64e-03	2.12e-03	3.07e-03	-1.42e-02	-2.81e-03
## 312	6.78e-03	-1.23e-02	-7.03e-03	7.82e-03	2.71e-03	1.41e-02	1.42e-02
## 313	2.01e-03	-5.23e-03	-2.24e-03	6.24e-03	2.40e-03	-4.24e-03	-6.64e-04
## 314	-2.28e-02	-1.99e-02	3.88e-02	-3.50e-02	1.46e-02	-9.98e-03	2.19e-02
## 315	1.15e-02	-1.16e-02	8.45e-03	-4.45e-03	-3.20e-03	-2.87e-03	-1.21e-02
## 316	2.31e-03	4.84e-03	-1.43e-03	-7.51e-04	-5.57e-03	-2.47e-03	2.81e-05
## 317	3.82e-04	-1.50e-03	4.23e-04	-1.84e-03	-9.06e-04	-4.44e-03	-5.03e-04
## 318	-5.00e-02	2.88e-02	-4.20e-03	1.32e-02	2.97e-02	-7.22e-03	6.97e-03
## 319	-2.36e-03	-1.28e-02	-2.38e-02	1.81e-02	-8.37e-03	-6.59e-03	-9.61e-03

## 320	-2.13e-03	1.42e-02	-1.42e-02	-2.24e-02	1.67e-02	3.74e-03	-2.86e-03
## 321	-4.32e-02	2.82e-02	-7.93e-02	-4.29e-02	3.79e-03	-1.00e-02	5.95e-02
## 322	2.55e-06	-1.04e-03	-2.20e-04	1.73e-05	-1.10e-03	1.14e-03	1.85e-03
## 323	-7.80e-03	1.21e-02	-5.00e-03	3.23e-03	4.59e-03	-1.32e-02	-5.92e-03
## 324	-4.18e-03	-6.57e-03	9.76e-04	-5.63e-03	-5.73e-03	-6.73e-03	-6.96e-04
## 325	3.12e-05	-2.09e-04	7.20e-05	-2.52e-04	-9.69e-05	-1.52e-04	-3.79e-04
## 326	1.34e-02	-1.01e-02	-1.15e-02	-1.38e-02	1.16e-02	5.32e-03	-4.47e-03
## 327	1.14e-03	-1.80e-02	3.92e-02	-3.13e-02	1.44e-02	5.39e-03	1.64e-02
## 328	1.60e-02	1.14e-02	-2.46e-02	-6.91e-03	3.61e-03	3.36e-03	-1.21e-02
## 329	-8.80e-03	-1.53e-02	3.42e-02	-4.85e-03	-2.49e-02	1.50e-03	2.09e-02
## 330	-1.25e-02	-1.98e-02	3.90e-02	1.86e-02	-9.16e-03	-9.72e-04	-8.83e-03
## 331	5.02e-04	-1.37e-03	1.69e-04	-7.46e-04	-1.11e-03	-2.84e-04	3.55e-04
## 332	5.47e-03	-5.66e-03	-6.76e-04	2.01e-03	3.35e-03	-9.08e-03	-9.80e-04
## 333	-6.28e-03	1.06e-02	-9.27e-03	1.17e-02	2.28e-03	-2.93e-03	-2.26e-03
## 334	1.13e-02	1.21e-02	1.01e-02	-5.41e-03	-2.10e-03	1.79e-03	5.54e-03
## 335	1.25e-02	1.28e-02	9.19e-03	-5.02e-03	-2.66e-03	-3.55e-03	6.13e-03
## 336	-4.06e-02	-3.14e-02	9.57e-03	-7.84e-04	4.25e-02	-1.11e-02	5.18e-02
## 337	1.41e-02	2.07e-02	1.57e-02	-2.28e-02	-5.82e-03	2.31e-02	3.30e-03
## 338	-3.45e-03	2.53e-03	6.35e-04	-3.50e-03	-1.08e-03	4.04e-04	4.39e-03
## 339	3.03e-03	-1.41e-02	-1.26e-02	1.25e-02	1.55e-03	7.51e-03	1.56e-02
## 340	-1.28e-02	-2.13e-02	2.95e-02	2.45e-02	-2.29e-02	-3.64e-03	8.23e-03
## 341	1.16e-03	-5.39e-03	1.41e-02	5.14e-03	-1.05e-03	2.84e-03	-1.98e-03
## 342	-7.01e-03	5.09e-03	2.04e-03	5.17e-03	-7.97e-03	1.98e-03	8.64e-03
## 343	1.57e-03	-8.74e-04	-4.07e-04	2.35e-05	-1.17e-03	1.08e-03	-1.40e-03
## 344	2.45e-04	-5.90e-04	1.76e-04	-6.71e-04	-3.45e-04	-2.09e-03	-1.47e-04
## 345	1.97e-03	-1.75e-03	3.41e-04	3.34e-03	-3.53e-03	1.62e-03	1.20e-04
## 346	-1.97e-02	-2.17e-02	4.60e-02	1.43e-02	-7.49e-03	-1.07e-02	-1.51e-02
## 347	5.65e-04	8.89e-03	7.02e-03	-3.55e-03	-1.96e-03	-5.59e-03	-7.62e-03
## 348	2.37e-04	3.11e-03	1.33e-03	3.69e-03	-5.30e-03	-7.83e-03	-1.45e-03
## 349	-3.23e-03	-1.56e-02	-1.05e-02	9.11e-03	3.23e-03	4.03e-03	1.93e-02
## 350	-2.02e-03	-3.29e-03	6.56e-03	-2.58e-03	2.27e-03	-2.23e-03	5.77e-03
## 351	6.29e-04	1.23e-03	1.69e-04	-5.03e-04	-1.13e-03	-8.22e-04	-1.96e-03
## 352	-1.53e-02	6.32e-03	1.85e-03	1.15e-02	-1.48e-02	-3.05e-03	-1.54e-04
## 353	-5.64e-03	-2.26e-02	4.90e-02	1.72e-02	-7.93e-03	1.25e-02	1.67e-02
## 354	-1.39e-02	-1.45e-02	8.70e-03	1.10e-02	1.76e-02	6.16e-03	9.09e-03
## 355	4.82e-03	1.84e-02	-4.23e-02	-1.58e-02	3.69e-03	-5.07e-05	-2.50e-02
## 356	5.55e-03	1.26e-02	1.05e-02	-6.60e-03	-1.65e-03	8.14e-04	-1.42e-02
## 357	5.27e-03	-1.21e-02	2.98e-02	1.03e-02	-2.60e-03	-3.29e-03	-2.62e-02
## 358	-5.64e-03	5.08e-03	-4.51e-03	-5.77e-03	6.78e-03	-6.48e-03	1.38e-03
## 359	2.61e-02	-2.20e-02	-4.84e-02	3.35e-02	-1.98e-02	2.92e-03	-3.69e-02
## 360	-6.07e-03	9.66e-03	-4.07e-03	-2.59e-03	-1.16e-02	-1.18e-03	-1.32e-03
## 361	5.46e-03	4.70e-03	1.63e-03	7.12e-03	-1.02e-02	-4.99e-03	-1.12e-03
## 362	-4.30e-03	-7.84e-03	-3.80e-03	7.97e-03	3.22e-03	-5.61e-03	1.24e-02
## 363	-2.79e-03	1.59e-03	-1.15e-03	-2.34e-03	2.50e-03	2.20e-03	2.83e-04
## 364	-2.53e-04	-1.26e-03	-2.08e-04	1.08e-03	7.85e-04	1.41e-03	3.31e-04
## 365	-1.09e-02	1.42e-02	-8.29e-03	7.12e-03	2.72e-03	2.87e-03	1.82e-02
## 366	-6.00e-04	-1.24e-02	8.53e-03	-6.01e-03	-2.70e-03	-6.69e-03	-1.00e-02
## 367	1.00e-02	9.53e-03	-6.21e-03	-1.59e-02	1.23e-02	-1.12e-03	-4.19e-03
## 368	7.45e-03	-6.17e-03	-7.58e-04	1.48e-03	3.13e-03	-8.54e-03	-1.86e-03
## 369	-6.30e-03	6.88e-03	-8.89e-03	-7.00e-03	7.98e-03	-3.53e-03	2.32e-04

## 370	-6.16e-04	-9.90e-04	2.99e-04	-1.92e-04	1.20e-03	1.55e-03	-1.28e-04
## 371	4.31e-04	1.25e-03	1.16e-04	-8.24e-04	-1.19e-03	5.88e-04	2.27e-04
## 372	5.50e-03	-9.42e-03	7.73e-03	-3.67e-03	-2.26e-03	-1.14e-03	5.70e-03
## 373	-7.39e-03	3.00e-03	1.43e-03	5.26e-03	-5.95e-03	-2.41e-03	6.72e-03
## 374	3.31e-03	-5.99e-03	-3.09e-03	-5.54e-04	-8.39e-03	-2.07e-03	-1.56e-04
## 375	-1.61e-03	1.43e-02	-1.29e-02	1.25e-02	1.77e-03	8.26e-03	1.63e-02
## 376	5.99e-03	-4.57e-03	-1.53e-03	4.56e-03	1.59e-03	1.38e-03	-9.06e-03
## 377	-2.71e-02	1.13e-02	-5.96e-03	2.80e-03	4.65e-03	-2.04e-02	2.02e-02
## 378	-2.66e-02	1.39e-02	1.53e-02	2.41e-02	-1.67e-02	-5.42e-03	1.03e-02
## 379	-1.78e-03	2.03e-03	3.11e-04	-2.60e-03	-1.02e-03	-2.77e-04	3.37e-03
## 380	-2.01e-02	1.32e-02	-6.63e-03	7.80e-03	4.41e-03	2.17e-04	-1.80e-03
## 381	-4.70e-04	-7.22e-03	-6.14e-03	-1.14e-02	9.82e-03	1.03e-04	1.16e-02
## 382	1.40e-02	-2.00e-02	6.85e-03	-4.89e-03	-9.71e-03	1.16e-02	9.50e-03
## 383	-4.18e-04	-6.00e-04	-1.63e-03	-2.14e-04	9.43e-04	-2.16e-04	-1.04e-03
## 384	-3.37e-03	-1.07e-02	9.03e-03	-3.93e-03	-1.95e-03	-1.42e-03	7.34e-03
## 385	-8.68e-03	1.09e-02	-8.74e-03	1.27e-02	2.71e-03	-1.26e-02	1.63e-04
## 386	-2.46e-02	-2.43e-02	-6.18e-02	4.39e-02	-2.60e-02	2.28e-02	7.87e-03
## 387	8.02e-03	2.17e-02	-3.37e-02	2.00e-02	-1.05e-02	-7.53e-03	4.16e-03
## 388	4.15e-03	-4.04e-03	-1.64e-03	3.65e-03	1.57e-03	3.42e-03	6.16e-03
## 389	-1.19e-02	1.29e-02	-1.43e-02	1.41e-02	-4.24e-04	1.20e-02	-4.37e-03
## 390	-9.69e-03	9.10e-03	1.91e-03	1.40e-02	-2.17e-02	-9.68e-03	-3.60e-03
## 391	2.72e-03	-1.82e-02	-1.83e-02	1.56e-02	9.31e-04	3.78e-03	-9.11e-03
## 392	3.52e-02	1.27e-02	2.53e-02	-1.60e-02	8.97e-03	1.35e-03	-3.03e-02
## 393	-7.45e-03	-1.49e-02	3.55e-02	8.14e-03	-2.93e-03	-1.57e-02	-8.09e-03
## 394	4.85e-03	-4.84e-03	-9.79e-04	2.23e-03	2.23e-03	9.51e-04	-9.12e-04
## 395	-6.19e-03	-1.82e-02	2.93e-02	-1.99e-02	9.35e-03	5.51e-03	-7.24e-03
## 396	-2.85e-03	1.88e-03	5.21e-04	-2.65e-03	-8.05e-04	5.97e-04	3.23e-03
## 397	2.85e-02	1.58e-02	2.80e-02	-1.73e-02	9.10e-03	1.40e-03	-1.06e-02
## 398	1.56e-02	1.98e-02	1.63e-02	-1.52e-02	-3.02e-03	-1.26e-02	-2.58e-02
## 399	6.77e-03	1.18e-02	2.93e-02	1.28e-02	-4.24e-03	1.22e-02	1.32e-02
## 400	1.60e-03	-2.43e-03	3.18e-04	-1.70e-03	-2.06e-03	-8.56e-04	2.50e-04
## 401	9.92e-04	-1.36e-03	-2.08e-04	1.01e-03	7.77e-04	6.52e-05	8.67e-05
## 402	2.43e-03	-3.43e-03	-2.01e-04	1.51e-03	2.12e-03	-5.70e-03	-6.73e-05
## 403	-1.09e-03	-2.09e-02	2.00e-02	-3.31e-03	3.83e-02	-1.06e-03	2.36e-03
## 404	2.15e-03	3.73e-03	1.46e-03	4.46e-03	-5.35e-03	-5.32e-03	-1.45e-03
## 405	-5.31e-04	3.18e-03	-1.55e-04	1.66e-03	2.33e-03	-4.14e-03	3.05e-04
## 406	4.77e-04	-1.75e-03	5.00e-04	-2.18e-03	-1.06e-03	-5.18e-03	-6.08e-04
## 407	-1.06e-03	5.60e-03	-3.19e-03	2.37e-04	-7.61e-03	-3.77e-03	7.75e-04
## 408	9.46e-04	1.62e-02	3.80e-02	-3.86e-03	-3.11e-02	1.46e-02	1.57e-02
## 409	-4.23e-02	2.42e-02	5.49e-03	-5.95e-03	-1.13e-02	3.55e-02	9.20e-03
## 410	-3.72e-02	-2.40e-02	5.54e-03	-5.63e-03	-1.20e-02	3.61e-02	9.93e-03
## 411	6.76e-03	-1.05e-02	-2.03e-02	-6.72e-03	2.97e-03	1.23e-03	6.36e-03
## 412	5.96e-03	-3.21e-03	-2.26e-03	-4.90e-03	5.11e-03	2.35e-03	-5.30e-03
## 413	-1.71e-02	-1.64e-02	-1.87e-02	-2.68e-02	1.85e-02	3.22e-03	-2.52e-03
## 414	1.19e-03	7.57e-03	-6.27e-03	8.02e-03	5.89e-04	8.19e-03	-2.86e-03
## 415	-1.88e-02	-1.27e-02	2.16e-02	-1.38e-02	6.77e-03	3.68e-03	1.92e-02
## 416	-5.05e-03	-1.25e-02	-5.50e-03	-9.29e-03	-1.56e-02	-2.95e-03	1.63e-02
## 417	-1.19e-03	1.91e-03	-1.72e-03	-1.89e-03	2.34e-03	-2.28e-03	4.46e-04
## 418	1.61e-03	-2.54e-03	-3.64e-05	-1.08e-03	-2.21e-03	-9.38e-05	-3.29e-03
## 419	4.94e-03	1.85e-02	9.11e-03	1.21e-02	2.36e-02	-9.08e-03	-2.17e-02

## 420	4.51e-03	1.15e-02	-2.56e-02	-8.07e-03	4.25e-03	5.35e-03	-1.06e-02
## 421	2.14e-02	-8.50e-03	-1.06e-03	-7.84e-03	-9.07e-03	-1.24e-02	-1.63e-02
## 422	-1.67e-02	-1.71e-02	-1.28e-02	7.51e-03	3.32e-03	-7.85e-03	2.12e-02
## 423	-1.36e-04	1.05e-02	-1.24e-03	2.00e-02	-2.37e-02	1.71e-03	-2.91e-03
## 424	1.05e-03	1.88e-03	-1.61e-04	-8.25e-04	-1.90e-03	2.25e-03	-2.74e-03
## 425	5.83e-03	-8.07e-03	-3.86e-03	4.07e-03	3.29e-03	-7.92e-03	1.14e-02
## 426	-6.70e-03	-7.74e-03	1.45e-02	-7.44e-03	4.90e-03	7.91e-03	-1.12e-02
## 427	1.78e-03	1.24e-02	2.09e-02	-1.08e-02	7.74e-03	-1.04e-02	-4.18e-03
## 428	-1.13e-02	-1.93e-02	-1.12e-02	-1.45e-02	-2.56e-02	2.03e-03	-6.19e-03
## 429	-1.89e-02	1.76e-02	-1.57e-02	1.08e-02	2.27e-03	-4.57e-03	-4.91e-03
## 430	3.27e-04	2.60e-03	1.28e-03	3.02e-03	-3.71e-03	-3.04e-03	3.46e-03
## 431	-5.13e-02	3.21e-02	7.29e-03	7.91e-03	3.47e-02	-1.09e-01	1.48e-03
## 432	-1.63e-03	1.79e-03	2.30e-04	-1.18e-04	1.93e-03	-1.15e-03	-3.43e-03
## 433	3.09e-03	8.60e-03	-1.74e-03	2.90e-03	4.05e-03	-4.05e-03	-5.47e-03
## 434	8.73e-03	-2.04e-02	9.49e-03	-9.22e-03	-6.51e-03	1.50e-02	7.65e-03
## 435	1.05e-04	1.12e-03	-4.30e-04	-1.78e-03	1.93e-03	3.88e-05	2.64e-04
## 436	6.62e-03	-1.07e-02	-4.99e-03	6.51e-03	2.57e-03	4.28e-03	1.31e-02
## 437	7.90e-04	1.23e-03	-5.11e-04	-1.97e-03	1.96e-03	1.63e-04	1.81e-04
## 438	-6.06e-04	-1.20e-03	3.76e-04	-2.41e-04	1.49e-03	2.30e-03	-2.68e-04
## 439	2.06e-03	1.42e-02	-1.44e-02	-2.14e-02	1.49e-02	1.65e-03	-3.84e-03
## 440	-4.86e-04	8.86e-03	-1.16e-03	2.16e-03	3.97e-03	-1.26e-03	-5.30e-03
## 441	4.12e-02	-1.59e-02	-7.61e-03	-1.08e-02	-2.29e-02	1.56e-02	-1.15e-02
## 442	-5.77e-03	-1.24e-02	2.52e-02	1.76e-02	-5.71e-03	3.26e-03	-2.49e-03
## 443	9.17e-03	-6.31e-03	-5.82e-03	-8.15e-03	8.41e-03	-4.83e-04	-1.76e-03
## 444	7.21e-03	-9.94e-03	3.90e-04	1.69e-02	-2.18e-02	2.97e-03	-1.96e-02
## 445	-1.95e-02	-1.36e-02	-1.32e-02	-2.05e-02	1.49e-02	8.27e-03	1.94e-02
## 446	-9.54e-03	2.25e-02	2.30e-02	-2.76e-02	1.44e-03	-8.98e-03	6.64e-03
## 447	2.75e-02	1.49e-02	8.48e-03	-4.08e-03	-4.11e-03	-3.99e-04	-1.76e-02
## 448	8.12e-04	-7.40e-04	-6.45e-05	-1.66e-04	-7.14e-04	3.42e-04	-9.53e-04
## 449	1.47e-02	2.02e-02	-1.11e-02	-1.59e-02	-2.65e-02	1.23e-02	1.56e-02
## 450	2.54e-03	-3.06e-03	3.85e-04	-3.40e-04	3.42e-03	3.77e-03	-6.41e-03
## 451	1.18e-04	-6.71e-04	-2.46e-04	7.26e-04	3.00e-04	1.89e-03	-8.76e-04
## 452	1.57e-02	-9.25e-03	2.47e-02	8.11e-03	-2.26e-03	9.16e-03	-7.41e-03
## 453	9.24e-03	5.67e-03	-5.32e-03	-7.26e-03	6.81e-03	9.30e-03	7.59e-03
## 454	1.11e-02	1.71e-02	1.01e-02	9.42e-03	2.33e-02	-8.88e-03	-2.26e-02
## 455	5.05e-05	2.18e-04	1.04e-04	2.75e-04	-3.59e-04	-4.00e-04	2.52e-04
## 456	2.38e-02	-1.79e-02	-1.79e-02	1.47e-02	1.90e-03	1.46e-02	-1.59e-02
## 457	1.82e-03	7.87e-03	-1.22e-03	-4.14e-03	-8.48e-03	-2.96e-03	9.78e-03
## 458	3.52e-03	-3.25e-03	6.06e-04	-1.61e-03	-3.11e-03	-2.54e-03	-6.94e-04
## 459	7.40e-03	5.95e-03	-2.34e-03	-1.31e-02	9.69e-03	-9.61e-03	-1.51e-03
## 460	-2.37e-02	2.11e-02	-1.73e-02	7.31e-03	4.45e-03	-5.99e-03	-9.94e-03
## 461	5.33e-03	4.50e-03	1.57e-03	6.88e-03	-9.78e-03	-4.42e-03	-1.16e-03
## 462	2.15e-02	-1.10e-02	-9.28e-03	-2.00e-02	1.55e-02	1.09e-03	-8.12e-03
## 463	-5.18e-03	-1.02e-02	5.89e-03	7.94e-03	1.31e-02	-6.56e-03	7.49e-03
## 464	-6.43e-03	-9.95e-03	8.53e-03	-4.58e-03	-2.10e-03	-6.59e-03	8.30e-03
## 465	3.79e-04	1.57e-03	3.10e-03	-9.11e-04	1.13e-03	-3.18e-03	2.30e-04
## 466	-8.58e-03	2.94e-03	-1.45e-03	3.74e-03	1.26e-03	7.00e-03	6.93e-03
## 467	-8.83e-03	4.88e-03	1.13e-02	-4.19e-03	4.11e-03	-5.41e-03	3.63e-04
## 468	-7.74e-03	4.90e-03	-3.77e-03	5.09e-04	-7.32e-03	-8.63e-04	1.65e-03
## 469	5.29e-04	1.08e-03	-4.26e-04	-1.97e-03	1.86e-03	-9.93e-04	-3.73e-04

## 470	2.03e-03	2.25e-02	3.63e-03	1.72e-02	2.52e-02	4.14e-03	6.40e-03
## 471	5.06e-04	-5.41e-03	1.47e-02	4.01e-03	3.82e-04	-4.20e-03	-3.89e-04
## 472	1.95e-04	-1.69e-02	7.83e-03	-4.96e-03	-5.40e-03	1.09e-02	1.10e-02
## 473	1.87e-02	1.49e-02	-1.11e-02	-3.00e-02	2.10e-02	4.13e-03	-1.34e-02
## 474	5.48e-04	4.22e-03	-1.43e-03	-8.17e-03	6.53e-03	2.83e-03	-1.22e-03
## 475	5.79e-04	1.38e-02	6.84e-03	1.38e-02	1.72e-02	3.85e-03	-1.55e-02
## 476	1.25e-02	-1.58e-02	1.46e-02	-1.04e-02	-2.75e-03	-7.07e-03	5.68e-03
## 477	1.44e-02	8.74e-03	2.44e-02	-2.34e-03	-1.57e-02	6.76e-03	-5.50e-03
## 478	2.94e-02	-8.16e-03	5.78e-04	-7.80e-03	-8.99e-03	3.07e-03	-7.32e-03
## 479	-2.91e-03	-1.21e-02	6.95e-03	-4.17e-03	-2.87e-03	-1.17e-02	-9.69e-03
## 480	2.56e-02	1.90e-02	3.18e-03	-3.02e-02	4.25e-02	3.88e-04	-2.52e-02
## 481	-3.23e-04	1.63e-03	5.42e-04	-1.49e-03	-1.19e-03	-3.78e-03	3.89e-04
## 482	-2.36e-02	2.39e-02	2.36e-02	3.39e-02	-2.92e-02	-2.96e-02	-3.60e-02
## 483	-2.28e-02	-1.97e-02	3.97e-02	1.72e-02	-8.54e-03	7.97e-03	2.19e-02
## 484	2.55e-03	-3.17e-03	-3.24e-03	-2.96e-03	3.43e-03	-3.64e-03	-7.75e-05
## 485	-6.79e-03	1.37e-02	6.89e-03	1.19e-02	1.68e-02	-2.59e-03	-1.33e-02
## 486	-1.36e-02	4.69e-03	-3.13e-03	6.66e-04	-6.92e-03	-3.91e-03	2.99e-03
## 487	1.63e-02	-1.98e-02	-2.01e-02	1.32e-02	3.56e-03	1.65e-02	-1.64e-02
## 488	-1.61e-04	-4.65e-04	2.04e-04	-6.74e-04	-1.51e-04	1.17e-04	6.75e-04
## 489	1.10e-02	-1.16e-02	4.05e-03	-1.76e-02	2.79e-02	3.25e-03	5.54e-03
## 490	-2.87e-03	5.64e-03	-3.45e-03	6.76e-04	-7.46e-03	-9.23e-03	8.26e-04
## 491	1.33e-02	-1.36e-02	-5.62e-03	4.28e-03	5.81e-03	-5.77e-03	-1.07e-02
## 492	1.97e-03	1.37e-02	1.25e-02	3.05e-02	-2.01e-02	3.41e-03	-1.66e-02
## 493	-2.71e-03	4.22e-03	8.93e-03	-3.92e-03	3.50e-03	1.53e-03	-7.15e-03
## 494	5.77e-03	5.96e-03	-8.79e-04	1.44e-03	3.34e-03	-8.59e-03	-1.68e-03
## 495	-5.78e-04	-2.21e-02	1.31e-02	-1.41e-02	-7.60e-03	1.79e-02	-2.82e-02
## 496	2.11e-03	3.32e-03	-1.28e-03	-6.03e-03	5.03e-03	2.76e-03	-8.48e-04
## 497	3.43e-04	3.19e-03	1.37e-03	3.77e-03	-5.41e-03	-7.70e-03	-1.56e-03
## 498	2.13e-02	2.02e-02	-4.62e-02	-1.15e-02	3.11e-03	2.81e-02	-2.55e-02
## 499	-3.01e-02	1.24e-02	1.24e-02	-9.52e-03	-2.53e-03	-5.31e-03	1.25e-02
## 500	9.35e-03	1.02e-02	-4.82e-03	8.73e-03	3.22e-03	1.40e-03	-3.80e-03
## 501	-1.31e-02	-5.22e-03	1.00e-02	-3.69e-03	4.01e-03	-3.24e-03	2.99e-03
## 502	5.70e-05	3.30e-04	8.52e-05	-2.70e-05	3.92e-04	-2.78e-04	4.08e-04
## 503	3.69e-03	-4.31e-03	-1.52e-03	-9.72e-04	-6.01e-03	3.72e-03	6.38e-03
## 504	-3.60e-03	-4.17e-03	-1.07e-03	-1.05e-02	8.76e-03	-6.33e-04	6.40e-03
## 505	-7.97e-03	1.18e-02	-2.36e-02	-1.21e-02	5.54e-03	-7.67e-03	1.05e-02
## 506	-9.61e-03	1.68e-02	-6.44e-03	2.93e-02	-4.28e-02	6.71e-03	-1.05e-02
## 507	-7.75e-03	-1.21e-02	9.25e-03	2.37e-02	-1.51e-02	-7.58e-03	-8.61e-03
## 508	-1.20e-03	1.40e-02	6.05e-03	1.28e-02	1.85e-02	8.00e-04	5.00e-03
## 509	7.43e-03	-6.34e-03	-8.23e-04	1.53e-03	3.20e-03	-8.65e-03	-1.73e-03
## 510	1.02e-03	1.13e-02	3.05e-02	-3.81e-03	-1.80e-02	-1.74e-04	1.28e-02
## 511	2.50e-03	9.18e-03	-9.35e-03	1.26e-02	-1.46e-04	6.72e-03	-2.25e-03
## 512	8.07e-03	9.81e-03	-1.82e-02	1.70e-02	-6.96e-03	5.49e-03	5.26e-03
## 513	8.46e-03	-9.18e-03	-8.35e-03	1.11e-02	-1.03e-04	2.21e-03	-2.45e-03
## 514	1.38e-02	1.12e-02	-6.89e-03	8.05e-03	2.15e-03	7.14e-03	-5.34e-03
## 515	-8.47e-03	-2.00e-02	1.48e-02	-2.00e-02	-1.32e-03	-1.19e-02	9.16e-03
## 516	-1.96e-03	-2.64e-03	6.07e-05	1.54e-03	1.43e-03	1.06e-03	-1.01e-04
## 517	-3.21e-02	-1.89e-02	3.77e-02	-3.26e-02	1.45e-02	-6.74e-03	2.28e-02
## 518	6.64e-03	1.67e-02	-3.46e-02	2.48e-02	-1.27e-02	-6.87e-04	-2.30e-02
## 519	5.58e-03	4.57e-03	-9.02e-04	1.91e-03	2.30e-03	-3.87e-03	-1.07e-03

## 520	-1.41e-03	6.37e-03	-5.08e-03	7.80e-04	-9.89e-03	-3.21e-03	7.72e-05
## 521	-8.03e-03	1.22e-02	2.59e-02	-1.84e-02	9.65e-03	1.19e-03	-2.41e-02
## 522	-1.18e-02	8.79e-03	-7.02e-03	-1.14e-03	-1.44e-02	3.17e-03	1.27e-03
## 523	2.48e-02	1.70e-02	1.37e-02	-1.18e-02	-2.31e-03	6.85e-04	1.95e-03
## 524	-5.21e-03	-1.45e-02	1.81e-02	2.20e-02	-1.61e-02	-4.85e-03	8.11e-03
## 525	-1.01e-02	5.47e-03	-3.24e-03	6.51e-03	1.84e-03	2.61e-03	9.89e-03
## 526	2.38e-04	9.19e-04	2.36e-03	4.55e-04	-1.64e-03	-1.75e-03	1.68e-04
## 527	-2.17e-03	5.93e-03	-2.88e-03	-7.86e-04	-7.76e-03	-1.30e-03	6.97e-04
## 528	1.45e-04	-3.46e-04	-8.01e-05	2.10e-04	2.75e-04	3.49e-05	-1.24e-04
## 529	-4.38e-03	-6.39e-03	1.50e-02	9.85e-03	-1.64e-03	-8.23e-03	9.15e-05
## 530	1.64e-03	-2.10e-03	3.18e-04	-1.41e-03	-1.77e-03	-3.20e-03	5.64e-04
## 531	1.37e-03	-3.57e-03	-2.01e-04	3.01e-04	3.16e-03	-9.94e-03	-1.94e-03
## 532	-1.84e-02	2.05e-02	-1.45e-02	6.96e-03	5.91e-03	3.39e-03	2.01e-02
## 533	-2.87e-03	6.20e-03	1.60e-02	2.69e-03	-1.38e-02	-5.98e-03	7.18e-04
## 534	2.50e-03	8.65e-03	7.94e-03	-3.58e-03	-1.26e-03	-1.09e-03	5.81e-03
## 535	-9.36e-04	2.02e-02	-1.75e-02	1.17e-02	3.75e-03	1.04e-02	-1.46e-02
## 536	-5.82e-03	-8.95e-03	-1.17e-02	-1.03e-02	9.22e-03	5.15e-03	1.35e-03
## 537	3.16e-03	-3.41e-03	-1.74e-04	-1.76e-03	-3.40e-03	8.71e-04	-1.00e-03
## 538	-5.84e-03	-6.39e-03	-6.79e-03	-6.51e-03	7.17e-03	-2.40e-03	1.09e-02
## 539	-1.05e-03	9.81e-04	3.42e-06	6.97e-05	1.06e-03	4.12e-04	-9.03e-06
## 540	-1.19e-03	1.15e-03	3.68e-04	-2.76e-04	1.50e-03	2.23e-03	-2.11e-04
## 541	4.64e-03	-1.57e-02	-9.02e-03	7.15e-03	3.51e-03	-4.27e-04	-3.36e-02
## 542	7.44e-03	-6.27e-03	-7.95e-04	1.51e-03	3.17e-03	-8.60e-03	-1.79e-03
## 543	4.39e-03	-1.16e-02	9.78e-03	-6.10e-03	-2.17e-03	1.11e-03	5.75e-03
## 544	-1.37e-02	-2.22e-02	7.42e-03	-9.04e-03	-8.74e-03	7.51e-03	-2.84e-02
## 545	-1.56e-02	1.18e-02	-6.00e-03	-5.42e-03	-1.55e-02	-5.44e-03	1.85e-02
## 546	1.18e-02	-1.79e-02	1.18e-02	8.79e-03	2.49e-02	-1.85e-02	-2.64e-02
## 547	-2.16e-05	-6.01e-03	-4.75e-03	8.05e-03	5.46e-04	-2.71e-03	1.86e-04
## 548	2.46e-03	9.87e-03	1.73e-02	-8.62e-03	7.07e-03	-9.83e-03	-1.45e-03
## 549	4.05e-03	4.57e-03	-9.34e-04	1.98e-03	2.46e-03	-8.96e-04	-1.12e-03
## 550	5.68e-05	1.45e-03	-7.52e-04	3.87e-04	-1.82e-03	-2.71e-03	3.85e-04
## 551	-4.76e-04	5.26e-04	1.83e-04	-1.28e-04	6.92e-04	9.64e-04	-1.52e-04
## 552	8.68e-05	-2.96e-03	-3.64e-04	7.62e-04	2.47e-03	-3.05e-03	-1.29e-03
## 553	4.47e-03	-3.80e-03	1.41e-04	-2.42e-03	-3.41e-03	-6.73e-03	-5.44e-03
## 554	1.05e-02	-1.83e-02	1.72e-02	-1.45e-02	-2.22e-03	-2.25e-03	4.73e-03
## 555	3.59e-03	-2.77e-03	-8.33e-04	-1.61e-04	-3.48e-03	8.43e-04	-4.75e-03
## 556	9.47e-03	-5.29e-03	-8.18e-04	1.68e-03	2.67e-03	-1.07e-02	-1.51e-03
## 557	4.52e-05	1.55e-03	-6.59e-05	1.17e-03	9.50e-04	1.31e-03	-2.56e-04
## 558	-3.43e-02	1.50e-02	-1.02e-02	6.74e-03	4.21e-03	2.81e-03	2.12e-02
## 559	6.22e-04	1.05e-02	-2.24e-03	2.18e-03	4.22e-03	-7.35e-03	-5.69e-03
## 560	-2.55e-03	8.71e-03	-8.78e-03	-1.09e-02	1.06e-02	-4.07e-03	4.43e-04
## 561	1.98e-02	9.30e-03	-5.40e-03	-1.91e-02	1.38e-02	-1.55e-02	-1.84e-02
## 562	1.50e-02	1.12e-02	-5.28e-04	-9.25e-03	-1.15e-02	-2.19e-03	-7.00e-03
## 563	-1.01e-02	7.41e-03	-4.45e-03	3.08e-04	-1.04e-02	-9.78e-03	1.40e-03
## 564	9.69e-03	9.35e-03	-1.43e-03	3.78e-03	3.91e-03	-1.00e-03	-6.72e-03
## 565	-3.08e-04	-4.21e-03	-2.88e-04	-1.00e-04	4.78e-03	-2.65e-03	-1.27e-03
## 566	-1.06e-03	1.33e-02	-9.73e-04	-9.32e-03	-1.31e-02	1.60e-03	1.70e-02
## 567	1.03e-03	-5.05e-03	1.87e-03	5.43e-03	-8.16e-03	7.09e-06	6.44e-03
## 568	-4.35e-03	1.52e-02	1.46e-02	-1.40e-02	-6.83e-05	-9.94e-03	8.20e-03
## 569	1.42e-03	-8.62e-03	-2.92e-03	3.69e-03	3.82e-03	-1.14e-02	1.28e-02

## 570	-7.02e-04	1.25e-03	-1.61e-05	2.44e-04	1.11e-03	-2.17e-03	-4.27e-04
## 571	-2.91e-03	2.04e-03	5.57e-03	2.55e-03	2.23e-05	-7.66e-04	-3.02e-03
## 572	2.10e-03	-8.00e-03	-7.12e-04	3.74e-03	3.45e-03	-3.57e-03	-3.48e-03
## 573	2.66e-02	-2.27e-02	2.52e-02	2.75e-02	-2.89e-02	1.28e-02	-1.68e-03
## 574	3.20e-02	-1.64e-02	3.22e-02	-2.30e-02	1.07e-02	8.16e-03	-1.42e-02
## 575	-2.12e-04	-7.94e-04	2.96e-04	9.99e-04	-1.26e-03	-3.43e-04	-5.44e-05
## 576	-3.62e-03	1.11e-02	-4.37e-03	-3.86e-03	-1.27e-02	-6.83e-03	8.67e-05
## 577	-2.87e-02	1.73e-02	-1.31e-02	7.12e-03	3.98e-03	1.38e-03	2.20e-02
## 578	7.33e-03	1.58e-02	2.57e-02	-1.84e-02	9.82e-03	3.23e-03	-7.63e-03
## 579	1.14e-02	7.41e-03	-1.75e-03	1.84e-03	3.70e-03	-1.05e-02	-3.02e-03
## 580	-4.40e-02	2.89e-02	-1.79e-03	2.47e-02	2.75e-02	1.89e-02	5.18e-03
## 581	1.85e-02	1.55e-02	8.01e-03	-4.87e-03	-5.72e-03	-4.69e-03	-1.93e-02
## 582	-1.57e-03	8.28e-03	-1.73e-02	-6.51e-03	2.95e-03	-2.24e-03	7.67e-03
## 583	1.54e-02	-7.01e-03	1.25e-04	-7.13e-03	-7.03e-03	-1.19e-02	-2.35e-03
## 584	1.32e-02	-7.70e-03	-1.81e-03	2.08e-03	3.54e-03	-9.88e-03	-2.81e-03
## 585	3.68e-03	7.13e-03	-1.51e-02	-5.04e-03	2.33e-03	-5.92e-05	5.24e-03
## 586	-3.57e-04	7.12e-04	-1.59e-04	7.33e-04	4.37e-04	3.05e-05	-1.48e-05
## 587	2.23e-03	3.56e-03	7.82e-04	-3.64e-03	-3.07e-03	-7.42e-03	5.38e-05
## 588	-1.41e-03	1.49e-03	-1.48e-03	-1.40e-03	1.93e-03	-2.03e-03	4.54e-04
## 589	-4.31e-03	-5.27e-03	-2.85e-04	-6.08e-04	5.64e-03	2.83e-03	7.62e-03
## 590	-7.24e-04	1.48e-03	-1.20e-03	-1.37e-03	1.88e-03	-2.40e-03	5.76e-04
## 591	9.76e-04	1.28e-03	-1.15e-04	-4.93e-04	-1.29e-03	1.42e-03	-1.87e-03
## 592	-1.25e-03	-1.93e-03	1.96e-04	-1.28e-04	1.98e-03	1.25e-03	3.08e-03
## 593	4.78e-03	1.12e-02	-7.75e-03	8.22e-03	2.51e-03	8.71e-03	1.15e-02
## 594	-1.60e-02	1.05e-02	-3.49e-03	2.71e-03	4.80e-03	-8.66e-03	-3.81e-03
## 595	-4.38e-02	2.24e-02	5.61e-03	-1.07e-02	-8.34e-03	-8.46e-03	5.45e-02
## 596	-2.19e-03	5.26e-03	-5.83e-05	2.59e-03	3.88e-03	-4.79e-03	7.95e-03
## 597	2.17e-03	1.28e-02	-4.08e-03	4.09e-03	4.52e-03	1.33e-03	-2.81e-02
## 598	-1.08e-02	1.07e-02	-1.24e-02	-1.37e-02	1.26e-02	-4.72e-03	4.23e-04
## 599	-2.66e-05	-1.12e-03	5.56e-04	1.41e-03	-1.85e-03	-2.16e-03	-4.22e-04
## 600	-1.22e-02	1.43e-02	-8.15e-03	6.60e-03	3.12e-03	5.18e-03	1.75e-02
## 601	8.68e-04	4.48e-03	-5.16e-05	1.22e-03	3.11e-03	-9.47e-03	-3.75e-04
## 602	-1.27e-02	-7.40e-03	-4.65e-03	1.46e-04	-9.76e-03	9.57e-04	2.90e-03
## 603	-5.74e-03	7.03e-03	-3.43e-03	7.56e-03	2.66e-03	-3.72e-03	-9.11e-04
## 604	1.61e-02	-1.04e-02	-6.57e-03	1.09e-02	2.69e-03	-2.97e-03	-5.47e-03
## 605	-2.38e-04	-3.13e-03	1.40e-03	3.15e-03	-4.73e-03	4.70e-04	4.17e-03
## 606	4.22e-04	7.65e-04	2.11e-04	-2.93e-04	-6.86e-04	-3.37e-04	-3.75e-05
## 607	2.46e-06	-1.51e-06	-5.39e-07	-3.45e-06	3.62e-06	-2.38e-06	-2.03e-07
## 608	-3.38e-04	-2.67e-03	6.22e-04	-5.88e-04	3.19e-03	4.90e-03	-8.84e-04
## 609	-9.39e-03	2.44e-02	-4.23e-02	1.65e-02	-1.19e-02	3.41e-03	4.29e-03
## 610	6.14e-03	-1.92e-02	7.80e-03	1.89e-02	2.32e-02	2.61e-02	-2.97e-02
## 611	-5.44e-02	2.63e-02	-4.41e-03	2.45e-02	2.69e-02	-7.70e-03	1.51e-02
## 612	2.96e-03	-2.67e-03	-9.51e-04	-6.62e-03	5.58e-03	-8.56e-03	-1.45e-03
## 613	1.04e-02	-1.12e-02	2.51e-02	1.71e-02	-4.03e-03	-5.27e-03	-5.99e-03
## 614	-1.19e-03	1.43e-03	-3.23e-04	1.59e-03	6.05e-04	-2.89e-04	-2.24e-03
## 615	-1.01e-02	-1.23e-02	-5.26e-03	5.60e-03	3.69e-03	4.07e-04	-2.19e-02
## 616	-1.69e-02	1.23e-02	-7.90e-03	4.60e-03	3.74e-03	-1.94e-02	1.99e-02
## 617	-2.44e-03	-7.87e-03	1.60e-02	1.23e-02	-3.83e-03	-3.92e-03	-1.34e-03
## 618	3.87e-03	-4.62e-03	-3.59e-03	5.60e-03	5.66e-04	4.24e-03	-8.46e-04
## 619	3.25e-03	-1.70e-02	-1.60e-02	8.95e-03	3.77e-03	-6.49e-03	-1.10e-02

## 620	-3.33e-03	1.45e-02	3.70e-02	-8.40e-03	-2.73e-02	-2.43e-02	1.98e-02
## 621	-3.55e-03	-5.10e-03	-4.18e-03	6.51e-03	8.26e-04	5.53e-04	9.65e-04
## 622	-1.34e-02	1.01e-02	-5.15e-03	-4.00e-03	-1.38e-02	9.09e-04	1.67e-02
## 623	-8.37e-04	-1.80e-03	8.52e-05	9.33e-04	1.32e-03	-2.10e-03	3.70e-04
## 624	-4.53e-02	2.63e-02	4.77e-03	-1.04e-02	-1.29e-02	3.88e-02	6.64e-03
## 625	6.94e-03	-1.56e-02	-1.43e-02	-2.81e-02	1.93e-02	1.18e-02	1.74e-02
## 626	-5.18e-03	1.41e-02	-1.51e-02	-2.42e-02	1.78e-02	3.56e-03	-5.98e-03
## 627	-4.63e-03	-8.06e-03	1.37e-02	-5.39e-03	4.70e-03	-5.22e-03	-5.42e-04
## 628	-4.53e-03	-3.31e-03	7.15e-03	5.40e-03	-1.01e-03	-3.41e-03	8.25e-04
## 629	1.89e-02	-1.95e-02	-3.36e-02	2.09e-02	-1.14e-02	-1.56e-03	3.80e-03
## 630	-3.51e-02	-1.96e-02	-4.33e-02	-8.23e-04	3.82e-02	-1.83e-03	1.16e-02
## 631	1.07e-03	-4.57e-03	-3.43e-03	-6.53e-03	6.11e-03	3.81e-03	-7.46e-03
## 632	-5.76e-03	-5.64e-03	-2.63e-04	-8.16e-04	5.94e-03	2.84e-03	8.16e-03
## 633	4.11e-04	3.93e-03	-2.03e-04	1.50e-03	2.67e-03	-5.28e-03	-1.24e-04
## 634	3.79e-03	-6.17e-03	-2.35e-03	5.67e-03	2.48e-03	1.69e-03	1.01e-02
## 635	-1.88e-02	2.53e-02	1.99e-02	-1.93e-03	3.70e-02	-1.37e-03	4.22e-03
## 636	-1.13e-02	9.32e-03	-2.94e-03	7.78e-03	3.86e-03	-6.14e-03	1.32e-02
## 637	-3.12e-04	5.28e-03	2.12e-03	5.91e-03	-8.33e-03	-6.29e-04	6.52e-03
## 638	-7.67e-03	-2.26e-02	-5.23e-02	-7.12e-03	4.32e-02	1.84e-02	4.49e-03
## 639	4.46e-03	-1.11e-02	1.25e-02	2.05e-02	-1.28e-02	2.80e-04	5.55e-03
## 640	-2.53e-04	-2.29e-03	1.51e-04	5.71e-05	2.08e-03	-4.42e-03	2.48e-03
## 641	1.41e-02	2.88e-02	5.75e-03	1.07e-02	3.09e-02	-2.88e-02	1.09e-03
## 642	2.23e-03	-9.60e-03	7.05e-03	-3.33e-03	-2.29e-03	-5.16e-03	-7.18e-03
## 643	-6.64e-03	-1.04e-02	2.17e-02	1.45e-02	-4.31e-03	-2.43e-04	1.37e-02
## 644	1.91e-02	-7.42e-03	-1.36e-03	-5.79e-03	-8.27e-03	-6.09e-03	-1.37e-02
## 645	1.49e-03	-9.95e-03	-1.68e-02	1.41e-02	-6.29e-03	-1.58e-03	6.83e-03
## 646	1.58e-02	-1.74e-02	7.45e-03	-4.40e-03	-6.86e-03	1.54e-02	8.03e-03
## 647	2.34e-03	3.84e-03	-5.87e-04	-1.11e-03	-4.89e-03	2.40e-03	-7.28e-03
## 648	2.56e-03	9.37e-03	-2.07e-02	-6.96e-03	3.05e-03	-2.82e-03	7.78e-03
## 649	-3.49e-02	1.39e-02	3.25e-02	1.35e-02	-4.89e-03	2.98e-03	2.01e-02
## 650	1.20e-02	1.33e-02	9.79e-03	-5.14e-03	-2.82e-03	7.83e-03	-1.59e-02
## 651	9.20e-03	1.31e-02	8.89e-03	-4.23e-03	-2.72e-03	-2.80e-03	-1.24e-02
## 652	8.16e-05	-1.84e-04	-4.15e-05	1.12e-04	1.47e-04	8.57e-06	-6.93e-05
## 653	8.94e-03	-6.61e-03	-2.08e-03	3.31e-03	2.85e-03	-1.28e-03	-1.17e-02
## 654	-2.92e-02	2.55e-02	-6.83e-02	-1.63e-02	1.21e-03	2.77e-02	9.04e-03
## 655	7.53e-03	1.99e-02	-1.16e-02	8.48e-03	4.25e-03	1.66e-02	1.61e-02
## 656	-5.84e-03	-3.50e-03	9.26e-05	-2.93e-04	3.67e-03	1.91e-03	5.59e-03
## 657	2.92e-03	2.17e-03	-1.13e-03	-2.83e-03	3.14e-03	2.63e-05	-8.38e-04
## 658	-1.79e-02	-2.69e-02	-6.33e-03	2.85e-02	2.29e-02	6.39e-02	2.48e-04
## 659	3.50e-03	2.46e-03	-1.35e-03	-4.01e-03	3.64e-03	2.40e-03	-1.81e-04
## 660	2.40e-02	1.96e-02	1.02e-02	-4.96e-03	-5.30e-03	2.65e-02	-2.68e-02
## 661	-1.29e-02	-1.14e-02	-3.46e-03	3.85e-03	3.86e-03	-1.99e-03	-2.81e-03
## 662	5.81e-03	5.88e-03	-8.45e-04	1.42e-03	3.30e-03	-8.54e-03	-1.75e-03
## 663	-7.66e-05	2.05e-04	-4.51e-05	-8.12e-06	-2.18e-04	7.71e-05	-2.89e-04
## 664	-5.62e-04	3.01e-03	-3.39e-04	6.34e-04	2.53e-03	-3.67e-03	-1.36e-03
## 665	-1.43e-02	-1.93e-02	-1.32e-02	6.73e-03	3.83e-03	4.90e-03	1.88e-02
## 666	2.60e-02	1.50e-02	8.86e-03	-4.69e-03	-4.04e-03	1.98e-03	-1.84e-02
## 667	-7.28e-03	7.71e-03	-6.56e-03	7.97e-03	1.27e-03	1.43e-02	1.33e-02
## 668	2.45e-02	2.24e-02	6.42e-03	-5.98e-03	-7.90e-03	1.19e-02	6.01e-03
## 669	8.26e-05	4.15e-04	2.45e-04	4.51e-04	-6.10e-04	-3.20e-04	-7.56e-04

## 670	7.56e-04	-4.93e-04	-4.87e-05	-1.41e-04	-5.09e-04	7.94e-04	6.91e-05
## 671	-3.89e-05	-7.47e-04	-2.14e-06	1.81e-04	6.54e-04	-5.77e-04	8.62e-04
## 672	1.14e-02	1.06e-02	8.68e-03	-3.65e-03	-2.09e-03	9.55e-04	4.91e-03
## 673	1.45e-02	7.34e-03	-3.25e-03	4.31e-03	2.79e-03	-8.83e-04	-1.37e-02
## 674	4.85e-03	-1.92e-02	-4.22e-02	-2.60e-02	6.93e-03	-3.64e-02	-2.54e-02
## 675	-4.05e-03	4.54e-03	1.10e-02	7.70e-03	-1.34e-03	-5.40e-03	3.93e-04
## 676	1.27e-03	-1.41e-03	-4.81e-04	1.42e-03	6.92e-04	1.58e-03	-2.10e-03
## 677	8.74e-03	1.68e-02	1.01e-02	-4.88e-03	-3.85e-03	2.29e-02	-2.13e-02
## 678	1.21e-02	2.37e-02	-1.93e-02	1.07e-02	5.93e-03	2.96e-02	-1.99e-02
## 679	-1.18e-02	1.01e-02	-1.18e-02	-1.43e-02	1.19e-02	6.38e-04	6.65e-04
## 680	1.28e-02	-1.31e-02	5.74e-03	1.28e-02	1.66e-02	-1.21e-04	-1.53e-02
## 681	-1.58e-04	3.35e-04	-9.05e-06	2.02e-05	3.59e-04	6.35e-05	-1.01e-05
## 682	1.65e-02	1.10e-02	-1.29e-03	3.13e-03	5.07e-03	-1.64e-03	-7.57e-03
## 683	2.12e-03	-1.36e-02	3.02e-02	1.76e-02	-5.51e-03	-3.13e-03	-6.55e-03
## 684	-3.63e-02	-1.88e-02	-1.10e-02	5.19e-03	5.08e-03	1.34e-03	2.35e-02
## 685	2.93e-03	-1.13e-02	-2.33e-03	2.40e-03	4.02e-03	-7.26e-03	-5.40e-03
## 686	3.12e-03	2.73e-03	-1.19e-03	2.71e-03	1.20e-03	3.43e-03	-4.17e-03
## 687	-7.64e-04	-1.97e-02	-5.09e-02	-1.14e-02	2.06e-03	1.70e-02	1.25e-02
## 688	-1.41e-02	4.69e-03	-2.99e-03	4.74e-03	2.25e-03	8.89e-03	1.03e-02
## 689	-1.60e-02	1.03e-02	-1.03e-02	1.20e-02	1.62e-04	7.61e-03	-1.06e-03
## 690	1.16e-02	7.69e-03	-1.84e-03	1.81e-03	3.82e-03	-1.14e-02	-2.91e-03
## 691	9.26e-03	5.01e-03	-3.06e-04	-2.29e-03	-4.84e-03	-2.08e-03	-8.56e-03
## 692	-1.43e-04	-4.80e-04	-1.33e-04	-1.02e-03	1.02e-03	-7.72e-04	-1.02e-04
## 693	8.69e-03	1.12e-02	9.63e-03	-4.75e-03	-1.97e-03	5.43e-03	5.03e-03
## 694	4.02e-03	-6.39e-03	1.70e-02	5.21e-03	9.88e-05	-2.74e-03	-1.13e-03
## 695	1.60e-02	-7.93e-03	-3.84e-03	-1.73e-02	1.22e-02	-1.38e-02	-2.52e-03
## 696	-1.12e-03	-1.43e-03	9.12e-04	1.41e-03	-1.99e-03	1.08e-03	2.18e-03
## 697	-9.05e-03	-1.89e-02	3.53e-03	1.94e-02	2.37e-02	1.86e-02	1.06e-02
## 698	-1.11e-02	1.00e-02	2.45e-02	2.31e-04	-1.81e-02	-4.75e-03	1.56e-02
## 699	9.05e-04	-3.79e-03	6.04e-05	-2.36e-04	4.29e-03	-1.78e-03	4.52e-03
## 700	-1.03e-03	1.53e-03	-4.17e-04	9.55e-05	-1.87e-03	-5.54e-05	-2.41e-03
## 701	-2.25e-02	1.33e-02	-1.17e-02	1.21e-02	2.59e-03	1.08e-02	-3.90e-03
## 702	-1.73e-02	1.68e-02	-1.67e-02	1.32e-02	9.48e-04	8.01e-03	-6.09e-03
## 703	1.35e-02	-7.92e-03	-1.88e-03	2.05e-03	3.65e-03	-1.07e-02	-2.76e-03
## 704	-6.45e-03	9.67e-03	-3.30e-03	2.77e-03	4.70e-03	-4.51e-03	-4.98e-03
## 705	-5.26e-03	1.83e-02	1.44e-02	-1.40e-02	-4.94e-03	-6.15e-03	-2.46e-02
## 706	2.57e-03	3.33e-03	3.25e-04	-3.66e-03	-1.88e-03	-4.77e-03	-8.57e-04
## 707	5.56e-03	1.72e-02	3.50e-02	1.69e-02	-4.18e-03	-8.21e-03	-8.98e-03
## 708	-1.12e-02	1.32e-02	-1.43e-02	-2.27e-02	1.59e-02	2.80e-03	1.78e-02
## 709	1.91e-02	9.81e-03	-3.74e-03	-4.63e-03	-1.23e-02	4.98e-03	-2.26e-02
## 710	-2.54e-02	-2.50e-02	3.46e-03	-6.02e-03	-1.41e-02	3.67e-02	7.98e-03
## 711	-2.90e-03	-1.44e-02	-1.17e-02	-2.63e-02	1.72e-02	9.21e-03	1.74e-02
## 712	3.53e-04	-8.88e-04	-3.03e-04	1.02e-03	4.99e-04	1.13e-03	-1.18e-03
## 713	3.95e-03	-1.44e-02	-1.65e-03	2.39e-02	-3.41e-02	1.21e-02	-4.93e-03
## 714	7.46e-04	-1.13e-03	6.41e-04	1.36e-03	-1.97e-03	-3.27e-03	1.28e-03
## 715	-3.93e-03	1.12e-02	-9.69e-03	1.17e-02	1.58e-03	4.71e-03	-2.50e-03
## 716	1.31e-04	5.40e-04	3.21e-04	5.77e-04	-7.87e-04	-4.17e-04	-9.98e-04
## 717	-1.20e-02	1.66e-02	-1.65e-02	1.39e-02	4.17e-04	4.47e-03	-4.94e-03
## 718	7.71e-03	-1.45e-02	-1.02e-02	1.00e-02	2.34e-03	5.22e-03	1.65e-02
## 719	-1.28e-02	8.60e-03	1.52e-02	-7.50e-03	4.18e-03	5.68e-03	9.64e-05

## 720	2.47e-03	3.82e-03	8.86e-04	-4.05e-03	-3.27e-03	-9.04e-03	2.24e-05
## 721	1.00e-03	-2.93e-03	-2.71e-04	5.93e-04	2.54e-03	-5.29e-03	-1.55e-03
## 722	-5.92e-04	9.95e-03	6.72e-03	8.57e-03	1.39e-02	9.20e-04	4.98e-03
## 723	1.29e-02	-1.83e-02	7.87e-03	-5.43e-03	-6.83e-03	1.76e-02	8.28e-03
## 724	4.88e-03	-1.23e-02	-2.09e-02	1.57e-02	-7.36e-03	-2.96e-03	6.86e-03
## 725	1.32e-02	8.85e-03	2.11e-02	-1.59e-02	8.79e-03	-1.03e-02	-3.29e-03
## 726	-9.46e-04	-3.63e-03	-3.48e-04	2.23e-03	2.50e-03	-4.34e-03	-4.76e-03
## 727	-5.94e-03	-2.00e-02	-9.58e-03	-1.75e-02	-2.46e-02	1.74e-03	2.23e-02
## 728	-2.60e-03	1.83e-02	-4.07e-02	-2.19e-02	6.56e-03	-8.28e-03	7.75e-03
## 729	-1.44e-05	-4.14e-04	1.57e-04	-5.33e-04	-1.51e-04	-8.92e-05	6.70e-04
## 730	1.02e-02	2.22e-02	1.69e-02	-2.02e-02	-1.02e-04	-1.97e-02	1.85e-03
## 731	5.27e-03	5.61e-03	-9.27e-04	1.66e-03	3.10e-03	-6.01e-03	-1.50e-03
## 732	-9.65e-03	1.31e-02	-7.75e-03	-8.99e-03	-1.73e-02	4.62e-03	1.83e-02
## 733	-9.75e-04	-4.07e-04	-1.42e-04	5.79e-05	-4.63e-04	-2.32e-04	3.00e-04
## 734	-1.80e-04	-1.52e-02	-1.74e-02	-2.42e-02	1.70e-02	6.79e-04	-5.72e-03
## 735	1.08e-03	9.71e-03	-4.55e-03	-5.32e-03	-1.36e-02	4.79e-03	1.50e-02
## 736	7.06e-03	-1.16e-02	-7.20e-03	1.06e-02	3.26e-03	1.00e-03	-5.34e-03
## 737	3.07e-03	-2.96e-03	1.79e-03	3.08e-03	-4.10e-03	2.41e-03	-5.94e-03
## 738	-1.18e-02	1.37e-02	2.61e-02	1.69e-02	-6.15e-03	3.25e-03	-4.28e-03
## 739	-3.45e-03	2.02e-03	-5.04e-03	1.39e-03	-1.90e-03	2.26e-03	3.49e-03
## 740	-4.60e-04	-1.55e-03	-2.16e-04	1.50e-03	7.74e-04	6.80e-04	-2.33e-03
## 741	3.46e-03	-1.63e-02	-1.06e-02	6.65e-03	4.71e-03	5.96e-03	1.66e-02
## 742	-2.86e-03	-1.39e-02	9.15e-03	-7.28e-03	-3.87e-03	-9.73e-03	9.52e-03
## 743	1.63e-04	-3.49e-04	-3.20e-05	-5.47e-05	-3.13e-04	5.65e-04	-4.18e-04
## 744	-2.40e-03	-1.23e-02	-4.82e-03	4.06e-03	3.83e-03	-1.17e-02	-5.44e-03
## 745	-1.78e-03	-4.45e-03	8.70e-03	-2.82e-03	2.98e-03	-7.03e-03	7.00e-04
## 746	4.14e-04	8.31e-04	2.08e-03	4.16e-04	-1.46e-03	-1.54e-03	1.06e-04
## 747	-2.82e-02	-1.99e-02	4.31e-02	1.23e-02	-5.49e-03	4.95e-03	1.91e-02
## 748	4.29e-04	-6.40e-04	2.08e-04	1.01e-03	-1.18e-03	-7.34e-04	-2.20e-04
## 749	-4.90e-03	-4.99e-03	-2.71e-03	5.68e-03	6.51e-04	1.29e-03	7.86e-03
## 750	3.56e-03	-7.16e-03	-3.04e-03	4.44e-03	2.71e-03	5.29e-03	-2.33e-03
## 751	-1.76e-03	-2.47e-03	2.94e-04	-2.52e-04	2.63e-03	3.03e-05	-1.38e-04
## 752	2.37e-02	9.77e-03	1.51e-04	-8.15e-03	-1.06e-02	2.36e-04	-6.48e-03
## 753	9.69e-03	-1.51e-02	-1.33e-02	-3.45e-02	2.53e-02	7.06e-03	1.64e-02
## 754	-3.03e-03	-1.01e-02	-1.99e-02	-1.03e-02	4.44e-03	-7.46e-03	9.60e-03
## 755	1.70e-03	-2.95e-03	5.01e-04	-3.49e-03	-1.94e-03	-7.06e-03	-1.20e-03
## 756	7.12e-03	-6.18e-03	-8.52e-04	1.64e-03	3.09e-03	-7.33e-03	-1.63e-03
## 757	-5.34e-03	1.47e-02	5.57e-03	-2.59e-02	3.67e-02	-4.17e-03	-1.66e-02
## 758	1.08e-03	1.38e-03	4.25e-04	-1.49e-04	1.69e-03	1.40e-03	-8.99e-04
## 759	5.73e-03	6.05e-03	-9.18e-04	1.47e-03	3.38e-03	-8.65e-03	-1.60e-03
## 760	1.37e-02	1.55e-02	1.08e-02	-9.91e-03	-2.84e-03	-1.34e-02	-1.66e-02
## 761	1.62e-02	-1.31e-02	1.25e-02	2.74e-02	-1.71e-02	5.62e-03	-1.59e-02
## 762	2.06e-03	5.74e-03	-3.97e-04	-5.24e-04	5.89e-03	-2.24e-03	5.59e-03
## 763	1.96e-03	-2.67e-03	-2.55e-04	5.37e-04	2.37e-03	-7.42e-03	-1.42e-03
## 764	-1.36e-02	-1.63e-02	-9.23e-03	6.08e-03	4.65e-03	-8.23e-03	2.15e-02
## 765	-1.42e-02	1.65e-02	-1.50e-02	1.02e-02	3.33e-03	1.12e-02	-7.49e-03
## 766	1.77e-03	3.01e-03	-2.46e-04	1.42e-03	1.83e-03	-4.55e-03	-2.20e-05
## 767	-1.42e-02	9.32e-03	-6.40e-03	7.76e-03	1.37e-03	1.14e-02	1.46e-02
## 768	4.11e-04	7.15e-03	-3.07e-03	-1.30e-02	1.13e-02	-2.86e-03	-2.26e-03
## 769	1.12e-02	6.50e-03	-1.86e-03	2.58e-03	2.89e-03	-6.27e-03	-2.08e-03

## 770	1.14e-03	-1.09e-02	9.71e-03	-6.49e-03	-1.63e-03	-5.13e-03	7.88e-03
## 771	-3.09e-02	2.64e-02	3.44e-03	-6.36e-03	-1.33e-02	3.60e-02	7.17e-03
## 772	-1.27e-02	1.26e-02	1.23e-02	2.68e-02	-1.75e-02	-8.22e-03	-1.08e-02
## 773	1.23e-02	-1.68e-02	1.68e-02	2.64e-02	-2.18e-02	-1.16e-03	-2.16e-02
## 774	-2.54e-04	-2.44e-03	-2.49e-03	-2.15e-03	3.17e-03	-4.54e-03	6.61e-04
## 775	-1.89e-03	-1.37e-02	-4.20e-03	-1.30e-02	-1.52e-02	-1.43e-02	1.83e-02
## 776	6.02e-03	-1.19e-02	9.91e-03	-4.13e-03	-2.81e-03	4.33e-04	5.78e-03
## 777	4.36e-03	-4.13e-03	-4.15e-03	-5.12e-03	5.28e-03	-1.54e-03	1.55e-04
## 778	2.51e-02	-1.93e-02	6.44e-03	-5.58e-03	-8.44e-03	1.85e-02	6.94e-03
## 779	-6.16e-05	-2.07e-03	4.15e-05	2.69e-05	2.27e-03	-8.84e-04	-2.53e-04
## 780	-7.31e-03	-1.13e-02	-7.22e-04	-1.01e-02	-1.14e-02	-7.82e-03	-2.50e-03
## 781	6.64e-03	5.72e-03	-1.03e-03	-3.61e-03	-6.16e-03	1.18e-03	-2.00e-03
## 782	-2.89e-03	2.06e-02	4.74e-03	-4.45e-03	-7.15e-03	1.19e-02	7.93e-03
## 783	4.60e-05	-2.18e-04	-8.40e-06	-4.81e-04	4.67e-04	-4.05e-04	-4.25e-04
## 784	-1.31e-02	1.88e-02	-4.12e-02	-2.83e-02	6.54e-03	7.03e-04	9.56e-03
## 785	4.93e-03	-2.68e-03	2.96e-04	-2.17e-04	2.87e-03	-1.65e-03	2.72e-03
## 786	9.23e-03	-5.66e-03	-3.76e-03	-9.88e-03	8.09e-03	2.20e-03	-1.10e-02
## 787	1.20e-02	-7.55e-03	-7.78e-04	-4.30e-03	-7.74e-03	-1.81e-03	-1.63e-02
## 788	1.47e-03	-6.35e-03	1.05e-03	-8.58e-03	-3.20e-03	-3.80e-03	8.24e-03
## 789	3.64e-05	3.02e-04	-8.34e-06	2.91e-05	2.99e-04	-1.52e-04	-5.78e-04
## 790	8.41e-04	1.11e-03	-6.95e-04	1.51e-03	2.76e-04	1.09e-03	-1.84e-03
## 791	2.33e-03	-3.79e-03	9.05e-04	-3.41e-03	-2.90e-03	-9.55e-03	5.07e-04
## 792	-7.99e-05	3.96e-04	-2.41e-04	-7.55e-04	7.36e-04	1.08e-04	4.37e-05
## 793	-5.98e-03	-1.56e-02	-8.35e-03	6.18e-03	4.59e-03	-1.43e-02	1.94e-02
## 794	1.80e-02	1.27e-02	-6.43e-03	-2.66e-02	1.77e-02	-1.76e-03	-9.62e-03
## 795	-2.36e-02	1.04e-02	-5.73e-03	7.96e-03	3.13e-03	-1.91e-03	1.88e-03
## 796	1.88e-02	-6.34e-03	-1.43e-03	-4.42e-03	-7.50e-03	-5.02e-03	-1.18e-02
## 797	9.55e-03	-5.37e-03	5.05e-04	-5.33e-03	-5.18e-03	-9.59e-03	-1.03e-03
## 798	2.36e-02	-2.07e-02	2.06e-02	-3.02e-02	-1.54e-03	2.68e-03	4.32e-03
## 799	-2.42e-02	-7.85e-03	1.36e-02	-5.54e-03	5.23e-03	-5.10e-03	4.42e-03
## 800	-9.73e-03	1.08e-02	8.07e-03	-5.72e-03	-1.96e-03	-8.58e-03	9.20e-03
## 801	1.15e-03	2.33e-03	-1.20e-05	-1.11e-03	-2.03e-03	-1.17e-04	-3.31e-03
## 802	-2.34e-04	-1.90e-03	-7.17e-04	-2.90e-03	3.15e-03	-6.92e-04	6.18e-05
## 803	3.20e-03	-1.30e-02	9.35e-03	-4.91e-03	-3.99e-03	-5.85e-03	-1.14e-02
## 804	-3.23e-04	-2.24e-03	-7.13e-04	4.12e-04	-2.59e-03	-5.92e-04	-2.73e-03
## 805	3.99e-04	6.09e-03	-1.26e-03	3.20e-03	2.24e-03	1.54e-03	-2.64e-03
## 806	-3.61e-04	1.50e-03	-1.15e-03	-1.41e-03	1.93e-03	-1.96e-03	3.02e-04
## 807	-3.68e-03	-1.65e-02	2.07e-02	2.36e-02	-1.85e-02	-4.09e-03	6.19e-03
## 808	1.87e-02	-1.28e-02	9.08e-03	-3.79e-03	-3.31e-03	3.14e-03	-1.46e-02
## 809	-2.65e-04	-2.30e-02	2.16e-02	-3.03e-02	-2.32e-03	1.33e-02	6.34e-03
## 810	3.40e-02	-2.96e-02	1.57e-02	-4.15e-02	-8.03e-03	2.93e-02	-9.28e-03
## 811	7.03e-05	-1.26e-03	-5.31e-04	-1.92e-03	2.16e-03	-6.69e-05	-1.55e-03
## 812	-6.99e-03	4.69e-03	-7.79e-04	-2.55e-03	-4.90e-03	-1.35e-03	9.68e-03
## 813	8.56e-03	6.70e-03	1.80e-02	4.22e-03	-2.43e-04	-1.15e-02	-2.47e-03
## 814	-1.61e-02	-1.91e-02	-1.63e-02	1.29e-02	2.68e-03	1.25e-02	-7.37e-03
## 815	2.26e-03	1.08e-02	8.31e-03	-4.07e-03	-1.64e-03	-7.29e-03	-9.40e-03
## 816	5.57e-03	-5.31e-03	-2.06e-03	-5.90e-04	-7.13e-03	-1.50e-03	7.32e-03
## 817	-2.70e-02	-1.54e-02	1.48e-02	2.45e-02	-1.73e-02	-1.17e-02	1.16e-02
## 818	3.82e-05	-3.53e-05	2.54e-05	3.67e-05	-4.81e-05	1.62e-05	-1.41e-05
## 819	5.06e-03	-9.50e-03	-1.00e-02	-1.03e-02	8.58e-03	4.16e-04	-1.20e-03

## 820	9.58e-04	8.73e-04	1.62e-04	-2.74e-04	-8.30e-04	-4.84e-04	-1.46e-04
## 821	-1.41e-03	1.14e-02	-1.03e-02	1.30e-02	1.93e-03	-1.61e-03	-4.85e-03
## 822	1.67e-02	1.15e-02	-2.64e-03	4.06e-03	4.39e-03	-8.57e-04	-9.76e-03
## 823	2.65e-04	-8.65e-04	-3.20e-04	1.03e-03	4.74e-04	1.47e-03	-1.09e-03
## 824	-1.79e-02	1.55e-02	8.51e-03	1.07e-02	2.02e-02	-5.18e-03	-1.45e-02
## 825	-2.91e-03	-7.88e-03	-1.26e-02	1.15e-02	-4.91e-03	1.53e-03	5.89e-03
## 826	1.14e-02	-6.48e-03	-5.10e-04	-5.07e-03	-6.58e-03	-3.95e-03	-1.08e-02
## 827	4.07e-02	-2.42e-02	1.26e-02	2.25e-03	3.39e-02	-6.24e-03	-4.85e-02
## 828	5.04e-03	8.21e-03	-2.52e-03	-5.22e-03	-1.11e-02	8.70e-03	1.25e-02
## 829	-1.27e-02	2.47e-02	2.00e-02	3.43e-02	-3.56e-02	1.16e-02	2.46e-03
## 830	1.17e-04	5.32e-04	3.78e-05	-2.32e-04	-4.40e-04	-2.68e-04	-6.58e-04
## 831	-7.66e-03	6.01e-03	-2.07e-04	-3.18e-05	6.74e-03	-6.85e-03	-1.43e-04
## 832	3.82e-03	-1.43e-02	-9.85e-03	-5.50e-03	-1.90e-02	4.79e-03	-4.60e-03
## 833	8.00e-03	1.02e-02	-2.23e-02	-6.82e-03	2.87e-03	-1.06e-03	-8.69e-03
## 834	2.17e-03	8.22e-03	1.81e-02	1.87e-03	-1.66e-02	2.19e-03	-1.93e-03
## 835	-1.18e-03	-3.02e-03	-1.80e-04	3.70e-04	3.69e-03	-3.13e-03	-4.48e-04
## 836	2.74e-02	-1.88e-02	6.00e-03	-4.83e-03	-8.71e-03	1.62e-02	7.85e-03
## 837	1.36e-02	6.00e-03	-1.70e-03	4.86e-03	1.71e-03	6.85e-03	-4.35e-03
## 838	4.91e-04	-7.98e-04	6.04e-05	-7.02e-04	-5.67e-04	-4.33e-04	-2.74e-04
## 839	1.91e-02	2.04e-02	-3.76e-02	-2.91e-02	9.24e-03	3.97e-03	4.21e-03
## 840	-2.71e-03	-3.75e-03	-3.61e-03	-3.21e-03	4.59e-03	-5.58e-03	1.18e-03
## 841	-3.93e-02	2.90e-02	-5.04e-03	2.40e-02	2.63e-02	5.79e-02	-1.48e-03
## 842	-1.79e-03	-1.05e-02	-5.77e-03	5.11e-03	3.37e-03	-1.16e-02	1.67e-02
## 843	2.39e-03	-9.52e-03	7.02e-03	-3.31e-03	-2.25e-03	-5.22e-03	-7.25e-03
## 844	2.23e-03	-3.19e-03	5.11e-04	-2.56e-03	-2.68e-03	-3.39e-03	2.92e-04
## 845	-4.54e-03	3.12e-03	4.92e-04	-4.26e-03	-1.50e-03	-4.97e-05	2.89e-04
## 846	-2.09e-03	-4.85e-03	7.04e-04	-4.27e-03	-4.63e-03	-8.09e-03	8.71e-03
## 847	-4.01e-03	-3.32e-03	1.76e-03	3.16e-03	-4.70e-03	2.53e-03	4.69e-03
## 848	-6.94e-03	5.60e-03	-2.70e-04	-8.66e-04	5.86e-03	2.39e-03	7.83e-03
## 849	-7.63e-04	8.94e-04	3.07e-04	-2.19e-04	1.18e-03	1.89e-03	-2.86e-04
## 850	6.82e-04	1.06e-03	2.80e-04	2.31e-03	-2.13e-03	-6.98e-06	-1.73e-03
## 851	1.01e-02	7.70e-03	-2.07e-03	2.38e-03	3.92e-03	-1.10e-02	-1.50e-02
## 852	1.68e-02	-9.83e-03	-1.26e-03	3.35e-03	4.83e-03	8.46e-04	-7.23e-03
## 853	1.65e-03	2.87e-03	4.87e-04	-3.34e-03	-1.75e-03	-7.34e-03	-1.33e-03
## 854	1.96e-02	2.60e-02	1.04e-02	-5.72e-02	5.88e-02	6.85e-03	-8.48e-04
## 855	5.70e-04	-4.20e-03	8.46e-04	-5.78e-03	-2.05e-03	8.36e-04	5.48e-03
## 856	1.05e-02	-2.06e-02	7.07e-03	-5.38e-03	-9.61e-03	1.57e-02	9.46e-03
## 857	-6.16e-04	-6.93e-04	-5.42e-04	-8.14e-04	9.30e-04	1.44e-04	2.47e-04
## 858	-1.33e-03	-1.92e-03	2.45e-04	-9.47e-05	2.00e-03	-1.33e-03	-3.58e-03
## 859	7.49e-04	2.10e-03	-2.62e-04	1.30e-03	1.29e-03	-5.13e-04	3.72e-05
## 860	-2.93e-03	2.05e-03	-8.14e-04	2.31e-04	-2.58e-03	-1.96e-03	7.76e-04
## 861	1.33e-02	-1.56e-02	-2.90e-02	2.43e-02	-1.17e-02	-1.06e-03	-1.67e-02
## 862	-6.65e-03	9.41e-03	7.98e-03	-4.04e-03	-2.60e-03	-7.65e-03	-7.16e-03
## 863	1.54e-03	-1.23e-02	1.15e-02	-8.77e-03	-1.31e-03	-4.33e-03	7.26e-03
## 864	2.14e-03	-1.50e-02	1.17e-02	3.14e-02	-1.96e-02	-6.05e-03	-1.54e-02
## 865	-5.81e-03	3.38e-03	-2.11e-03	-4.53e-03	5.32e-03	3.08e-03	7.13e-03
## 866	1.28e-02	-7.65e-03	-1.90e-03	2.27e-03	3.46e-03	-8.37e-03	-2.56e-03
## 867	6.08e-02	-2.14e-02	2.54e-02	2.82e-02	-2.75e-02	6.01e-04	-8.02e-03
## 868	2.43e-03	6.12e-03	2.25e-03	9.16e-03	-1.14e-02	-1.73e-02	-9.21e-03
## 869	-1.22e-04	-3.45e-04	-2.58e-04	-3.30e-04	4.67e-04	-4.00e-04	1.16e-04

## 870	2.70e-04	6.57e-03	-3.90e-03	-4.87e-04	-9.21e-03	-1.54e-03	9.37e-03
## 871	2.07e-03	-3.25e-03	-1.09e-03	-7.87e-03	6.55e-03	-8.95e-03	-1.58e-03
## 872	7.70e-04	2.41e-02	1.98e-02	-2.51e-02	-3.35e-03	-5.25e-02	-3.40e-02
## 873	-1.49e-02	8.36e-03	-1.65e-03	2.03e-02	-2.02e-02	-1.09e-02	8.42e-04
## 874	-6.17e-03	-1.58e-02	-8.81e-03	5.13e-03	4.78e-03	-2.39e-02	2.03e-02
## 875	-2.18e-02	1.65e-02	7.55e-03	-1.02e-02	-4.96e-03	-2.47e-02	-1.46e-02
## 876	1.41e-03	-2.22e-03	3.59e-04	4.75e-03	-4.77e-03	2.00e-03	3.62e-03
## 877	2.19e-04	1.71e-03	3.58e-04	-1.88e-03	-5.84e-04	-1.91e-03	2.41e-03
## 878	3.66e-03	9.15e-03	-6.10e-03	7.06e-03	2.35e-03	3.98e-03	-1.80e-02
## 879	-3.70e-02	-1.76e-02	8.34e-03	-7.67e-03	-5.08e-03	-2.47e-02	-8.12e-03
## 880	7.40e-04	3.47e-03	9.76e-03	3.19e-03	2.35e-04	-1.52e-03	-3.65e-04
## 881	7.35e-03	1.41e-02	9.36e-03	-6.28e-03	-2.63e-03	-7.91e-03	-1.28e-02
## 882	2.01e-03	-4.29e-03	-3.87e-03	-4.34e-03	4.86e-03	-2.68e-03	4.43e-04
## 883	-1.23e-03	-2.96e-03	-3.63e-04	-1.14e-03	-3.24e-03	2.78e-03	5.92e-03
## 884	1.16e-02	7.59e-03	-1.79e-03	1.79e-03	3.79e-03	-1.13e-02	-3.00e-03
## 885	-4.43e-03	-2.13e-02	4.58e-02	1.60e-02	-6.82e-03	7.61e-03	1.58e-02
## 886	2.23e-02	-1.40e-02	3.43e-02	1.95e-02	-4.31e-03	-3.68e-03	-1.14e-02
## 887	-1.97e-02	1.12e-02	-5.07e-03	-4.64e-03	-1.45e-02	-7.72e-04	1.93e-02
## 888	-2.82e-02	2.64e-02	1.80e-02	-9.43e-04	3.67e-02	-1.40e-02	3.29e-03
## 889	3.09e-03	8.57e-03	-2.66e-03	-4.39e-03	-1.10e-02	5.52e-03	-2.09e-03
## 890	-2.77e-02	-2.01e-02	1.65e-02	2.17e-03	3.03e-02	-3.68e-03	1.00e-02
## 891	-1.71e-02	1.58e-02	3.21e-02	1.87e-02	-8.06e-03	4.29e-03	-6.22e-03
## 892	3.31e-02	2.12e-02	9.15e-03	-5.02e-03	-6.64e-03	3.58e-02	-3.10e-02
## 893	-1.09e-02	-6.82e-03	-6.41e-03	-7.98e-03	7.69e-03	1.85e-03	2.78e-03
## 894	9.97e-03	1.55e-02	-1.27e-02	1.16e-02	2.38e-03	9.02e-03	-7.63e-03
## 895	5.03e-05	1.22e-04	-9.49e-05	-1.06e-04	1.51e-04	-2.33e-04	2.89e-05
## 896	-1.14e-02	-8.05e-03	-5.43e-03	9.58e-03	2.21e-03	-7.33e-03	7.62e-04
## 897	-2.56e-02	1.36e-02	8.00e-03	-8.33e-03	-4.13e-03	-1.32e-02	-1.24e-02
## 898	5.22e-03	1.01e-02	-1.14e-02	-1.24e-02	1.08e-02	5.05e-04	-2.18e-03
## 899	7.31e-03	-6.19e-03	-8.08e-04	1.56e-03	3.12e-03	-7.89e-03	-1.76e-03
## 900	-6.09e-03	1.11e-02	9.16e-03	-6.90e-03	-1.89e-03	-6.34e-03	9.74e-03
## 901	4.19e-03	-1.67e-02	9.82e-03	-9.72e-03	-5.00e-03	-1.45e-02	-1.59e-02
## 902	4.21e-03	-5.84e-03	-5.87e-03	-7.09e-03	7.63e-03	-3.35e-03	8.81e-03
## 903	-4.26e-04	-3.22e-03	8.29e-05	-2.05e-04	3.31e-03	2.63e-05	-6.03e-04
## 904	-2.92e-03	-7.71e-03	-1.49e-02	-6.52e-03	3.05e-03	-4.71e-03	7.44e-03
## 905	-2.22e-03	1.38e-02	-6.07e-03	4.74e-03	5.53e-03	-6.78e-03	-7.94e-03
## 906	5.10e-03	8.04e-03	-1.83e-03	4.05e-03	3.35e-03	-3.67e-03	-3.20e-03
## 907	6.27e-03	-5.12e-03	1.52e-03	7.04e-03	-9.87e-03	-3.64e-03	-9.70e-04
## 908	-2.16e-03	-3.12e-03	-1.98e-03	4.30e-03	5.03e-04	-3.66e-03	7.56e-04
## 909	1.29e-02	-1.41e-02	-3.00e-02	-9.77e-03	3.68e-03	-1.19e-03	-1.26e-02
## 910	-5.86e-03	-1.84e-02	4.00e-02	1.71e-02	-5.29e-03	4.37e-03	-1.25e-02
## 911	1.79e-04	3.61e-03	-2.42e-03	9.46e-04	-5.48e-03	-4.51e-03	7.98e-04
## 912	1.46e-03	3.24e-03	-2.12e-04	1.41e-03	2.06e-03	-5.09e-03	-9.24e-05
## 913	-7.94e-04	-1.28e-03	2.19e-04	-3.48e-05	1.22e-03	-2.63e-03	1.47e-03
## 914	9.14e-03	-9.89e-03	-1.78e-02	1.71e-02	-7.14e-03	7.05e-03	5.90e-03
## 915	-8.84e-03	-1.41e-02	3.26e-02	1.42e-02	-4.97e-03	2.95e-03	1.82e-02
## 916	-5.40e-04	-1.47e-03	5.36e-04	-1.93e-03	-6.23e-04	-9.46e-04	-2.61e-03
## 917	-1.13e-02	-1.68e-02	-1.48e-02	1.22e-02	1.01e-03	6.19e-03	-5.37e-03
## 918	9.91e-03	-1.38e-02	-7.49e-03	9.25e-03	4.67e-03	9.45e-03	1.32e-02
## 919	1.05e-04	1.28e-04	-7.91e-05	-1.60e-04	1.94e-04	2.27e-04	-1.77e-04

## 920	4.34e-03	4.98e-03	-9.87e-04	1.96e-03	2.69e-03	-2.26e-03	-1.14e-03
## 921	-2.05e-02	1.83e-02	-2.07e-02	-3.41e-02	2.24e-02	-2.74e-03	-5.14e-03
## 922	4.68e-03	-3.24e-03	-2.78e-03	-3.79e-03	4.67e-03	1.69e-03	-5.94e-03
## 923	-1.15e-02	-1.28e-02	3.01e-02	1.20e-02	-3.02e-03	7.73e-03	1.68e-02
## 924	6.79e-03	-2.34e-03	6.06e-06	-1.25e-03	-2.89e-03	1.85e-03	-1.14e-03
## 925	3.38e-03	9.82e-03	-2.11e-02	-7.04e-03	3.21e-03	1.49e-03	7.26e-03
## 926	1.35e-03	1.51e-02	1.20e-02	-7.88e-03	-3.09e-03	-9.45e-03	-1.58e-02
## 927	-1.61e-03	-3.36e-03	-1.33e-03	2.70e-04	-4.18e-03	-4.17e-03	9.73e-04
## 928	-1.67e-02	-1.27e-02	-4.84e-03	-5.71e-03	-1.52e-02	3.88e-04	1.87e-02
## 929	-1.30e-02	-1.34e-02	-9.50e-03	7.57e-03	3.48e-03	5.88e-04	1.77e-02
## 930	-1.43e-02	6.16e-03	-1.85e-03	4.52e-03	3.04e-03	-4.62e-03	1.11e-02
## 931	1.58e-03	-3.13e-03	1.36e-03	3.75e-03	-5.43e-03	-9.15e-03	-1.41e-03
## 932	3.87e-03	7.90e-03	-1.63e-02	-5.94e-03	3.37e-03	-7.83e-05	5.95e-03
## 933	-5.47e-03	-7.78e-03	-1.41e-03	2.87e-03	4.01e-03	-8.46e-03	1.27e-02
## 934	-3.47e-03	-2.27e-02	4.32e-02	-3.95e-02	1.74e-02	-6.16e-03	-1.77e-02
## 935	1.61e-03	1.28e-02	1.00e-02	-6.18e-03	-3.45e-03	-1.19e-03	6.95e-03
## 936	4.17e-03	-5.13e-03	-5.13e-03	-5.42e-03	5.81e-03	-3.84e-03	-7.55e-04
## 937	5.31e-03	-5.13e-03	-9.54e-04	2.12e-03	2.41e-03	-9.18e-04	-1.05e-03
## 938	1.33e-03	-1.53e-03	5.31e-04	2.65e-03	-3.00e-03	-9.97e-04	1.93e-04
## 939	-9.34e-03	-1.07e-02	-6.43e-04	1.52e-02	-2.17e-02	-6.36e-03	1.57e-02
## 940	-1.71e-02	1.59e-02	-1.35e-02	1.06e-02	1.74e-03	5.76e-03	1.94e-02
## 941	-9.96e-04	2.95e-03	1.58e-03	3.16e-03	-4.63e-03	-1.03e-03	-6.06e-03
## 942	1.45e-02	-8.52e-03	-6.44e-03	-5.14e-04	-1.29e-02	-7.78e-04	-2.52e-03
## 943	1.46e-02	1.31e-02	9.98e-03	-5.82e-03	-2.91e-03	7.42e-03	4.96e-03
## 944	1.30e-02	6.64e-03	-9.12e-05	-6.92e-03	-6.92e-03	-9.79e-03	-1.91e-03
## 945	-3.16e-03	-1.93e-02	3.93e-02	-2.53e-03	-3.50e-02	9.05e-03	-7.59e-03
## 946	3.76e-04	-1.28e-02	-2.56e-02	-1.63e-02	6.77e-03	-8.81e-03	9.86e-03
## 947	-8.64e-05	-1.02e-03	-1.98e-04	5.19e-04	7.98e-04	7.37e-04	-3.90e-04
## 948	2.92e-02	-1.72e-02	-4.94e-02	-1.03e-02	2.42e-03	1.57e-02	8.68e-03
## 949	-1.89e-02	-1.58e-02	-1.05e-02	6.38e-03	4.77e-03	5.10e-03	1.94e-02
## 950	-9.93e-04	4.65e-03	-4.62e-04	2.33e-03	2.20e-03	3.98e-03	-1.30e-03
## 951	5.25e-03	-5.15e-03	-3.36e-04	2.42e-03	2.16e-03	2.23e-03	-2.65e-03
## 952	-6.79e-03	2.00e-02	-1.89e-02	1.41e-02	2.27e-03	9.96e-03	-1.15e-02
## 953	1.49e-02	-2.03e-02	1.15e-02	4.48e-02	-3.08e-02	3.02e-02	6.97e-03
## 954	-8.03e-04	2.69e-03	1.94e-04	-8.10e-05	2.48e-03	-5.39e-03	2.73e-03
## 955	1.38e-03	9.04e-03	-2.21e-03	3.34e-03	4.08e-03	-2.59e-03	-4.35e-03
## 956	1.50e-02	6.63e-03	-2.07e-03	4.41e-03	2.01e-03	3.57e-03	-1.34e-02
## 957	-9.80e-04	-1.42e-02	-8.25e-03	-7.21e-03	-1.81e-02	8.52e-03	1.82e-02
## 958	-8.10e-03	1.12e-02	2.47e-02	-1.92e-02	1.02e-02	-2.11e-02	1.65e-02
## 959	2.90e-03	4.93e-03	-8.73e-04	2.30e-03	2.96e-03	-4.04e-03	-4.50e-04
## 960	5.98e-03	1.19e-02	2.74e-02	-1.91e-02	1.14e-02	-9.77e-03	-6.25e-03
## 961	-3.27e-06	1.89e-04	-5.31e-04	-2.85e-04	1.96e-05	2.88e-05	3.13e-04
## 962	1.58e-02	-1.74e-02	7.45e-03	-4.40e-03	-6.86e-03	1.54e-02	8.03e-03
## 963	-7.10e-03	-1.59e-02	-3.60e-02	-1.07e-02	2.75e-03	-1.31e-02	-1.16e-02
## 964	-3.01e-02	-2.61e-02	4.32e-03	-8.80e-03	-1.40e-02	2.82e-02	7.88e-03
## 965	5.68e-03	4.99e-03	1.74e-03	7.41e-03	-1.08e-02	-6.23e-03	-1.09e-03
## 966	9.16e-04	6.51e-03	2.93e-04	-8.47e-03	-3.45e-03	-3.21e-03	-2.06e-03
## 967	-1.73e-03	6.78e-03	6.39e-03	-3.18e-03	-1.22e-03	-4.03e-03	5.50e-03
## 968	6.42e-03	1.04e-02	7.07e-03	-3.95e-03	-2.81e-03	-7.00e-03	-9.82e-03
## 969	7.21e-03	1.01e-02	-1.07e-02	-1.23e-02	1.15e-02	-7.00e-04	-2.54e-03

## 970	1.44e-03	-2.30e-03	2.25e-04	-2.70e-03	-1.32e-03	-5.76e-04	-2.09e-04
## 971	2.19e-02	-2.02e-02	-4.02e-02	2.81e-02	-1.65e-02	-2.54e-02	-3.31e-02
## 972	6.63e-05	-2.38e-04	4.40e-07	-3.59e-05	-2.44e-04	-3.35e-05	3.46e-05
## 973	1.99e-02	-2.94e-02	1.58e-02	-4.35e-02	-7.52e-03	2.33e-02	-4.15e-03
## 974	1.89e-02	-1.28e-02	9.07e-03	-3.77e-03	-3.27e-03	2.99e-03	-1.47e-02
## 975	-2.86e-02	-1.80e-02	-1.34e-02	8.82e-03	3.51e-03	-2.66e-04	-4.34e-03
## 976	7.35e-03	-2.08e-02	-3.72e-02	1.72e-02	-1.34e-02	1.17e-02	5.99e-03
## 977	1.23e-03	-1.85e-03	2.23e-04	-1.01e-03	-1.98e-03	-1.78e-04	3.39e-05
## 978	1.13e-02	-5.10e-03	-1.69e-03	2.92e-03	2.13e-03	-2.09e-03	-1.63e-03
## 979	3.70e-04	-7.85e-04	-1.65e-04	4.24e-04	6.37e-04	-2.68e-04	-3.03e-04
## 980	-2.98e-03	-4.30e-03	-1.20e-03	3.40e-03	1.88e-03	2.36e-03	-4.18e-04
## 981	5.27e-03	-9.07e-03	7.89e-03	-3.36e-03	-1.38e-03	-1.42e-03	5.19e-03
## 982	-1.17e-03	2.92e-03	1.81e-04	-1.15e-04	2.68e-03	-6.49e-03	3.21e-03
## 983	4.34e-03	1.54e-02	-2.72e-02	2.06e-02	-9.88e-03	3.42e-03	4.85e-03
## 984	-5.89e-03	-9.45e-03	-3.08e-03	4.12e-03	3.11e-03	-6.50e-03	-2.84e-03
## 985	7.96e-03	5.39e-03	-8.03e-04	1.55e-03	2.73e-03	-1.05e-02	-1.58e-03
## 986	2.71e-03	2.63e-03	6.89e-04	4.86e-03	-5.93e-03	2.61e-03	-4.67e-04
## 987	4.13e-04	5.50e-04	4.62e-05	-3.19e-04	-5.11e-04	8.47e-05	7.37e-05
## 988	-4.86e-03	-2.27e-03	-1.56e-03	-2.73e-03	3.24e-03	-1.51e-03	4.70e-03
## 989	8.25e-05	6.29e-04	1.50e-04	-7.05e-04	-3.80e-04	-8.92e-04	7.68e-04
## 990	1.34e-03	-2.21e-03	3.10e-04	-1.40e-03	-1.82e-03	-4.04e-03	-2.89e-03
## 991	2.44e-03	-3.54e-03	6.50e-04	-2.84e-03	-2.86e-03	-9.93e-03	-4.79e-03
## 992	-5.63e-04	1.83e-03	1.10e-04	8.44e-04	1.39e-03	-3.97e-03	3.19e-04
## 993	1.07e-02	2.13e-02	1.48e-02	-1.71e-02	-3.70e-03	-1.60e-02	3.26e-03
## 994	2.91e-02	1.95e-02	1.52e-02	-1.44e-02	-1.94e-03	-1.11e-02	-2.74e-02
## 995	-7.89e-04	6.22e-03	-1.31e-02	-4.95e-03	2.44e-03	-2.14e-03	5.93e-03
## 996	1.42e-03	-3.41e-03	1.51e-03	3.93e-03	-5.75e-03	-8.58e-03	-1.77e-03
## 997	8.28e-03	1.29e-02	-2.38e-03	3.65e-03	5.47e-03	3.32e-03	-9.44e-03
## 998	-5.32e-03	1.02e-02	8.18e-03	-5.22e-03	-1.73e-03	-9.08e-03	-7.52e-03
## 999	1.97e-02	-1.33e-02	-2.36e-02	1.93e-02	-8.68e-03	-2.14e-03	3.85e-03
## 1000	-2.19e-02	1.70e-02	-8.34e-03	-1.74e-02	-2.22e-02	-3.56e-03	2.20e-02
## 1001	-1.65e-04	-2.68e-04	-6.38e-06	1.94e-04	1.84e-04	6.95e-05	7.76e-05
## 1002	3.40e-03	4.14e-03	-9.73e-04	2.14e-03	2.18e-03	1.60e-03	-8.56e-04
## 1003	-1.66e-02	-1.43e-02	2.43e-02	-1.30e-02	8.45e-03	-8.13e-03	-5.11e-04
## 1004	-7.85e-04	1.38e-02	1.07e-02	-8.21e-03	-1.39e-03	-9.37e-03	6.92e-03
## 1005	2.56e-02	1.52e-02	8.84e-03	-4.72e-03	-4.13e-03	1.89e-03	-1.80e-02
## 1006	-1.55e-02	-1.76e-02	1.08e-02	6.74e-03	2.29e-02	-3.93e-03	7.53e-03
## 1007	4.78e-03	6.02e-03	1.46e-02	-9.29e-03	6.47e-03	-5.09e-03	-7.16e-04
## 1008	-4.34e-04	1.09e-02	-3.34e-03	3.10e-03	4.84e-03	-5.43e-03	-5.36e-03
## 1009	1.01e-03	2.10e-03	1.42e-05	8.42e-05	1.93e-03	-2.82e-03	-4.15e-03
## 1010	1.04e-02	2.04e-02	-1.18e-02	8.66e-03	4.08e-03	1.22e-02	1.66e-02
## 1011	-1.97e-03	-1.08e-02	-3.35e-03	2.82e-03	4.60e-03	-8.16e-03	-5.14e-03
## 1012	-1.03e-02	-2.09e-02	3.75e-03	1.66e-02	2.74e-02	-5.02e-03	1.35e-02
## 1013	1.82e-02	-2.21e-02	5.32e-04	1.88e-02	2.40e-02	2.94e-02	5.02e-03
## 1014	-1.68e-03	-3.00e-03	1.59e-03	3.23e-03	-4.41e-03	-1.14e-03	4.40e-03
## 1015	1.94e-03	-1.46e-03	-7.38e-04	1.79e-03	5.93e-04	3.51e-03	-2.23e-03
## 1016	-2.41e-03	1.34e-02	-6.21e-03	3.56e-03	3.83e-03	-1.25e-02	1.75e-02
## 1017	9.12e-03	-5.91e-03	-1.83e-03	3.06e-03	2.44e-03	2.59e-03	-1.70e-03
## 1018	-2.54e-04	-3.65e-03	-4.25e-04	-1.62e-03	-4.03e-03	2.88e-03	9.43e-05
## 1019	-1.94e-03	2.68e-03	-6.13e-04	-4.96e-03	4.46e-03	7.31e-04	-7.38e-05

##	1020	-2.68e-03	-2.03e-02	4.57e-02	1.45e-02	-5.13e-03	7.02e-03	1.64e-02
##	1021	-9.50e-03	-1.50e-02	2.46e-02	-1.60e-02	6.98e-03	9.76e-03	1.80e-02
##	1022	-2.94e-02	1.21e-02	-1.09e-02	1.01e-02	1.81e-03	1.54e-02	1.98e-02
##	1023	1.54e-03	-2.74e-03	6.64e-03	-2.45e-03	2.50e-03	-4.36e-03	4.60e-03
##	1024	-2.93e-03	-7.48e-03	-1.45e-02	-6.22e-03	2.93e-03	-4.59e-03	7.26e-03
##	1025	-6.64e-03	-7.90e-03	-5.02e-03	8.87e-03	2.02e-03	-1.95e-03	2.69e-05
##	1026	6.68e-03	-1.42e-02	9.73e-03	8.32e-03	1.97e-02	-5.19e-03	5.51e-03
##	1027	-1.36e-02	1.34e-02	-3.87e-02	9.60e-03	2.35e-02	-8.27e-03	-1.16e-02
##	1028	-1.11e-02	-1.01e-02	-6.03e-03	-2.59e-03	-1.38e-02	6.05e-03	1.60e-02
##	1029	1.33e-02	8.33e-03	-1.07e-03	-4.80e-03	-1.01e-02	1.46e-03	-1.84e-02
##	1030	-4.91e-03	9.68e-03	-2.10e-02	-7.86e-03	3.59e-03	-6.67e-03	-4.79e-03
##	1031	-4.01e-04	1.15e-03	5.96e-04	1.45e-03	-1.97e-03	-1.65e-03	1.44e-03
##	1032	-8.54e-04	4.90e-03	1.53e-03	4.96e-03	-7.23e-03	9.17e-04	-1.56e-03
##	1033	8.19e-04	-9.05e-04	2.60e-04	-1.12e-03	-5.98e-04	-2.30e-03	1.11e-03
##	1034	-4.46e-05	-6.09e-05	1.87e-05	-9.65e-06	7.23e-05	1.08e-04	-1.06e-05
##	1035	6.38e-04	-1.50e-02	-8.02e-03	7.39e-03	3.79e-03	-1.87e-03	1.60e-02
##	1036	-2.19e-02	8.77e-03	-9.95e-03	-1.24e-02	1.12e-02	2.19e-03	1.71e-02
##	1037	5.65e-03	-2.30e-02	2.19e-02	3.53e-02	-2.88e-02	-1.57e-02	-3.01e-02
##	1038	1.28e-02	-1.19e-02	-2.62e-02	-1.02e-02	3.79e-03	-5.43e-03	-1.14e-02
##	1039	5.45e-03	-3.36e-03	1.06e-03	5.61e-03	-6.85e-03	-5.05e-03	-2.94e-04
##	1040	-2.26e-02	-1.55e-02	-6.02e-03	-1.16e-02	-1.84e-02	-6.54e-04	2.14e-02
##	1041	2.24e-02	-1.87e-02	1.13e-02	1.04e-02	2.68e-02	-7.71e-05	-2.96e-02
##	1042	2.38e-04	-4.43e-03	3.79e-04	1.84e-03	2.77e-03	-5.36e-03	-9.44e-04
##	1043	1.42e-02	-1.45e-02	-1.09e-02	-2.65e-03	-2.17e-02	1.93e-03	-6.06e-03
##	1044	3.49e-04	-4.75e-04	-8.60e-05	5.17e-04	1.92e-04	3.08e-04	-8.09e-04
##	1045	-2.19e-03	1.05e-02	-2.41e-03	2.30e-03	4.28e-03	-3.89e-03	-5.20e-03
##	1046	1.99e-03	3.77e-03	-8.45e-04	2.37e-03	2.20e-03	1.05e-03	-2.56e-04
##	1047	-3.13e-02	2.65e-02	3.38e-03	-6.37e-03	-1.34e-02	3.62e-02	7.45e-03
##	1048	-5.47e-03	-1.76e-02	-4.40e-02	-1.28e-02	5.56e-03	6.22e-03	-1.85e-02
##	1049	-1.47e-03	-1.40e-02	-6.09e-03	-1.04e-02	-1.75e-02	-1.10e-02	2.02e-02
##	1050	6.85e-03	-8.72e-03	-3.28e-03	7.62e-03	2.34e-03	5.10e-03	-1.65e-02
##	1051	8.39e-03	1.96e-02	1.00e-02	-7.11e-03	-4.66e-03	1.69e-02	-2.33e-02
##	1052	1.97e-03	-1.56e-02	1.96e-02	2.17e-02	-1.65e-02	-2.31e-03	3.97e-03
##	1053	3.09e-04	-1.95e-03	-2.82e-04	1.34e-03	1.09e-03	1.99e-03	1.21e-04
##	1054	7.96e-03	1.15e-02	8.99e-03	-4.60e-03	-1.92e-03	-2.91e-03	-1.19e-02
##	1055	2.22e-03	1.38e-02	8.87e-03	-6.59e-03	-4.55e-03	-1.07e-02	-1.44e-02
##	1056	-5.87e-03	-1.13e-02	5.73e-03	9.39e-03	1.37e-02	7.19e-04	-9.24e-03
##	1057	4.69e-03	-1.51e-02	1.08e-02	-9.51e-03	-2.87e-03	-1.26e-02	6.53e-03
##	1058	4.14e-03	2.79e-03	3.19e-05	-1.78e-03	-2.59e-03	-2.17e-03	2.19e-05
##	1059	-2.57e-03	-4.79e-03	9.04e-03	-2.81e-03	3.49e-03	-8.02e-03	1.11e-03
##	1060	-4.79e-04	-4.56e-03	-2.19e-03	-7.57e-03	5.99e-03	1.91e-03	-3.39e-04
##	1061	8.53e-03	7.27e-03	-2.68e-04	2.87e-03	3.58e-03	-2.85e-04	-4.56e-03
##	1062	-3.18e-03	-4.93e-03	2.96e-04	2.02e-03	2.89e-03	-1.21e-03	-4.46e-04
##	1063	-7.02e-03	1.47e-02	1.28e-02	-1.21e-02	-3.10e-03	-9.31e-04	6.85e-03
##	1064	4.81e-04	-6.83e-04	2.21e-04	1.09e-03	-1.26e-03	-6.20e-04	-2.54e-04
##	1065	6.05e-03	1.33e-02	-9.83e-03	-2.25e-02	1.60e-02	8.11e-03	1.43e-02
##	1066	-1.05e-02	-1.96e-02	2.45e-02	2.46e-02	-2.08e-02	7.89e-04	7.19e-03
##	1067	-5.40e-03	5.09e-03	1.54e-02	4.01e-03	3.23e-04	-2.90e-04	-1.25e-03
##	1068	2.15e-02	1.50e-02	9.34e-03	-5.47e-03	-3.90e-03	7.78e-03	-1.90e-02
##	1069	-1.13e-02	1.99e-02	8.41e-03	-6.06e-03	-7.61e-03	1.99e-02	1.22e-02

## 1070	-7.96e-03	8.01e-03	-1.59e-03	5.32e-03	4.26e-03	-1.02e-02	1.35e-02
## 1071	-1.06e-02	-1.04e-02	8.78e-03	-5.69e-03	-1.39e-03	-2.88e-03	9.86e-03
## 1072	5.69e-03	6.12e-03	-9.48e-04	1.48e-03	3.41e-03	-8.69e-03	-1.54e-03
## 1073	5.42e-03	-7.53e-03	-5.16e-03	-7.37e-04	-1.17e-02	2.61e-03	1.52e-04
## 1074	2.49e-03	-1.56e-03	-3.52e-04	-2.78e-04	-1.67e-03	2.73e-03	-2.23e-03
## 1075	-5.80e-02	1.91e-02	1.60e-02	-2.24e-02	-2.26e-03	-1.36e-02	1.49e-02
## 1076	-2.15e-02	-8.50e-03	1.76e-02	1.25e-02	-2.12e-03	-4.60e-03	2.24e-03
## 1077	-1.42e-02	-1.83e-02	-8.36e-03	-1.71e-02	-2.28e-02	-7.18e-03	2.22e-02
## 1078	4.06e-04	1.64e-03	-1.91e-04	1.16e-03	1.07e-03	-1.17e-03	2.56e-04
## 1079	5.27e-04	1.52e-02	2.63e-02	-1.65e-02	8.10e-03	4.39e-03	-9.08e-03
## 1080	1.01e-02	-1.12e-02	8.52e-03	-3.74e-03	-2.16e-03	-2.35e-03	-1.12e-02
## 1081	-6.69e-04	8.48e-04	-6.42e-06	2.61e-04	7.92e-04	-1.46e-03	-1.86e-04
## 1082	1.19e-02	1.40e-02	-2.93e-02	-1.09e-02	5.17e-03	-3.39e-03	-1.32e-02
## 1083	6.57e-03	1.16e-02	-2.59e-02	-9.97e-03	3.95e-03	-1.85e-03	-1.07e-02
## 1084	-5.58e-03	1.03e-02	-5.80e-03	7.75e-03	2.12e-03	4.97e-03	-1.54e-04
## 1085	-6.55e-03	-9.72e-03	-1.59e-02	1.32e-02	-5.76e-03	-2.30e-03	8.06e-03
## 1086	-1.69e-02	-1.80e-02	-1.59e-02	1.07e-02	2.34e-03	-2.10e-04	-6.05e-03
## 1087	3.93e-03	-5.95e-03	-4.41e-03	7.82e-03	1.41e-03	-4.15e-03	-1.82e-03
## 1088	7.66e-03	7.67e-03	-1.92e-03	5.75e-03	2.78e-03	-4.17e-04	-3.93e-03
## 1089	3.03e-03	-7.07e-03	2.00e-03	8.19e-03	-1.15e-02	-5.67e-03	-2.28e-03
## 1090	1.35e-03	1.19e-03	2.48e-04	-1.56e-04	1.42e-03	9.41e-04	-6.46e-04
## 1091	2.86e-03	4.30e-03	-9.80e-04	-1.32e-03	-4.82e-03	-1.20e-03	-8.27e-03
## 1092	-1.90e-02	2.10e-02	-1.48e-02	6.81e-03	6.04e-03	3.74e-03	2.07e-02
## 1093	2.84e-02	-8.98e-03	-3.70e-03	-1.94e-02	1.47e-02	2.01e-03	-7.99e-03
## 1094	1.64e-02	-1.55e-02	7.50e-03	9.21e-03	1.93e-02	1.46e-03	-2.16e-02
## 1095	3.45e-04	-3.32e-04	1.05e-04	1.35e-05	4.14e-04	-7.05e-05	-1.44e-04
## 1096	6.39e-03	1.15e-02	-1.42e-03	-1.19e-02	-1.39e-02	-6.42e-03	-2.39e-02
## 1097	1.52e-02	7.16e-03	4.51e-04	1.18e-02	-1.56e-02	-3.52e-03	-1.40e-02
## 1098	5.90e-03	-3.71e-03	5.59e-05	-2.75e-03	-3.68e-03	-6.00e-04	-3.82e-04
## 1099	-1.92e-02	-1.95e-02	4.13e-03	1.99e-02	2.27e-02	1.00e-02	1.24e-02
## 1100	4.00e-04	8.03e-03	-4.16e-03	-1.35e-03	-1.08e-02	-2.21e-03	-2.94e-04
## 1101	1.10e-03	2.57e-03	-7.24e-04	2.08e-03	1.45e-03	3.75e-03	-4.14e-05
## 1102	-9.02e-03	-1.89e-02	-1.98e-02	-3.80e-02	2.35e-02	1.38e-04	2.12e-02
## 1103	-9.03e-03	-5.26e-03	-3.68e-03	7.05e-03	1.43e-03	-6.36e-03	1.12e-03
## 1104	-4.16e-04	1.75e-03	9.59e-04	2.02e-03	-2.93e-03	-3.46e-03	2.05e-03
## 1105	3.88e-04	1.59e-03	4.55e-04	-1.99e-03	-9.16e-04	-3.72e-03	1.83e-03
## 1106	-2.27e-03	6.65e-03	-5.70e-03	-1.18e-02	9.65e-03	8.09e-03	-1.72e-03
## 1107	9.74e-04	-6.15e-04	2.36e-04	-7.15e-04	-3.43e-04	-5.39e-04	-1.25e-03
## 1108	-2.91e-02	1.37e-02	7.92e-03	-6.91e-03	-3.64e-03	-1.05e-02	-1.17e-02
## 1109	-7.34e-04	2.40e-03	-6.31e-03	-3.89e-03	1.87e-04	-4.82e-04	3.76e-03
## 1110	5.51e-03	1.83e-02	2.13e-02	2.68e-02	-1.95e-02	-6.29e-03	4.96e-03
## 1111	1.20e-02	1.77e-02	-2.07e-02	-2.60e-02	1.97e-02	3.21e-03	-1.00e-02
## 1112	-5.85e-03	3.95e-03	-8.44e-04	3.34e-03	2.01e-03	-2.51e-03	-5.87e-03
## 1113	5.36e-03	-4.43e-03	-1.68e-03	3.68e-03	2.13e-03	2.80e-03	-7.33e-03
## 1114	-1.94e-02	8.96e-03	-7.33e-03	1.11e-02	1.88e-03	-6.68e-03	1.22e-03
## 1115	1.63e-02	-1.04e-02	-7.71e-03	-1.74e-03	-1.53e-02	2.27e-03	-3.39e-03
## 1116	6.62e-04	-2.14e-03	2.89e-05	-8.72e-05	2.27e-03	-1.74e-03	-4.45e-03
## 1117	-3.02e-02	1.32e-02	-9.48e-03	7.94e-03	3.09e-03	2.30e-03	2.02e-02
## 1118	6.27e-03	-3.11e-03	-9.71e-04	3.55e-03	9.99e-04	1.25e-03	-6.54e-03
## 1119	1.38e-02	1.86e-02	1.03e-02	-1.09e-02	-6.45e-03	1.79e-02	-2.69e-02

## 1120	4.95e-03	4.43e-03	-3.10e-04	-2.46e-03	-4.26e-03	-3.06e-03	-1.00e-03
## 1121	3.68e-03	1.01e-02	-4.60e-03	4.36e-03	3.61e-03	-6.39e-03	-5.38e-03
## 1122	-1.13e-02	-1.52e-02	-2.48e-02	1.71e-02	-8.59e-03	-1.11e-03	1.01e-02
## 1123	2.52e-02	-1.46e-02	9.75e-03	-6.22e-03	-4.12e-03	-6.55e-03	-1.75e-02
## 1124	5.44e-03	-3.41e-03	4.88e-04	-2.47e-03	-3.40e-03	3.23e-04	-1.02e-03
## 1125	7.56e-03	4.98e-03	-1.73e-03	2.97e-03	2.18e-03	3.16e-03	-1.50e-03
## 1126	-2.14e-02	1.47e-02	2.97e-02	2.07e-02	-7.50e-03	1.01e-02	-3.59e-03
## 1127	8.62e-04	1.41e-03	2.19e-04	-9.07e-04	-1.11e-03	-1.91e-03	2.46e-04
## 1128	-3.53e-02	1.81e-02	1.41e-02	3.57e-02	-2.78e-02	1.32e-02	4.24e-02
## 1129	-2.03e-02	9.39e-03	-2.01e-02	1.58e-02	-6.67e-03	-2.96e-03	1.05e-02
## 1130	5.82e-03	4.70e-03	1.74e-03	6.91e-03	-1.01e-02	-6.61e-03	-1.38e-03
## 1131	-3.44e-03	-1.02e-02	-4.10e-03	-6.34e-03	-1.23e-02	6.57e-03	1.55e-02
## 1132	8.09e-04	-1.32e-03	2.93e-03	-8.38e-04	1.04e-03	-2.93e-03	1.45e-04
## 1133	1.80e-04	3.10e-03	-2.61e-04	4.69e-04	2.56e-03	-6.17e-03	-1.49e-03
## 1134	2.47e-03	-3.13e-03	-2.16e-04	3.70e-04	2.83e-03	-1.06e-02	-1.75e-03
## 1135	2.09e-02	1.25e-02	-2.79e-03	-8.87e-03	-1.33e-02	-8.49e-03	-2.55e-02
## 1136	1.14e-03	5.14e-03	1.36e-02	-8.91e-03	6.14e-03	-7.00e-03	-5.91e-04
## 1137	1.30e-02	-5.57e-03	2.97e-03	1.09e-02	-1.16e-02	-4.18e-03	-1.34e-02
## 1138	1.07e-02	6.26e-03	1.48e-03	9.35e-03	-1.36e-02	-6.35e-03	-2.11e-03
## 1139	-1.66e-02	1.97e-02	4.50e-02	-9.66e-03	-3.72e-02	-1.03e-02	-8.04e-03
## 1140	3.42e-06	1.01e-02	-7.85e-03	-1.87e-02	1.42e-02	-5.09e-03	-1.86e-02
## 1141	1.31e-02	-1.54e-02	1.01e-02	-4.40e-03	-4.18e-03	2.36e-02	-2.13e-02
## 1142	-3.61e-03	-1.11e-02	-1.13e-02	-1.89e-02	1.44e-02	3.22e-03	1.71e-02
## 1143	-8.22e-03	4.41e-03	-8.16e-04	2.66e-03	2.46e-03	9.71e-04	8.74e-03
## 1144	8.13e-03	-1.66e-02	-8.60e-03	6.32e-03	5.36e-03	-9.70e-03	-3.62e-02
## 1145	-2.10e-03	7.02e-03	6.54e-03	-3.28e-03	-1.28e-03	-3.78e-03	5.93e-03
## 1146	-4.28e-03	-1.15e-02	6.85e-03	8.73e-03	1.57e-02	-1.13e-02	-1.07e-02
## 1147	-3.18e-03	-1.09e-02	-8.46e-03	8.55e-03	1.86e-03	1.38e-02	1.55e-02
## 1148	8.17e-03	-5.74e-03	-7.31e-04	1.52e-03	2.92e-03	-9.23e-03	-1.83e-03
## 1149	-1.04e-02	1.13e-02	-3.91e-03	4.28e-03	5.43e-03	-9.23e-04	-6.05e-03
## 1150	9.24e-04	-3.49e-03	-1.92e-03	-4.51e-03	4.86e-03	3.02e-03	-5.49e-04
## 1151	1.44e-03	-1.22e-03	-6.35e-05	-3.88e-04	-1.16e-03	-2.41e-04	-1.63e-03
## 1152	1.20e-03	-2.46e-03	1.29e-03	2.78e-03	-3.94e-03	-2.31e-04	3.38e-03
## 1153	8.73e-04	1.30e-03	1.02e-04	-1.18e-03	-8.48e-04	-2.18e-03	-3.92e-04
## 1154	-6.91e-03	-1.02e-02	1.70e-02	-7.83e-03	6.19e-03	-5.00e-03	5.09e-04
## 1155	5.41e-03	-7.69e-03	-9.92e-03	-9.40e-03	8.75e-03	4.25e-03	-1.18e-03
## 1156	5.55e-03	9.39e-03	-1.86e-02	1.67e-02	-7.41e-03	1.48e-03	-9.06e-03
## 1157	8.00e-03	-1.69e-02	3.44e-02	-2.53e-02	1.28e-02	6.12e-03	1.71e-02
## 1158	1.42e-02	-1.74e-02	2.26e-03	-2.53e-02	4.13e-02	2.69e-02	-2.74e-02
## 1159	-1.42e-03	1.91e-03	5.68e-04	-2.41e-03	-4.44e-04	-1.84e-03	-1.42e-04
## 1160	-7.43e-03	1.14e-02	1.10e-02	-7.27e-03	-2.66e-03	-5.46e-04	8.12e-03
## 1161	-1.80e-03	1.69e-03	-4.17e-03	1.27e-03	-1.55e-03	9.03e-04	2.57e-03
## 1162	7.32e-04	2.09e-03	-2.51e-04	1.27e-03	1.28e-03	-8.65e-04	5.08e-05
## 1163	9.23e-03	-1.18e-02	-5.14e-03	4.86e-03	4.46e-03	-8.44e-03	-2.59e-02
## 1164	-1.27e-02	9.64e-03	-5.04e-03	6.85e-03	3.68e-03	-6.04e-03	-1.62e-02
## 1165	2.58e-03	3.77e-03	9.14e-04	-4.05e-03	-3.20e-03	-9.36e-03	-8.44e-05
## 1166	-5.73e-03	5.66e-03	1.33e-02	9.55e-03	-1.42e-03	1.34e-02	9.49e-03
## 1167	-1.30e-04	-3.40e-04	1.08e-04	-6.05e-05	4.19e-04	4.47e-04	-6.36e-05
## 1168	2.57e-02	-2.27e-02	2.51e-02	2.88e-02	-2.94e-02	-1.00e-03	-3.69e-02
## 1169	1.25e-02	-1.82e-02	3.90e-02	-2.43e-03	-3.56e-02	4.98e-03	-1.05e-02

## 1170	-4.15e-02	-2.46e-02	5.78e-03	-6.18e-03	-1.19e-02	4.09e-02	9.75e-03
## 1171	-4.42e-03	-1.11e-02	-4.88e-03	5.47e-03	4.98e-03	-9.06e-03	-2.11e-02
## 1172	-1.87e-03	-1.56e-02	-1.30e-02	9.57e-03	3.57e-03	4.79e-04	-6.59e-03
## 1173	-2.72e-02	9.80e-03	8.36e-03	-5.72e-03	-2.18e-03	-1.20e-02	1.22e-02
## 1174	-1.39e-03	-4.22e-03	-1.06e-03	4.43e-03	2.05e-03	3.29e-05	-6.92e-03
## 1175	-9.71e-03	-1.42e-02	8.91e-03	-7.64e-03	-2.45e-03	-1.61e-02	-1.14e-02
## 1176	2.67e-03	1.33e-02	2.46e-02	-1.60e-02	8.91e-03	7.24e-03	-5.76e-03
## 1177	-4.05e-03	2.45e-03	-2.60e-04	1.96e-03	1.32e-03	-1.17e-03	4.77e-04
## 1178	-1.05e-02	-1.87e-02	-4.68e-02	-1.81e-02	4.90e-03	-1.03e-04	1.43e-02
## 1179	4.11e-03	6.80e-03	-5.21e-03	8.04e-03	1.32e-03	1.46e-02	9.44e-03
## 1180	-6.41e-03	-8.90e-03	-7.16e-03	-1.17e-02	1.07e-02	2.21e-03	1.33e-02
## 1181	9.87e-03	1.46e-02	-5.92e-03	-1.01e-02	-1.77e-02	1.25e-02	1.36e-02
## 1182	-8.46e-03	1.52e-02	8.76e-03	-5.47e-03	-3.77e-03	1.04e-02	3.41e-02
## 1183	4.16e-04	-9.85e-04	-5.90e-04	-1.32e-03	1.42e-03	6.47e-04	-1.42e-03
## 1184	-1.63e-02	-7.04e-03	1.36e-02	1.18e-02	-2.67e-03	-9.72e-03	3.10e-03
## 1185	-1.22e-03	-1.20e-02	-6.37e-03	1.01e-02	2.49e-03	4.03e-03	1.41e-02
## 1186	-1.18e-02	1.87e-02	-1.29e-02	7.79e-03	3.86e-03	6.82e-03	1.77e-02
## 1187	1.41e-03	1.35e-02	-9.86e-03	1.22e-02	3.82e-03	4.62e-04	-4.41e-03
## 1188	8.11e-04	7.40e-04	8.06e-05	-3.08e-04	-6.31e-04	-6.29e-04	-1.18e-03
## 1189	6.07e-05	-1.05e-02	8.89e-03	-5.29e-03	-2.08e-03	-4.91e-03	7.67e-03
## 1190	-1.90e-03	-2.46e-03	-1.35e-04	2.19e-03	1.11e-03	9.14e-04	-1.38e-04
## 1191	-3.67e-03	-9.25e-03	-3.34e-03	3.93e-03	3.49e-03	-9.90e-04	-3.06e-03
## 1192	1.01e-02	-1.27e-02	2.70e-02	-2.00e-02	1.01e-02	-8.94e-04	-8.32e-03
## 1193	-3.52e-04	-2.53e-03	1.04e-03	2.82e-03	-3.95e-03	2.48e-04	3.46e-03
## 1194	1.19e-02	6.01e-03	-3.15e-03	-1.14e-02	8.79e-03	-5.60e-03	-1.81e-03
## 1195	3.53e-04	-9.29e-04	-1.60e-04	8.45e-04	6.00e-04	1.32e-04	2.46e-04
## 1196	-8.39e-03	-1.39e-02	-1.33e-02	-2.62e-02	1.92e-02	9.45e-04	-3.74e-03
## 1197	2.19e-03	1.32e-02	-8.68e-03	1.12e-02	3.11e-03	-3.26e-04	-4.57e-03
## 1198	2.43e-03	-1.08e-02	-4.79e-03	4.38e-03	3.76e-03	-2.79e-03	-5.42e-03
## 1199	1.31e-02	-2.29e-02	2.37e-02	2.87e-02	-2.84e-02	6.34e-03	-3.31e-02
## 1200	1.18e-04	2.24e-04	5.24e-05	-2.39e-04	-1.33e-04	-4.21e-04	2.55e-04
## 1201	-1.49e-02	8.85e-03	-3.13e-03	-7.85e-03	-1.16e-02	-8.33e-03	1.74e-02
## 1202	1.24e-02	-1.11e-02	9.09e-03	-3.85e-03	-2.35e-03	3.22e-03	5.33e-03
## 1203	-2.38e-02	-1.90e-02	-1.33e-02	6.28e-03	4.16e-03	-2.56e-03	2.22e-02
## 1204	2.13e-02	-1.24e-02	2.29e-03	1.90e-02	-2.76e-02	3.56e-03	-9.29e-03
## 1205	7.09e-03	1.08e-02	7.65e-03	-3.71e-03	-2.90e-03	-1.92e-03	-1.08e-02
## 1206	-3.97e-03	6.46e-03	-6.82e-03	-7.75e-03	8.09e-03	-1.50e-03	1.24e-03
## 1207	2.00e-02	-1.56e-02	8.42e-03	1.28e-02	2.13e-02	-9.22e-04	-2.18e-02
## 1208	-2.73e-02	1.91e-02	3.88e-03	1.60e-02	2.41e-02	3.10e-03	3.93e-02
## 1209	-2.74e-02	1.74e-02	-1.28e-02	6.64e-03	4.15e-03	-1.55e-03	2.10e-02
## 1210	-1.75e-04	3.94e-03	-2.14e-04	2.21e-04	3.39e-03	-8.91e-03	-2.09e-03
## 1211	6.56e-03	-1.32e-02	1.23e-02	-8.53e-03	-9.55e-04	-1.54e-03	5.48e-03
## 1212	2.62e-03	1.19e-02	6.32e-03	1.10e-02	1.58e-02	2.09e-04	-1.30e-02
## 1213	5.88e-04	-2.28e-03	-2.80e-04	6.73e-04	1.92e-03	-2.82e-03	-1.09e-03
## 1214	2.29e-03	1.91e-03	-1.36e-03	-2.38e-03	2.82e-03	4.12e-03	-2.85e-03
## 1215	1.48e-03	-1.52e-02	1.37e-02	-1.06e-02	-2.84e-03	-2.85e-03	7.17e-03
## 1216	5.96e-03	-7.99e-03	-4.07e-03	-3.50e-04	-1.05e-02	9.34e-03	-1.29e-02
## 1217	6.71e-03	1.07e-02	-4.73e-03	6.39e-03	3.33e-03	-1.45e-03	-2.09e-02
## 1218	-2.17e-02	1.21e-02	-7.90e-03	4.32e-03	4.07e-03	-1.35e-02	2.01e-02
## 1219	3.13e-03	-4.21e-03	-1.25e-03	5.29e-04	4.22e-03	-3.81e-03	-1.21e-03

## 1220	1.03e-02	1.07e-02	9.04e-03	-4.10e-03	-1.96e-03	2.40e-03	4.53e-03
## 1221	7.89e-03	-1.78e-02	3.16e-03	2.03e-02	2.19e-02	2.04e-02	6.69e-03
## 1222	-1.39e-02	1.80e-02	1.33e-02	3.50e-02	-2.38e-02	3.45e-03	-2.25e-02
## 1223	-3.63e-04	2.13e-03	1.19e-03	2.35e-03	-3.52e-03	-4.47e-03	2.38e-03
## 1224	-4.13e-03	9.60e-03	-5.72e-03	7.86e-03	3.21e-03	-4.38e-03	-1.41e-03
## 1225	3.02e-03	-1.30e-02	-1.53e-02	-1.71e-02	1.46e-02	8.52e-03	-2.80e-03
## 1226	4.88e-04	-2.49e-03	9.91e-04	2.93e-03	-3.74e-03	6.59e-04	3.35e-03
## 1227	-5.96e-03	9.49e-03	-6.45e-03	-2.80e-03	-1.34e-02	7.16e-03	-2.21e-03
## 1228	6.13e-03	7.49e-03	-2.49e-03	4.72e-03	2.55e-03	2.54e-03	-4.47e-03
## 1229	2.82e-02	-1.78e-02	9.12e-03	1.01e-02	2.49e-02	-1.56e-02	-2.76e-02
## 1230	-9.39e-04	2.59e-03	1.62e-04	-3.99e-05	2.38e-03	-5.25e-03	2.76e-03
## 1231	7.82e-04	4.35e-03	-2.07e-04	9.62e-03	-9.87e-03	5.16e-04	6.72e-03
## 1232	-3.01e-03	6.88e-03	1.42e-02	-6.63e-03	5.17e-03	-1.09e-03	-1.37e-03
## 1233	1.38e-02	-1.09e-02	9.29e-03	-4.12e-03	-2.15e-03	1.97e-03	4.12e-03
## 1234	4.17e-04	3.41e-03	-1.87e-04	1.44e-03	2.31e-03	-3.89e-03	-1.79e-04
## 1235	1.69e-03	8.38e-03	-1.67e-02	-7.91e-03	3.68e-03	-3.98e-03	5.95e-03
## 1236	2.00e-02	-1.24e-02	-2.25e-03	-1.18e-02	-1.36e-02	-1.02e-02	-8.85e-03
## 1237	7.18e-03	5.40e-03	-1.87e-03	3.03e-03	2.46e-03	3.40e-03	-1.51e-03
## 1238	5.68e-03	1.02e-02	-5.91e-03	7.58e-03	2.74e-03	9.17e-03	-2.15e-02
## 1239	-6.32e-03	-8.51e-03	-5.69e-03	-1.56e-02	1.19e-02	-2.90e-03	1.36e-02
## 1240	2.47e-02	-1.92e-02	6.31e-03	-5.28e-03	-8.45e-03	1.97e-02	7.08e-03
## 1241	-4.57e-02	2.73e-02	5.69e-03	-1.36e-02	-1.29e-02	2.06e-02	6.53e-03
## 1242	-1.16e-02	1.97e-02	3.62e-02	-2.89e-02	1.33e-02	6.59e-03	1.97e-02
## 1243	1.62e-02	-1.13e-02	-8.11e-03	-2.60e-03	-1.62e-02	4.28e-03	-4.09e-03
## 1244	-3.54e-03	-1.10e-02	-5.11e-03	-5.63e-03	-1.34e-02	-9.15e-03	-2.23e-03
## 1245	5.77e-03	1.43e-02	8.37e-03	-6.97e-03	-3.79e-03	-9.38e-03	6.62e-03
## 1246	2.79e-02	-1.87e-02	6.09e-03	-4.81e-03	-8.58e-03	1.57e-02	7.24e-03
## 1247	-4.32e-03	-5.32e-03	-3.92e-03	-6.05e-03	6.94e-03	-6.55e-03	7.25e-04
## 1248	1.62e-02	1.45e-02	9.43e-03	-4.54e-03	-4.76e-03	-1.04e-03	-1.73e-02
## 1249	6.64e-03	5.61e-03	-7.87e-04	1.44e-03	3.05e-03	-9.19e-03	-1.78e-03
## 1250	8.14e-03	1.20e-02	9.34e-03	-5.10e-03	-1.96e-03	-3.94e-03	-1.22e-02
## 1251	-1.03e-02	-5.40e-03	1.19e-02	-5.04e-03	4.54e-03	-2.84e-03	9.04e-03
## 1252	1.12e-02	2.02e-02	7.76e-03	-4.27e-03	-6.01e-03	2.75e-02	-2.93e-02
## 1253	-2.61e-03	2.49e-03	9.68e-05	-3.74e-04	2.80e-03	5.30e-04	3.36e-03
## 1254	-2.31e-02	-1.03e-02	2.19e-02	1.10e-02	-2.14e-03	7.78e-03	1.65e-02
## 1255	4.79e-04	6.66e-04	4.41e-05	-5.61e-04	-4.38e-04	-6.95e-04	-2.32e-04
## 1256	3.06e-02	2.14e-02	-4.58e-02	-2.76e-02	6.06e-03	2.11e-03	-2.97e-02
## 1257	-1.33e-03	1.20e-02	-5.20e-03	3.04e-03	5.10e-03	-7.07e-03	-6.97e-03
## 1258	7.20e-03	-1.40e-02	-1.04e-02	-3.28e-02	2.15e-02	1.69e-03	1.74e-02
## 1259	4.50e-03	-1.11e-02	-7.93e-03	-2.21e-02	1.56e-02	-5.35e-03	-4.41e-03
## 1260	6.21e-03	2.24e-02	-3.40e-02	1.68e-02	-9.28e-03	-2.80e-03	2.10e-03
## 1261	-5.01e-03	2.52e-03	-7.85e-04	5.91e-05	-3.43e-03	-2.32e-03	5.65e-03
## 1262	-1.13e-02	6.57e-03	1.95e-02	1.82e-02	-1.99e-02	8.67e-04	1.14e-02
## 1263	-6.46e-03	-1.91e-02	4.40e-02	1.47e-02	-5.92e-03	-1.42e-03	-1.19e-02
## 1264	-6.27e-05	-1.72e-04	9.91e-05	1.94e-04	-2.55e-04	5.74e-05	2.51e-04
## 1265	-1.39e-02	-2.53e-02	2.68e-02	2.71e-02	-3.04e-02	1.31e-02	4.09e-03
## 1266	2.63e-07	9.37e-07	-1.98e-07	7.38e-08	-1.05e-06	-1.47e-06	2.15e-07
## 1267	-1.14e-05	-1.85e-03	5.68e-05	2.09e-04	1.67e-03	-2.99e-03	2.13e-03
## 1268	2.14e-03	-2.40e-03	-8.79e-04	2.46e-03	1.05e-03	3.36e-03	3.64e-03
## 1269	6.87e-03	4.67e-03	4.27e-04	-4.92e-03	-4.72e-03	-6.34e-03	-1.07e-03

## 1270	4.41e-03	1.06e-02	1.82e-02	-1.08e-02	6.73e-03	7.08e-03	-4.61e-03
## 1271	-4.80e-03	-5.22e-03	-2.49e-03	5.16e-04	-6.62e-03	-1.01e-02	2.39e-03
## 1272	3.01e-03	3.94e-03	7.27e-04	5.66e-03	-6.80e-03	-2.99e-03	-7.68e-04
## 1273	-2.32e-05	-4.16e-05	9.42e-05	-3.13e-05	3.66e-05	-3.58e-05	7.40e-05
## 1274	-8.55e-04	2.08e-03	9.67e-05	8.46e-05	1.89e-03	-5.85e-03	-8.89e-04
## 1275	3.18e-03	4.64e-03	-1.28e-04	-2.12e-03	-4.94e-03	6.45e-04	7.43e-03
## 1276	4.94e-03	3.98e-03	-1.79e-03	-6.76e-03	6.09e-03	-3.41e-03	2.19e-08
## 1277	8.40e-04	-1.39e-03	3.08e-03	-8.82e-04	1.09e-03	-3.05e-03	1.63e-04
## 1278	3.24e-03	-2.48e-03	-6.57e-04	1.99e-03	1.30e-03	8.74e-04	-1.14e-04
## 1279	8.30e-03	1.57e-02	-6.85e-03	4.79e-03	5.96e-03	-1.82e-03	-1.46e-02
## 1280	-3.86e-03	-4.28e-03	-4.05e-03	-3.68e-03	5.18e-03	-5.18e-03	1.39e-03
## 1281	1.51e-03	-2.24e-03	-2.77e-04	6.35e-04	1.94e-03	-4.86e-03	-1.12e-03
## 1282	2.18e-03	-9.24e-03	-1.69e-02	1.51e-02	-6.62e-03	-1.42e-03	-6.93e-03
## 1283	1.16e-02	-1.09e-02	-5.10e-04	4.10e-03	5.67e-03	-5.31e-03	-8.21e-03
## 1284	3.29e-02	-1.37e-02	-7.69e-03	-6.51e-03	-1.96e-02	9.87e-03	-1.13e-02
## 1285	2.33e-03	-2.00e-03	3.02e-04	-2.32e-03	-1.46e-03	-5.84e-03	-8.34e-04
## 1286	-2.45e-03	-3.40e-03	8.72e-04	-4.07e-03	-1.37e-03	-4.05e-03	5.51e-03
## 1287	-8.32e-05	-6.24e-04	-1.42e-03	4.05e-04	-6.09e-04	1.83e-04	1.01e-03
## 1288	1.85e-02	-1.81e-02	1.36e-02	3.50e-02	-2.47e-02	6.95e-04	-2.28e-02
## 1289	-3.21e-04	7.37e-04	1.93e-04	-9.47e-04	-2.96e-04	1.93e-04	1.17e-03
## 1290	-1.93e-04	2.55e-03	-1.12e-03	3.33e-04	-3.38e-03	-4.65e-03	6.79e-04
## 1291	2.63e-02	-1.98e-02	6.84e-03	-6.88e-03	-8.52e-03	1.44e-02	7.08e-03
## 1292	-1.01e-03	1.41e-03	5.47e-05	-1.37e-04	1.59e-03	2.45e-04	1.85e-03
## 1293	-2.31e-02	-1.74e-02	3.77e-02	1.59e-02	-5.45e-03	2.22e-03	2.06e-02
## 1294	-2.90e-02	-1.91e-02	-1.41e-02	7.89e-03	4.14e-03	-2.25e-03	-5.54e-03
## 1295	8.88e-03	-7.42e-03	-1.15e-03	-4.34e-03	-7.53e-03	-2.17e-03	9.64e-03
## 1296	3.69e-03	2.12e-02	1.36e-02	4.11e-02	-2.81e-02	1.47e-02	7.72e-03
## 1297	-1.19e-03	2.45e-03	-2.28e-03	-2.36e-03	3.10e-03	-3.94e-03	6.19e-04
## 1298	-4.17e-04	4.95e-03	-6.92e-04	6.05e-04	4.71e-03	-4.06e-03	-1.45e-03
## 1299	1.66e-03	-1.91e-03	3.25e-04	-5.95e-04	-1.84e-03	2.74e-04	-1.42e-04
## 1300	-2.92e-04	4.03e-03	-2.39e-04	2.29e-04	3.47e-03	-9.13e-03	-2.05e-03
## 1301	3.56e-03	-1.13e-02	-1.83e-02	1.60e-02	-6.46e-03	5.55e-03	5.81e-03
## 1302	8.60e-03	-1.02e-02	-4.95e-03	7.38e-03	2.44e-03	4.23e-03	-5.70e-03
## 1303	-1.53e-02	3.15e-02	1.88e-02	-4.57e-02	-4.77e-03	2.08e-02	-2.60e-03
## 1304	5.08e-03	-3.20e-03	-6.20e-04	2.61e-03	1.42e-03	2.88e-03	-1.43e-03
## 1305	1.04e-02	-9.85e-03	-2.00e-02	-8.80e-03	3.55e-03	-3.41e-03	5.38e-03
## 1306	7.58e-03	1.24e-02	1.08e-02	-7.78e-03	-1.97e-03	-4.16e-03	5.51e-03
## 1307	2.34e-03	1.35e-02	1.68e-02	2.04e-02	-1.46e-02	-6.13e-03	3.84e-03
## 1308	-4.11e-04	6.89e-03	-3.22e-03	-2.76e-03	-8.66e-03	6.72e-04	1.15e-02
## 1309	1.65e-03	3.09e-03	-1.02e-03	3.01e-03	9.49e-04	9.44e-05	-4.87e-03
## 1310	-3.00e-02	-2.09e-02	2.26e-02	2.81e-02	-2.28e-02	-9.81e-03	1.12e-02
## 1311	-3.82e-03	2.33e-02	9.64e-03	8.98e-03	2.95e-02	1.13e-03	2.44e-03
## 1312	5.70e-04	-1.64e-03	4.96e-04	-1.37e-03	-1.24e-03	-4.22e-03	4.89e-04
## 1313	1.04e-02	7.01e-03	-1.83e-03	2.21e-03	3.43e-03	-6.82e-03	-2.61e-03
## 1314	1.20e-02	-7.89e-03	-2.05e-03	2.58e-03	3.71e-03	-1.03e-02	-1.48e-02
## 1315	1.49e-02	1.22e-02	-4.80e-03	5.34e-03	3.93e-03	1.51e-03	-8.50e-03
## 1316	-4.29e-02	-2.40e-02	-6.37e-03	-3.41e-02	5.17e-02	3.65e-02	9.37e-03
## 1317	-2.45e-03	8.22e-03	-2.58e-03	-3.83e-03	-9.28e-03	1.41e-03	1.13e-02
## 1318	-4.52e-03	-3.44e-03	1.65e-05	5.51e-04	3.72e-03	-3.04e-03	-3.13e-05
## 1319	1.58e-02	-5.97e-03	-3.35e-03	-1.26e-02	9.42e-03	-9.60e-03	-1.92e-03

##	1320	-2.33e-04	3.00e-04	2.01e-04	3.44e-04	-4.96e-04	-6.32e-04	3.81e-04
##	1321	-4.23e-02	2.77e-02	-2.26e-03	2.65e-02	2.62e-02	3.60e-02	4.48e-03
##	1322	1.53e-02	1.15e-02	-2.50e-02	-6.80e-03	3.54e-03	4.14e-03	-1.16e-02
##	1323	3.89e-03	-3.53e-03	-4.63e-04	-1.53e-03	-3.85e-03	1.08e-03	6.57e-03
##	1324	1.12e-02	-2.15e-02	2.60e-02	2.41e-02	-2.46e-02	1.86e-02	1.37e-03
##	1325	2.41e-03	-6.45e-03	-2.69e-03	-1.13e-02	8.46e-03	3.08e-03	-2.26e-03
##	1326	3.97e-04	3.56e-03	1.54e-03	4.11e-03	-6.01e-03	-8.92e-03	-1.73e-03
##	1327	7.43e-04	5.06e-03	-1.57e-03	-8.98e-03	7.61e-03	-3.09e-03	-3.84e-04
##	1328	-1.93e-02	-1.54e-02	-8.02e-03	3.38e-03	4.22e-03	-2.42e-02	2.15e-02
##	1329	5.97e-04	-2.16e-03	6.28e-04	-2.75e-03	-1.30e-03	-4.56e-03	2.59e-03
##	1330	-5.65e-03	3.75e-03	-1.39e-03	3.33e-03	1.70e-03	6.65e-03	7.49e-03
##	1331	2.17e-02	1.73e-02	-3.78e-02	-8.92e-03	4.18e-03	3.25e-02	-2.28e-02
##	1332	1.56e-02	-1.77e-02	7.50e-03	-4.71e-03	-6.97e-03	1.50e-02	8.57e-03
##	1333	-9.34e-03	-1.34e-02	-1.32e-02	-2.64e-02	1.86e-02	-3.16e-03	1.86e-02
##	1334	-3.91e-05	1.29e-04	-3.23e-06	9.14e-05	9.15e-05	-9.68e-05	3.50e-05
##	1335	-2.44e-02	-2.49e-02	3.60e-03	-6.00e-03	-1.39e-02	3.60e-02	7.29e-03
##	1336	-1.34e-02	-2.24e-02	3.13e-02	2.39e-02	-2.30e-02	5.79e-03	5.63e-03
##	1337	-5.62e-03	-1.77e-02	-1.40e-03	-2.73e-02	4.06e-02	1.34e-02	1.10e-02
##	1338	-1.12e-03	-2.95e-03	2.79e-04	1.10e-03	2.25e-03	-6.45e-03	4.81e-04
##	1339	7.53e-04	7.09e-04	-1.43e-04	-5.25e-06	-8.88e-04	6.13e-04	-1.61e-04
##	1340	4.88e-03	-4.16e-03	-2.01e-03	-7.32e-03	6.14e-03	2.94e-03	-3.71e-04
##	1341	-5.24e-03	-1.09e-02	-1.22e-02	-1.16e-02	1.13e-02	-8.86e-03	1.69e-05
##	1342	-9.76e-03	1.32e-02	8.70e-03	8.77e-03	1.87e-02	-2.35e-03	9.21e-03
##	1343	-5.65e-04	3.37e-03	-1.60e-04	1.71e-03	2.47e-03	-4.56e-03	3.34e-04
##	1344	9.72e-03	-1.28e-02	1.25e-02	2.51e-02	-1.69e-02	-6.15e-05	-1.41e-02
##	1345	4.31e-03	-1.06e-02	-1.10e-02	-1.46e-02	1.27e-02	1.57e-02	1.45e-02
##	1346	1.82e-03	2.22e-03	1.22e-03	2.38e-03	-3.34e-03	-1.43e-03	2.66e-03
##	1347	1.19e-02	5.82e-03	-2.81e-04	-5.33e-03	-6.13e-03	-6.17e-03	-1.46e-03
##	1348	1.17e-03	-2.53e-03	7.96e-05	-1.88e-04	2.77e-03	-1.58e-03	-5.60e-03
##	1349	-1.84e-04	-2.24e-04	3.54e-05	4.04e-05	2.40e-04	-7.26e-04	-4.99e-05
##	1350	-1.75e-03	1.45e-02	9.93e-03	-8.48e-03	-2.83e-03	-8.26e-03	8.16e-03
##	1351	1.27e-02	-6.71e-03	-1.78e-03	2.50e-03	3.00e-03	-6.53e-03	-2.44e-03
##	1352	-1.64e-02	-1.91e-02	-1.67e-02	9.58e-03	2.94e-03	-4.15e-03	-7.41e-03
##	1353	1.99e-02	1.17e-02	-1.32e-02	-1.34e-02	1.22e-02	-8.84e-04	-4.94e-03
##	1354	-3.78e-02	1.50e-02	-1.02e-02	6.34e-03	4.48e-03	4.58e-03	2.15e-02
##	1355	-1.53e-03	8.69e-03	8.11e-03	-4.86e-03	-1.31e-03	-4.43e-03	6.60e-03
##	1356	7.35e-04	8.05e-03	-1.63e-02	-7.30e-03	3.42e-03	-3.05e-03	6.38e-03
##	1357	1.31e-02	-1.45e-02	1.06e-02	-5.49e-03	-4.33e-03	2.74e-04	7.57e-03
##	1358	2.01e-02	-1.31e-02	9.51e-03	-4.42e-03	-3.22e-03	1.05e-03	-1.56e-02
##	1359	-5.11e-03	4.27e-03	2.05e-03	4.21e-03	-6.59e-03	2.44e-03	6.07e-03
##	1360	-3.50e-03	2.66e-03	-6.12e-04	5.20e-04	2.53e-03	8.67e-04	4.92e-05
##	1361	3.82e-03	-2.38e-02	2.74e-02	3.21e-02	-2.87e-02	-4.31e-02	-3.97e-02
##	1362	4.82e-03	-1.09e-02	1.18e-02	2.03e-02	-1.36e-02	-1.97e-04	5.34e-03
##	1363	-1.61e-02	1.07e-02	1.79e-02	-1.07e-02	6.12e-03	8.75e-03	4.57e-04
##	1364	-3.29e-03	2.02e-03	-7.81e-04	2.23e-03	6.69e-04	1.86e-03	3.68e-03
##	1365	6.26e-03	-7.86e-03	-4.45e-03	6.00e-03	2.56e-03	7.09e-03	-1.53e-02
##	1366	1.13e-03	-2.05e-03	-2.09e-04	1.47e-03	1.41e-03	-2.58e-03	3.52e-04
##	1367	7.26e-03	9.52e-03	-2.11e-02	-6.04e-03	2.61e-03	-2.35e-04	-8.05e-03
##	1368	-1.13e-02	1.58e-02	-1.21e-02	1.03e-02	4.13e-03	1.78e-02	1.67e-02
##	1369	5.99e-03	4.94e-03	1.82e-03	7.18e-03	-1.06e-02	-7.25e-03	-1.34e-03

## 1370	3.33e-04	2.38e-04	3.98e-05	-7.81e-05	-2.14e-04	-1.81e-05	-5.99e-05
## 1371	1.62e-04	-1.81e-04	1.74e-05	-8.25e-05	-1.60e-04	-8.79e-05	5.34e-05
## 1372	-4.17e-03	-1.69e-02	5.86e-03	-7.28e-03	-7.93e-03	6.73e-03	1.28e-02
## 1373	-3.25e-03	-5.98e-03	-3.56e-04	-7.49e-04	5.96e-03	1.08e-03	7.31e-03
## 1374	6.29e-03	-5.98e-03	-3.02e-03	-6.55e-04	-7.64e-03	4.80e-03	-9.64e-03
## 1375	6.46e-04	2.15e-03	7.30e-04	-2.81e-03	-1.06e-03	-3.53e-03	-4.43e-03
## 1376	2.27e-04	4.09e-03	-1.66e-03	-3.69e-04	-5.45e-03	-1.87e-03	6.57e-03
## 1377	-3.97e-02	1.67e-02	-1.08e-02	5.05e-03	5.38e-03	1.78e-03	2.26e-02
## 1378	1.37e-03	-1.83e-03	-1.36e-04	-6.52e-04	-1.71e-03	2.22e-03	-2.40e-03
## 1379	-5.49e-03	1.74e-02	9.29e-03	-6.47e-03	-4.92e-03	2.60e-02	3.64e-02
## 1380	2.04e-02	1.69e-02	1.66e-02	2.99e-02	-2.01e-02	-2.15e-03	-2.24e-02
## 1381	-2.73e-04	-4.90e-03	-1.71e-03	5.59e-03	1.86e-03	-2.52e-03	7.34e-03
## 1382	1.51e-04	-9.08e-04	2.70e-04	-1.23e-03	-3.94e-04	2.76e-04	1.41e-03
## 1383	-3.97e-04	-2.79e-03	2.04e-04	-7.13e-05	2.55e-03	-6.49e-03	3.13e-03
## 1384	1.63e-02	-1.20e-02	-2.17e-03	-8.84e-03	-1.36e-02	-4.65e-03	-7.81e-03
## 1385	-9.77e-03	1.49e-02	-2.51e-02	1.86e-02	-8.29e-03	-4.38e-03	9.85e-03
## 1386	2.38e-04	5.29e-03	1.37e-04	-5.00e-04	5.27e-03	-3.31e-03	-1.16e-03
## 1387	6.54e-05	1.51e-02	-1.79e-02	-2.45e-02	1.77e-02	5.40e-03	-6.00e-03
## 1388	5.99e-04	8.13e-04	6.69e-05	-4.82e-04	-7.53e-04	1.00e-04	1.19e-04
## 1389	7.40e-03	-6.46e-03	-8.71e-04	1.56e-03	3.25e-03	-8.72e-03	-1.64e-03
## 1390	4.19e-03	-6.15e-03	-3.14e-03	6.24e-05	-8.35e-03	-2.67e-03	-1.51e-04
## 1391	-1.26e-02	-2.16e-02	1.82e-02	3.21e-02	-3.03e-02	-4.68e-04	4.62e-02
## 1392	1.84e-02	2.41e-02	2.12e-02	-3.12e-02	-2.89e-04	2.80e-03	4.24e-04
## 1393	5.78e-03	-1.89e-02	-1.47e-02	8.64e-03	2.79e-03	4.92e-03	1.47e-02
## 1394	2.63e-03	-1.23e-02	-8.01e-03	8.45e-03	2.73e-03	1.01e-02	-4.48e-03
## 1395	2.26e-03	-3.00e-03	5.24e-04	-2.44e-03	-2.50e-03	-3.59e-03	1.47e-04
## 1396	5.71e-03	4.79e-03	1.72e-03	7.11e-03	-1.04e-02	-6.11e-03	-1.24e-03
## 1397	-1.23e-02	8.55e-03	-1.95e-02	-7.16e-03	3.03e-03	-6.11e-03	-4.07e-03
## 1398	1.02e-02	2.01e-02	3.91e-03	-3.04e-02	4.38e-02	2.72e-03	-2.71e-02
## 1399	6.26e-03	1.52e-02	-7.60e-03	6.45e-03	4.98e-03	4.97e-04	-1.08e-02
## 1400	3.74e-04	-1.10e-03	-1.58e-04	9.59e-04	7.46e-04	-7.36e-04	-1.58e-03
## 1401	1.83e-02	1.23e-02	9.05e-03	-4.48e-03	-2.86e-03	2.22e-03	3.92e-03
## 1402	-1.15e-04	-5.11e-04	-5.30e-05	-1.23e-03	1.05e-03	-1.06e-03	6.37e-04
## 1403	-7.48e-03	8.09e-03	3.04e-03	1.19e-02	-1.55e-02	-1.35e-02	1.36e-02
## 1404	5.69e-04	-5.29e-03	-5.69e-03	-4.69e-03	5.79e-03	-3.70e-03	2.93e-04
## 1405	3.58e-03	-1.38e-02	-1.08e-02	-2.93e-03	-2.11e-02	3.97e-04	-1.78e-03
## 1406	-1.16e-03	5.78e-03	-1.23e-02	-4.46e-03	2.21e-03	-2.31e-03	5.85e-03
## 1407	1.18e-02	1.77e-02	3.43e-02	1.93e-02	-7.30e-03	7.68e-03	1.37e-02
## 1408	-1.24e-03	1.41e-02	1.38e-02	2.57e-02	-1.75e-02	-4.23e-03	-1.37e-02
## 1409	1.89e-03	-2.05e-03	3.67e-04	-4.17e-05	2.28e-03	1.48e-03	-9.41e-04
## 1410	-5.58e-03	1.13e-02	-7.92e-03	1.02e-02	1.86e-03	1.00e-02	-3.92e-03
## 1411	-2.77e-03	4.70e-03	-3.47e-03	6.04e-03	1.02e-03	-1.29e-03	7.58e-03
## 1412	-1.35e-03	-4.23e-03	-6.66e-04	-6.00e-04	-4.53e-03	1.88e-03	7.59e-03
## 1413	1.69e-03	-1.14e-02	2.73e-02	9.13e-03	-2.46e-03	-2.07e-03	-6.30e-03
## 1414	-1.46e-03	6.58e-03	-6.04e-03	3.35e-04	-1.09e-02	-7.88e-04	3.87e-04
## 1415	6.62e-05	-1.11e-03	-1.08e-05	2.51e-04	1.01e-03	-2.79e-03	-4.00e-04
## 1416	1.92e-03	-1.15e-02	-1.47e-02	-1.30e-02	1.16e-02	3.48e-03	-2.18e-03
## 1417	5.71e-03	-9.74e-03	-1.88e-02	-7.58e-03	3.92e-03	5.79e-04	6.66e-03
## 1418	-1.93e-04	2.12e-04	6.52e-05	-3.94e-05	2.68e-04	3.21e-04	-2.89e-05
## 1419	-6.95e-03	-1.05e-02	1.21e-02	1.80e-02	-1.20e-02	-5.02e-03	7.64e-03

## 1420	8.84e-06	-4.87e-05	1.24e-05	8.96e-05	-8.98e-05	9.36e-05	8.35e-06
## 1421	2.59e-02	1.28e-02	-6.97e-03	-2.47e-02	1.75e-02	7.11e-03	-1.17e-02
## 1422	-1.48e-04	1.75e-03	3.55e-03	-1.36e-03	1.26e-03	-1.67e-05	-6.88e-05
## 1423	-2.39e-02	9.91e-03	2.41e-02	1.36e-02	-4.64e-03	1.43e-02	1.50e-02
## 1424	5.38e-03	-1.66e-02	8.98e-03	-5.35e-03	-5.47e-03	1.85e-02	3.53e-02
## 1425	-5.21e-05	2.96e-04	1.79e-05	-1.19e-04	-2.54e-04	1.55e-04	-3.80e-04
## 1426	3.75e-03	-3.98e-03	-9.22e-04	2.63e-03	2.21e-03	-3.26e-03	-6.41e-03
## 1427	2.57e-03	-5.99e-03	-3.63e-03	-8.90e-03	8.43e-03	-1.66e-03	-1.00e-02
## 1428	2.89e-03	2.49e-03	-7.69e-04	1.84e-03	1.10e-03	2.52e-03	-2.40e-04
## 1429	2.00e-02	9.97e-03	-3.66e-03	-1.91e-02	1.48e-02	3.26e-03	-7.26e-03
## 1430	-3.74e-03	-1.15e-02	8.13e-03	-5.51e-03	-2.16e-03	-1.25e-02	8.36e-03
## 1431	1.22e-02	-8.13e-03	1.38e-02	-5.86e-03	4.09e-03	-2.86e-03	-3.32e-03
## 1432	-2.44e-03	8.90e-03	7.71e-03	-4.17e-03	-1.73e-03	-3.70e-03	6.71e-03
## 1433	-1.24e-02	8.60e-03	-4.89e-03	6.11e-03	2.97e-03	5.95e-03	-1.76e-02
## 1434	-7.45e-03	-7.00e-03	-2.59e-03	5.25e-03	2.14e-03	5.05e-03	-6.24e-04
## 1435	7.72e-03	1.21e-02	-2.62e-02	-8.72e-03	4.45e-03	1.48e-03	-1.15e-02
## 1436	2.73e-03	2.87e-03	5.48e-04	-2.60e-03	-2.46e-03	-6.17e-03	6.16e-05
## 1437	-2.34e-03	-1.12e-02	1.97e-02	-9.66e-03	7.28e-03	-6.99e-03	-2.67e-03
## 1438	-2.71e-03	-6.40e-03	-2.14e-03	-7.13e-04	-7.65e-03	1.69e-04	9.79e-03
## 1439	7.86e-03	1.07e-02	-5.24e-03	-2.38e-02	1.57e-02	-3.84e-03	-6.40e-03
## 1440	1.88e-03	6.02e-03	6.42e-04	1.21e-02	-1.22e-02	-1.64e-03	8.30e-03
## 1441	4.43e-03	1.86e-02	-1.36e-02	1.12e-02	3.00e-03	1.75e-02	-1.29e-02
## 1442	-1.72e-03	1.30e-02	-5.59e-04	2.00e-02	-3.11e-02	-1.47e-02	-2.83e-02
## 1443	1.24e-02	-1.57e-02	1.49e-03	-2.35e-02	3.62e-02	-1.14e-03	4.88e-03
## 1444	3.68e-03	3.97e-03	-1.01e-03	2.21e-03	1.98e-03	1.48e-03	-6.17e-04
## 1445	1.02e-02	-6.41e-03	1.78e-02	4.35e-03	-3.96e-04	-1.08e-02	-2.47e-03
## 1446	1.20e-02	6.03e-03	-1.16e-04	-5.99e-03	-6.32e-03	-6.89e-03	-1.93e-03
## 1447	8.28e-03	1.00e-02	-3.96e-03	6.40e-03	4.27e-03	6.83e-03	-2.31e-02
## 1448	3.57e-04	9.80e-03	2.19e-02	1.32e-02	-3.18e-03	1.63e-02	1.31e-02
## 1449	-1.27e-03	1.56e-02	-1.35e-02	1.20e-02	2.60e-03	1.26e-02	1.55e-02
## 1450	7.63e-03	4.36e-03	-5.51e-04	-3.16e-03	-4.90e-03	3.20e-03	-6.87e-04
## 1451	5.72e-03	-6.85e-03	-5.76e-03	-1.15e-02	1.13e-02	-8.20e-03	-6.68e-04
## 1452	-1.12e-02	1.01e-02	1.30e-02	1.94e-02	-1.34e-02	-5.17e-03	7.99e-03
## 1453	-1.65e-03	1.24e-02	-1.21e-02	-1.76e-02	1.50e-02	-3.59e-03	-1.52e-03
## 1454	-2.87e-02	-2.55e-02	3.87e-03	-6.58e-03	-1.38e-02	4.09e-02	6.90e-03
## 1455	-8.22e-03	-6.71e-03	-4.43e-03	8.15e-03	1.68e-03	-3.25e-03	1.04e-02
## 1456	-2.16e-03	-1.30e-02	1.09e-02	-5.58e-03	-2.71e-03	-2.96e-03	8.91e-03
## 1457	4.44e-03	1.39e-02	-1.00e-02	-2.26e-02	1.77e-02	3.39e-03	-3.99e-03
## 1458	3.12e-04	1.77e-03	-7.35e-04	-3.12e-03	3.05e-03	1.37e-03	2.00e-04
## 1459	2.73e-02	1.52e-02	9.17e-03	-5.15e-03	-3.93e-03	6.47e-04	-1.93e-02
## 1460	5.03e-03	8.61e-03	-8.83e-04	2.92e-03	3.82e-03	5.05e-03	-4.76e-03
## 1461	-1.02e-02	1.60e-02	-6.26e-03	-1.53e-02	-1.81e-02	-6.32e-03	1.86e-02
## 1462	4.54e-03	8.52e-03	-8.37e-04	-7.48e-03	-9.41e-03	-3.63e-03	-3.33e-03
## 1463	6.37e-03	-1.14e-02	-3.55e-03	7.19e-03	4.33e-03	4.54e-04	-2.36e-02
## 1464	-2.01e-03	5.59e-03	-4.52e-03	6.93e-03	9.10e-04	-1.35e-03	-1.99e-04
## 1465	1.62e-03	-1.91e-02	1.36e-02	-1.71e-02	-2.26e-03	-1.34e-02	7.62e-03
## 1466	6.37e-03	-5.59e-03	-8.48e-04	1.83e-03	2.74e-03	-4.33e-03	-1.49e-03
## 1467	-6.34e-03	1.41e-02	-1.55e-02	-2.25e-02	1.77e-02	4.64e-03	-5.95e-03
## 1468	9.28e-03	-1.40e-02	8.88e-03	1.06e-02	1.87e-02	4.74e-03	4.45e-03
## 1469	-7.51e-03	1.28e-02	1.19e-02	-1.01e-02	-7.49e-04	-8.56e-03	9.58e-03

## 1470	8.84e-03	1.14e-02	-9.44e-03	-2.37e-03	-1.74e-02	-8.58e-04	-3.38e-03
## 1471	-6.53e-03	-4.52e-03	9.29e-03	-3.28e-03	3.51e-03	-5.09e-03	1.42e-03
## 1472	5.66e-03	5.84e-03	-8.79e-04	1.49e-03	3.27e-03	-7.90e-03	-1.66e-03
## 1473	9.07e-05	-2.52e-02	1.56e-02	-2.04e-04	3.31e-02	1.59e-02	-2.35e-03
## 1474	-1.15e-02	-1.71e-02	1.76e-02	-1.75e-02	-8.25e-04	-1.02e-02	1.08e-02
## 1475	-5.61e-03	-1.07e-02	-6.44e-03	9.53e-03	2.62e-03	6.72e-03	1.47e-02
## 1476	-1.06e-02	4.64e-03	-1.68e-03	3.83e-03	2.14e-03	5.59e-03	9.61e-03
## 1477	-1.28e-03	-1.91e-03	2.48e-04	-9.54e-05	1.99e-03	-1.26e-03	-3.58e-03
## 1478	3.34e-03	-2.21e-02	4.60e-02	1.94e-02	-9.08e-03	1.80e-02	1.66e-02
## 1479	-2.89e-04	1.85e-04	1.06e-07	5.76e-05	2.12e-04	-1.19e-04	1.84e-05
## 1480	-7.31e-03	-5.61e-03	1.02e-02	-3.64e-03	3.84e-03	-5.99e-03	8.91e-03
## 1481	5.63e-03	-9.69e-03	-1.88e-02	-9.72e-03	4.24e-03	-5.04e-03	6.05e-03
## 1482	-2.50e-02	2.08e-02	5.33e-03	-5.42e-03	-8.67e-03	1.28e-02	1.30e-02
## 1483	-2.83e-03	-1.08e-02	-9.92e-03	1.32e-02	8.72e-04	-1.87e-03	-1.32e-03
## 1484	-6.21e-03	9.67e-03	-2.12e-03	2.56e-03	4.88e-03	-4.83e-03	-3.52e-03
## 1485	3.58e-03	-3.12e-03	5.71e-04	-2.44e-03	-2.97e-03	2.25e-06	-9.47e-04
## 1486	2.64e-03	-4.79e-03	9.29e-03	-3.59e-03	3.52e-03	9.62e-04	-8.08e-03
## 1487	7.44e-03	-6.27e-03	-7.95e-04	1.51e-03	3.17e-03	-8.60e-03	-1.79e-03
## 1488	2.74e-03	-1.26e-02	-2.48e-02	-1.14e-02	3.84e-03	-2.60e-03	9.29e-03
## 1489	3.38e-03	1.57e-02	-9.64e-03	7.88e-03	3.73e-03	2.66e-03	1.48e-02
## 1490	-3.71e-02	2.72e-02	-2.97e-03	2.48e-02	2.42e-02	4.85e-02	1.99e-03
## 1491	8.19e-03	-6.17e-03	-3.95e-03	-4.98e-04	-9.05e-03	2.14e-03	-1.74e-03
## 1492	1.21e-02	7.34e-03	-1.82e-03	2.04e-03	3.50e-03	-1.09e-02	-2.72e-03
## 1493	1.95e-03	-6.05e-03	-3.44e-03	-1.47e-03	-8.32e-03	4.12e-03	9.53e-03
## 1494	2.82e-02	-1.28e-02	-2.82e-02	-1.11e-02	4.48e-03	-3.03e-04	4.20e-03
## 1495	-1.69e-03	9.63e-03	1.59e-02	-8.40e-03	4.54e-03	3.76e-03	-3.13e-03
## 1496	-1.40e-03	-1.19e-02	-8.70e-03	9.27e-03	1.19e-03	1.08e-02	1.57e-02
## 1497	-1.55e-03	2.27e-03	1.68e-04	9.95e-04	1.84e-03	-4.17e-03	4.01e-04
## 1498	-3.08e-03	4.81e-03	-3.48e-03	-6.89e-03	7.04e-03	2.75e-03	-7.29e-03
## 1499	-8.79e-03	-1.50e-02	2.93e-02	2.13e-02	-7.06e-03	-1.12e-02	-3.44e-03
## 1500	-2.55e-02	-1.71e-02	-1.27e-02	8.87e-03	2.72e-03	6.03e-03	2.25e-02
## 1501	1.21e-02	-9.50e-03	-1.96e-02	-6.08e-03	3.12e-03	3.96e-03	5.66e-03
## 1502	-1.21e-03	2.52e-03	-1.92e-03	-2.68e-03	3.68e-03	1.17e-03	4.69e-03
## 1503	1.09e-03	-1.66e-03	1.88e-04	-1.68e-03	-1.16e-03	-2.55e-03	-5.85e-04
## 1504	1.71e-02	-1.52e-02	3.59e-02	-4.18e-03	-3.05e-02	-2.89e-04	1.34e-02
## 1505	1.79e-02	-1.49e-02	1.21e-02	-8.66e-03	-2.49e-03	-7.13e-03	-1.88e-02
## 1506	-1.75e-03	-5.34e-03	2.36e-03	5.45e-03	-7.89e-03	4.21e-04	7.06e-03
## 1507	-1.54e-03	2.31e-03	4.63e-05	1.95e-04	2.13e-03	-4.69e-03	-9.00e-04
## 1508	-1.52e-03	-1.98e-02	-1.22e-02	-1.38e-02	-2.57e-02	7.58e-04	-8.38e-03
## 1509	2.45e-02	1.72e-02	-3.69e-02	-8.40e-03	3.98e-03	2.84e-02	-2.26e-02
## 1510	9.84e-04	3.35e-03	-1.07e-03	-7.18e-03	6.10e-03	-7.36e-03	-1.40e-03
## 1511	3.52e-03	-6.46e-03	-2.42e-03	5.67e-03	1.56e-03	2.73e-03	-1.20e-02
## 1512	-2.63e-03	-1.90e-02	-2.03e-02	-3.39e-02	2.37e-02	6.32e-03	-1.15e-02
## 1513	-6.88e-03	9.81e-03	-1.04e-02	-1.16e-02	1.21e-02	-2.58e-03	4.48e-04
## 1514	8.20e-03	-5.46e-03	-9.28e-04	1.87e-03	2.69e-03	-7.73e-03	-1.28e-03
## 1515	-2.09e-02	1.78e-02	1.01e-02	-6.06e-03	-7.08e-03	1.97e-02	-2.00e-02
## 1516	1.54e-02	-7.53e-03	-3.63e-03	-1.63e-02	1.16e-02	-1.20e-02	-2.66e-03
## 1517	8.12e-04	1.00e-03	-1.42e-04	8.09e-04	5.10e-04	5.43e-04	-1.89e-03
## 1518	-6.05e-02	2.33e-02	1.20e-02	-1.96e-02	-6.96e-03	-1.55e-02	1.89e-02
## 1519	-1.39e-02	9.18e-03	-3.15e-03	3.31e-03	4.14e-03	-3.73e-03	-3.76e-03

##	1520	8.83e-03	-7.35e-03	-6.44e-03	9.39e-03	-4.75e-04	1.60e-03	-2.36e-03
##	1521	7.91e-03	-5.34e-03	3.56e-04	-4.89e-03	-5.07e-03	-5.65e-03	-7.15e-04
##	1522	1.79e-03	-1.92e-02	-1.41e-02	8.08e-03	6.18e-03	1.72e-02	1.66e-02
##	1523	1.09e-03	-3.97e-03	-1.29e-04	1.31e-04	3.54e-03	-1.05e-02	-2.35e-03
##	1524	-1.05e-03	-1.29e-02	-6.50e-03	6.70e-03	2.78e-03	2.92e-03	-5.23e-03
##	1525	-1.94e-04	2.36e-03	8.82e-04	3.17e-03	-4.12e-03	-3.63e-03	-8.74e-04
##	1526	-8.03e-03	-1.61e-02	4.14e-03	1.47e-02	1.98e-02	-7.10e-03	-1.50e-02
##	1527	1.34e-02	-5.77e-03	-1.54e-03	-2.95e-03	-6.60e-03	4.95e-03	-9.78e-03
##	1528	5.28e-03	4.29e-03	-8.66e-04	1.91e-03	2.16e-03	-2.92e-03	-1.05e-03
##	1529	2.24e-02	1.76e-02	1.10e-02	-8.84e-03	-3.41e-03	-8.16e-03	-2.06e-02
##	1530	4.37e-04	3.89e-03	-2.45e-04	2.91e-04	3.26e-03	-9.21e-03	-1.97e-03
##	1531	1.31e-02	1.02e-02	2.33e-02	-1.66e-02	9.63e-03	-4.00e-03	-2.11e-02
##	1532	-5.34e-03	-5.86e-03	-6.50e-04	-1.26e-04	5.69e-03	5.39e-04	-1.15e-03
##	1533	-2.29e-04	7.80e-04	1.00e-04	-4.41e-05	8.34e-04	-2.07e-05	1.05e-03
##	1534	-6.53e-04	-1.15e-02	9.17e-03	-5.58e-03	-2.90e-03	-8.31e-03	8.01e-03
##	1535	2.10e-03	-8.64e-03	1.68e-04	-8.06e-03	-8.83e-03	-6.72e-03	-2.34e-03
##	1536	-3.01e-03	5.56e-03	-4.30e-03	-5.12e-04	-8.89e-03	7.54e-03	9.57e-03
##	1537	2.28e-03	-3.51e-03	6.92e-04	-4.45e-03	-2.27e-03	-1.01e-02	-1.58e-03
##	1538	-5.70e-05	-1.18e-03	-2.07e-04	1.05e-03	7.42e-04	1.03e-03	3.40e-04
##	1539	2.34e-02	1.52e-02	1.29e-02	3.07e-02	-1.98e-02	4.15e-03	-1.99e-02
##	1540	-2.11e-03	8.17e-03	-6.74e-03	-1.57e-02	1.19e-02	6.76e-03	-3.35e-03
##	1541	-6.11e-03	6.51e-03	-5.48e-03	9.21e-03	1.36e-03	-8.49e-03	3.75e-04
##	1542	6.55e-04	2.28e-03	3.23e-04	-2.53e-03	-1.46e-03	-4.25e-03	-9.07e-04
##	1543	4.76e-03	2.40e-02	2.82e-02	2.43e-02	-2.56e-02	1.72e-02	-1.15e-03
##	1544	-9.96e-03	1.15e-02	-3.33e-03	-8.27e-03	-1.49e-02	8.11e-03	1.72e-02
##	1545	1.59e-02	-1.74e-02	7.46e-03	-4.39e-03	-6.83e-03	1.52e-02	7.90e-03
##	1546	-1.04e-02	2.19e-02	3.89e-02	-3.59e-02	1.48e-02	-5.86e-03	-1.37e-02
##	1547	-1.46e-03	3.25e-03	-2.98e-04	1.99e-03	2.39e-03	-3.96e-03	-4.56e-03
##	1548	3.67e-03	-4.88e-03	3.25e-04	-2.33e-03	-4.84e-03	-5.61e-03	-8.51e-03
##	1549	1.57e-03	-9.62e-03	-4.07e-03	-3.95e-03	-1.34e-02	5.85e-03	1.38e-02
##	1550	2.85e-03	3.91e-03	-1.05e-03	2.30e-03	2.01e-03	3.46e-03	-5.61e-04
##	1551	-2.28e-02	2.36e-02	2.44e-02	3.00e-02	-3.17e-02	1.82e-02	-3.62e-02
##	1552	-1.31e-03	1.37e-02	6.77e-03	-4.20e-03	-5.57e-03	-1.25e-02	-1.44e-02
##	1553	1.47e-02	9.98e-03	-3.01e-03	3.97e-03	3.92e-03	1.33e-03	-1.94e-02
##	1554	-1.27e-02	1.22e-02	1.26e-02	-8.75e-03	-1.13e-03	-5.46e-03	9.56e-03
##	1555	7.23e-03	-6.37e-03	-8.84e-04	1.62e-03	3.18e-03	-8.07e-03	-1.58e-03
##	1556	-1.90e-03	3.00e-03	7.93e-04	5.92e-03	-6.26e-03	1.09e-03	5.64e-03
##	1557	1.24e-02	-1.11e-02	9.09e-03	-3.85e-03	-2.35e-03	3.20e-03	5.30e-03
##	1558	-3.76e-04	-7.96e-03	2.21e-04	-7.70e-03	-8.16e-03	-6.37e-03	1.24e-02
##	1559	-4.02e-02	1.76e-02	4.18e-02	1.15e-02	-4.55e-03	-3.32e-03	2.09e-02
##	1560	2.04e-03	-7.63e-03	-1.48e-02	-6.20e-03	2.82e-03	-3.62e-03	6.15e-03
##	1561	-7.20e-03	-9.16e-03	-7.83e-03	9.29e-03	3.20e-04	1.08e-02	1.28e-02
##	1562	-6.12e-05	-8.45e-04	2.09e-04	-1.11e-04	1.02e-03	8.14e-05	-9.97e-05
##	1563	2.73e-02	-1.40e-02	-1.01e-02	-2.69e-02	1.89e-02	-2.37e-03	-1.34e-02
##	1564	3.61e-02	2.35e-02	4.60e-02	1.82e-02	-7.47e-03	2.51e-02	-2.35e-02
##	1565	-6.67e-03	-9.99e-03	-1.19e-03	-7.56e-03	-1.05e-02	-2.48e-03	-1.04e-03
##	1566	8.31e-05	-1.86e-04	4.70e-05	-1.23e-04	-1.48e-04	-3.28e-04	6.30e-05
##	1567	5.99e-03	4.98e-03	1.82e-03	7.24e-03	-1.07e-02	-7.28e-03	-1.31e-03
##	1568	2.17e-02	2.06e-02	-4.99e-02	-1.13e-02	3.14e-03	1.82e-02	8.33e-03
##	1569	7.38e-04	7.06e-03	-3.32e-03	-1.68e-03	-8.76e-03	1.30e-03	1.04e-02

## 1570	1.43e-03	-3.01e-03	1.19e-03	4.46e-03	-5.47e-03	-2.36e-03	5.50e-05
## 1571	1.79e-02	-2.33e-02	2.29e-02	-3.41e-02	-9.00e-04	-2.12e-02	-3.63e-02
## 1572	9.76e-05	-2.56e-04	5.73e-04	-2.26e-04	2.02e-04	3.31e-04	-1.35e-05
## 1573	-1.02e-02	1.85e-02	3.08e-03	1.22e-02	2.24e-02	3.01e-03	-2.14e-02
## 1574	-1.21e-02	2.04e-02	4.39e-03	-6.11e-03	-7.77e-03	-3.49e-03	1.25e-02
## 1575	1.07e-02	-1.14e-02	-2.10e-02	1.86e-02	-7.67e-03	-3.43e-04	-1.16e-02
## 1576	7.80e-03	-1.06e-02	2.41e-02	-1.53e-02	9.69e-03	-1.11e-02	-2.25e-02
## 1577	-4.69e-03	9.34e-03	-4.80e-03	4.18e-03	3.29e-03	2.68e-03	1.44e-02
## 1578	3.88e-05	-2.16e-03	-3.46e-04	-2.18e-04	-2.30e-03	9.99e-04	-2.97e-03
## 1579	7.34e-03	-1.33e-02	-3.80e-03	-1.13e-02	-1.57e-02	-1.61e-02	-2.58e-02
## 1580	-3.89e-03	-5.95e-03	1.32e-02	9.22e-03	-1.05e-03	3.12e-03	9.29e-03
## 1581	3.22e-03	4.28e-03	-1.89e-03	-6.03e-03	6.16e-03	1.13e-04	-7.15e-03
## 1582	3.73e-04	-1.06e-03	-3.08e-04	1.86e-04	-1.37e-03	-1.76e-03	2.77e-04
## 1583	-9.68e-05	-4.15e-04	-4.57e-06	1.17e-04	3.57e-04	-5.70e-05	4.65e-04
## 1584	-4.00e-03	-1.17e-02	2.52e-02	1.61e-02	-4.48e-03	-2.48e-03	-2.06e-03
## 1585	1.94e-02	-1.46e-02	3.56e-02	1.04e-02	-2.45e-03	-1.73e-03	-1.39e-02
## 1586	6.37e-04	3.15e-03	-3.00e-04	5.29e-04	2.53e-03	-6.50e-03	-1.42e-03
## 1587	4.87e-03	4.34e-03	-9.99e-04	2.11e-03	2.12e-03	-1.71e-03	-7.21e-04
## 1588	1.20e-02	2.15e-02	1.16e-02	7.35e-03	2.77e-02	-9.73e-03	-2.81e-02
## 1589	6.93e-03	4.59e-03	4.72e-04	-4.90e-03	-4.61e-03	-6.85e-03	-1.18e-03
## 1590	-1.38e-04	1.85e-03	-3.69e-04	-4.21e-03	3.59e-03	-2.75e-03	1.96e-03
## 1591	1.10e-02	-1.25e-02	-2.64e-02	-7.26e-03	2.99e-03	1.85e-03	-1.11e-02
## 1592	-1.88e-02	-1.89e-02	-1.82e-02	-3.99e-02	2.45e-02	-8.25e-03	2.32e-02
## 1593	3.41e-04	7.16e-03	-5.66e-03	-8.14e-03	9.77e-03	-7.54e-03	-8.87e-04
## 1594	1.60e-05	3.51e-04	-8.24e-05	-5.89e-04	6.08e-04	-4.77e-04	8.71e-05
## 1595	-2.64e-03	2.92e-03	9.62e-05	-1.80e-04	3.19e-03	5.53e-04	-2.88e-04
## 1596	-1.73e-04	-8.14e-03	-1.67e-02	-5.77e-03	2.52e-03	-1.66e-03	7.85e-03
## 1597	-5.15e-03	1.10e-02	-1.23e-02	-1.50e-02	1.44e-02	-2.66e-03	-2.18e-03
## 1598	1.23e-02	-1.46e-02	1.28e-02	-1.14e-02	-1.87e-03	-1.17e-02	-1.71e-02
## 1599	-3.05e-02	1.84e-02	1.06e-02	-1.21e-02	-5.20e-03	6.57e-03	4.34e-02
## 1600	-4.61e-03	3.57e-03	-2.42e-03	4.83e-04	-5.29e-03	-8.91e-04	1.07e-03
## 1601	1.88e-04	-1.04e-03	2.63e-04	-1.19e-03	-6.43e-04	-2.53e-03	-3.03e-04
## 1602	-4.53e-04	7.38e-04	2.09e-03	3.29e-04	-1.36e-03	-7.92e-04	1.37e-03
## 1603	-1.23e-02	-1.65e-02	-3.01e-02	2.45e-02	-1.10e-02	-7.14e-04	-1.23e-02
## 1604	3.09e-03	4.98e-03	-8.68e-04	2.32e-03	3.01e-03	-3.64e-03	-5.80e-04
## 1605	4.45e-03	8.23e-03	-6.99e-03	-1.01e-02	9.92e-03	-3.00e-03	-9.05e-04
## 1606	2.75e-03	-4.26e-03	-1.11e-03	1.41e-03	3.55e-03	-2.70e-04	-1.56e-03
## 1607	-5.43e-03	2.90e-03	1.68e-03	2.93e-03	-4.43e-03	2.00e-03	4.67e-03
## 1608	5.40e-02	-2.47e-02	1.74e-02	-1.07e-03	3.78e-02	-1.85e-03	-1.27e-02
## 1609	2.16e-03	2.97e-03	-8.72e-04	2.08e-03	1.50e-03	4.77e-03	-4.71e-04
## 1610	2.39e-04	-6.08e-04	3.51e-04	6.88e-04	-8.68e-04	-3.60e-04	-1.19e-03
## 1611	2.37e-03	-1.64e-03	-9.65e-04	-2.50e-03	2.63e-03	2.15e-03	1.44e-04
## 1612	-1.53e-07	-4.48e-04	-2.43e-05	1.61e-04	3.96e-04	-6.34e-04	-1.49e-04
## 1613	9.05e-04	6.55e-03	-2.38e-03	4.59e-03	2.04e-03	5.10e-03	-1.40e-02
## 1614	-1.57e-03	1.27e-02	-2.67e-02	-1.26e-02	4.81e-03	-7.70e-03	-1.08e-02
## 1615	-1.79e-03	-3.12e-03	9.30e-04	-4.09e-03	-1.21e-03	-4.01e-04	4.44e-03
## 1616	-2.02e-03	-9.44e-03	-5.33e-04	-9.38e-03	-1.05e-02	-1.83e-02	1.47e-02
## 1617	1.51e-02	1.61e-02	1.45e-02	-1.33e-02	-1.35e-03	-9.12e-03	3.18e-03
## 1618	2.16e-04	-4.71e-04	-1.77e-04	-7.37e-04	7.38e-04	4.26e-04	-2.16e-05
## 1619	-8.82e-03	-8.78e-03	-7.06e-03	1.12e-02	2.47e-03	-9.37e-03	-2.49e-04

## 1620	8.95e-03	2.15e-02	2.48e-02	2.57e-02	-2.56e-02	7.95e-03	2.37e-03
## 1621	1.37e-03	1.41e-02	1.45e-02	2.78e-02	-1.77e-02	5.33e-03	-1.66e-02
## 1622	4.40e-03	6.22e-03	-1.31e-03	3.44e-03	2.39e-03	1.02e-04	-1.16e-02
## 1623	-1.93e-02	1.69e-02	-1.30e-02	6.93e-03	4.56e-03	6.84e-03	1.97e-02
## 1624	2.30e-04	-1.78e-02	3.11e-02	-2.40e-02	1.23e-02	4.66e-03	-9.30e-03
## 1625	1.30e-03	-3.77e-03	1.95e-03	4.00e-03	-5.74e-03	-7.65e-04	-8.92e-04
## 1626	1.56e-02	1.66e-02	2.73e-02	-1.88e-02	9.66e-03	2.95e-03	-1.35e-02
## 1627	-1.09e-02	1.34e-02	-2.72e-02	2.09e-02	-9.89e-03	4.81e-03	8.21e-03
## 1628	2.68e-03	-2.01e-02	1.87e-02	-2.33e-02	-2.77e-03	6.96e-03	5.47e-03
## 1629	-9.60e-03	-1.17e-02	-3.15e-03	2.95e-03	4.29e-03	-1.09e-02	-4.29e-03
## 1630	-2.03e-04	4.31e-04	-7.97e-05	-2.03e-05	-4.34e-04	3.14e-04	8.32e-04
## 1631	1.01e-02	-1.47e-02	-4.85e-03	6.24e-03	6.28e-03	-9.54e-03	-1.09e-02
## 1632	1.36e-03	-1.48e-03	-5.03e-04	1.49e-03	7.29e-04	1.77e-03	-2.23e-03
## 1633	-5.19e-03	1.86e-03	-8.82e-04	2.22e-03	7.46e-04	5.40e-03	4.32e-03
## 1634	-5.39e-03	-3.72e-03	-1.98e-03	3.49e-04	-4.49e-03	-2.49e-03	1.51e-03
## 1635	1.93e-02	-1.81e-02	-4.77e-02	-1.49e-02	4.47e-03	3.86e-03	8.77e-03
## 1636	3.00e-03	-3.92e-03	7.56e-04	-3.55e-03	-3.24e-03	-6.84e-03	2.35e-04
## 1637	-6.56e-03	-3.95e-03	1.91e-03	3.62e-03	-5.54e-03	1.88e-03	6.39e-03
## 1638	4.71e-03	-3.94e-03	-1.89e-03	-6.87e-03	5.80e-03	3.08e-03	-4.40e-04
## 1639	5.53e-04	1.14e-02	-1.09e-02	-1.86e-02	1.30e-02	8.99e-03	1.43e-02
## 1640	-2.83e-02	1.61e-02	1.52e-02	-1.59e-02	-2.38e-03	-1.92e-02	1.27e-02
## 1641	1.80e-02	1.64e-02	-3.01e-02	-1.93e-02	7.31e-03	-9.48e-03	4.92e-03
## 1642	-3.59e-04	1.96e-03	5.71e-06	3.98e-04	1.99e-03	-2.37e-03	2.58e-03
## 1643	3.05e-03	-1.43e-02	7.19e-03	1.12e-02	1.79e-02	3.68e-03	-1.61e-02
## 1644	-1.02e-02	8.62e-03	2.04e-02	1.71e-03	-1.83e-02	7.07e-03	9.25e-04
## 1645	2.94e-03	-7.57e-03	-2.48e-03	3.99e-03	2.47e-03	8.01e-03	-2.63e-03
## 1646	1.07e-02	1.02e-02	8.04e-03	-3.85e-03	-1.99e-03	-4.16e-03	5.18e-03
## 1647	9.65e-03	-9.68e-03	-2.14e-02	-5.99e-03	2.41e-03	-1.47e-04	-7.99e-03
## 1648	-4.68e-03	8.36e-03	-5.97e-03	-1.68e-02	1.27e-02	-2.38e-03	1.30e-02
## 1649	1.15e-03	-1.33e-03	5.13e-04	1.94e-03	-2.42e-03	-2.62e-03	-6.30e-04
## 1650	2.62e-03	3.58e-03	9.00e-04	-3.85e-03	-3.03e-03	-8.97e-03	-2.12e-04
## 1651	1.42e-02	2.36e-02	1.24e-03	2.17e-02	2.37e-02	1.94e-02	5.98e-03
## 1652	-1.67e-03	-6.51e-03	-5.26e-03	7.30e-03	7.65e-04	5.22e-03	-4.28e-04
## 1653	1.04e-02	6.18e-03	-3.16e-03	4.67e-03	2.26e-03	6.67e-03	-1.13e-02
## 1654	-1.27e-02	-2.20e-02	1.40e-02	2.23e-03	3.25e-02	-4.40e-03	4.49e-03
## 1655	2.09e-03	-2.33e-03	1.62e-04	6.41e-05	2.64e-03	-2.43e-04	2.85e-03
## 1656	4.65e-03	3.52e-03	-2.54e-03	-5.39e-03	5.20e-03	6.91e-03	-5.83e-03
## 1657	7.08e-03	-1.13e-02	1.68e-02	-7.78e-03	4.33e-03	-5.40e-03	-1.99e-03
## 1658	2.05e-02	-1.33e-02	9.70e-03	-4.70e-03	-3.27e-03	1.09e-03	-1.58e-02
## 1659	1.02e-02	-1.70e-02	2.27e-02	2.33e-02	-1.89e-02	-7.61e-03	4.03e-03
## 1660	1.47e-02	1.92e-02	1.75e-02	-2.03e-02	-3.43e-04	-6.55e-03	2.59e-03
## 1661	-2.24e-02	-2.00e-02	-1.74e-02	9.51e-03	3.04e-03	-8.46e-05	-6.21e-03
## 1662	-1.17e-03	-2.95e-03	2.74e-04	1.10e-03	2.25e-03	-6.55e-03	5.21e-04
## 1663	8.67e-03	6.76e-03	-1.87e-03	3.36e-03	3.53e-03	-1.01e-02	-1.14e-02
## 1664	2.16e-02	-9.32e-03	-7.50e-03	1.05e-02	9.48e-04	8.16e-03	-5.73e-03
## 1665	-1.55e-02	-1.91e-02	-1.65e-02	9.33e-03	3.08e-03	-4.81e-03	-8.13e-03
## 1666	2.64e-03	-1.63e-02	-5.42e-02	-3.09e-02	5.02e-02	1.20e-02	1.24e-02
## 1667	1.66e-03	2.24e-03	-1.11e-03	2.30e-04	-2.96e-03	-1.72e-03	3.35e-03
## 1668	7.27e-04	-6.18e-03	-3.32e-04	-3.90e-04	6.31e-03	-3.24e-03	7.09e-03
## 1669	-6.56e-02	1.90e-02	2.13e-02	2.98e-02	-2.54e-02	-5.54e-03	1.50e-02

## 1670	6.01e-04	-2.61e-03	3.76e-04	-1.67e-03	-2.04e-03	-3.52e-03	-3.29e-03
## 1671	1.75e-02	1.73e-02	1.28e-02	-1.19e-02	-2.73e-03	-1.05e-02	-2.03e-02
## 1672	-2.78e-03	-1.75e-02	-1.38e-02	8.00e-03	4.76e-03	5.49e-04	-8.97e-03
## 1673	6.04e-04	4.11e-03	8.81e-04	-3.71e-03	-3.06e-03	-1.14e-02	-5.76e-03
## 1674	2.77e-03	-3.61e-03	7.40e-03	-2.83e-03	2.32e-03	-2.38e-03	-1.16e-04
## 1675	-1.21e-02	1.17e-02	3.90e-02	2.29e-02	-3.63e-02	-7.59e-03	-5.88e-03
## 1676	2.19e-03	2.02e-03	-4.49e-04	-5.55e-04	-2.19e-03	4.23e-03	-3.12e-03
## 1677	6.33e-05	1.87e-03	1.02e-03	2.06e-03	-3.05e-03	-4.19e-03	2.02e-03
## 1678	-2.92e-04	-4.83e-04	3.46e-04	4.63e-04	-7.08e-04	1.13e-04	7.51e-04
## 1679	1.46e-05	2.05e-04	5.35e-05	-1.42e-04	-1.54e-04	-3.14e-04	5.80e-05
## 1680	-8.60e-03	-9.37e-03	-5.54e-04	1.55e-02	-1.89e-02	9.65e-03	-1.37e-02
## 1681	-2.92e-02	1.55e-02	3.02e-02	-2.39e-02	1.10e-02	2.57e-03	2.19e-02
## 1682	-3.37e-02	2.43e-02	5.08e-03	1.63e-02	2.91e-02	-6.23e-03	4.66e-02
## 1683	4.11e-03	5.03e-03	2.35e-04	-4.30e-03	-4.60e-03	-7.75e-03	-7.83e-03
## 1684	-9.18e-05	-1.41e-04	-5.60e-06	1.07e-04	9.57e-05	7.98e-05	4.38e-05
## 1685	1.97e-02	1.19e-02	-2.71e-03	-1.00e-02	-1.24e-02	-2.33e-03	1.15e-02
## 1686	9.22e-04	5.33e-03	-4.13e-03	5.15e-04	-7.83e-03	2.24e-03	9.27e-04
## 1687	7.61e-04	-2.86e-03	-2.98e-04	6.24e-04	2.44e-03	-5.23e-03	-1.35e-03
## 1688	-1.54e-02	7.38e-03	-2.97e-03	-4.11e-03	-9.22e-03	1.03e-03	1.59e-02
## 1689	4.05e-04	-1.82e-03	1.27e-03	1.66e-03	-2.45e-03	3.16e-03	-5.24e-04
## 1690	8.97e-03	1.69e-02	9.07e-03	-4.66e-03	-5.28e-03	2.43e-02	-2.11e-02
## 1691	1.61e-03	3.10e-03	-5.88e-04	-8.33e-04	-3.61e-03	1.99e-03	-5.23e-03
## 1692	5.39e-03	-9.76e-03	8.46e-03	-3.88e-03	-1.47e-03	-1.35e-03	5.91e-03
## 1693	-3.17e-03	5.78e-03	-1.32e-03	3.86e-04	5.17e-03	-1.57e-03	-1.27e-03
## 1694	-2.64e-03	1.19e-03	-4.93e-04	1.39e-05	-1.55e-03	-6.71e-04	7.73e-04
## 1695	1.65e-03	-2.95e-03	-7.94e-04	2.28e-03	1.46e-03	3.75e-03	1.61e-04
## 1696	5.75e-04	-1.27e-03	1.19e-04	-1.18e-03	-8.71e-04	-8.06e-04	-4.48e-04
## 1697	-1.07e-02	2.63e-02	1.78e-02	-3.20e-03	3.61e-02	1.07e-02	3.40e-03
## 1698	-2.90e-02	1.26e-02	1.55e-02	2.27e-02	-1.69e-02	-2.70e-03	1.10e-02
## 1699	-1.84e-03	1.04e-02	-4.79e-03	3.36e-03	3.74e-03	-6.67e-03	1.48e-02
## 1700	-7.64e-03	-8.43e-03	3.38e-03	-1.32e-02	1.98e-02	-6.62e-03	8.07e-03
## 1701	-2.41e-03	-7.95e-03	1.45e-02	-7.71e-03	4.41e-03	4.73e-03	-9.30e-04
## 1702	-2.10e-03	1.96e-03	-1.20e-03	2.79e-03	5.81e-04	-1.56e-03	2.96e-04
## 1703	-2.29e-02	-1.90e-02	4.20e-02	1.23e-02	-5.39e-03	7.35e-04	1.76e-02
## 1704	-3.38e-02	-1.82e-02	5.08e-03	-6.37e-03	-6.19e-03	-8.25e-03	1.83e-02
## 1705	-2.41e-03	7.96e-03	2.19e-02	8.71e-03	-1.48e-04	-7.60e-03	-1.55e-02
## 1706	8.35e-03	-1.73e-02	-1.13e-02	7.29e-03	3.27e-03	6.21e-03	-1.28e-02
## 1707	-8.59e-05	1.46e-04	9.46e-05	1.67e-04	-2.38e-04	-3.26e-04	1.83e-04
## 1708	-4.22e-03	-8.91e-03	-4.52e-03	6.31e-03	3.45e-03	-2.44e-03	-1.54e-02
## 1709	9.75e-04	2.67e-03	-1.94e-03	-3.84e-03	3.55e-03	2.89e-03	-4.35e-03
## 1710	-1.63e-04	-8.58e-04	4.64e-04	-1.20e-03	-2.59e-04	-7.17e-04	1.36e-03
## 1711	3.37e-04	1.42e-03	-2.39e-04	5.57e-04	1.07e-03	-1.08e-03	-5.38e-04
## 1712	1.16e-03	1.31e-02	-6.39e-03	5.31e-03	3.76e-03	-6.44e-03	-7.85e-03
## 1713	1.75e-03	-3.22e-03	1.41e-03	3.86e-03	-5.59e-03	-9.04e-03	-1.55e-03
## 1714	2.29e-03	-2.65e-03	-2.40e-04	1.45e-03	1.61e-03	-3.46e-03	-2.45e-06
## 1715	3.21e-02	2.22e-02	-1.31e-02	7.73e-03	5.47e-03	3.00e-02	1.23e-02
## 1716	6.92e-03	-1.93e-02	4.55e-02	1.43e-02	-5.15e-03	-3.22e-03	1.49e-02
## 1717	5.38e-03	1.53e-02	1.02e-02	-7.42e-03	-4.43e-03	-9.47e-04	-1.87e-02
## 1718	7.10e-04	-8.47e-03	-5.93e-03	8.83e-03	2.16e-03	6.45e-03	1.26e-02
## 1719	1.72e-04	-2.46e-03	8.16e-04	-2.24e-03	-1.72e-03	-6.31e-03	5.71e-04

## 1720	5.15e-05	-2.17e-02	-2.35e-02	-4.43e-02	2.91e-02	7.39e-03	-1.51e-02
## 1721	-2.53e-03	-2.24e-02	4.49e-02	2.14e-02	-9.72e-03	9.74e-03	-1.75e-02
## 1722	-8.55e-03	8.55e-03	-7.17e-03	-1.58e-02	1.24e-02	3.16e-03	-1.60e-02
## 1723	1.07e-02	9.27e-03	-4.40e-03	6.47e-03	3.01e-03	7.92e-03	-1.94e-02
## 1724	9.37e-05	-2.39e-04	2.14e-06	2.54e-04	1.31e-04	-4.82e-05	-3.67e-06
## 1725	-1.63e-03	2.28e-03	-2.19e-03	-2.40e-03	2.90e-03	-6.07e-04	4.65e-04
## 1726	-4.74e-03	-1.52e-02	8.01e-03	-5.33e-03	-5.57e-03	1.10e-02	3.50e-02
## 1727	1.54e-02	1.14e-02	-2.48e-02	-6.75e-03	3.53e-03	3.99e-03	-1.17e-02
## 1728	-1.17e-02	8.03e-03	2.00e-02	2.37e-03	-1.62e-02	-2.91e-03	2.53e-05
## 1729	5.89e-03	5.65e-03	-7.52e-04	1.36e-03	3.20e-03	-8.38e-03	-1.93e-03
## 1730	4.85e-03	-1.47e-02	1.01e-02	-6.31e-03	-4.24e-03	9.52e-03	-1.84e-02
## 1731	-3.76e-04	-2.37e-03	5.55e-04	-5.12e-04	2.80e-03	3.78e-03	-7.23e-04
## 1732	-3.15e-02	2.65e-02	3.35e-03	-6.37e-03	-1.34e-02	3.64e-02	7.62e-03
## 1733	-3.96e-03	-1.29e-02	-7.90e-03	-2.54e-02	1.70e-02	-9.43e-03	-4.85e-03
## 1734	-7.39e-04	-3.37e-03	-3.35e-03	-3.69e-03	3.86e-03	-1.51e-03	7.51e-04
## 1735	1.89e-02	-1.28e-02	9.07e-03	-3.77e-03	-3.27e-03	2.99e-03	-1.47e-02
## 1736	6.51e-03	3.05e-03	-5.57e-04	-1.48e-03	-3.39e-03	3.76e-03	-3.68e-04
## 1737	2.26e-02	1.35e-02	-8.79e-03	8.17e-03	2.78e-03	-2.59e-03	-3.02e-02
## 1738	-3.69e-03	1.07e-02	8.93e-03	-4.65e-03	-3.33e-03	-5.63e-04	-1.13e-02
## 1739	2.64e-04	-1.33e-03	7.02e-04	1.57e-03	-2.21e-03	-2.61e-03	1.51e-03
## 1740	1.22e-02	-8.54e-03	-8.77e-03	-1.29e-02	1.26e-02	-2.69e-03	1.12e-02
## 1741	-5.16e-04	9.30e-04	-2.41e-05	2.28e-04	8.22e-04	-1.20e-03	-3.30e-04
## 1742	2.93e-04	-6.72e-04	-4.14e-04	1.07e-03	1.59e-04	-9.01e-04	1.53e-04
## 1743	-5.39e-03	1.01e-02	7.04e-03	8.76e-03	1.48e-02	5.25e-03	5.92e-03
## 1744	2.55e-04	1.56e-03	5.56e-04	2.19e-03	-2.70e-03	-1.80e-03	-6.63e-04
## 1745	9.57e-03	1.13e-02	2.35e-02	1.64e-02	-6.19e-03	4.90e-03	-6.44e-03
## 1746	-8.10e-03	-6.18e-03	-2.96e-03	6.68e-03	1.50e-03	-2.28e-03	1.05e-02
## 1747	1.60e-03	-1.37e-02	9.23e-03	-6.84e-03	-3.08e-03	-9.20e-03	7.52e-03
## 1748	-3.72e-03	3.88e-03	-1.58e-03	-6.79e-03	6.22e-03	-2.41e-03	-6.56e-05
## 1749	-3.50e-04	-6.29e-04	1.39e-03	-4.48e-04	5.17e-04	-7.53e-04	2.63e-04
## 1750	7.97e-04	1.41e-03	-6.31e-04	1.70e-03	5.40e-04	1.12e-03	-2.89e-04
## 1751	7.66e-03	-8.67e-03	-2.35e-03	3.17e-03	3.33e-03	5.62e-04	-4.82e-03
## 1752	1.66e-03	-5.35e-03	1.38e-02	6.49e-03	-1.05e-03	2.02e-03	-1.98e-03
## 1753	-4.74e-03	2.75e-03	-6.30e-04	-6.72e-04	-3.09e-03	-1.96e-03	5.59e-03
## 1754	1.18e-03	3.11e-03	5.43e-04	-3.75e-03	-1.92e-03	-7.61e-03	-1.40e-03
## 1755	3.50e-03	4.06e-03	-9.08e-04	2.04e-03	2.15e-03	1.02e-03	-9.58e-04
## 1756	-2.67e-03	3.14e-03	-8.82e-04	-7.40e-04	-4.07e-03	1.47e-03	-5.12e-03
## 1757	1.20e-04	7.34e-04	-2.44e-04	8.06e-04	4.20e-04	9.04e-04	-9.65e-04
## 1758	5.37e-03	1.41e-02	-1.01e-02	-5.50e-03	-1.88e-02	-5.45e-04	-4.62e-03
## 1759	-5.37e-03	-1.34e-02	-5.15e-03	3.63e-03	4.26e-03	-1.21e-02	-5.40e-03
## 1760	1.10e-03	-2.51e-03	-2.16e-04	1.75e-04	2.81e-03	-1.21e-03	3.47e-03
## 1761	6.80e-03	-6.79e-03	-7.78e-03	-7.69e-03	8.56e-03	-6.44e-03	-8.95e-04
## 1762	4.15e-03	-3.66e-03	8.13e-05	-2.41e-03	-3.37e-03	-6.09e-04	1.89e-04
## 1763	3.73e-04	-6.16e-04	-5.21e-04	-5.99e-04	8.42e-04	-1.02e-03	1.31e-04
## 1764	-2.01e-03	-2.21e-03	-8.96e-04	2.43e-03	5.07e-04	3.46e-03	-8.44e-05
## 1765	1.90e-03	6.33e-03	-8.87e-03	-6.40e-03	6.19e-03	1.21e-03	-1.09e-03
## 1766	-2.23e-02	1.63e-02	-3.31e-02	-2.30e-02	7.98e-03	-7.65e-03	1.00e-02
## 1767	6.77e-03	-9.96e-03	-2.09e-02	-8.15e-03	3.52e-03	-5.35e-03	-8.41e-03
## 1768	1.82e-02	-1.28e-02	7.88e-03	-4.42e-03	-4.48e-03	-3.17e-03	-1.36e-02
## 1769	-1.47e-03	2.20e-03	5.98e-05	1.61e-04	2.03e-03	-4.93e-03	-8.58e-04

## 1770	5.19e-03	1.00e-02	-4.61e-04	-1.06e-02	-1.07e-02	-8.93e-03	-4.96e-03
## 1771	-3.58e-03	4.47e-03	1.09e-02	7.55e-03	-1.27e-03	-4.77e-03	7.87e-05
## 1772	3.13e-04	1.07e-03	2.33e-03	-8.36e-04	1.09e-03	1.97e-03	-1.36e-03
## 1773	3.74e-03	-9.05e-03	-3.90e-03	5.82e-03	2.07e-03	3.96e-03	-1.69e-02
## 1774	2.62e-04	-2.73e-03	1.91e-04	-2.23e-05	2.55e-03	-6.37e-03	3.01e-03
## 1775	1.52e-02	-1.66e-02	-1.20e-02	6.99e-03	7.16e-03	1.25e-02	1.61e-02
## 1776	-2.95e-02	3.03e-02	-1.16e-02	-5.03e-02	5.91e-02	3.59e-02	-1.82e-03
## 1777	-3.69e-03	1.01e-02	1.79e-02	-8.57e-03	6.47e-03	-7.27e-03	-2.73e-03
## 1778	7.95e-03	-1.30e-02	3.07e-02	1.19e-02	-4.55e-03	7.40e-03	-2.71e-02
## 1779	1.84e-02	-1.27e-02	3.18e-03	-1.88e-02	3.07e-02	1.89e-03	-1.66e-02
## 1780	-2.97e-02	2.66e-02	3.91e-03	-7.41e-03	-1.32e-02	2.89e-02	6.37e-03
## 1781	-4.56e-03	-3.11e-03	1.75e-04	-2.81e-04	3.34e-03	2.30e-03	4.48e-03
## 1782	-8.64e-03	2.29e-02	1.52e-02	-1.89e-02	-2.90e-03	-2.07e-02	-2.75e-02
## 1783	8.08e-03	-1.22e-02	2.43e-02	-1.29e-02	8.81e-03	-1.33e-02	-4.57e-03
## 1784	-3.07e-04	5.14e-04	2.48e-04	7.18e-04	-8.88e-04	-6.24e-04	-1.67e-04
## 1785	-9.63e-03	5.87e-03	-6.14e-03	-9.42e-03	8.55e-03	1.40e-02	1.16e-02
## 1786	1.38e-02	1.53e-02	1.07e-02	-8.19e-03	-2.78e-03	-7.77e-04	-1.73e-02
## 1787	1.32e-03	-3.00e-03	-1.80e-03	-4.49e-03	4.47e-03	2.01e-03	-3.30e-04
## 1788	1.14e-02	5.86e-03	-1.99e-03	-1.84e-03	-6.64e-03	1.51e-03	-1.12e-02
## 1789	-2.92e-04	-2.89e-03	2.18e-04	-7.97e-05	2.66e-03	-6.34e-03	3.15e-03
## 1790	-3.73e-03	4.52e-03	-2.06e-04	-4.40e-04	4.50e-03	-5.48e-04	6.01e-03
## 1791	5.53e-03	1.46e-02	1.54e-02	2.49e-02	-1.66e-02	-6.66e-03	6.82e-03
## 1792	2.45e-02	-1.19e-02	-8.68e-03	-2.17e-02	1.60e-02	2.95e-03	-2.81e-02
## 1793	-6.81e-05	-3.65e-04	-8.60e-07	2.57e-04	2.62e-04	-2.47e-04	8.91e-05
## 1794	1.89e-03	2.86e-03	-8.43e-04	2.28e-03	1.48e-03	-3.20e-05	-4.14e-03
## 1795	-1.13e-02	1.01e-02	8.90e-03	-6.41e-03	-2.50e-03	-8.13e-03	9.14e-03
## 1796	-2.45e-03	1.18e-02	-4.73e-03	3.52e-03	4.17e-03	-1.74e-02	-6.06e-03
## 1797	-3.05e-02	1.46e-02	-1.20e-02	8.70e-03	3.00e-03	1.06e-02	2.07e-02
## 1798	-5.63e-03	5.52e-03	4.87e-04	-4.91e-03	-4.26e-03	-1.27e-02	9.52e-03
## 1799	8.62e-04	-3.61e-03	-8.13e-04	2.95e-03	2.06e-03	2.31e-04	5.80e-03
## 1800	3.59e-03	-2.93e-03	-1.23e-04	-1.67e-03	-2.88e-03	3.46e-03	-3.49e-05
## 1801	2.75e-03	-4.51e-03	5.07e-04	-5.08e-04	4.73e-03	-1.82e-03	5.75e-03
## 1802	1.65e-04	7.05e-04	5.58e-05	-3.25e-04	-5.80e-04	-4.85e-04	-8.76e-04
## 1803	1.69e-02	1.46e-02	8.90e-03	-5.03e-03	-3.49e-03	-2.16e-03	-1.63e-02
## 1804	7.25e-03	1.52e-02	1.41e-02	-1.02e-02	-2.51e-03	-8.06e-03	6.40e-03
## 1805	1.26e-02	-1.32e-02	-2.23e-02	1.75e-02	-7.53e-03	-3.54e-03	5.33e-03
## 1806	-1.36e-04	2.87e-04	1.20e-04	-2.85e-05	3.85e-04	4.31e-05	-7.76e-05
## 1807	-1.68e-02	-1.95e-02	3.71e-02	1.81e-02	-8.35e-03	8.95e-03	-9.89e-03
## 1808	-1.98e-03	1.87e-02	-1.69e-02	-3.06e-02	2.35e-02	-7.55e-03	1.99e-02
## 1809	2.72e-02	1.48e-02	-4.12e-03	4.57e-03	5.09e-03	6.01e-03	-1.46e-02
## 1810	-3.26e-04	1.53e-03	5.04e-04	-1.39e-03	-1.12e-03	-3.45e-03	3.80e-04
## 1811	1.08e-03	3.12e-03	1.34e-03	3.59e-03	-5.18e-03	-8.35e-03	-1.63e-03
## 1812	5.88e-03	5.68e-03	-7.66e-04	1.37e-03	3.21e-03	-8.41e-03	-1.90e-03
## 1813	-1.10e-02	5.17e-03	1.01e-02	-3.42e-03	4.15e-03	-7.28e-03	1.39e-03
## 1814	-1.35e-02	6.78e-03	-5.25e-03	-7.03e-04	-1.10e-02	5.52e-03	1.91e-03
## 1815	1.28e-04	1.60e-04	9.12e-06	2.15e-05	1.49e-04	-9.01e-05	-3.16e-04
## 1816	-1.04e-02	-1.18e-02	-6.18e-03	-2.30e-02	1.58e-02	-8.56e-03	-2.61e-03
## 1817	2.26e-02	-1.44e-02	-2.63e-02	1.96e-02	-9.13e-03	-4.85e-03	4.21e-03
## 1818	8.91e-03	1.64e-02	7.14e-03	-3.06e-02	3.85e-02	-5.81e-03	3.18e-03
## 1819	1.36e-02	-1.75e-02	1.34e-02	-9.53e-03	-3.99e-03	-3.63e-03	-1.97e-02

## 1820	8.88e-04	-3.99e-03	-1.52e-04	1.39e-04	3.53e-03	-1.09e-02	-2.21e-03
## 1821	2.88e-03	-9.80e-03	-6.16e-03	7.04e-03	2.42e-03	5.90e-03	-1.89e-02
## 1822	-6.74e-03	8.86e-03	-1.25e-02	-1.07e-02	9.39e-03	5.07e-03	1.11e-04
## 1823	9.05e-03	-8.84e-03	-4.17e-03	-2.78e-03	-1.14e-02	7.59e-03	1.37e-02
## 1824	8.89e-04	2.61e-03	-8.25e-04	2.29e-03	1.44e-03	2.98e-03	-4.00e-03
## 1825	-2.42e-02	1.95e-02	-1.67e-02	8.72e-03	3.72e-03	-1.58e-03	-8.23e-03
## 1826	4.36e-05	-5.76e-05	-2.90e-05	-1.12e-04	1.12e-04	8.50e-06	-2.06e-05
## 1827	1.63e-02	-8.36e-03	2.09e-02	-1.40e-02	8.15e-03	2.87e-03	-1.99e-02
## 1828	1.51e-02	-1.82e-02	-3.62e-02	2.13e-02	-1.32e-02	-3.70e-02	-2.89e-02
## 1829	-2.40e-03	8.82e-03	-1.65e-03	2.44e-03	4.43e-03	-6.92e-03	-4.39e-03
## 1830	2.58e-02	-1.77e-02	-4.96e-02	-1.05e-02	2.56e-03	2.06e-02	8.73e-03
## 1831	-1.44e-03	-1.32e-02	-8.22e-03	-2.76e-02	1.80e-02	-1.68e-02	-5.26e-03
## 1832	1.28e-03	-1.54e-02	1.01e-02	-9.54e-03	-2.66e-03	-1.88e-02	-1.60e-02
## 1833	-3.96e-02	-2.71e-02	4.12e-03	-7.81e-03	-1.37e-02	5.25e-02	7.62e-03
## 1834	-1.20e-02	1.23e-02	2.36e-02	1.81e-02	-7.06e-03	7.66e-03	-3.62e-03
## 1835	5.48e-03	-5.85e-03	-7.34e-04	2.65e-03	4.21e-03	-1.96e-02	-9.76e-03
## 1836	1.03e-02	-3.12e-02	6.06e-03	-3.67e-03	3.76e-02	4.09e-02	-8.53e-03
## 1837	1.07e-03	-1.41e-03	-8.44e-04	-1.90e-03	2.17e-03	2.85e-03	-1.99e-03
## 1838	9.21e-03	6.89e-03	-3.69e-03	6.99e-03	1.71e-03	1.11e-02	-4.02e-03
## 1839	4.63e-04	3.99e-03	-2.19e-04	2.02e-04	3.35e-03	-1.04e-02	-2.02e-03
## 1840	-8.93e-04	-1.45e-03	7.57e-04	1.82e-03	-2.28e-03	-1.26e-03	3.70e-04
## 1841	-4.50e-03	3.55e-03	-2.85e-03	4.65e-03	1.03e-03	8.43e-03	6.96e-03
## 1842	3.49e-04	2.93e-03	-2.24e-04	1.47e-03	1.97e-03	-1.42e-03	-1.84e-04
## 1843	-9.43e-05	2.58e-03	-3.21e-04	6.51e-04	2.10e-03	-3.24e-03	-1.10e-03
## 1844	2.20e-04	-1.55e-03	-2.30e-04	1.10e-03	8.58e-04	1.67e-03	1.08e-04
## 1845	1.52e-02	-1.89e-02	8.77e-03	-7.49e-03	-6.71e-03	8.46e-03	7.55e-03
## 1846	1.04e-02	-6.38e-03	1.32e-02	-7.10e-03	4.81e-03	3.97e-03	-1.28e-02
## 1847	4.61e-03	1.64e-02	1.40e-02	3.39e-02	-2.08e-02	2.71e-02	-2.19e-02
## 1848	2.20e-02	-1.96e-02	6.63e-03	-5.73e-03	-8.20e-03	2.31e-02	6.32e-03
## 1849	1.95e-02	2.19e-02	6.19e-03	-5.56e-03	-7.93e-03	1.96e-02	6.88e-03
## 1850	-8.35e-03	-1.56e-02	-3.55e-02	-9.56e-03	3.96e-03	1.89e-02	-1.32e-02
## 1851	1.04e-05	3.41e-04	2.62e-05	-1.54e-04	-2.95e-04	2.80e-04	1.11e-04
## 1852	-1.31e-02	2.47e-02	-6.06e-02	-2.76e-02	5.51e-03	-1.99e-02	8.13e-03
## 1853	3.88e-03	5.40e-03	1.22e-03	6.37e-03	-8.36e-03	-4.05e-03	-1.80e-03
## 1854	6.30e-03	1.74e-02	1.61e-02	3.33e-02	-2.37e-02	-2.62e-03	-2.26e-02
## 1855	2.19e-02	-2.03e-02	2.02e-02	-2.18e-02	-1.17e-03	-2.62e-02	-2.98e-02
## 1856	2.43e-03	-3.19e-03	-2.31e-04	3.78e-04	2.87e-03	-1.08e-02	-1.72e-03
## 1857	2.35e-02	2.18e-02	6.11e-03	-5.05e-03	-7.86e-03	1.48e-02	6.07e-03
## 1858	5.09e-03	-8.61e-03	1.86e-02	1.02e-02	-2.62e-03	1.67e-02	1.05e-02
## 1859	4.65e-03	6.24e-03	-2.45e-03	-1.26e-02	1.04e-02	-1.29e-02	-1.01e-02
## 1860	-8.71e-03	-1.06e-02	2.28e-02	-1.41e-02	8.71e-03	-1.64e-03	-2.99e-03
## 1861	-1.36e-02	1.35e-02	2.74e-02	1.89e-02	-4.86e-03	-3.06e-03	-4.55e-03
## 1862	2.33e-03	-4.10e-03	-1.73e-03	2.15e-04	-5.72e-03	-3.08e-03	6.32e-04
## 1863	5.99e-03	1.35e-02	8.62e-03	-5.05e-03	-5.01e-03	-6.04e-03	-1.28e-02
## 1864	-2.58e-03	1.19e-02	-4.78e-03	3.54e-03	4.18e-03	-1.74e-02	-5.98e-03
## 1865	1.15e-04	-2.69e-03	1.75e-04	-1.59e-05	2.49e-03	-6.60e-03	3.07e-03
## 1866	-1.09e-02	1.22e-02	-5.20e-03	3.08e-03	4.81e-03	-1.08e-02	-5.71e-03
## 1867	8.15e-03	-9.33e-03	-6.78e-03	-1.74e-03	-1.36e-02	7.69e-03	-2.21e-03
## 1868	-4.79e-04	1.47e-03	-2.64e-04	6.20e-04	1.21e-03	1.89e-04	-5.69e-04
## 1869	-1.19e-03	3.38e-03	2.66e-04	-3.33e-04	3.31e-03	-1.59e-03	-7.20e-04

## 1870	1.94e-03	-1.95e-03	-7.76e-04	-3.05e-03	3.54e-03	-1.24e-03	-3.40e-03
## 1871	7.85e-05	2.12e-04	-1.63e-04	-1.89e-04	2.71e-04	-3.10e-04	3.00e-05
## 1872	-1.48e-02	1.30e-02	-1.50e-02	-1.74e-02	1.58e-02	-8.44e-03	-4.35e-04
## 1873	-3.28e-03	-5.01e-03	9.08e-04	-7.13e-03	-2.37e-03	3.49e-04	7.89e-03
## 1874	1.30e-02	7.34e-03	-1.86e-03	2.15e-03	3.35e-03	-1.20e-02	-2.52e-03
## 1875	1.89e-02	-1.27e-02	9.06e-03	-3.77e-03	-3.25e-03	2.92e-03	-1.47e-02
## 1876	5.33e-03	-9.39e-03	8.16e-03	-3.61e-03	-1.42e-03	-1.50e-03	5.52e-03
## 1877	7.91e-03	1.03e-02	-6.34e-03	6.41e-03	2.92e-03	7.33e-04	1.25e-02
## 1878	5.09e-03	7.71e-03	-1.72e-03	-4.98e-03	-9.57e-03	5.43e-03	-2.86e-03
## 1879	-3.19e-02	1.72e-02	-3.86e-02	2.42e-02	-1.42e-02	1.74e-03	9.26e-03
## 1880	-1.42e-03	3.46e-03	-6.97e-04	2.26e-03	1.90e-03	-1.14e-03	-3.34e-04
## 1881	1.37e-02	6.09e-03	-2.74e-04	-3.97e-03	-6.39e-03	2.66e-03	-3.09e-03
## 1882	8.47e-04	-4.59e-03	-5.76e-04	2.45e-04	4.78e-03	-3.27e-03	-1.61e-03
## 1883	2.45e-02	1.62e-02	1.18e-02	-8.87e-03	-3.06e-03	-1.77e-03	4.90e-03
## 1884	-1.66e-03	-5.63e-03	-1.65e-03	3.72e-03	2.52e-03	-3.26e-03	-1.18e-03
## 1885	-1.30e-02	1.18e-02	-8.11e-03	4.86e-03	4.14e-03	-5.85e-03	1.84e-02
## 1886	-5.75e-02	2.48e-02	1.95e-04	2.52e-02	2.58e-02	4.63e-02	6.39e-03
## 1887	2.42e-02	2.04e-02	-4.88e-02	-1.02e-02	2.80e-03	1.65e-02	8.29e-03
## 1888	8.24e-03	1.86e-02	4.03e-02	1.19e-02	-3.93e-03	-1.87e-02	1.74e-02
## 1889	1.97e-02	1.12e-02	-7.07e-04	1.81e-02	-2.37e-02	2.99e-03	-2.46e-02
## 1890	-1.95e-03	-1.26e-02	-1.22e-02	-1.77e-02	1.44e-02	1.63e-02	1.71e-02
## 1891	-2.12e-03	-2.63e-03	-4.77e-04	-6.35e-03	5.43e-03	9.60e-04	3.60e-03
## 1892	3.60e-03	2.56e-03	-7.67e-04	2.09e-03	9.30e-04	3.12e-03	-5.10e-03
## 1893	-3.90e-03	-2.26e-02	-4.74e-02	3.23e-02	-1.84e-02	1.26e-03	9.34e-03
## 1894	1.59e-02	1.20e-02	-2.65e-02	-8.15e-03	3.85e-03	-2.46e-03	-1.16e-02
## 1895	6.10e-03	1.73e-02	-1.42e-02	1.02e-02	2.44e-03	8.75e-03	1.50e-02
## 1896	-3.37e-04	2.30e-03	8.25e-04	-2.31e-03	-1.63e-03	-6.73e-03	4.92e-04
## 1897	1.85e-03	-3.67e-03	-2.11e-04	1.57e-03	2.26e-03	-4.97e-03	-3.83e-05
## 1898	-5.76e-03	-3.78e-03	2.18e-04	-5.30e-04	4.08e-03	1.53e-03	5.65e-03
## 1899	-9.20e-03	2.33e-02	-1.79e-02	8.78e-03	5.13e-03	1.48e-02	2.03e-02
## 1900	2.91e-03	-2.25e-02	2.03e-02	-2.48e-02	-4.19e-04	-2.47e-02	4.95e-03
## 1901	4.45e-03	-4.68e-03	-1.80e-03	3.90e-03	2.20e-03	5.16e-03	-7.41e-03
## 1902	-6.91e-03	4.09e-03	-1.51e-03	3.13e-03	1.94e-03	2.79e-03	8.05e-03
## 1903	3.25e-02	-9.71e-03	-2.18e-03	4.18e-03	5.05e-03	7.10e-03	-1.11e-02
## 1904	2.46e-03	-2.97e-03	5.42e-04	-3.65e-03	-2.00e-03	-8.40e-03	-1.34e-03
## 1905	2.00e-03	3.47e-03	7.15e-04	-3.46e-03	-3.02e-03	-6.65e-03	1.78e-04
## 1906	-7.40e-04	-1.28e-02	-4.62e-03	-1.21e-02	-1.45e-02	-2.01e-02	1.85e-02
## 1907	1.15e-03	2.78e-03	5.31e-04	-4.80e-04	3.13e-03	3.46e-03	-1.44e-03
## 1908	1.72e-03	1.30e-03	-9.02e-05	-5.37e-04	-1.28e-03	1.05e-03	1.43e-04
## 1909	-6.70e-03	-7.91e-03	-6.79e-03	9.95e-03	8.65e-04	6.92e-04	3.47e-04
## 1910	8.02e-03	-1.29e-02	-3.13e-03	4.29e-03	5.22e-03	-2.14e-03	-2.80e-02
## 1911	-1.26e-03	7.45e-03	-2.45e-03	4.10e-03	2.35e-03	2.75e-03	-2.11e-03
## 1912	-2.05e-03	2.07e-02	2.06e-02	-2.15e-02	-4.77e-04	-5.81e-03	5.92e-03
## 1913	-3.02e-03	3.04e-03	-7.63e-03	2.10e-03	-2.98e-03	1.33e-03	4.96e-03
## 1914	-1.86e-04	4.18e-03	-4.58e-04	2.26e-03	1.89e-03	3.18e-03	-1.11e-03
## 1915	1.52e-02	-1.86e-02	6.38e-03	-5.73e-03	-7.95e-03	9.84e-03	9.88e-03
## 1916	1.11e-02	5.46e-03	-3.06e-03	-9.65e-03	7.74e-03	-2.57e-03	-1.24e-03
## 1917	-8.01e-04	-9.65e-04	1.59e-04	-8.98e-05	1.16e-03	2.94e-04	1.51e-03
## 1918	-1.68e-03	9.79e-03	-3.00e-03	-6.63e-03	-1.25e-02	3.03e-03	-2.00e-02
## 1919	-1.41e-04	-1.23e-03	-2.37e-04	6.01e-04	9.69e-04	6.02e-04	-4.41e-04

##	1920	-1.08e-02	-1.79e-02	4.06e-02	-4.61e-03	-3.26e-02	-6.05e-03	-5.49e-03
##	1921	1.44e-04	-1.38e-03	-9.29e-05	-8.58e-05	-1.47e-03	-4.11e-04	-1.74e-03
##	1922	-4.79e-03	-1.71e-02	1.47e-02	2.97e-03	2.85e-02	-8.33e-03	6.43e-03
##	1923	-2.28e-02	-2.02e-02	1.30e-02	3.93e-03	3.16e-02	-3.90e-04	5.36e-03
##	1924	-5.37e-02	2.88e-02	3.16e-03	1.79e-02	3.00e-02	-2.44e-02	4.82e-03
##	1925	-9.45e-03	2.04e-02	-1.09e-02	-1.95e-02	-2.64e-02	-6.36e-04	2.21e-02
##	1926	1.21e-02	7.38e-03	-1.84e-03	2.05e-03	3.51e-03	-1.10e-02	-2.65e-03
##	1927	8.94e-03	-8.15e-03	-8.67e-03	-1.03e-02	9.95e-03	-5.77e-03	-1.27e-03
##	1928	5.79e-03	5.91e-03	-8.59e-04	1.43e-03	3.32e-03	-8.56e-03	-1.72e-03
##	1929	2.73e-03	4.49e-03	-8.19e-04	2.28e-03	2.70e-03	-2.54e-03	-5.04e-04
##	1930	-4.92e-03	1.42e-02	9.80e-03	-5.54e-03	-5.48e-03	-3.56e-03	-1.51e-02
##	1931	1.52e-03	-1.35e-03	-4.50e-04	1.34e-03	6.52e-04	2.30e-03	7.16e-05
##	1932	-6.20e-04	6.31e-04	3.02e-04	9.78e-04	-1.02e-03	-3.22e-04	-2.32e-05
##	1933	5.82e-05	-1.67e-03	5.13e-04	-1.36e-03	-1.18e-03	-3.33e-03	4.05e-04
##	1934	7.37e-03	-6.59e-03	-9.26e-04	1.60e-03	3.30e-03	-8.79e-03	-1.52e-03
##	1935	1.16e-02	6.86e-03	1.70e-03	9.75e-03	-1.48e-02	-1.01e-02	-2.20e-03
##	1936	-5.00e-04	-2.88e-03	8.00e-04	-3.52e-03	-1.20e-03	-3.42e-03	4.43e-03
##	1937	-9.69e-03	1.20e-02	-4.58e-03	3.77e-03	4.69e-03	-3.93e-03	-6.81e-03
##	1938	6.71e-04	-1.19e-03	8.62e-05	-1.08e-03	-8.49e-04	-8.65e-04	-3.56e-04
##	1939	-1.43e-03	1.42e-02	-7.51e-03	4.76e-03	4.49e-03	-1.85e-02	-3.00e-02
##	1940	4.26e-02	-1.77e-02	4.70e-04	-2.98e-02	4.57e-02	2.11e-02	-3.49e-02
##	1941	-2.13e-05	4.13e-03	-1.81e-04	1.23e-04	3.58e-03	-9.86e-03	-2.29e-03
##	1942	-2.93e-03	9.50e-03	-8.07e-03	-9.62e-04	-1.58e-02	2.81e-03	-1.06e-03
##	1943	-1.40e-03	-2.67e-03	-1.99e-03	3.56e-03	1.93e-04	-7.37e-05	5.46e-04
##	1944	1.53e-02	1.25e-02	8.44e-03	-4.44e-03	-2.79e-03	-3.74e-03	-1.41e-02
##	1945	-7.20e-04	6.84e-04	-1.42e-04	6.70e-05	-8.07e-04	-8.62e-04	3.28e-04
##	1946	1.05e-02	-2.24e-02	3.01e-02	2.53e-02	-2.46e-02	-4.01e-03	-1.51e-03
##	1947	-2.13e-03	8.63e-03	-5.55e-03	-1.75e-02	1.27e-02	-3.81e-03	-3.48e-03
##	1948	2.30e-02	-1.51e-02	-8.55e-03	-9.36e-03	-2.30e-02	3.11e-03	-8.31e-03
##	1949	8.36e-03	-1.42e-02	3.55e-03	-2.01e-02	3.20e-02	-2.20e-04	-1.52e-02
##	1950	1.26e-02	-1.10e-02	9.05e-03	-3.81e-03	-2.30e-03	3.01e-03	5.02e-03
##	1951	2.62e-03	-1.40e-02	-1.08e-02	-2.04e-03	-2.08e-02	1.52e-03	-2.20e-03
##	1952	-1.34e-03	-1.79e-03	-1.31e-03	2.76e-03	4.84e-04	-2.21e-03	6.50e-04
##	1953	-1.17e-04	-4.81e-03	-3.34e-03	-6.83e-03	6.32e-03	5.45e-03	-7.94e-03
##	1954	3.37e-03	1.57e-02	-1.42e-02	1.13e-02	1.94e-03	1.66e-03	-7.97e-03
##	1955	8.76e-04	-9.01e-03	-7.42e-04	-8.99e-03	-9.53e-03	-1.06e-02	1.31e-02
##	1956	6.66e-03	-9.31e-03	-3.99e-03	-4.35e-03	-1.24e-02	4.91e-03	-2.96e-03
##	1957	2.26e-03	-4.24e-03	-2.15e-03	4.32e-03	1.86e-03	5.58e-04	-7.67e-03
##	1958	2.79e-03	1.52e-02	-8.70e-03	1.10e-02	4.68e-03	1.57e-03	1.50e-02
##	1959	-2.86e-02	1.57e-02	-1.03e-02	6.80e-03	4.09e-03	-4.58e-03	2.13e-02
##	1960	-1.33e-04	1.44e-04	-6.41e-05	1.71e-04	6.57e-05	3.35e-04	9.91e-06
##	1961	-6.47e-03	-2.50e-02	9.65e-03	-1.53e-02	-8.72e-03	-1.36e-03	8.70e-03
##	1962	-4.18e-03	1.02e-02	2.47e-02	9.75e-03	-2.13e-03	9.81e-05	-2.13e-02
##	1963	-5.19e-02	-3.46e-02	1.39e-02	-4.48e-02	-9.51e-03	-3.38e-02	6.13e-02
##	1964	-5.80e-03	-1.03e-02	-7.85e-03	1.11e-02	1.59e-03	4.86e-03	1.33e-02
##	1965	-3.47e-03	-2.85e-03	-1.02e-03	3.28e-03	1.29e-03	2.52e-03	5.01e-03
##	1966	6.19e-03	1.16e-02	1.15e-02	2.34e-02	-1.53e-02	-3.72e-04	-1.33e-02
##	1967	4.96e-03	-4.00e-03	-7.48e-04	2.26e-03	2.24e-03	-3.94e-03	-4.42e-04
##	1968	-1.31e-02	-1.72e-02	-1.04e-02	-9.71e-03	-2.31e-02	6.55e-03	-3.45e-03
##	1969	-1.36e-03	-3.39e-03	-2.91e-04	-2.05e-04	3.85e-03	-1.64e-03	-6.70e-04

## 1970	1.29e-02	-1.28e-02	1.40e-02	2.45e-02	-1.57e-02	3.89e-03	4.41e-03
## 1971	-1.13e-03	1.53e-03	6.54e-05	8.35e-04	1.22e-03	-1.70e-03	3.05e-04
## 1972	9.26e-05	-6.34e-03	-1.23e-02	-4.29e-03	2.03e-03	-2.08e-03	6.09e-03
## 1973	-1.01e-02	1.76e-02	3.45e-02	1.93e-02	-6.55e-03	7.25e-03	-9.07e-03
## 1974	1.11e-03	1.40e-03	8.89e-05	-1.38e-03	-7.24e-04	-1.13e-03	-8.98e-05
## 1975	-1.25e-04	1.49e-04	-9.88e-06	5.59e-05	1.33e-04	-2.44e-05	-4.76e-05
## 1976	1.36e-02	2.11e-02	-1.89e-02	1.10e-02	2.91e-03	1.06e-02	-1.66e-02
## 1977	-2.50e-02	2.32e-02	2.45e-02	2.67e-02	-2.26e-02	-8.39e-03	9.10e-03
## 1978	4.27e-03	3.88e-03	1.21e-03	6.41e-03	-8.57e-03	-8.67e-04	-8.00e-04
## 1979	4.85e-03	7.69e-03	-3.01e-03	-1.27e-02	1.17e-02	6.33e-04	-1.40e-02
## 1980	-1.28e-02	1.22e-02	9.63e-03	8.85e-03	1.83e-02	2.08e-03	6.71e-03
## 1981	1.71e-02	2.36e-02	6.32e-03	1.98e-02	2.45e-02	1.71e-02	-3.44e-02
## 1982	-1.68e-03	-2.12e-03	-8.91e-04	1.57e-04	-2.75e-03	-2.19e-03	8.37e-04
## 1983	-2.09e-02	1.77e-02	1.02e-02	9.55e-03	2.37e-02	-3.39e-03	-1.81e-02
## 1984	-1.14e-02	-2.36e-02	-4.20e-02	1.90e-02	-1.62e-02	1.43e-02	7.91e-03
## 1985	-2.32e-03	-4.39e-03	2.84e-04	-2.30e-03	-4.06e-03	-3.50e-03	9.05e-03
## 1986	7.45e-03	1.05e-02	-2.11e-02	-9.32e-03	3.89e-03	-2.21e-03	6.20e-03
## 1987	4.84e-03	4.94e-03	-1.44e-03	-1.16e-03	-5.93e-03	-3.72e-04	-1.00e-02
## 1988	-1.70e-03	-1.67e-02	-1.30e-02	9.46e-03	4.47e-03	1.17e-02	1.63e-02
## 1989	-4.00e-04	2.06e-02	3.20e-03	1.98e-02	2.27e-02	2.43e-02	6.58e-03
## 1990	9.89e-05	2.72e-03	-2.64e-04	1.48e-03	1.80e-03	-7.66e-04	-1.52e-05
## 1991	1.55e-02	1.13e-02	-2.45e-02	-6.71e-03	3.52e-03	3.84e-03	-1.17e-02
## 1992	3.32e-03	-4.93e-03	-1.16e-03	4.07e-04	5.39e-03	-4.96e-03	-1.21e-03
## 1993	-1.91e-03	-4.70e-03	-1.87e-03	6.07e-04	-6.10e-03	-4.88e-03	1.36e-03
## 1994	3.64e-03	1.65e-02	1.23e-02	3.32e-02	-2.22e-02	2.01e-02	-2.04e-02
## 1995	2.20e-02	-1.44e-02	1.34e-02	-9.64e-03	-2.00e-03	-4.45e-03	3.95e-03
## 1996	-2.19e-02	-1.80e-02	3.92e-02	1.35e-02	-5.78e-03	1.16e-03	1.90e-02
## 1997	6.75e-03	-6.05e-03	-8.99e-04	1.76e-03	2.98e-03	-6.21e-03	-1.46e-03
## 1998	-1.60e-03	8.20e-04	-1.21e-04	8.40e-04	5.15e-04	5.77e-04	1.77e-03
## 1999	4.66e-02	2.57e-02	1.59e-02	-2.93e-02	-5.44e-03	1.15e-02	-4.10e-02
## 2000	6.46e-03	-1.31e-02	1.23e-02	-9.97e-03	-1.96e-03	-1.04e-02	7.82e-03
## 2001	2.13e-02	2.31e-02	1.25e-02	4.11e-03	2.79e-02	3.01e-03	-1.13e-03
## 2002	1.48e-02	-1.89e-02	8.25e-03	-7.25e-03	-7.46e-03	1.73e-02	4.14e-02
## 2003	9.89e-03	-1.14e-02	8.58e-03	-3.80e-03	-2.23e-03	-2.00e-03	-1.10e-02
## 2004	-3.27e-03	1.36e-02	2.59e-03	-2.02e-02	3.19e-02	-9.23e-03	6.83e-03
## 2005	-6.28e-03	-4.98e-03	-2.09e-05	-4.63e-04	5.00e-03	2.33e-03	7.15e-03
## 2006	1.05e-02	-1.24e-02	1.03e-02	-5.33e-03	-2.12e-03	6.23e-03	4.83e-03
## 2007	4.39e-03	2.13e-03	-3.18e-04	-4.02e-04	-2.85e-03	2.43e-03	-4.29e-03
## 2008	-2.92e-02	2.07e-02	2.42e-02	2.83e-02	-2.59e-02	-1.26e-02	9.71e-03
## 2009	7.44e-04	-1.10e-03	3.57e-04	1.94e-03	-2.11e-03	2.29e-04	1.20e-04
## 2010	8.49e-03	6.08e-03	8.08e-05	-5.07e-03	-6.68e-03	-8.79e-04	-2.64e-03
## 2011	-6.14e-03	-1.00e-02	-2.52e-03	-5.56e-03	-1.10e-02	3.52e-03	-1.52e-02
## 2012	1.27e-02	1.20e-02	9.95e-03	-6.26e-03	-1.79e-03	-4.70e-03	4.62e-03
## 2013	3.93e-05	-4.27e-04	1.24e-04	6.62e-04	-7.33e-04	1.71e-04	-1.43e-04
## 2014	1.09e-02	1.98e-02	7.30e-03	-4.66e-03	-6.42e-03	1.54e-02	8.06e-03
## 2015	2.27e-02	-2.43e-02	2.90e-02	2.65e-02	-3.10e-02	1.38e-02	-6.01e-04
## 2016	2.46e-03	4.16e-03	-2.73e-03	-5.70e-03	6.18e-03	3.19e-03	-9.53e-04
## 2017	4.91e-04	-1.14e-03	6.96e-05	5.18e-05	1.27e-03	8.10e-04	-2.05e-03
## 2018	-3.79e-03	-1.72e-02	-1.49e-02	9.67e-03	2.92e-03	1.18e-02	1.89e-02
## 2019	1.77e-03	9.62e-03	-1.83e-02	1.74e-02	-7.54e-03	3.46e-03	5.95e-03

##	2020	-2.01e-02	1.71e-02	-1.00e-02	9.96e-03	6.09e-03	3.09e-03	1.89e-02
##	2021	-5.19e-04	6.52e-04	2.31e-04	-1.60e-04	8.61e-04	1.36e-03	-2.38e-04
##	2022	-5.31e-03	4.57e-03	1.03e-02	8.01e-03	-1.94e-03	-2.54e-03	5.71e-04
##	2023	1.50e-03	-3.03e-03	-1.04e-03	-5.50e-03	4.96e-03	-1.01e-03	2.30e-04
##	2024	-9.15e-04	-2.17e-03	1.51e-04	9.92e-04	1.61e-03	-3.54e-03	3.95e-04
##	2025	2.45e-02	-2.88e-02	2.85e-02	3.15e-02	-3.52e-02	-2.92e-04	-5.09e-02
##	2026	1.09e-02	1.01e-02	9.78e-04	1.44e-02	-1.99e-02	-8.29e-03	-1.96e-02
##	2027	-1.73e-02	-1.29e-02	-2.85e-03	-1.15e-02	-1.34e-02	-1.77e-02	1.97e-02
##	2028	6.50e-03	1.40e-02	1.30e-02	2.58e-02	-1.79e-02	-5.51e-03	-1.44e-02
##	2029	-3.62e-02	-2.38e-02	5.65e-03	-5.61e-03	-1.19e-02	3.55e-02	9.27e-03
##	2030	1.61e-03	1.62e-03	-1.87e-04	-5.83e-04	-1.66e-03	-1.05e-05	-2.55e-04
##	2031	6.46e-03	-4.80e-03	-1.56e-04	9.51e-03	-1.08e-02	6.92e-03	-2.04e-03
##	2032	-3.19e-02	2.08e-02	4.00e-02	-3.67e-02	1.63e-02	-1.32e-02	-9.87e-03
##	2033	-3.38e-02	-2.17e-02	4.63e-02	1.22e-02	-6.52e-03	-2.79e-03	2.27e-02
##	2034	1.18e-03	1.52e-02	8.88e-03	8.34e-03	2.03e-02	-8.26e-03	-1.76e-02
##	2035	1.12e-02	-1.57e-02	1.42e-02	-9.87e-03	-2.90e-03	-5.44e-03	6.51e-03
##	2036	-4.77e-03	-4.91e-03	2.11e-03	4.64e-03	-7.20e-03	3.00e-03	6.89e-03
##	2037	-1.58e-03	2.61e-03	2.76e-04	9.30e-04	2.14e-03	-6.34e-03	3.39e-04
##	2038	9.01e-03	-7.16e-03	1.82e-02	7.32e-03	-1.85e-03	1.81e-03	-1.57e-02
##	2039	-3.93e-02	1.55e-02	3.69e-02	1.30e-02	-4.77e-03	4.54e-03	2.08e-02
##	2040	7.01e-04	3.97e-03	-1.15e-04	1.35e-03	2.73e-03	-6.58e-03	-3.23e-04
##	2041	-7.99e-04	-3.28e-03	-2.19e-03	4.76e-03	5.64e-04	-4.13e-03	5.48e-04
##	2042	-2.02e-02	-1.34e-02	2.10e-04	1.61e-02	-2.61e-02	-1.89e-02	1.93e-02
##	2043	2.79e-02	1.55e-02	-5.82e-03	6.13e-03	5.67e-03	6.17e-03	-1.35e-02
##	2044	-1.44e-03	-1.23e-02	-2.48e-02	-1.23e-02	5.31e-03	-4.96e-03	-1.01e-02
##	2045	-5.39e-04	-6.95e-03	-8.91e-03	-6.93e-03	6.64e-03	3.55e-03	2.38e-04
##	2046	4.55e-04	1.94e-03	1.23e-03	2.31e-03	-3.09e-03	-2.34e-03	-4.45e-03
##	2047	1.41e-03	3.43e-03	-2.52e-04	3.83e-04	2.71e-03	-9.37e-03	-1.60e-03
##	2048	8.92e-03	-1.24e-02	-9.87e-03	1.29e-02	-2.56e-04	1.01e-02	-5.78e-03
##	2049	-3.59e-03	-2.17e-02	2.67e-02	2.91e-02	-2.39e-02	-1.26e-03	6.43e-03
##	2050	5.64e-04	1.78e-02	8.94e-03	-5.90e-03	-5.15e-03	1.84e-02	3.62e-02
##	2051	1.51e-02	1.03e-02	-7.12e-03	1.05e-02	7.66e-04	5.28e-03	-5.66e-03
##	2052	-1.37e-02	8.84e-03	-8.58e-03	9.80e-03	9.24e-04	5.86e-03	5.38e-04
##	2053	-5.38e-02	1.93e-02	1.25e-02	3.70e-02	-2.89e-02	-9.96e-03	4.81e-02
##	2054	-5.24e-03	-5.60e-03	9.30e-04	-7.90e-03	-2.61e-03	9.04e-04	9.14e-03
##	2055	9.80e-03	1.29e-02	-9.42e-03	-4.86e-03	-1.82e-02	6.59e-03	-7.20e-03
##	2056	-4.11e-03	-4.77e-03	-2.29e-04	-5.26e-04	5.03e-03	6.37e-04	7.03e-03
##	2057	1.76e-03	-2.06e-02	1.84e-03	2.06e-02	2.55e-02	1.46e-02	1.03e-02
##	2058	9.20e-05	-3.08e-04	-1.16e-04	3.82e-04	1.66e-04	6.13e-04	-3.88e-04
##	2059	1.83e-03	1.59e-03	7.38e-06	-3.99e-04	-1.75e-03	3.40e-04	-8.46e-05
##	2060	9.02e-04	-7.60e-04	7.39e-05	-4.42e-04	-7.06e-04	-3.06e-04	9.53e-05
##	2061	-2.16e-02	-1.58e-02	-1.24e-02	1.27e-02	2.19e-03	9.96e-03	-2.46e-03
##	2062	5.39e-05	2.67e-04	-3.34e-05	-3.87e-05	-2.53e-04	5.75e-04	-3.40e-04
##	2063	-1.74e-04	8.57e-03	1.48e-02	-6.16e-03	5.08e-03	-9.31e-03	-2.20e-03
##	2064	-2.78e-04	7.45e-03	-4.55e-03	7.19e-03	1.94e-03	8.44e-03	-1.31e-03
##	2065	-7.98e-03	9.68e-03	7.13e-03	-4.21e-03	-3.13e-03	-8.96e-03	-8.31e-03
##	2066	-2.68e-02	2.65e-02	1.67e-02	-2.73e-02	-7.03e-03	-3.33e-02	5.00e-02
##	2067	-1.85e-03	-1.24e-03	-3.12e-04	3.46e-05	-1.35e-03	-1.03e-03	6.11e-04
##	2068	-1.39e-04	-2.23e-04	-6.92e-05	-4.44e-04	4.56e-04	-1.53e-04	-2.47e-05
##	2069	4.17e-03	4.70e-03	-9.48e-04	1.97e-03	2.54e-03	-1.29e-03	-1.15e-03

##	2070	-2.36e-02	1.93e-02	-4.66e-02	-2.58e-02	8.02e-03	-1.55e-02	-2.41e-02
##	2071	-7.94e-03	1.29e-02	2.61e-02	2.16e-02	-8.64e-03	8.00e-03	-5.50e-03
##	2072	-2.96e-03	-7.67e-03	-6.69e-04	3.54e-03	3.48e-03	-3.76e-03	-2.21e-03
##	2073	2.60e-02	1.44e-02	8.71e-03	-4.34e-03	-3.82e-03	1.54e-03	-1.85e-02
##	2074	1.07e-03	6.74e-03	-9.80e-05	-5.41e-03	-6.11e-03	-3.90e-03	-1.33e-03
##	2075	3.26e-03	5.56e-03	-4.47e-03	6.63e-04	-8.58e-03	-1.99e-04	6.18e-05
##	2076	5.27e-04	7.71e-04	1.66e-03	-4.91e-04	7.00e-04	-3.55e-04	-1.30e-03
##	2077	-4.37e-03	-1.48e-02	-7.82e-03	-8.70e-03	-1.96e-02	3.09e-03	1.84e-02
##	2078	6.93e-03	5.02e-03	7.33e-04	8.96e-03	-1.12e-02	1.51e-03	-9.56e-03
##	2079	-4.18e-02	2.42e-02	5.53e-03	-5.94e-03	-1.12e-02	3.52e-02	8.92e-03
##	2080	2.34e-02	-1.54e-02	2.18e-03	-2.31e-02	3.59e-02	8.09e-03	-2.02e-02
##	2081	6.51e-04	1.24e-02	-2.09e-02	1.56e-02	-7.12e-03	-3.57e-03	7.50e-03
##	2082	2.12e-02	-1.52e-02	7.01e-03	1.20e-02	1.98e-02	-4.91e-03	-2.20e-02
##	2083	-8.48e-03	2.01e-02	1.02e-02	-6.54e-03	-8.57e-03	2.65e-02	-2.68e-02
##	2084	-8.29e-03	-7.46e-03	-2.98e-03	5.88e-03	2.37e-03	1.98e-03	-1.11e-02
##	2085	-1.70e-03	-1.13e-03	-2.76e-04	1.04e-03	5.67e-04	7.10e-04	2.16e-03
##	2086	-2.15e-03	-6.83e-03	-2.16e-03	-2.84e-03	-8.27e-03	1.07e-02	1.13e-02
##	2087	4.47e-04	2.01e-03	-7.43e-04	-4.03e-03	3.65e-03	-2.25e-03	-7.89e-04
##	2088	-2.03e-03	-5.73e-03	2.51e-03	5.78e-03	-8.49e-03	5.11e-04	7.73e-03
##	2089	1.03e-02	5.77e-03	1.01e-03	9.23e-03	-1.23e-02	-6.13e-03	-1.08e-02
##	2090	4.88e-03	-4.79e-03	-9.34e-04	2.15e-03	2.22e-03	2.70e-04	-9.53e-04
##	2091	9.70e-03	-1.11e-02	7.79e-03	-3.61e-03	-3.24e-03	-1.78e-03	-1.07e-02
##	2092	-3.68e-02	2.63e-02	3.47e-03	-6.97e-03	-1.34e-02	4.20e-02	7.93e-03
##	2093	6.33e-03	2.08e-02	-1.61e-02	1.05e-02	3.89e-03	1.81e-02	1.39e-02
##	2094	-9.94e-03	2.07e-02	-1.37e-02	7.81e-03	5.76e-03	1.30e-02	-1.11e-02
##	2095	-4.39e-03	-1.16e-02	-1.17e-02	-1.80e-02	1.31e-02	5.44e-03	-1.38e-03
##	2096	-7.54e-03	5.64e-03	-6.76e-03	-5.77e-03	6.81e-03	-3.98e-03	9.30e-04
##	2097	-1.51e-02	2.07e-02	1.81e-02	3.28e-02	-2.79e-02	3.78e-03	5.43e-03
##	2098	-7.18e-03	1.61e-02	-7.02e-03	2.97e-02	-4.09e-02	3.66e-03	-6.83e-03
##	2099	-2.89e-02	1.86e-02	3.61e-02	-3.19e-02	1.38e-02	-7.04e-03	2.23e-02
##	2100	-5.39e-04	9.78e-03	1.20e-02	1.98e-02	-1.22e-02	1.85e-03	5.52e-03
##	2101	1.91e-02	1.29e-02	9.45e-03	-5.02e-03	-2.94e-03	2.19e-03	4.23e-03
##	2102	-4.99e-04	7.66e-04	-7.28e-05	-1.73e-04	-8.86e-04	8.07e-04	9.59e-05
##	2103	9.56e-03	1.53e-02	-1.85e-02	-2.31e-02	1.68e-02	6.07e-03	-9.13e-03
##	2104	-5.50e-03	-5.26e-03	-2.32e-03	4.39e-03	1.16e-03	6.06e-03	-7.87e-05
##	2105	-1.12e-04	1.47e-03	-2.34e-04	1.17e-03	9.50e-04	-1.27e-03	-1.82e-03
##	2106	7.84e-03	-5.88e-03	-8.78e-04	1.71e-03	2.93e-03	-8.22e-03	-1.49e-03
##	2107	-1.16e-04	2.40e-04	5.71e-05	-1.61e-04	-1.91e-04	-1.59e-04	1.00e-04
##	2108	-1.12e-03	-3.32e-03	-4.07e-04	2.47e-03	1.62e-03	8.76e-04	-5.33e-03
##	2109	-1.09e-03	1.01e-02	-6.97e-03	-2.15e-03	-1.40e-02	-5.58e-03	-1.42e-03
##	2110	2.04e-03	2.99e-03	-8.72e-04	2.18e-03	1.14e-03	4.30e-03	-7.23e-04
##	2111	-1.21e-04	-1.01e-03	-5.95e-04	1.50e-03	2.26e-04	-1.49e-03	3.56e-04
##	2112	2.77e-03	-1.81e-02	8.15e-03	-6.83e-03	-6.65e-03	1.50e-02	4.16e-02
##	2113	-2.06e-03	3.38e-03	1.22e-04	-2.81e-04	3.49e-03	-2.68e-03	-6.66e-03
##	2114	-8.73e-03	-1.69e-02	-9.61e-03	-1.07e-02	-2.28e-02	5.59e-03	2.10e-02
##	2115	1.53e-03	1.15e-03	-8.74e-05	-4.48e-04	-1.13e-03	1.20e-03	1.17e-04
##	2116	7.80e-04	1.96e-03	-2.29e-04	5.47e-04	1.52e-03	-2.91e-03	-9.49e-04
##	2117	5.77e-03	5.97e-03	-8.84e-04	1.44e-03	3.34e-03	-8.60e-03	-1.67e-03
##	2118	8.89e-03	-1.37e-02	-4.18e-03	6.78e-03	5.76e-03	-1.31e-03	-2.94e-02
##	2119	-1.38e-02	1.48e-02	-1.42e-02	1.13e-02	2.20e-03	8.81e-03	-4.18e-03

## 2120	2.12e-02	-1.74e-02	1.52e-02	3.87e-02	-2.50e-02	3.32e-02	-2.81e-02
## 2121	-3.33e-04	-1.41e-03	-2.67e-04	8.96e-05	-1.49e-03	-3.26e-04	-1.74e-03
## 2122	-1.49e-02	1.02e-02	-3.28e-03	2.64e-03	4.74e-03	-8.84e-03	-4.26e-03
## 2123	7.38e-03	-2.65e-02	2.06e-02	4.09e-02	-3.89e-02	-8.10e-03	-4.56e-02
## 2124	1.48e-02	6.00e-03	-2.07e-03	-1.85e-03	-7.02e-03	3.89e-03	-1.27e-02
## 2125	1.25e-02	-1.10e-02	9.06e-03	-3.82e-03	-2.31e-03	3.06e-03	5.10e-03
## 2126	1.66e-02	-2.39e-02	1.80e-02	-2.60e-02	-7.16e-03	3.09e-04	1.08e-03
## 2127	-4.80e-04	8.24e-04	1.31e-04	-3.32e-04	-7.31e-04	-1.62e-04	1.57e-03
## 2128	9.64e-04	1.95e-03	2.86e-04	-1.54e-03	-1.78e-03	-8.50e-04	1.62e-04
## 2129	1.57e-02	1.11e-02	-2.42e-02	-6.63e-03	3.51e-03	3.60e-03	-1.19e-02
## 2130	7.41e-03	-6.41e-03	-8.52e-04	1.55e-03	3.23e-03	-8.69e-03	-1.68e-03
## 2131	8.18e-03	-9.60e-03	-9.80e-03	1.23e-02	4.37e-04	3.61e-03	-2.26e-03
## 2132	6.32e-04	1.86e-02	-7.85e-03	3.17e-02	-4.32e-02	7.49e-03	-9.91e-03
## 2133	5.24e-03	4.69e-03	3.39e-04	-3.34e-03	-3.67e-03	-1.29e-02	-6.45e-03
## 2134	-8.48e-04	3.62e-03	-8.11e-04	6.14e-04	3.64e-03	6.32e-04	-7.84e-04
## 2135	1.01e-02	-1.62e-02	-7.83e-03	6.67e-03	4.76e-03	7.37e-04	-1.07e-02
## 2136	1.43e-02	1.81e-02	1.16e-02	7.45e-03	2.51e-02	-5.87e-03	1.28e-03
## 2137	5.50e-03	3.67e-03	1.07e-04	-3.20e-03	-3.81e-03	-2.02e-03	-5.10e-04
## 2138	5.13e-04	-6.48e-03	1.74e-03	1.08e-02	-1.29e-02	1.42e-03	-1.97e-03
## 2139	-8.76e-03	1.00e-02	2.43e-02	-1.32e-02	1.06e-02	-1.04e-02	-1.96e-02
## 2140	-2.34e-03	1.06e-02	-2.46e-03	2.32e-03	4.30e-03	-3.77e-03	-5.12e-03
## 2141	-2.10e-02	1.41e-02	-9.37e-03	7.05e-03	3.73e-03	4.60e-03	1.63e-02
## 2142	4.96e-03	-3.80e-03	-2.64e-03	5.31e-03	5.71e-04	-2.02e-03	-6.27e-04
## 2143	4.31e-03	4.02e-03	-8.53e-04	1.95e-03	2.08e-03	-4.60e-04	-1.05e-03
## 2144	5.26e-03	4.43e-03	1.55e-03	6.78e-03	-9.64e-03	-4.52e-03	-1.16e-03
## 2145	-9.85e-03	-1.41e-02	-1.20e-02	1.51e-02	1.19e-03	-1.46e-03	-2.36e-03
## 2146	-1.52e-02	1.86e-02	-1.75e-02	1.22e-02	1.73e-03	8.14e-03	-9.05e-03
## 2147	-3.15e-05	-1.07e-04	4.02e-05	-1.31e-04	-5.80e-05	-2.27e-04	1.37e-04
## 2148	-8.27e-04	-1.51e-02	-7.65e-03	4.83e-03	4.38e-03	-1.60e-02	-3.05e-02
## 2149	-9.52e-03	-1.53e-02	-1.52e-02	-2.56e-02	1.74e-02	6.89e-03	1.83e-02
## 2150	-2.23e-04	-6.78e-04	3.28e-04	1.09e-03	-1.16e-03	-5.23e-04	1.76e-04
## 2151	7.65e-03	1.48e-02	1.78e-02	2.37e-02	-1.60e-02	-2.79e-03	4.21e-03
## 2152	1.53e-02	1.26e-02	8.47e-03	-4.47e-03	-2.81e-03	-3.33e-03	-1.41e-02
## 2153	2.27e-03	1.11e-02	-1.29e-02	-1.29e-02	1.27e-02	-1.01e-02	-1.71e-03
## 2154	4.57e-04	-3.76e-04	1.01e-05	-2.72e-05	-4.00e-04	-1.12e-04	-5.95e-04
## 2155	1.38e-03	-3.16e-03	-2.42e-04	1.96e-03	2.30e-03	-7.76e-03	-4.71e-03
## 2156	-1.00e-02	5.58e-03	-4.38e-04	-6.40e-04	6.02e-03	1.16e-03	-1.23e-04
## 2157	8.04e-03	1.30e-02	9.27e-03	-4.74e-03	-2.51e-03	-1.01e-03	-1.34e-02
## 2158	2.24e-03	1.50e-02	-1.64e-02	-2.35e-02	1.86e-02	4.13e-03	-6.23e-03
## 2159	-4.56e-03	-1.23e-02	-2.12e-02	1.58e-02	-7.21e-03	-1.80e-03	9.72e-03
## 2160	6.72e-04	-1.93e-03	3.33e-04	-1.38e-04	2.18e-03	1.49e-03	-3.83e-03
## 2161	1.22e-03	-3.94e-03	-2.19e-04	1.62e-03	2.40e-03	-4.12e-03	-1.78e-05
## 2162	1.29e-03	-4.67e-03	9.87e-03	-4.45e-03	3.54e-03	-1.18e-04	-3.73e-04
## 2163	4.66e-04	-8.41e-03	-1.41e-02	1.25e-02	-5.45e-03	-1.31e-03	6.13e-03
## 2164	1.30e-02	-1.02e-02	-1.87e-02	1.76e-02	-7.42e-03	3.69e-03	5.30e-03
## 2165	3.12e-04	2.37e-03	6.05e-04	2.75e-03	-3.55e-03	-9.64e-04	-3.89e-04
## 2166	3.25e-03	-4.77e-03	-3.13e-04	2.78e-03	2.35e-03	-2.33e-05	-1.53e-03
## 2167	3.66e-03	-1.36e-02	-4.88e-03	4.70e-03	3.96e-03	-2.74e-03	-8.37e-03
## 2168	-7.57e-03	-1.13e-02	-3.16e-03	3.11e-03	4.11e-03	-1.27e-02	-4.14e-03
## 2169	-1.59e-02	1.85e-02	-1.30e-02	7.74e-03	3.99e-03	1.17e-02	1.83e-02

## 2170	1.77e-03	-2.83e-03	-2.68e-04	1.54e-03	1.69e-03	-2.60e-03	7.04e-05
## 2171	2.12e-02	2.09e-02	1.03e-02	-1.37e-02	-4.58e-03	-2.07e-02	-2.72e-02
## 2172	-5.04e-04	-1.96e-03	4.19e-05	2.42e-04	1.78e-03	-4.65e-03	-7.46e-04
## 2173	-3.93e-03	3.50e-03	6.48e-03	-2.15e-03	2.49e-03	-5.91e-03	1.24e-03
## 2174	6.57e-04	-1.69e-03	5.94e-04	2.41e-03	-2.95e-03	-1.71e-03	-6.75e-04
## 2175	2.50e-03	-4.15e-03	-9.20e-05	1.40e-03	2.64e-03	-8.19e-03	-2.90e-04
## 2176	-3.41e-03	2.39e-03	5.12e-03	-1.90e-03	1.81e-03	-1.82e-03	4.46e-03
## 2177	9.07e-03	-4.06e-03	-8.27e-04	-7.76e-04	-4.92e-03	6.90e-04	-7.99e-03
## 2178	-4.47e-03	5.90e-03	-2.16e-03	-4.60e-04	-7.90e-03	-6.56e-03	4.61e-04
## 2179	1.86e-03	1.05e-02	-2.40e-03	2.51e-03	3.97e-03	-8.51e-03	-5.11e-03
## 2180	-2.29e-03	7.88e-03	-1.64e-02	-6.07e-03	3.48e-03	-1.85e-03	7.84e-03
## 2181	-2.51e-03	-2.37e-02	4.30e-03	1.59e-02	2.76e-02	-1.93e-03	4.38e-02
## 2182	2.43e-04	-1.61e-03	-2.60e-04	6.47e-04	1.31e-03	-9.19e-04	-6.63e-04
## 2183	7.49e-06	2.33e-04	-1.85e-04	-2.20e-04	3.03e-04	-4.40e-04	6.43e-05
## 2184	-8.30e-03	-1.01e-02	-4.86e-03	5.45e-03	2.29e-03	5.89e-03	1.60e-02
## 2185	-3.88e-04	-2.72e-03	1.61e-04	3.25e-05	2.48e-03	-5.18e-03	3.03e-03
## 2186	-3.64e-04	-2.28e-03	1.25e-03	2.42e-03	-3.47e-03	5.40e-04	3.55e-03
## 2187	1.86e-03	6.99e-03	-1.53e-02	-4.80e-03	2.39e-03	-3.54e-03	-5.41e-03
## 2188	-3.35e-05	-2.64e-05	-6.23e-05	2.35e-05	-2.54e-05	1.59e-05	5.53e-06
## 2189	3.18e-04	8.25e-04	1.20e-04	1.87e-03	-1.84e-03	2.32e-03	1.54e-04
## 2190	9.53e-03	-1.12e-02	7.82e-03	-3.64e-03	-3.29e-03	-1.65e-03	-1.06e-02
## 2191	3.38e-03	-4.44e-03	-2.17e-03	-7.66e-03	7.12e-03	-8.03e-04	-6.61e-03
## 2192	5.86e-03	-4.21e-03	9.18e-05	-3.20e-03	-4.05e-03	-1.62e-04	-4.17e-04
## 2193	-5.21e-04	2.27e-03	-1.90e-03	-3.10e-03	2.99e-03	4.76e-03	-4.07e-03
## 2194	3.82e-03	-9.41e-03	-3.99e-04	-6.71e-03	-1.00e-02	-4.83e-03	-1.59e-02
## 2195	5.61e-05	-1.69e-04	-2.94e-06	5.20e-05	1.50e-04	-1.83e-04	2.01e-04
## 2196	-4.31e-03	-8.31e-03	-1.94e-03	4.52e-03	4.54e-03	-2.20e-03	-2.99e-03
## 2197	4.77e-03	-2.15e-03	-2.49e-04	2.07e-03	1.12e-03	9.56e-04	-1.08e-03
## 2198	1.95e-02	-1.16e-02	-2.31e-02	2.11e-02	-9.06e-03	2.54e-03	-1.35e-02
## 2199	5.78e-05	7.63e-05	-3.59e-05	1.06e-05	-1.06e-04	-3.87e-05	1.09e-05
## 2200	-1.32e-02	-2.65e-02	1.74e-02	-3.83e-03	3.73e-02	2.02e-02	-1.22e-03
## 2201	-6.41e-03	1.49e-02	3.21e-02	1.75e-02	-4.25e-03	2.39e-03	1.48e-02
## 2202	-5.57e-03	-2.04e-02	-3.20e-02	1.80e-02	-9.24e-03	4.12e-04	7.08e-03
## 2203	-1.56e-03	1.18e-02	1.17e-02	2.31e-02	-1.52e-02	-3.48e-03	-1.15e-02
## 2204	-5.77e-03	5.17e-03	-9.72e-03	9.07e-03	-3.68e-03	-2.22e-03	5.65e-03
## 2205	1.44e-02	6.62e-03	-3.25e-03	-1.27e-02	9.51e-03	-1.08e-02	-2.15e-03
## 2206	-5.43e-03	-3.39e-03	-1.65e-03	4.37e-03	6.52e-04	-1.76e-03	9.09e-04
## 2207	1.62e-03	-1.05e-02	-1.08e-02	-1.29e-02	1.28e-02	-1.90e-03	-2.07e-03
## 2208	5.28e-04	3.65e-03	-1.52e-04	1.39e-03	2.49e-03	-5.22e-03	-2.31e-04
## 2209	2.26e-03	-3.16e-03	5.82e-04	-2.45e-03	-2.56e-03	-8.41e-03	-4.36e-03
## 2210	2.50e-03	1.32e-02	1.14e-02	-7.08e-03	-2.35e-03	-8.52e-03	-1.44e-02
## 2211	3.17e-05	1.70e-04	1.05e-04	1.95e-04	-2.51e-04	-2.06e-04	-3.52e-04
## 2212	9.37e-03	-6.92e-03	1.47e-02	1.15e-02	-4.10e-03	-5.52e-04	-2.67e-03
## 2213	-5.82e-03	4.28e-03	-2.81e-04	-3.16e-04	4.43e-03	2.01e-03	6.34e-03
## 2214	-2.69e-03	4.00e-03	-2.89e-04	-3.21e-04	4.27e-03	4.36e-04	-1.05e-03
## 2215	-2.48e-02	1.83e-02	4.13e-02	1.73e-02	-6.16e-03	1.64e-02	1.87e-02
## 2216	-2.93e-03	-4.40e-03	1.73e-03	4.50e-03	-6.49e-03	4.37e-04	-5.26e-04
## 2217	-2.19e-04	8.17e-03	-1.64e-03	2.53e-05	7.54e-03	-7.62e-03	-2.70e-03
## 2218	8.52e-03	1.47e-02	-1.19e-02	-4.42e-03	-2.30e-02	1.71e-03	-6.22e-03
## 2219	8.23e-04	1.49e-02	1.50e-02	-1.17e-02	-1.17e-03	-6.74e-03	6.95e-03

##	2220	1.37e-02	-1.45e-02	-2.65e-02	2.29e-02	-1.08e-02	-1.18e-03	-1.66e-02
##	2221	-1.13e-02	9.33e-03	-5.61e-03	6.92e-03	4.40e-03	4.93e-04	1.51e-02
##	2222	-5.51e-03	-3.27e-03	7.17e-04	-2.38e-03	-2.62e-03	-3.65e-03	6.69e-03
##	2223	3.74e-04	3.97e-04	-4.53e-05	-1.15e-04	-4.12e-04	1.01e-03	5.48e-05
##	2224	-3.64e-03	-4.86e-03	9.88e-03	-3.47e-03	3.57e-03	-8.53e-03	1.06e-03
##	2225	-3.09e-02	1.67e-02	-1.48e-02	-3.53e-02	2.30e-02	-5.73e-03	2.27e-02
##	2226	5.95e-04	-1.05e-03	-1.90e-04	4.96e-04	8.72e-04	-8.56e-04	-4.71e-04
##	2227	2.33e-02	-1.41e-02	1.06e-02	-6.00e-03	-3.19e-03	-1.75e-04	-1.78e-02
##	2228	4.74e-05	-1.04e-03	-2.19e-04	5.52e-04	8.22e-04	4.78e-04	-3.63e-04
##	2229	1.75e-03	1.53e-03	-4.88e-04	1.48e-03	5.81e-04	3.01e-03	-5.38e-04
##	2230	-4.13e-03	3.89e-03	6.45e-04	-2.85e-03	-3.37e-03	-4.26e-03	-5.93e-03
##	2231	9.21e-03	-5.13e-03	-1.33e-03	-1.44e-03	-5.79e-03	-8.46e-04	-9.23e-03
##	2232	-3.99e-02	1.96e-02	4.44e-02	1.27e-02	-6.20e-03	-1.87e-04	2.33e-02
##	2233	9.73e-04	9.31e-03	-3.80e-03	-5.53e-03	-1.10e-02	-6.08e-03	1.44e-02
##	2234	1.22e-02	-1.99e-02	-1.24e-02	6.80e-03	5.11e-03	2.06e-02	1.69e-02
##	2235	4.45e-03	2.40e-03	-7.30e-05	3.01e-04	2.22e-03	-3.25e-03	-5.61e-03
##	2236	-3.83e-03	2.29e-03	-6.56e-03	-1.03e-03	3.79e-03	1.29e-03	3.77e-03
##	2237	3.74e-04	-4.43e-04	-4.15e-05	-8.25e-05	-4.18e-04	3.82e-04	-5.46e-04
##	2238	1.30e-03	1.63e-03	-1.35e-04	-6.73e-04	-1.63e-03	1.74e-03	-2.41e-03
##	2239	-2.05e-03	-1.21e-02	1.80e-02	-9.09e-03	5.30e-03	1.03e-03	-2.01e-03
##	2240	-2.04e-02	2.64e-02	6.53e-03	-2.03e-02	-1.35e-02	-1.50e-02	5.02e-02
##	2241	-3.20e-03	-2.74e-03	-2.10e-03	-2.53e-03	3.27e-03	-3.76e-03	1.07e-03
##	2242	-2.46e-02	9.41e-03	5.49e-03	8.25e-03	1.31e-02	-7.35e-03	1.11e-02
##	2243	1.54e-04	5.25e-04	2.44e-05	-4.35e-04	-3.61e-04	-8.37e-05	-1.59e-04
##	2244	7.20e-03	7.59e-03	-2.24e-03	-3.93e-03	-9.00e-03	-3.05e-05	-1.39e-02
##	2245	6.33e-03	-1.22e-02	-2.43e-03	4.68e-03	4.37e-03	7.87e-03	-7.22e-03
##	2246	2.10e-03	-3.13e-03	-2.39e-04	1.54e-03	1.91e-03	-4.01e-03	-6.31e-07
##	2247	1.64e-02	1.41e-02	-7.06e-03	7.22e-03	4.26e-03	5.59e-03	-1.33e-02
##	2248	-1.91e-03	2.26e-03	1.09e-04	3.11e-04	2.21e-03	-5.62e-03	-6.57e-04
##	2249	-4.58e-04	-5.57e-03	-1.45e-02	4.29e-03	-6.05e-03	-8.05e-04	-5.66e-04
##	2250	9.10e-05	-1.67e-04	-3.42e-04	1.12e-04	-1.32e-04	1.84e-04	-3.63e-05
##	2251	-1.98e-03	-9.80e-03	2.52e-03	1.30e-02	-1.94e-02	-4.14e-03	-2.79e-03
##	2252	3.08e-03	-2.39e-03	1.24e-03	4.06e-03	-4.88e-03	-6.45e-04	-7.99e-04
##	2253	7.14e-04	-2.57e-03	-8.94e-04	2.95e-03	5.72e-04	1.58e-03	-4.03e-03
##	2254	3.09e-04	-2.19e-04	6.20e-05	-2.57e-04	-1.10e-04	-4.12e-04	7.12e-06
##	2255	-1.33e-03	-3.12e-03	2.70e-04	1.16e-03	2.37e-03	-6.81e-03	6.24e-04
##	2256	5.50e-03	1.67e-02	7.49e-03	-5.87e-03	-4.42e-03	-6.12e-03	-1.82e-02
##	2257	-2.87e-03	-8.80e-03	-8.05e-03	-1.19e-02	9.96e-03	8.11e-03	-1.31e-02
##	2258	7.34e-03	1.10e-02	7.81e-03	-3.91e-03	-2.91e-03	-2.34e-03	-1.11e-02
##	2259	-4.45e-02	1.42e-02	8.86e-03	-7.89e-03	-4.72e-03	-1.45e-02	-9.93e-03
##	2260	2.55e-04	8.71e-04	-4.72e-04	1.22e-03	2.22e-04	-1.00e-03	8.73e-05
##	2261	-1.78e-02	-1.24e-02	9.11e-03	-6.30e-03	-2.26e-03	-1.62e-02	1.03e-02
##	2262	3.89e-03	7.36e-03	1.51e-02	-6.88e-03	5.15e-03	-3.57e-03	9.15e-03
##	2263	1.03e-04	-1.53e-04	-1.27e-04	-1.46e-04	2.09e-04	-2.51e-04	2.35e-05
##	2264	4.14e-04	-1.02e-03	-1.66e-04	9.05e-04	6.66e-04	-7.49e-05	2.57e-04
##	2265	2.79e-02	1.45e-02	8.48e-03	-4.01e-03	-3.94e-03	-9.52e-04	-1.80e-02
##	2266	2.51e-03	9.43e-03	-2.04e-02	-6.65e-03	3.00e-03	-4.10e-03	-7.58e-03
##	2267	-1.66e-02	-1.77e-02	3.36e-02	2.01e-02	-8.22e-03	1.29e-02	2.03e-02
##	2268	2.54e-03	1.08e-02	9.37e-04	1.68e-02	-2.62e-02	-8.72e-03	-6.94e-03
##	2269	1.03e-03	1.77e-03	-6.74e-04	-3.06e-03	2.92e-03	-3.67e-04	1.34e-04

##	2270	-2.20e-02	-1.92e-02	5.62e-03	1.20e-02	2.28e-02	-1.58e-02	-1.91e-02
##	2271	7.80e-03	-1.18e-02	6.91e-03	1.10e-02	1.51e-02	6.42e-03	5.00e-03
##	2272	4.84e-03	-1.35e-02	2.52e-02	-1.43e-02	7.34e-03	7.80e-03	-6.40e-03
##	2273	-2.09e-02	-2.36e-02	2.23e-02	-3.21e-02	7.75e-04	-1.68e-02	9.26e-03
##	2274	3.11e-03	-1.15e-02	2.99e-02	7.60e-03	-1.61e-03	-7.13e-03	-7.25e-03
##	2275	-2.00e-04	1.27e-03	3.18e-03	2.02e-03	2.55e-06	3.05e-03	-1.71e-03
##	2276	1.84e-02	-2.09e-02	4.91e-02	1.78e-02	-8.61e-03	9.92e-03	-1.95e-02
##	2277	-2.12e-02	1.82e-02	1.15e-02	-1.13e-02	-2.92e-03	9.18e-04	4.09e-02
##	2278	1.69e-03	-1.91e-02	-4.44e-02	-8.46e-03	4.65e-02	4.25e-03	4.93e-03
##	2279	2.12e-02	-1.19e-02	8.76e-03	-3.36e-03	-3.13e-03	-1.21e-04	-1.48e-02
##	2280	1.75e-03	8.13e-03	2.23e-03	1.26e-02	-1.82e-02	-7.93e-04	-4.15e-03
##	2281	5.99e-03	-2.31e-02	2.58e-02	2.96e-02	-2.65e-02	-1.36e-02	4.01e-03
##	2282	1.92e-02	1.30e-02	2.99e-02	-2.19e-02	1.01e-02	-5.19e-03	-1.10e-02
##	2283	6.64e-03	-2.77e-02	-5.47e-02	1.87e-02	-1.99e-02	4.29e-02	4.73e-04
##	2284	-3.53e-03	-1.94e-02	-1.46e-02	7.41e-03	6.10e-03	1.25e-02	1.81e-02
##	2285	3.49e-04	5.43e-04	9.16e-05	-8.35e-05	6.13e-04	3.53e-04	-1.59e-04
##	2286	-2.10e-02	1.65e-02	1.53e-02	3.09e-02	-2.12e-02	1.44e-02	-1.76e-02
##	2287	3.66e-03	9.25e-03	7.94e-03	-4.15e-03	-2.02e-03	-1.82e-03	5.52e-03
##	2288	-2.49e-03	1.63e-03	-1.49e-04	1.49e-04	1.66e-03	1.06e-03	2.59e-03
##	2289	-5.36e-04	-2.52e-03	1.43e-03	2.54e-03	-3.71e-03	1.22e-03	3.61e-03
##	2290	-1.17e-02	-1.08e-02	9.77e-03	-6.23e-03	-1.71e-03	-9.52e-03	9.31e-03
##	2291	2.53e-02	-1.68e-02	1.02e-02	-4.35e-03	-5.59e-03	3.40e-02	-2.68e-02
##	2292	-1.73e-02	1.18e-02	3.31e-02	7.01e-03	-1.72e-03	-1.38e-02	-5.78e-03
##	2293	-4.70e-03	2.52e-02	2.23e-02	3.06e-02	-3.07e-02	6.14e-03	2.39e-03
##	2294	-1.08e-02	3.94e-03	-2.43e-03	4.19e-04	-5.70e-03	-1.95e-03	2.22e-03
##	2295	9.56e-04	6.71e-04	9.98e-05	-6.60e-04	-4.24e-04	-1.05e-04	-1.95e-04
##	2296	-1.94e-02	2.17e-02	1.28e-02	3.27e-03	2.90e-02	1.44e-02	4.29e-03
##	2297	9.88e-03	-1.84e-02	-1.91e-02	-3.89e-02	2.37e-02	5.22e-03	-1.10e-02
##	2298	-3.71e-03	-3.19e-03	1.53e-04	-2.97e-04	3.54e-03	9.27e-04	4.84e-03
##	2299	-6.03e-03	-2.17e-02	6.05e-03	-6.16e-03	-9.57e-03	1.70e-02	1.28e-02
##	2300	-1.73e-03	4.58e-03	-4.51e-03	-4.84e-03	5.70e-03	-1.55e-03	7.66e-03
##	2301	1.61e-02	1.55e-02	-1.12e-02	-5.61e-03	-2.09e-02	-1.15e-03	-8.56e-03
##	2302	-2.34e-02	-1.89e-02	-1.32e-02	6.25e-03	4.17e-03	-2.84e-03	2.19e-02
##	2303	8.65e-03	-9.32e-03	9.73e-04	-8.67e-03	-8.71e-03	-5.00e-03	-3.79e-03
##	2304	1.14e-03	1.89e-03	-1.01e-03	3.26e-04	-2.56e-03	-8.74e-04	3.04e-03
##	2305	-1.51e-02	6.31e-03	-3.70e-03	7.64e-03	2.05e-03	-5.06e-03	2.48e-03
##	2306	-6.81e-04	-1.35e-03	4.73e-04	-1.76e-03	-5.92e-04	-1.29e-03	-2.24e-03
##	2307	1.32e-02	-9.35e-03	2.32e-02	4.51e-04	-1.79e-02	6.22e-03	1.01e-02
##	2308	1.14e-04	3.07e-03	-2.57e-04	1.51e-03	2.05e-03	-2.16e-03	8.12e-06
##	2309	4.73e-03	1.05e-02	-4.88e-03	-2.71e-03	-1.44e-02	-3.24e-03	-2.75e-03
##	2310	-6.50e-03	3.57e-03	3.04e-04	-6.65e-04	4.16e-03	2.89e-03	4.96e-03
##	2311	8.48e-03	7.53e-03	-1.01e-03	-3.29e-03	-8.69e-03	-3.62e-03	-1.44e-02
##	2312	5.36e-03	5.78e-03	-9.50e-04	1.63e-03	3.20e-03	-6.65e-03	-1.48e-03
##	2313	-2.51e-06	-2.19e-04	7.63e-06	-6.65e-05	-1.79e-04	1.75e-04	-2.42e-04
##	2314	2.00e-04	2.65e-04	9.96e-05	-5.95e-05	3.04e-04	3.29e-04	-1.25e-04
##	2315	-1.09e-02	1.79e-02	-8.56e-03	-1.45e-02	-2.29e-02	8.74e-03	2.04e-02
##	2316	-3.83e-03	-2.23e-03	4.08e-05	-3.37e-05	2.26e-03	1.06e-03	3.61e-03
##	2317	4.33e-04	-1.02e-02	1.79e-02	1.62e-02	-5.68e-03	2.34e-03	-2.52e-03
##	2318	4.71e-04	1.97e-03	-7.34e-04	-3.93e-03	3.58e-03	-1.90e-03	-8.02e-04
##	2319	-9.58e-03	1.41e-02	1.35e-02	-1.24e-02	-4.05e-04	-6.17e-03	9.84e-03

##	2320	-5.58e-03	1.40e-02	-2.83e-02	2.25e-02	-9.45e-03	-1.74e-03	9.60e-03
##	2321	1.55e-02	-6.61e-03	-6.44e-05	-6.43e-03	-6.86e-03	-1.08e-02	-1.89e-03
##	2322	1.56e-04	-2.40e-03	-2.17e-03	-2.21e-03	2.65e-03	-1.44e-03	1.96e-04
##	2323	-2.48e-03	-1.79e-02	3.29e-02	-2.43e-02	1.16e-02	7.02e-03	1.83e-02
##	2324	2.16e-03	-1.72e-02	2.98e-02	-1.94e-02	9.42e-03	1.84e-03	-7.80e-03
##	2325	-7.09e-03	-5.77e-03	-3.69e-03	6.36e-03	9.35e-04	8.57e-04	8.50e-04
##	2326	5.24e-03	8.77e-03	-3.27e-03	-5.29e-03	-1.11e-02	3.21e-03	-1.82e-02
##	2327	8.05e-03	-6.27e-03	-3.71e-03	-1.13e-02	9.95e-03	-3.94e-03	-9.89e-03
##	2328	2.61e-03	-4.16e-03	-2.46e-03	-5.74e-03	6.04e-03	1.93e-03	-5.93e-04
##	2329	-1.62e-03	1.04e-03	1.48e-04	2.07e-04	1.28e-03	-1.38e-03	1.69e-03
##	2330	-1.10e-02	2.16e-02	3.75e-02	-3.19e-02	1.48e-02	-6.31e-03	-1.18e-02
##	2331	6.04e-03	1.06e-02	-3.47e-03	3.80e-03	4.34e-03	-1.21e-03	-6.54e-03
##	2332	1.76e-02	-1.62e-02	1.62e-02	2.97e-02	-1.98e-02	6.29e-03	-2.16e-02
##	2333	-1.75e-03	2.00e-02	-3.93e-02	-3.20e-02	9.23e-03	5.82e-03	7.16e-03
##	2334	7.59e-04	-3.95e-03	-1.60e-04	1.43e-04	3.47e-03	-1.11e-02	-2.09e-03
##	2335	1.87e-03	9.93e-03	-1.96e-02	-9.93e-03	4.42e-03	-4.58e-03	7.20e-03
##	2336	-1.38e-03	-4.16e-03	-1.01e-03	-1.07e-03	-4.64e-03	2.86e-03	7.27e-03
##	2337	-1.90e-04	6.80e-04	5.05e-04	6.79e-04	-9.71e-04	1.28e-03	-1.89e-04
##	2338	1.14e-02	-1.17e-02	-7.81e-03	1.08e-02	2.27e-03	7.18e-03	-4.75e-03
##	2339	-4.92e-03	-1.38e-02	-8.57e-03	-2.81e-02	1.84e-02	-1.25e-02	-4.59e-03
##	2340	-9.78e-03	-6.16e-03	1.76e-02	4.56e-03	6.85e-04	-9.84e-03	1.05e-02
##	2341	1.47e-02	-5.96e-03	1.34e-03	8.91e-03	-1.28e-02	-1.06e-02	-1.93e-03
##	2342	-4.31e-03	-3.93e-03	-2.34e-03	6.84e-04	-5.08e-03	-4.34e-03	1.56e-03
##	2343	4.79e-03	4.97e-03	4.21e-04	-4.51e-03	-4.44e-03	-9.58e-03	-8.25e-03
##	2344	-5.64e-04	2.05e-03	-8.49e-04	-3.34e-04	-2.76e-03	5.14e-03	3.88e-03
##	2345	2.63e-03	-1.46e-03	4.86e-04	-1.79e-04	1.90e-03	1.41e-03	-9.50e-04
##	2346	-6.96e-03	-2.14e-02	-1.80e-02	9.83e-03	4.71e-03	2.95e-03	-1.39e-02
##	2347	4.29e-04	3.42e-03	-3.55e-05	-3.59e-03	-2.10e-03	-3.75e-05	-8.12e-04
##	2348	1.25e-02	6.47e-03	-1.72e-03	2.40e-03	2.83e-03	-9.07e-03	-2.32e-03
##	2349	-1.86e-02	2.07e-02	-1.58e-02	7.23e-03	4.00e-03	4.34e-03	2.05e-02
##	2350	-3.16e-04	1.77e-03	6.05e-04	-1.66e-03	-1.28e-03	-4.45e-03	4.03e-04
##	2351	2.39e-03	-3.46e-03	2.31e-04	1.71e-04	3.34e-03	-1.20e-03	-1.26e-03
##	2352	-6.81e-03	6.20e-03	-3.92e-03	5.91e-03	1.53e-03	1.01e-02	-9.07e-04
##	2353	-1.20e-04	2.72e-04	1.94e-04	2.86e-04	-3.58e-04	-2.52e-04	4.16e-04
##	2354	-6.71e-05	1.61e-04	7.55e-05	2.24e-04	-2.50e-04	-3.35e-04	-3.29e-05
##	2355	2.01e-02	7.96e-03	-5.83e-03	-1.13e-02	1.03e-02	1.02e-03	-1.73e-02
##	2356	9.56e-04	-3.03e-03	-2.80e-04	5.76e-04	2.62e-03	-5.92e-03	-1.53e-03
##	2357	2.09e-02	2.33e-02	-3.69e-03	-2.88e-02	4.53e-02	1.46e-02	5.43e-03
##	2358	-2.44e-04	7.22e-03	-3.59e-03	-2.73e-03	-9.68e-03	1.35e-02	1.21e-02
##	2359	-7.75e-03	1.20e-02	-4.99e-03	3.22e-03	4.59e-03	-1.32e-02	-5.94e-03
##	2360	7.40e-03	1.78e-02	-1.91e-02	-3.15e-02	2.15e-02	3.15e-04	-1.19e-02
##	2361	2.34e-03	1.67e-02	3.75e-02	1.55e-02	-5.36e-03	4.75e-03	-1.16e-02
##	2362	1.56e-02	1.12e-02	-2.44e-02	-6.68e-03	3.52e-03	3.76e-03	-1.18e-02
##	2363	-1.99e-03	1.10e-02	8.05e-03	-4.56e-03	-2.57e-03	-2.86e-03	-9.42e-03
##	2364	1.31e-04	-3.14e-04	-2.68e-04	-2.96e-04	4.17e-04	-6.27e-04	1.08e-04
##	2365	-4.60e-04	2.98e-04	-1.31e-04	4.05e-04	8.62e-05	-2.80e-04	1.08e-04
##	2366	1.46e-04	2.21e-04	-1.62e-04	-1.97e-04	2.78e-04	-3.68e-04	9.91e-06
##	2367	2.14e-02	-9.33e-03	-3.52e-03	3.13e-03	4.01e-03	-1.64e-02	-1.90e-02
##	2368	-5.24e-03	-5.06e-03	-2.10e-04	-6.49e-04	5.27e-03	1.43e-03	7.34e-03
##	2369	8.51e-05	1.38e-04	1.10e-05	2.09e-05	1.51e-04	-2.23e-04	-3.27e-05

##	2370	5.70e-03	5.62e-03	-7.94e-04	1.43e-03	3.16e-03	-7.85e-03	-1.80e-03
##	2371	8.08e-05	-2.55e-04	5.91e-04	-1.80e-04	2.12e-04	-4.42e-04	4.50e-04
##	2372	-3.26e-03	1.12e-02	-3.79e-03	4.97e-03	6.11e-03	-8.85e-03	-4.64e-03
##	2373	1.26e-03	2.84e-03	-3.92e-05	6.00e-03	-6.60e-03	4.83e-03	-6.14e-04
##	2374	2.73e-02	1.92e-02	1.95e-02	3.01e-02	-2.15e-02	-1.15e-02	-2.79e-02
##	2375	-1.02e-02	-1.61e-02	-2.68e-02	1.83e-02	-9.71e-03	2.00e-03	9.70e-03
##	2376	9.14e-03	7.83e-03	-5.15e-03	-5.15e-04	-1.16e-02	2.53e-03	-1.98e-03
##	2377	4.97e-04	3.60e-03	-1.67e-04	1.42e-03	2.45e-03	-4.74e-03	-2.17e-04
##	2378	-1.36e-03	-3.21e-03	-6.63e-04	2.12e-03	1.83e-03	-3.03e-05	5.86e-03
##	2379	-1.38e-02	1.03e-02	-4.87e-03	-8.95e-03	-1.42e-02	-5.63e-03	1.96e-02
##	2380	-7.03e-03	1.41e-02	2.35e-02	-1.50e-02	6.61e-03	2.80e-03	-4.57e-03
##	2381	-1.10e-02	-1.20e-02	-1.50e-04	1.53e-02	-2.39e-02	-1.37e-02	1.67e-02
##	2382	-2.27e-03	-5.02e-03	-1.08e-03	-2.16e-03	-5.32e-03	6.62e-03	-2.83e-04
##	2383	1.73e-02	2.25e-02	-1.78e-02	1.10e-02	5.42e-03	2.10e-02	-2.04e-02
##	2384	3.03e-03	-1.51e-02	-6.74e-03	4.48e-03	4.24e-03	-9.03e-03	-8.95e-03
##	2385	-2.53e-03	-2.68e-03	1.81e-04	-2.59e-04	3.51e-03	-1.25e-03	4.39e-03
##	2386	3.26e-03	-3.29e-03	6.44e-04	-2.93e-03	-2.80e-03	-6.29e-03	1.04e-04
##	2387	3.74e-03	1.49e-02	-8.21e-03	6.68e-03	5.22e-03	-5.75e-03	-3.41e-02
##	2388	-1.46e-03	1.86e-02	-1.68e-02	1.32e-02	2.56e-03	7.20e-03	-1.08e-02
##	2389	-1.30e-02	1.83e-02	9.10e-03	6.38e-03	2.33e-02	9.90e-04	7.39e-03
##	2390	-1.19e-02	5.34e-03	-5.35e-03	7.60e-03	7.56e-04	3.00e-03	1.56e-03
##	2391	-1.49e-02	-1.73e-02	3.15e-02	-2.11e-02	1.24e-02	-8.73e-03	-5.06e-03
##	2392	-5.28e-03	-1.03e-02	2.19e-02	-1.29e-02	9.04e-03	-6.00e-03	-1.64e-03
##	2393	1.69e-03	-9.89e-03	7.15e-03	-3.42e-03	-2.41e-03	-4.98e-03	-6.91e-03
##	2394	-2.51e-03	-1.36e-02	-4.56e-03	-1.34e-02	-1.49e-02	-2.14e-02	1.89e-02
##	2395	1.87e-02	-1.53e-02	-1.43e-02	-2.88e-02	1.96e-02	-1.42e-02	1.70e-02
##	2396	1.75e-02	-1.14e-02	9.29e-04	2.00e-02	-2.82e-02	9.05e-03	1.08e-02
##	2397	6.20e-03	9.39e-03	3.01e-02	1.70e-02	-2.61e-02	-6.66e-04	-6.07e-03
##	2398	5.30e-03	4.49e-03	1.56e-03	6.87e-03	-9.77e-03	-4.47e-03	-1.15e-03
##	2399	-7.29e-03	3.03e-03	1.71e-03	3.30e-03	-4.29e-03	-1.49e-03	5.88e-04
##	2400	3.35e-03	-9.03e-03	-4.81e-03	-2.50e-03	-1.13e-02	-3.93e-03	-7.61e-04
##	2401	-1.16e-02	1.16e-02	6.27e-03	8.99e-03	1.55e-02	-6.71e-03	-8.92e-03
##	2402	-5.72e-03	9.61e-03	8.29e-03	-4.41e-03	-2.50e-03	-8.04e-03	-8.03e-03
##	2403	1.28e-02	1.26e-02	1.21e-02	2.65e-02	-1.63e-02	5.66e-03	-1.57e-02
##	2404	2.55e-04	8.61e-04	-1.36e-04	3.49e-04	6.55e-04	-6.75e-04	-3.68e-04
##	2405	1.13e-02	8.67e-03	-1.78e-03	-5.02e-03	-9.50e-03	-2.30e-03	1.12e-02
##	2406	-1.32e-02	-1.16e-02	-1.28e-02	-1.66e-02	1.34e-02	7.07e-03	-1.19e-05
##	2407	-6.04e-05	-8.86e-05	-2.32e-05	-2.18e-04	1.96e-04	-1.44e-05	1.49e-04
##	2408	3.81e-02	2.92e-02	1.59e-02	4.65e-02	-4.23e-02	-2.37e-02	-5.18e-02
##	2409	-1.06e-03	6.21e-03	1.28e-03	-5.13e-03	-5.13e-03	-1.23e-02	9.95e-03
##	2410	5.87e-03	-3.50e-03	-1.72e-03	-6.58e-03	5.89e-03	-3.46e-03	-5.72e-05
##	2411	-1.17e-03	1.51e-02	-3.12e-02	7.58e-05	2.96e-02	-3.82e-03	6.15e-03
##	2412	-3.33e-03	1.75e-02	-1.44e-02	1.50e-02	3.09e-03	-6.13e-03	-7.79e-03
##	2413	-6.53e-03	8.76e-03	-3.25e-03	2.78e-03	3.69e-03	-5.70e-03	1.36e-02
##	2414	2.43e-03	-1.60e-02	3.20e-02	1.81e-02	-7.62e-03	-3.33e-04	-8.39e-03
##	2415	-6.12e-04	-5.73e-03	-1.55e-04	2.59e-03	2.71e-03	-5.88e-03	-1.74e-03
##	2416	1.11e-03	1.06e-02	-1.53e-03	-9.97e-03	-1.10e-02	-1.56e-02	1.50e-02
##	2417	-3.71e-03	6.33e-03	-6.25e-03	8.61e-03	2.69e-04	1.88e-02	1.10e-02
##	2418	-3.36e-02	2.03e-02	4.51e-02	1.20e-02	-5.99e-03	-7.14e-03	2.14e-02
##	2419	9.10e-04	-3.42e-03	-2.55e-04	1.62e-03	2.04e-03	-2.24e-03	5.86e-05

##	2420	3.12e-04	2.41e-02	1.90e-02	-3.50e-02	-6.61e-03	3.90e-02	-3.36e-03
##	2421	7.80e-03	5.28e-03	-1.86e-03	3.08e-03	2.30e-03	3.01e-03	-1.41e-03
##	2422	5.35e-03	-1.14e-02	-1.04e-02	-2.14e-02	1.50e-02	-8.99e-03	1.56e-02
##	2423	2.43e-02	-1.65e-02	9.49e-03	-4.83e-03	-5.42e-03	2.44e-02	-2.54e-02
##	2424	-9.94e-03	-1.63e-02	8.81e-03	-3.63e-02	4.33e-02	-5.76e-03	9.13e-03
##	2425	-3.19e-03	5.06e-03	9.90e-03	-4.65e-03	3.91e-03	3.89e-04	7.35e-03
##	2426	-5.60e-03	4.20e-03	-6.59e-04	3.16e-03	2.61e-03	-1.59e-03	-2.58e-05
##	2427	2.83e-02	-1.49e-02	-3.83e-02	-8.63e-03	3.65e-03	2.88e-02	-2.23e-02
##	2428	2.01e-03	-3.50e-03	8.01e-03	-3.93e-03	3.49e-03	4.23e-03	-5.18e-03
##	2429	-2.66e-03	8.47e-03	-1.36e-03	3.33e-03	4.28e-03	-5.33e-03	1.23e-02
##	2430	8.60e-03	-5.47e-03	5.08e-04	-5.30e-03	-5.14e-03	-7.71e-03	-1.06e-03
##	2431	1.20e-02	-1.23e-02	3.64e-04	1.92e-02	-2.60e-02	4.72e-04	-7.41e-03
##	2432	-1.06e-02	-1.32e-02	2.95e-02	1.40e-02	-4.61e-03	9.56e-03	1.63e-02
##	2433	8.91e-03	-7.95e-03	-2.19e-03	3.40e-03	3.75e-03	2.47e-04	-4.68e-03
##	2434	-2.73e-02	1.11e-02	8.14e-03	-7.07e-03	-3.18e-03	-8.37e-03	1.18e-02
##	2435	1.96e-03	1.88e-03	2.72e-04	-1.43e-03	-1.64e-03	-2.86e-03	1.18e-04
##	2436	7.46e-03	3.56e-03	-4.77e-04	-2.20e-03	-3.92e-03	2.12e-03	-6.84e-04
##	2437	-3.48e-02	-2.21e-02	4.86e-02	1.34e-02	-4.89e-03	8.03e-03	2.24e-02
##	2438	6.93e-03	-8.76e-03	-1.79e-02	-6.60e-03	2.73e-03	-1.03e-03	6.18e-03
##	2439	-6.51e-05	-1.66e-04	-6.67e-05	4.23e-05	-1.98e-04	-2.49e-04	5.59e-05
##	2440	-3.58e-03	1.27e-02	-2.46e-02	-1.47e-02	5.79e-03	-5.44e-03	8.73e-03
##	2441	-1.17e-02	-1.11e-02	-3.71e-03	-6.64e-03	-1.30e-02	8.19e-03	1.61e-02
##	2442	-4.04e-03	1.25e-02	1.19e-02	-8.55e-03	-2.64e-03	-4.90e-03	7.69e-03
##	2443	-1.58e-02	1.74e-02	-1.30e-02	7.44e-03	3.67e-03	4.01e-03	1.83e-02
##	2444	-1.20e-02	8.93e-03	-1.84e-02	-8.95e-03	3.80e-03	-6.36e-03	9.93e-03
##	2445	1.51e-02	1.12e-02	-2.40e-03	-8.98e-03	-1.35e-02	-7.04e-03	-7.51e-03
##	2446	4.87e-05	-2.74e-04	-8.55e-05	6.38e-05	-3.58e-04	-4.89e-04	1.04e-04
##	2447	-2.60e-03	-2.02e-02	8.33e-03	8.65e-03	2.11e-02	4.48e-04	4.66e-03
##	2448	1.60e-02	-1.23e-02	-2.50e-02	-1.05e-02	4.77e-03	3.35e-03	5.90e-03
##	2449	-2.36e-02	-2.19e-02	4.54e-02	1.53e-02	-7.97e-03	-7.37e-03	-1.24e-02
##	2450	6.67e-04	1.56e-03	4.41e-04	-1.92e-03	-8.87e-04	-4.13e-03	1.74e-03
##	2451	-1.03e-02	1.31e-02	8.63e-03	-4.86e-03	-3.43e-03	-1.08e-02	-1.19e-02
##	2452	-2.11e-05	1.03e-04	5.27e-06	-3.88e-05	-8.91e-05	6.97e-05	-1.31e-04
##	2453	-1.09e-02	8.53e-03	1.70e-02	-8.68e-03	6.66e-03	-4.99e-04	1.34e-02
##	2454	-7.02e-03	1.07e-02	2.05e-02	-9.29e-03	8.50e-03	-1.37e-02	-9.48e-04
##	2455	1.19e-02	6.81e-03	-1.85e-03	2.43e-03	3.06e-03	-8.21e-03	-2.27e-03
##	2456	3.31e-04	1.34e-03	-2.11e-04	4.97e-04	1.02e-03	-1.44e-03	-5.15e-04
##	2457	-7.25e-04	1.87e-03	5.77e-04	-2.25e-03	-8.92e-04	-6.38e-03	-4.31e-04
##	2458	2.50e-02	1.04e-02	2.49e-03	1.33e-02	-1.98e-02	-1.37e-03	-7.42e-03
##	2459	-7.67e-04	2.27e-02	-2.47e-02	-3.99e-02	2.49e-02	-8.40e-03	-1.10e-02
##	2460	1.04e-02	1.02e-02	8.76e-03	-3.80e-03	-1.85e-03	2.27e-03	3.89e-03
##	2461	7.29e-03	-1.65e-02	1.06e-02	-5.23e-03	-4.06e-03	3.10e-02	-2.18e-02
##	2462	1.56e-03	-2.16e-03	-2.40e-04	5.81e-04	1.89e-03	-4.95e-03	-1.16e-03
##	2463	-4.17e-03	9.24e-03	-4.36e-03	-2.30e-03	-1.29e-02	-2.73e-03	-8.35e-04
##	2464	-1.32e-02	-1.61e-02	1.39e-02	3.24e-02	-2.20e-02	1.66e-02	-1.57e-02
##	2465	4.46e-04	-2.48e-03	-2.94e-04	1.50e-03	1.42e-03	7.77e-04	1.48e-04
##	2466	1.41e-04	-2.47e-04	-1.58e-04	-2.97e-04	4.05e-04	4.46e-04	-3.05e-04
##	2467	-1.13e-02	1.93e-02	2.51e-02	2.42e-02	-2.08e-02	-4.79e-03	6.86e-03
##	2468	7.25e-04	-5.12e-03	2.01e-03	5.72e-03	-8.00e-03	-1.34e-03	6.33e-03
##	2469	8.07e-03	-5.26e-03	4.12e-04	-4.89e-03	-4.97e-03	-6.03e-03	-9.06e-04

##	2470	9.92e-03	-1.42e-02	-1.47e-02	1.55e-02	-1.01e-04	1.04e-02	-6.64e-03
##	2471	-9.74e-04	-9.38e-04	-2.72e-04	1.03e-03	3.86e-04	-1.98e-04	1.63e-03
##	2472	-2.86e-03	-3.51e-03	1.38e-03	3.99e-03	-5.50e-03	-9.68e-04	7.97e-05
##	2473	-6.16e-03	2.03e-02	-1.30e-02	6.80e-03	5.35e-03	1.32e-02	1.88e-02
##	2474	-1.49e-02	9.81e-03	-3.28e-03	2.97e-03	4.46e-03	-7.03e-03	-3.78e-03
##	2475	-6.09e-04	-9.72e-04	1.77e-05	1.54e-04	9.43e-04	3.48e-04	1.30e-03
##	2476	9.07e-03	-1.80e-02	-2.97e-02	1.60e-02	-8.70e-03	1.43e-03	5.01e-03
##	2477	-7.47e-05	5.28e-04	1.23e-03	-4.90e-04	5.84e-04	5.66e-04	-6.54e-04
##	2478	-1.58e-03	-1.31e-02	-8.19e-03	-2.72e-02	1.78e-02	-1.59e-02	-5.12e-03
##	2479	-2.08e-02	-2.03e-02	-4.55e-02	-1.62e-03	3.84e-02	-8.86e-03	9.14e-03
##	2480	5.76e-03	4.26e-03	2.11e-04	-4.10e-03	-4.42e-03	-3.03e-03	-6.23e-04
##	2481	6.14e-03	1.34e-02	1.16e-02	-7.77e-03	-1.50e-03	-4.13e-03	6.38e-03
##	2482	-6.32e-03	-1.36e-02	-5.73e-03	-7.50e-03	-1.78e-02	-2.78e-03	-1.06e-03
##	2483	3.16e-03	3.34e-03	-4.59e-04	1.80e-03	1.47e-03	1.50e-03	-1.12e-03
##	2484	-6.72e-03	-2.36e-02	8.44e-03	-1.64e-02	-6.78e-03	-2.69e-02	1.05e-02
##	2485	-4.76e-03	2.34e-03	3.69e-04	-3.96e-05	2.85e-03	-2.01e-03	4.00e-03
##	2486	-2.09e-02	9.10e-03	2.41e-04	1.99e-02	-2.11e-02	-3.38e-03	1.65e-03
##	2487	3.26e-03	-2.26e-03	-1.28e-03	-3.58e-03	3.31e-03	3.48e-03	-6.76e-05
##	2488	-2.74e-02	-2.08e-02	1.24e-02	3.88e-02	-2.82e-02	3.49e-03	-2.25e-02
##	2489	1.29e-02	-1.96e-02	-2.52e-02	-4.19e-02	2.64e-02	3.08e-03	-1.40e-02
##	2490	3.90e-02	-1.77e-02	1.61e-02	-1.57e-02	-2.44e-03	-8.94e-03	4.62e-04
##	2491	3.54e-03	-2.70e-03	-1.42e-03	-4.50e-03	4.34e-03	9.94e-04	1.43e-04
##	2492	-4.88e-04	1.36e-03	5.36e-05	7.19e-04	1.02e-03	-2.40e-03	2.76e-04
##	2493	8.61e-03	-5.96e-03	-2.28e-03	-1.25e-02	9.26e-03	-8.44e-03	-1.41e-03
##	2494	4.89e-03	6.56e-03	-3.71e-03	-1.22e-02	9.33e-03	3.93e-03	-2.88e-03
##	2495	3.59e-04	1.72e-03	4.50e-04	3.72e-03	-3.70e-03	1.62e-03	-4.42e-04
##	2496	6.14e-05	1.97e-04	2.57e-05	-6.34e-05	-2.16e-04	9.62e-05	2.90e-06
##	2497	2.01e-03	-3.29e-03	-1.65e-04	2.64e-04	2.96e-03	-1.09e-02	-1.88e-03
##	2498	-8.71e-05	2.19e-04	9.31e-05	-2.70e-04	-9.24e-05	-6.51e-04	2.74e-04
##	2499	-2.95e-04	-3.80e-04	-9.33e-06	1.60e-04	3.63e-04	-3.17e-04	-8.63e-05
##	2500	1.06e-02	-1.54e-02	9.07e-03	-4.82e-03	-4.73e-03	-3.17e-04	-1.67e-02
##	2501	3.62e-03	-2.12e-03	-4.20e-05	-1.14e-03	-2.14e-03	-2.06e-04	1.37e-04
##	2502	-1.59e-05	5.61e-04	-1.34e-03	4.51e-04	-6.17e-04	-1.13e-03	6.97e-04
##	2503	-2.09e-05	-1.52e-04	9.61e-05	1.76e-04	-2.47e-04	-3.46e-04	1.87e-04
##	2504	-1.51e-03	-4.47e-03	-2.87e-03	6.04e-03	8.82e-04	-5.25e-03	5.15e-04
##	2505	-3.03e-04	4.22e-04	2.86e-04	4.77e-04	-6.92e-04	-8.78e-04	5.18e-04
##	2506	1.39e-02	-1.08e-02	8.88e-03	-3.59e-03	-2.46e-03	1.31e-03	5.58e-03
##	2507	-8.60e-03	1.20e-02	2.41e-02	-1.46e-02	9.44e-03	-6.28e-03	1.50e-02
##	2508	9.86e-03	-4.65e-03	-1.85e-03	-8.88e-03	7.52e-03	-2.87e-03	-2.43e-03
##	2509	1.05e-03	-1.84e-03	-2.99e-04	6.99e-04	1.56e-03	-2.69e-03	-7.97e-04
##	2510	1.65e-03	1.25e-02	-2.46e-02	-1.30e-02	5.77e-03	-6.12e-03	7.98e-03
##	2511	1.21e-03	-1.81e-03	-1.06e-03	2.72e-03	5.06e-04	-2.78e-03	1.43e-04
##	2512	1.87e-03	8.41e-03	-1.67e-02	-7.94e-03	3.72e-03	-3.55e-03	5.84e-03
##	2513	1.48e-02	-1.22e-02	-2.61e-02	-7.45e-03	3.65e-03	8.90e-03	-1.21e-02
##	2514	1.33e-02	1.96e-02	-1.80e-02	1.42e-02	2.49e-03	4.59e-03	-1.27e-02
##	2515	6.90e-03	2.36e-02	-2.49e-02	-4.48e-02	2.90e-02	3.45e-03	-1.63e-02
##	2516	1.44e-03	-1.10e-03	3.31e-04	-5.25e-04	-9.44e-04	-6.03e-05	-2.78e-04
##	2517	1.26e-02	-1.45e-02	-2.41e-02	1.80e-02	-7.78e-03	4.50e-04	4.82e-03
##	2518	4.88e-03	4.66e-03	-9.56e-04	-1.08e-03	-6.24e-03	4.69e-03	-9.70e-03
##	2519	-1.06e-04	1.56e-03	-2.33e-04	5.55e-04	1.26e-03	-1.02e-03	-6.60e-04

##	2520	2.81e-03	-3.94e-03	-1.23e-03	-9.94e-03	8.07e-03	-1.25e-02	-2.10e-03
##	2521	3.64e-04	-7.71e-04	2.42e-04	-7.90e-05	9.10e-04	7.20e-04	-2.80e-04
##	2522	-2.56e-02	-2.50e-02	3.42e-03	-6.02e-03	-1.41e-02	3.69e-02	8.16e-03
##	2523	3.66e-03	1.08e-02	9.79e-03	-5.57e-03	-1.28e-03	-1.57e-03	6.89e-03
##	2524	5.20e-03	1.24e-02	9.39e-03	-6.10e-03	-2.84e-03	1.45e-03	-1.36e-02
##	2525	1.01e-02	-2.73e-02	-7.40e-02	-3.60e-02	3.89e-03	-1.79e-02	1.03e-02
##	2526	2.25e-02	-1.88e-02	-1.18e-02	8.80e-03	3.73e-03	2.33e-02	1.35e-02
##	2527	-3.77e-05	6.36e-05	4.14e-05	7.31e-05	-1.04e-04	-1.46e-04	8.01e-05
##	2528	-1.33e-03	-1.22e-02	2.82e-02	1.56e-02	-4.67e-03	1.55e-04	1.50e-02
##	2529	-3.25e-03	1.77e-03	-3.73e-04	-3.82e-05	-1.88e-03	1.92e-03	4.12e-03
##	2530	9.80e-04	1.98e-03	-1.84e-03	-1.96e-03	2.23e-03	-1.06e-03	3.20e-04
##	2531	-1.68e-03	1.03e-03	-2.56e-03	7.42e-04	-9.71e-04	1.05e-03	1.71e-03
##	2532	-2.32e-02	-2.91e-02	7.07e-03	-1.93e-02	-1.57e-02	2.36e-02	4.43e-02
##	2533	4.73e-04	-2.04e-03	9.21e-04	-3.00e-03	-6.17e-04	2.95e-03	-3.84e-04
##	2534	-1.11e-02	6.33e-03	-1.58e-04	-3.96e-03	-6.32e-03	-4.07e-03	1.34e-02
##	2535	-2.56e-04	1.73e-03	8.19e-05	1.14e-04	1.55e-03	-2.97e-03	1.76e-03
##	2536	1.80e-04	-3.36e-04	-1.84e-04	5.10e-04	9.16e-05	-4.17e-04	9.67e-07
##	2537	-4.48e-04	-1.66e-03	-4.51e-04	1.71e-04	-1.77e-03	1.51e-03	3.06e-03
##	2538	-1.44e-03	6.81e-03	1.56e-03	1.38e-02	-1.61e-02	5.40e-03	-1.45e-03
##	2539	-1.76e-04	-1.39e-02	9.42e-03	-7.75e-03	-3.98e-03	-1.35e-02	9.63e-03
##	2540	1.68e-02	-1.08e-02	-6.04e-03	-2.05e-02	1.78e-02	-5.00e-03	-2.56e-02
##	2541	-2.14e-03	1.58e-03	-3.10e-05	1.30e-04	1.76e-03	-1.45e-03	-9.45e-06
##	2542	1.70e-02	-8.14e-03	-2.29e-03	5.61e-03	2.80e-03	6.23e-03	-5.10e-03
##	2543	5.64e-04	3.23e-04	4.53e-05	-2.91e-04	-2.04e-04	-3.73e-04	-6.65e-04
##	2544	-2.98e-02	1.89e-02	4.14e-02	1.34e-02	-6.19e-03	-6.17e-03	2.11e-02
##	2545	5.69e-03	5.80e-03	-8.61e-04	1.48e-03	3.25e-03	-7.86e-03	-1.70e-03
##	2546	6.98e-04	2.04e-03	-2.45e-04	5.51e-04	1.58e-03	-3.46e-03	-8.98e-04
##	2547	7.34e-03	-4.31e-03	-8.48e-04	1.98e-03	2.07e-03	-4.41e-03	-1.09e-03
##	2548	1.71e-03	-2.53e-03	-1.48e-03	-3.69e-03	3.91e-03	2.83e-03	-3.36e-03
##	2549	7.20e-03	7.01e-03	1.97e-02	4.00e-03	-6.35e-05	-1.18e-02	-3.03e-03
##	2550	-1.26e-03	-1.16e-02	-4.87e-03	5.54e-03	2.87e-03	3.83e-03	-5.14e-03
##	2551	1.07e-02	-1.16e-02	-3.81e-03	4.95e-03	5.09e-03	-1.15e-03	-7.25e-03
##	2552	-3.29e-03	1.06e-02	-1.20e-02	-1.53e-02	1.27e-02	9.73e-03	-2.30e-03
##	2553	-1.58e-02	1.02e-02	-3.47e-03	2.94e-03	4.62e-03	-7.22e-03	-3.61e-03
##	2554	2.12e-04	-1.87e-03	-2.93e-04	1.33e-03	1.03e-03	2.21e-03	1.73e-04
##	2555	1.98e-05	2.44e-04	-1.93e-04	-2.26e-04	3.16e-04	-3.99e-04	5.75e-05
##	2556	-5.42e-03	-2.17e-02	1.95e-02	-2.13e-02	-2.39e-03	-1.91e-02	7.91e-03
##	2557	-3.78e-04	-1.20e-03	-5.38e-04	2.44e-04	-1.42e-03	-1.45e-03	3.78e-04
##	2558	-2.40e-03	1.32e-03	-1.55e-04	-1.21e-04	-1.50e-03	1.05e-03	3.12e-03
##	2559	-3.22e-04	-1.29e-02	-2.63e-02	-1.40e-02	4.88e-03	-1.20e-02	1.02e-02
##	2560	-2.47e-02	-2.03e-02	6.94e-03	-1.27e-02	-7.23e-03	3.20e-03	4.31e-02
##	2561	6.28e-03	-4.12e-03	3.48e-04	-3.17e-03	-3.73e-03	-1.24e-02	-6.36e-03
##	2562	-5.96e-03	4.01e-03	-1.96e-04	-3.41e-04	4.30e-03	2.98e-03	5.78e-03
##	2563	8.04e-04	-2.09e-02	2.84e-02	2.59e-02	-2.41e-02	-1.02e-02	3.97e-03
##	2564	-2.72e-04	1.26e-03	4.04e-04	-1.09e-03	-9.32e-04	-2.45e-03	3.08e-04
##	2565	5.62e-05	1.94e-03	1.06e-03	2.14e-03	-3.17e-03	-4.29e-03	2.11e-03
##	2566	-3.87e-04	-1.41e-02	1.68e-02	2.18e-02	-1.58e-02	-1.24e-03	6.86e-03
##	2567	-5.26e-03	-8.68e-03	-1.69e-03	-2.59e-03	-9.93e-03	-5.77e-03	1.35e-02
##	2568	-3.14e-04	1.86e-03	1.05e-03	2.09e-03	-3.10e-03	-3.90e-03	2.08e-03
##	2569	-1.05e-03	1.76e-02	7.50e-03	-4.77e-03	-5.05e-03	7.44e-03	1.07e-02

##	2570	6.96e-03	-1.40e-02	-2.67e-02	-1.80e-02	7.37e-03	-1.28e-03	6.50e-03
##	2571	3.69e-03	-2.47e-03	-7.18e-04	1.85e-03	1.05e-03	2.73e-03	-3.84e-04
##	2572	1.14e-02	-7.51e-03	-4.08e-03	-1.10e-03	-1.11e-02	3.93e-04	1.03e-02
##	2573	-2.43e-03	6.91e-03	6.40e-03	-3.13e-03	-1.32e-03	-3.65e-03	6.12e-03
##	2574	-1.77e-02	1.71e-02	-4.12e-02	3.56e-03	3.23e-02	-1.60e-02	-1.46e-02
##	2575	7.61e-04	-1.19e-03	1.08e-04	-1.11e-03	-8.40e-04	-1.07e-03	-4.20e-04
##	2576	5.85e-03	-1.82e-02	4.59e-02	3.91e-02	-5.38e-02	1.43e-02	-9.16e-03
##	2577	5.94e-03	4.78e-03	-9.01e-04	1.87e-03	2.43e-03	-4.76e-03	-1.19e-03
##	2578	3.38e-02	-2.00e-02	-9.59e-03	3.63e-02	-4.99e-02	1.89e-02	-1.90e-02
##	2579	7.42e-04	1.76e-03	-5.07e-03	-2.50e-03	-2.93e-05	-1.91e-04	-9.45e-05
##	2580	4.00e-03	-2.98e-03	-2.33e-03	-3.93e-03	4.11e-03	4.41e-03	-7.17e-04
##	2581	-1.27e-04	-2.06e-04	-4.70e-06	1.49e-04	1.41e-04	4.65e-05	5.97e-05
##	2582	2.40e-03	-1.99e-03	-1.46e-04	-8.93e-04	-1.97e-03	4.20e-03	-4.25e-05
##	2583	5.90e-04	1.15e-03	4.21e-04	2.11e-03	-2.34e-03	-2.35e-04	9.80e-05
##	2584	-2.95e-03	-8.78e-03	-1.15e-03	2.60e-03	3.31e-03	-1.92e-03	-2.95e-03
##	2585	1.32e-02	-9.51e-03	-1.95e-02	-6.38e-03	3.26e-03	3.16e-03	4.95e-03
##	2586	5.13e-03	-1.41e-02	2.77e-02	-2.00e-02	9.70e-03	2.47e-03	1.35e-02
##	2587	4.19e-03	-1.20e-02	-9.53e-03	-9.12e-04	-1.72e-02	5.28e-03	-1.87e-03
##	2588	5.76e-03	-5.30e-03	-9.00e-04	1.99e-03	2.54e-03	-2.30e-03	-1.26e-03
##	2589	-3.21e-04	3.32e-03	-2.77e-04	4.81e-04	2.83e-03	-5.44e-03	-1.68e-03
##	2590	8.97e-04	-3.39e-03	-3.03e-03	-3.54e-03	4.40e-03	-5.72e-03	1.31e-04
##	2591	1.81e-04	-4.98e-04	-3.01e-04	-4.81e-04	6.49e-04	-1.53e-04	-6.97e-04
##	2592	4.89e-03	-8.55e-03	-9.76e-04	-5.77e-03	-8.55e-03	-6.17e-03	-2.94e-03
##	2593	1.36e-03	4.10e-03	-4.60e-03	-3.85e-03	4.88e-03	-3.34e-03	-8.91e-05
##	2594	-1.19e-02	-1.82e-02	-1.30e-02	7.77e-03	3.22e-03	3.60e-03	1.89e-02
##	2595	-3.74e-03	5.26e-03	8.64e-04	-7.13e-03	-2.31e-03	-3.98e-03	-6.54e-05
##	2596	-3.12e-02	-1.80e-02	-1.06e-02	5.39e-03	4.86e-03	-2.58e-03	2.21e-02
##	2597	-1.82e-04	-6.99e-04	-2.96e-04	1.14e-04	-9.26e-04	-8.58e-04	2.21e-04
##	2598	3.18e-03	-5.51e-03	-2.84e-03	2.19e-04	-7.51e-03	-3.63e-03	2.49e-04
##	2599	2.74e-06	-3.79e-05	-2.09e-05	5.63e-05	8.98e-06	-5.65e-05	7.53e-06
##	2600	3.44e-03	-1.65e-02	-1.46e-02	1.49e-02	1.02e-03	7.23e-03	-8.53e-03
##	2601	4.18e-04	-4.13e-03	-9.40e-05	1.83e-03	2.95e-03	-7.70e-03	4.33e-04
##	2602	9.98e-03	-1.30e-02	-1.10e-02	1.20e-02	3.11e-03	1.14e-02	-7.53e-03
##	2603	1.84e-02	-1.12e-02	-2.49e-02	-6.64e-03	3.29e-03	4.04e-03	-1.17e-02
##	2604	-1.04e-02	-2.31e-02	1.66e-03	2.30e-02	2.53e-02	2.63e-02	-3.44e-02
##	2605	-1.09e-02	-2.04e-02	2.83e-02	2.38e-02	-2.17e-02	-7.90e-03	6.67e-03
##	2606	2.66e-02	2.78e-02	3.90e-03	-4.76e-02	5.75e-02	-3.10e-02	-4.15e-02
##	2607	1.94e-02	-1.42e-02	1.41e-02	2.86e-02	-1.84e-02	3.61e-03	-1.84e-02
##	2608	2.63e-02	-1.07e-02	-1.52e-03	-8.36e-03	-1.28e-02	2.00e-03	-2.52e-02
##	2609	3.97e-03	1.07e-02	9.42e-03	-3.83e-03	-2.73e-03	-1.24e-03	6.51e-03
##	2610	5.05e-03	2.91e-02	1.24e-02	-9.29e-04	4.03e-02	5.42e-03	-8.62e-03
##	2611	-4.90e-03	3.29e-03	1.03e-03	-5.01e-03	-1.26e-03	2.12e-03	5.17e-03
##	2612	-2.94e-03	-2.04e-02	3.91e-03	1.94e-02	2.45e-02	2.86e-02	7.64e-03
##	2613	-4.28e-02	2.43e-02	5.43e-03	-5.96e-03	-1.14e-02	3.58e-02	9.53e-03
##	2614	1.01e-03	1.59e-03	2.02e-04	-1.16e-03	-1.45e-03	-7.47e-04	1.67e-04
##	2615	-2.32e-02	1.51e-02	-3.24e-02	-1.81e-02	7.27e-03	-1.21e-02	1.27e-02
##	2616	1.43e-02	7.70e-03	-1.24e-03	4.01e-03	3.21e-03	5.17e-03	-6.02e-03
##	2617	-8.80e-04	-2.00e-03	1.04e-03	2.23e-03	-3.00e-03	-4.04e-04	4.21e-05
##	2618	-1.26e-02	9.96e-03	2.84e-02	-3.24e-03	-1.80e-02	-7.15e-03	-1.79e-02
##	2619	-5.71e-03	-1.59e-02	-2.77e-03	2.56e-02	-3.74e-02	-1.90e-03	-5.56e-03

## 2620	1.61e-02	9.36e-03	-1.91e-03	-7.50e-03	-1.13e-02	3.57e-03	-2.03e-02
## 2621	-5.29e-03	7.92e-03	-7.47e-03	8.97e-03	9.07e-04	6.57e-03	1.19e-04
## 2622	-3.67e-04	-2.62e-03	-2.07e-03	-3.26e-03	3.67e-03	4.16e-03	4.57e-03
## 2623	5.94e-05	-1.98e-03	-3.00e-04	1.61e-03	1.32e-03	-1.28e-03	-2.61e-03
## 2624	1.27e-02	-1.33e-02	-6.31e-03	3.76e-03	5.89e-03	1.10e-02	1.30e-02
## 2625	2.79e-02	-1.45e-02	9.22e-03	-4.83e-03	-4.23e-03	4.36e-03	-1.89e-02
## 2626	-4.24e-03	2.37e-03	-1.69e-03	-2.75e-03	3.26e-03	-1.67e-03	1.25e-03
## 2627	-5.63e-03	-7.60e-03	-1.27e-02	1.15e-02	-4.89e-03	-2.72e-03	7.50e-03
## 2628	-2.35e-03	-2.87e-03	-1.07e-03	2.93e-03	1.10e-03	1.43e-03	-7.45e-05
## 2629	1.27e-03	-2.55e-03	-2.39e-03	-2.99e-03	3.49e-03	-2.09e-03	5.20e-04
## 2630	-6.94e-04	-1.35e-02	9.81e-03	2.75e-02	-1.77e-02	-3.28e-03	-1.23e-02
## 2631	4.40e-04	-5.05e-04	1.39e-04	-6.03e-04	-3.37e-04	-1.18e-03	6.25e-04
## 2632	1.05e-03	-1.85e-03	4.10e-03	-1.26e-03	1.49e-03	-3.44e-03	-7.73e-06
## 2633	-8.18e-04	-8.75e-04	1.31e-04	-4.23e-04	-7.90e-04	-5.39e-04	1.81e-03
## 2634	-8.67e-03	-2.55e-02	1.58e-02	-2.81e-02	-4.62e-03	2.06e-03	-3.29e-02
## 2635	-5.89e-03	-2.20e-02	1.09e-02	-1.34e-02	-7.44e-03	-5.54e-03	4.38e-02
## 2636	1.52e-02	1.42e-02	-9.05e-03	8.61e-03	1.94e-03	8.45e-03	1.18e-02
## 2637	9.49e-03	-7.33e-03	2.24e-02	4.78e-03	-2.20e-04	-2.12e-03	-5.01e-03
## 2638	1.00e-02	2.12e-02	2.30e-02	2.78e-02	-2.06e-02	-1.60e-02	-2.73e-02
## 2639	1.15e-02	1.59e-02	1.50e-02	-1.29e-02	-3.85e-04	-9.24e-03	5.75e-03
## 2640	-1.50e-03	-2.07e-02	1.39e-02	-1.12e-02	-6.12e-03	9.04e-03	-2.61e-02
## 2641	8.87e-03	-5.61e-03	-8.14e-04	1.63e-03	2.84e-03	-1.01e-02	-1.60e-03
## 2642	2.52e-04	1.03e-03	-2.50e-04	1.17e-03	4.65e-04	5.98e-05	-8.74e-05
## 2643	1.34e-02	-7.78e-03	-1.80e-03	2.01e-03	3.60e-03	-1.07e-02	-2.88e-03
## 2644	5.36e-03	7.30e-03	-4.09e-03	6.24e-03	1.98e-03	6.53e-03	-1.52e-02
## 2645	-5.06e-05	9.94e-04	5.17e-04	1.21e-03	-1.66e-03	-1.66e-03	1.13e-03
## 2646	8.61e-03	-1.50e-02	-1.24e-02	1.02e-02	2.85e-03	3.00e-03	-8.84e-03
## 2647	9.90e-03	-1.36e-02	1.16e-02	-9.39e-03	-2.04e-03	-9.71e-03	-1.49e-02
## 2648	-1.03e-02	1.25e-02	-4.80e-03	3.58e-03	4.92e-03	-4.67e-03	-6.84e-03
## 2649	1.64e-03	4.95e-03	-8.82e-04	-8.65e-05	4.76e-03	-7.82e-04	-1.97e-03
## 2650	2.55e-04	-9.42e-03	9.11e-03	1.85e-02	-1.17e-02	-2.83e-03	-7.70e-03
## 2651	2.19e-03	1.26e-02	3.40e-03	-1.93e-02	2.79e-02	-7.66e-03	7.56e-03
## 2652	-3.91e-03	-4.49e-03	-7.38e-04	3.29e-03	1.63e-03	3.62e-03	-3.16e-04
## 2653	9.41e-03	-1.04e-02	-6.21e-03	8.04e-03	2.40e-03	6.51e-03	-2.12e-02
## 2654	9.96e-05	-1.45e-03	4.48e-04	-1.17e-03	-1.02e-03	-2.75e-03	3.10e-04
## 2655	-2.57e-04	1.08e-03	1.64e-04	-1.38e-03	-4.66e-04	5.60e-05	1.55e-03
## 2656	2.26e-03	8.68e-03	9.60e-04	1.40e-02	-1.92e-02	-2.19e-03	-2.54e-03
## 2657	7.71e-04	8.11e-04	2.54e-04	-9.15e-04	-3.93e-04	-1.32e-03	-1.67e-03
## 2658	-7.34e-03	-1.43e-02	9.28e-03	-5.38e-03	-4.08e-03	1.18e-02	-1.39e-02
## 2659	6.82e-03	-6.36e-03	-7.20e-03	-7.11e-03	8.03e-03	-5.82e-03	-1.22e-03
## 2660	-1.55e-03	5.38e-03	-3.08e-03	-5.67e-06	-6.68e-03	-1.60e-03	8.57e-04
## 2661	1.55e-03	1.11e-02	2.22e-02	-1.38e-02	8.92e-03	2.16e-04	1.20e-02
## 2662	-7.24e-04	-1.77e-03	-4.36e-04	-4.51e-03	4.04e-03	-7.26e-04	8.95e-05
## 2663	4.84e-04	1.62e-03	7.57e-04	-2.44e-03	-4.54e-04	2.44e-03	-4.86e-04
## 2664	-3.03e-02	-2.49e-02	-9.17e-03	-3.61e-02	5.36e-02	3.66e-02	6.87e-03
## 2665	-1.36e-02	1.35e-02	1.30e-02	-1.00e-02	-2.86e-03	-9.77e-03	9.09e-03
## 2666	-2.20e-03	-6.94e-03	-2.16e-03	-1.53e-03	-8.34e-03	-3.37e-04	1.10e-03
## 2667	-2.57e-03	6.06e-03	-5.20e-03	7.92e-03	3.13e-04	3.60e-03	-5.17e-04
## 2668	8.51e-04	1.72e-03	-2.31e-04	1.11e-03	1.02e-03	-7.41e-04	7.36e-05
## 2669	-1.03e-02	-1.53e-02	1.22e-02	-1.08e-02	-2.29e-03	-3.23e-03	7.86e-03

## 2670	7.55e-03	-7.81e-03	2.07e-02	4.37e-03	-2.48e-04	-9.53e-03	-2.74e-03
## 2671	3.68e-04	-6.69e-04	-1.27e-04	3.43e-04	5.49e-04	-3.95e-04	-2.97e-04
## 2672	4.05e-04	-2.54e-03	-3.09e-04	1.54e-03	1.44e-03	7.71e-04	1.91e-04
## 2673	1.47e-02	1.34e-02	9.66e-03	-4.96e-03	-2.82e-03	4.07e-03	-1.60e-02
## 2674	-9.71e-05	1.99e-03	-2.67e-04	1.31e-03	1.29e-03	8.20e-04	8.41e-05
## 2675	1.02e-02	-1.18e-02	1.24e-02	2.33e-02	-1.46e-02	5.76e-03	4.95e-03
## 2676	-6.09e-03	-6.77e-03	-1.04e-03	-5.93e-04	6.76e-03	8.15e-04	-1.19e-03
## 2677	-5.98e-04	4.13e-04	-1.53e-04	-6.21e-04	6.78e-04	4.08e-05	8.63e-04
## 2678	2.05e-02	-1.75e-02	8.24e-03	-6.29e-03	-6.98e-03	1.25e-02	3.67e-02
## 2679	4.88e-03	1.30e-02	1.00e-02	-6.09e-03	-3.44e-03	-2.94e-03	6.32e-03
## 2680	-1.70e-03	4.66e-03	-3.74e-03	6.45e-03	4.24e-04	-3.44e-03	4.45e-04
## 2681	1.71e-05	1.71e-05	1.49e-05	1.52e-05	-2.38e-05	2.63e-05	-8.24e-06
## 2682	1.18e-02	-1.24e-02	-2.58e-02	-1.20e-02	5.43e-03	-3.46e-03	7.38e-03
## 2683	-7.79e-03	1.14e-02	-6.92e-03	8.24e-03	1.65e-03	1.24e-02	1.45e-02
## 2684	1.67e-03	-1.34e-02	1.38e-02	2.53e-02	-1.65e-02	4.27e-03	7.29e-03
## 2685	6.59e-04	-2.16e-03	4.66e-03	-1.38e-03	1.67e-03	-3.97e-03	4.17e-04
## 2686	6.39e-03	-1.14e-02	-2.77e-02	6.36e-03	2.06e-02	1.93e-03	-1.18e-02
## 2687	2.52e-03	-1.01e-02	-2.50e-03	4.45e-03	5.15e-03	-8.67e-03	-4.87e-03
## 2688	1.36e-03	-8.40e-03	-3.11e-03	4.72e-03	2.94e-03	3.44e-03	-2.91e-03
## 2689	2.23e-03	-3.61e-03	6.92e-04	-4.57e-03	-2.34e-03	-1.04e-02	-1.54e-03
## 2690	7.16e-03	4.10e-03	2.56e-04	-3.84e-03	-4.11e-03	-5.96e-03	-8.02e-04
## 2691	2.35e-03	1.32e-03	-7.72e-04	-1.63e-03	1.72e-03	6.82e-05	-2.23e-03
## 2692	4.03e-03	2.16e-03	3.67e-04	-2.34e-03	-1.04e-03	-4.34e-03	-4.30e-03
## 2693	-7.18e-03	4.97e-03	2.15e-03	5.00e-03	-7.79e-03	3.43e-03	8.02e-03
## 2694	5.66e-03	5.73e-03	-8.36e-04	1.46e-03	3.21e-03	-7.91e-03	-1.72e-03
## 2695	3.34e-03	-1.52e-02	3.29e-02	1.69e-02	-5.96e-03	1.18e-02	-7.28e-03
## 2696	-1.80e-02	-1.01e-02	-5.50e-03	6.32e-03	2.41e-03	9.46e-03	1.57e-02
## 2697	-1.26e-03	1.70e-03	4.29e-05	3.32e-04	1.61e-03	-4.28e-03	-3.97e-04
## 2698	-1.23e-02	1.01e-02	-3.18e-03	2.77e-03	4.52e-03	-1.08e-02	-4.33e-03
## 2699	3.97e-03	1.75e-02	8.62e-03	-5.16e-03	-5.14e-03	1.50e-02	3.47e-02
## 2700	-1.55e-03	-2.96e-03	-5.04e-04	-5.28e-04	-3.27e-03	1.80e-03	1.97e-04
## 2701	-2.15e-04	1.99e-03	1.13e-03	2.19e-03	-3.28e-03	-4.10e-03	2.13e-03
## 2702	1.69e-02	-1.42e-02	1.27e-02	2.97e-02	-1.92e-02	1.48e-03	-1.71e-02
## 2703	-1.28e-02	-1.25e-02	6.86e-03	-4.48e-03	-2.86e-03	-1.39e-02	-6.56e-03
## 2704	-6.56e-03	9.00e-03	-2.03e-02	-8.91e-03	3.37e-03	-6.14e-03	7.78e-03
## 2705	1.03e-02	1.21e-02	2.33e-02	-1.54e-02	9.03e-03	1.16e-02	1.30e-02
## 2706	2.12e-03	-2.45e-03	-9.02e-04	-4.51e-03	4.11e-03	-1.86e-03	2.26e-04
## 2707	8.42e-03	1.71e-02	8.31e-03	8.27e-03	2.19e-02	1.07e-02	-2.42e-02
## 2708	-1.36e-02	9.44e-03	-3.93e-03	3.32e-03	4.32e-03	-8.35e-03	1.54e-02
## 2709	1.16e-02	7.69e-03	-1.84e-03	1.81e-03	3.82e-03	-1.14e-02	-2.91e-03
## 2710	-7.54e-03	-6.70e-03	-4.11e-03	8.04e-03	1.17e-03	-5.57e-03	1.23e-03
## 2711	1.03e-02	5.30e-03	-2.80e-03	4.49e-03	1.73e-03	6.39e-03	-9.29e-03
## 2712	-9.78e-03	-1.01e-02	-5.61e-03	-1.78e-02	1.30e-02	5.31e-04	-1.70e-03
## 2713	-6.85e-03	5.46e-03	-9.66e-05	-9.98e-04	5.94e-03	4.31e-03	6.97e-03
## 2714	5.28e-04	-1.47e-03	4.14e-04	-1.61e-03	-7.50e-04	-1.64e-03	-2.65e-03
## 2715	3.69e-04	-8.14e-04	2.49e-03	9.27e-05	-1.25e-03	-1.08e-04	-5.95e-05
## 2716	2.26e-02	-1.90e-02	1.01e-02	-1.02e-02	-6.58e-03	4.70e-03	3.68e-02
## 2717	1.27e-02	-1.12e-02	-2.39e-02	-8.34e-03	4.17e-03	-2.52e-03	-1.04e-02
## 2718	8.04e-05	-2.28e-04	-5.73e-05	1.47e-04	1.78e-04	8.80e-05	-7.12e-05
## 2719	4.46e-03	3.95e-03	-9.59e-04	2.13e-03	1.92e-03	6.25e-05	-7.07e-04

##	2720	-1.31e-03	-1.97e-03	9.45e-05	3.70e-04	1.98e-03	-4.95e-03	-5.60e-04
##	2721	-2.07e-02	-1.32e-02	-5.73e-03	3.28e-03	4.11e-03	-2.13e-02	1.93e-02
##	2722	-2.77e-04	3.90e-04	2.04e-04	7.26e-04	-7.54e-04	-2.34e-04	1.31e-04
##	2723	-3.18e-03	-9.34e-03	7.86e-03	-4.43e-03	-1.48e-03	-1.25e-03	6.91e-03
##	2724	4.54e-03	-8.50e-03	-3.73e-03	6.38e-03	4.18e-03	-2.31e-04	1.19e-02
##	2725	3.00e-03	8.69e-03	8.06e-03	-3.72e-03	-1.20e-03	-1.42e-03	5.47e-03
##	2726	-1.82e-04	1.02e-02	-7.39e-03	1.07e-02	1.71e-03	-3.85e-03	-1.09e-03
##	2727	5.30e-03	-5.64e-03	-4.90e-03	7.71e-03	2.64e-04	2.07e-03	-1.82e-03
##	2728	7.97e-03	-4.88e-03	1.51e-03	6.92e-03	-9.83e-03	-7.06e-03	-9.56e-04
##	2729	4.24e-03	-1.55e-02	-9.55e-03	-3.20e-02	2.17e-02	-1.07e-02	-8.60e-03
##	2730	4.54e-03	5.07e-03	-9.72e-04	1.92e-03	2.75e-03	-2.64e-03	-1.24e-03
##	2731	-2.06e-02	1.19e-02	2.40e-02	1.72e-02	-6.55e-03	6.95e-03	-2.16e-03
##	2732	-1.07e-02	-1.10e-02	1.74e-02	-9.52e-03	5.46e-03	6.61e-03	-1.05e-03
##	2733	-3.03e-03	5.96e-03	-4.77e-03	8.43e-03	3.09e-04	-3.07e-03	-1.89e-04
##	2734	5.26e-04	-1.67e-03	1.36e-04	-3.87e-04	-1.61e-03	-1.11e-03	4.17e-06
##	2735	-6.15e-03	-6.35e-03	-5.61e-03	-7.01e-03	7.20e-03	-5.28e-03	1.83e-03
##	2736	2.23e-02	2.22e-02	5.90e-03	-5.10e-03	-8.15e-03	1.60e-02	7.50e-03
##	2737	4.11e-03	-8.73e-03	-1.83e-02	-6.07e-03	2.72e-03	-3.75e-03	-6.11e-03
##	2738	4.74e-04	-5.53e-03	7.48e-04	-6.95e-03	-2.90e-03	-2.34e-03	7.64e-03
##	2739	-5.46e-05	5.51e-04	-3.68e-04	-5.81e-04	7.53e-04	-4.85e-04	9.52e-04
##	2740	-4.59e-03	-8.69e-03	-5.98e-03	-1.25e-02	1.21e-02	-6.80e-03	1.32e-02
##	2741	3.56e-03	-7.54e-03	-1.32e-02	1.26e-02	-5.57e-03	1.91e-03	4.97e-03
##	2742	-6.05e-05	-3.03e-04	6.55e-05	-1.76e-04	-2.25e-04	-1.45e-04	1.16e-04
##	2743	1.04e-02	6.84e-03	-1.75e-03	2.16e-03	3.36e-03	-6.95e-03	-2.70e-03
##	2744	3.09e-03	-1.44e-02	9.36e-03	-5.12e-03	-4.38e-03	1.37e-02	-1.68e-02
##	2745	3.23e-03	7.92e-03	-2.16e-03	-2.90e-03	-9.80e-03	-5.17e-03	-1.48e-02
##	2746	4.56e-03	5.97e-03	-6.25e-04	1.66e-03	3.76e-03	-1.23e-02	-1.20e-03
##	2747	-1.25e-02	-1.32e-02	-4.71e-03	-9.68e-03	-1.47e-02	-4.80e-03	1.97e-02
##	2748	1.29e-03	-2.73e-02	2.62e-03	1.76e-02	3.11e-02	-9.35e-03	-4.89e-02
##	2749	3.84e-03	8.30e-03	6.63e-03	-3.45e-03	-1.97e-03	-6.68e-03	5.81e-03
##	2750	-1.03e-03	8.77e-03	-1.97e-03	2.36e-03	3.92e-03	-5.04e-03	1.26e-02
##	2751	2.11e-03	1.95e-03	-1.16e-03	-3.17e-03	3.03e-03	4.38e-03	-1.35e-04
##	2752	-2.91e-02	2.61e-02	3.68e-03	-6.32e-03	-1.31e-02	3.48e-02	5.98e-03
##	2753	-1.83e-03	-1.77e-03	-8.19e-04	2.30e-04	-2.25e-03	-8.60e-05	6.98e-04
##	2754	5.24e-03	5.56e-03	-9.11e-04	1.65e-03	3.07e-03	-6.08e-03	-1.50e-03
##	2755	7.96e-03	5.36e-03	-7.94e-04	1.54e-03	2.72e-03	-1.05e-02	-1.59e-03
##	2756	3.12e-03	3.73e-03	-8.27e-04	2.28e-03	2.04e-03	-1.64e-03	-1.35e-04
##	2757	1.22e-02	1.62e-02	-3.47e-02	-1.08e-02	5.05e-03	1.47e-02	-1.94e-02
##	2758	-1.15e-02	1.08e-02	-3.15e-03	7.98e-03	4.67e-03	-6.94e-03	1.42e-02
##	2759	-3.37e-03	2.69e-03	-1.48e-03	-3.22e-04	-3.78e-03	3.90e-03	5.33e-03
##	2760	5.91e-03	2.81e-03	-4.53e-05	-1.59e-03	-3.02e-03	2.16e-03	-5.89e-03
##	2761	-2.81e-02	1.64e-02	-1.26e-02	7.70e-03	3.56e-03	2.25e-03	2.14e-02
##	2762	4.84e-03	-3.58e-03	-3.38e-03	-3.96e-03	4.48e-03	-2.49e-03	-3.48e-04
##	2763	1.47e-03	-9.45e-03	-2.84e-03	1.92e-02	-2.30e-02	5.46e-03	-1.29e-03
##	2764	1.33e-03	-3.89e-03	-1.81e-04	1.55e-03	2.39e-03	-4.50e-03	-1.11e-04
##	2765	-4.50e-02	2.72e-02	5.77e-03	-1.35e-02	-1.28e-02	2.05e-02	6.09e-03
##	2766	-4.23e-03	-1.18e-02	7.92e-03	7.71e-03	1.59e-02	-4.24e-03	8.04e-03
##	2767	1.89e-02	-1.02e-02	-1.41e-03	-7.83e-03	-1.19e-02	2.64e-03	-7.38e-03
##	2768	-1.19e-03	4.48e-03	-5.12e-04	1.98e-05	4.15e-03	-7.50e-04	5.69e-03
##	2769	-1.15e-02	8.73e-03	-7.81e-03	-1.76e-02	1.30e-02	-5.30e-04	1.49e-02

##	2770	-6.97e-03	8.34e-03	-1.21e-03	2.23e-03	3.87e-03	-9.82e-04	-3.20e-03
##	2771	6.84e-03	-2.84e-02	-6.71e-02	3.19e-02	-2.59e-02	-1.67e-02	4.52e-02
##	2772	9.71e-03	-1.54e-02	-2.79e-02	2.39e-02	-1.13e-02	3.34e-03	-1.59e-02
##	2773	5.37e-03	4.96e-03	-9.25e-04	1.87e-03	2.61e-03	-3.97e-03	-1.26e-03
##	2774	-2.46e-02	-1.51e-02	-9.48e-03	7.10e-03	5.76e-03	-3.83e-03	2.04e-02
##	2775	7.45e-03	-1.07e-02	9.10e-03	-5.24e-03	-2.33e-03	-2.52e-03	5.91e-03
##	2776	-3.42e-02	2.80e-02	-3.82e-04	-1.83e-02	-1.75e-02	-1.69e-02	1.39e-02
##	2777	5.49e-03	1.44e-02	3.41e-02	8.37e-03	-3.11e-03	-9.10e-03	1.48e-02
##	2778	5.75e-03	3.74e-03	2.27e-04	-1.08e-03	-3.54e-03	-3.60e-03	-6.29e-03
##	2779	8.94e-03	-1.08e-02	-1.34e-02	-1.63e-02	1.33e-02	4.37e-03	-3.73e-03
##	2780	-2.49e-02	1.27e-02	1.35e-03	-2.11e-02	3.17e-02	-1.07e-02	-7.99e-03
##	2781	-2.11e-03	-1.12e-02	-5.03e-03	9.41e-03	5.22e-03	-5.60e-03	-4.28e-03
##	2782	-2.84e-03	3.18e-03	9.37e-04	5.84e-03	-6.56e-03	6.36e-04	-6.55e-05
##	2783	1.05e-03	-1.86e-03	1.41e-04	6.31e-05	1.78e-03	-5.37e-03	2.02e-03
##	2784	-3.47e-03	2.64e-03	-1.02e-03	6.83e-03	-6.48e-03	8.80e-04	1.01e-03
##	2785	3.37e-03	-1.78e-02	-1.58e-02	1.37e-02	1.88e-03	7.99e-03	-1.06e-02
##	2786	1.27e-03	2.38e-02	1.26e-02	-2.88e-02	-9.73e-03	2.23e-02	-3.14e-04
##	2787	3.54e-06	1.14e-03	-3.30e-04	1.40e-03	5.19e-04	-2.09e-04	-1.01e-04
##	2788	-2.81e-03	-8.85e-03	-3.09e-03	3.85e-03	3.39e-03	-1.48e-04	-3.49e-03
##	2789	-7.20e-03	1.98e-02	-1.38e-02	7.66e-03	5.17e-03	5.39e-05	-9.18e-03
##	2790	9.02e-04	-5.32e-03	-1.79e-03	3.46e-03	2.25e-03	4.56e-03	-1.38e-03
##	2791	1.24e-02	1.08e-02	-2.19e-02	-8.19e-03	4.07e-03	1.60e-03	5.51e-03
##	2792	1.54e-03	-9.44e-03	-1.11e-02	-1.17e-02	1.09e-02	1.64e-03	-4.93e-04
##	2793	-4.98e-03	-8.06e-03	7.01e-03	-3.79e-03	-1.26e-03	-5.87e-03	7.24e-03
##	2794	-2.56e-03	-1.15e-02	9.05e-03	-6.05e-03	-2.03e-03	-8.53e-03	-8.40e-03
##	2795	-7.43e-04	-1.45e-03	-3.54e-04	-3.23e-03	3.04e-03	-3.30e-03	-2.45e-04
##	2796	5.60e-03	-4.09e-03	6.94e-05	-3.06e-03	-3.95e-03	2.52e-05	-3.48e-04
##	2797	1.40e-03	-6.20e-03	-3.26e-03	-9.26e-05	-8.49e-03	-4.55e-03	8.39e-04
##	2798	-1.28e-02	-1.48e-02	-2.72e-02	1.87e-02	-8.55e-03	-7.42e-03	1.05e-02
##	2799	3.23e-04	-7.28e-04	-1.21e-04	6.71e-04	4.74e-04	2.17e-04	1.55e-04
##	2800	4.75e-02	-2.18e-02	1.40e-02	4.51e-02	-3.43e-02	5.89e-02	-4.13e-02
##	2801	2.26e-03	4.61e-03	1.20e-03	6.31e-03	-8.07e-03	-1.99e-03	-1.80e-03
##	2802	1.96e-03	2.51e-03	-1.66e-03	-2.80e-03	3.70e-03	-1.00e-03	-4.07e-03
##	2803	1.13e-03	3.11e-03	1.50e-03	4.82e-03	-6.25e-03	-5.23e-03	-1.27e-04
##	2804	5.65e-03	1.99e-02	-6.77e-03	-1.68e-02	-2.16e-02	1.37e-02	1.92e-02
##	2805	-1.15e-02	8.63e-03	2.12e-02	9.98e-03	-2.47e-03	1.06e-02	1.40e-02
##	2806	1.93e-03	-7.48e-03	1.69e-02	2.70e-03	-1.43e-02	-5.69e-03	-5.84e-04
##	2807	1.07e-04	5.63e-04	-1.09e-04	2.71e-04	4.20e-04	-1.50e-04	-2.02e-04
##	2808	7.79e-03	-2.55e-02	2.62e-02	2.92e-02	-3.09e-02	1.11e-02	-6.95e-04
##	2809	9.41e-04	-1.07e-03	3.12e-04	-1.35e-03	-7.06e-04	-2.99e-03	1.33e-03
##	2810	8.44e-04	2.23e-03	-1.24e-04	3.18e-04	2.02e-03	-1.57e-03	-4.76e-03
##	2811	-4.14e-03	-1.36e-02	6.93e-03	-4.38e-03	-4.07e-03	-1.31e-02	-9.68e-03
##	2812	-5.48e-04	-2.32e-03	-2.27e-03	-2.04e-03	2.97e-03	-4.12e-03	5.29e-04
##	2813	3.03e-05	3.53e-04	1.09e-04	5.60e-04	-6.24e-04	8.57e-06	-1.40e-04
##	2814	-2.18e-03	-1.95e-02	8.10e-03	9.66e-03	2.41e-02	-1.28e-02	-2.37e-02
##	2815	4.58e-03	-8.25e-03	-2.05e-03	2.82e-03	4.28e-03	-3.08e-03	-4.15e-03
##	2816	4.79e-04	7.61e-04	-2.69e-04	7.92e-04	3.78e-04	1.16e-03	-1.12e-03
##	2817	9.38e-03	-9.69e-03	-1.74e-02	1.68e-02	-6.95e-03	6.67e-03	5.44e-03
##	2818	-8.28e-02	2.87e-02	3.75e-03	1.03e-02	3.65e-02	-2.36e-02	6.02e-02
##	2819	4.75e-04	1.12e-03	-4.25e-04	-1.70e-03	1.84e-03	-4.55e-04	2.68e-04

##	2820	1.66e-03	-2.00e-03	7.90e-04	2.80e-03	-3.66e-03	-4.91e-03	-8.62e-04
##	2821	1.52e-02	8.43e-03	-3.61e-03	4.10e-03	3.38e-03	-4.43e-03	-1.57e-02
##	2822	-1.22e-02	-8.55e-03	-3.62e-03	-1.59e-02	1.26e-02	-1.04e-02	-5.25e-04
##	2823	-1.09e-03	1.21e-02	-5.17e-03	2.89e-03	5.18e-03	-7.96e-03	-7.18e-03
##	2824	-2.04e-03	3.41e-03	4.10e-04	9.44e-04	2.81e-03	-9.87e-03	4.81e-04
##	2825	2.16e-02	-1.22e-02	-2.72e-02	-8.53e-03	3.94e-03	1.71e-03	-1.37e-02
##	2826	3.98e-03	-2.67e-03	5.54e-04	-3.22e-03	-1.63e-03	-2.30e-03	-7.66e-04
##	2827	-8.03e-03	9.05e-03	-1.67e-02	1.46e-02	-6.80e-03	-3.80e-03	7.21e-03
##	2828	6.44e-04	4.34e-03	-2.26e-03	-6.69e-03	6.60e-03	-5.86e-04	-7.20e-03
##	2829	8.91e-04	2.54e-03	8.18e-04	-3.30e-03	-1.22e-03	-1.55e-03	-5.87e-04
##	2830	1.32e-04	4.65e-04	2.61e-05	-2.51e-04	-4.54e-04	6.22e-04	9.80e-05
##	2831	6.33e-05	-1.27e-04	3.29e-04	1.94e-04	-2.31e-05	1.57e-04	-2.15e-04
##	2832	-7.22e-03	1.10e-02	-1.08e-02	1.24e-02	1.15e-03	6.93e-03	-3.69e-03
##	2833	-2.99e-02	2.62e-02	3.58e-03	-6.34e-03	-1.32e-02	3.53e-02	6.49e-03
##	2834	-2.53e-05	-3.89e-05	-1.66e-06	3.01e-05	2.64e-05	2.58e-05	1.20e-05
##	2835	-5.32e-04	1.52e-03	-2.78e-04	6.39e-04	1.24e-03	1.58e-04	-5.56e-04
##	2836	2.62e-03	-8.36e-03	-1.48e-03	-6.26e-03	-9.78e-03	8.13e-03	1.14e-02
##	2837	-2.39e-02	1.10e-02	-5.85e-03	3.25e-03	4.31e-03	-2.01e-02	1.94e-02
##	2838	8.89e-03	-9.98e-03	-2.44e-03	3.22e-03	3.74e-03	-2.33e-03	1.12e-02
##	2839	5.61e-04	1.83e-03	-2.55e-04	5.82e-04	1.40e-03	-2.36e-03	-7.69e-04
##	2840	-9.50e-03	7.00e-03	-1.48e-02	1.29e-02	-6.07e-03	-3.21e-03	7.37e-03
##	2841	2.08e-02	-1.52e-02	-1.02e-02	7.58e-03	3.10e-03	1.74e-02	1.18e-02
##	2842	1.36e-02	-1.31e-02	-8.44e-03	-2.86e-02	1.94e-02	-4.68e-03	-7.38e-03
##	2843	-6.28e-03	-1.31e-02	-1.48e-02	-2.28e-02	1.70e-02	-1.53e-03	-3.11e-03
##	2844	1.63e-03	5.23e-03	-2.04e-04	-3.25e-03	-5.50e-03	-3.59e-03	-7.57e-04
##	2845	5.75e-03	-5.51e-03	-9.82e-04	2.07e-03	2.62e-03	-2.25e-03	-1.12e-03
##	2846	-3.09e-03	1.07e-02	2.02e-02	-1.06e-02	5.61e-03	3.38e-03	-2.92e-03
##	2847	-2.60e-03	1.70e-03	2.98e-05	-1.02e-05	1.78e-03	3.31e-04	2.64e-03
##	2848	-4.52e-03	-3.56e-03	1.38e-03	3.73e-03	-5.17e-03	9.32e-04	2.45e-05
##	2849	-1.25e-02	-8.38e-03	-7.06e-03	1.01e-02	5.06e-04	6.60e-04	1.19e-03
##	2850	1.44e-02	9.80e-03	-1.22e-03	-5.59e-03	-9.61e-03	-9.78e-03	-1.90e-02
##	2851	4.94e-04	-1.03e-03	-2.11e-04	5.29e-04	8.41e-04	-5.15e-04	-4.00e-04
##	2852	-4.37e-03	1.42e-02	-7.65e-03	4.58e-03	4.70e-03	-1.60e-02	-3.04e-02
##	2853	2.24e-04	7.89e-04	-1.11e-04	2.66e-04	7.68e-04	2.56e-04	-1.25e-04
##	2854	1.36e-02	-7.11e-03	-3.68e-03	-1.46e-02	1.07e-02	-7.07e-03	-1.94e-03
##	2855	-2.09e-03	-1.62e-03	-3.73e-03	1.13e-03	-1.47e-03	1.09e-03	2.74e-03
##	2856	-7.21e-03	1.03e-02	2.06e-02	1.93e-02	-7.64e-03	2.17e-03	-2.54e-03
##	2857	7.49e-03	1.02e-02	8.12e-03	-3.57e-03	-1.79e-03	-2.51e-03	-1.11e-02
##	2858	1.73e-02	-1.39e-02	1.34e-02	2.84e-02	-1.81e-02	4.03e-03	-1.68e-02
##	2859	-1.51e-02	1.03e-02	-3.31e-03	2.65e-03	4.75e-03	-8.82e-03	-4.20e-03
##	2860	1.89e-02	1.17e-02	-2.71e-03	3.43e-03	4.96e-03	-3.78e-03	-9.09e-03
##	2861	-9.40e-05	-1.48e-03	-6.00e-04	2.93e-04	-1.79e-03	-2.24e-03	3.59e-04
##	2862	-1.04e-03	-1.74e-02	-1.47e-02	8.85e-03	3.39e-03	9.64e-03	1.73e-02
##	2863	1.34e-03	-2.38e-03	-2.79e-04	1.44e-03	1.39e-03	-1.23e-03	1.44e-04
##	2864	-9.71e-03	1.55e-02	-1.27e-02	1.04e-02	3.76e-03	1.29e-02	1.78e-02
##	2865	1.57e-03	9.47e-03	7.62e-03	-4.28e-03	-1.90e-03	-7.27e-03	-8.71e-03
##	2866	-1.09e-02	6.04e-03	-4.98e-03	-7.51e-03	8.44e-03	-5.47e-03	2.19e-03
##	2867	6.41e-03	-1.16e-02	1.29e-02	2.12e-02	-1.44e-02	-4.60e-06	4.91e-03
##	2868	4.02e-05	-1.14e-04	9.34e-06	-4.36e-05	-9.38e-05	2.11e-06	-1.44e-04
##	2869	4.27e-05	-1.33e-02	1.24e-02	-1.02e-02	-1.13e-03	-2.70e-03	7.30e-03

## 2870	5.10e-04	2.46e-03	9.61e-04	3.11e-03	-4.17e-03	-5.14e-03	-1.07e-03
## 2871	8.09e-03	-1.32e-02	1.57e-02	2.29e-02	-1.50e-02	-1.95e-03	5.13e-03
## 2872	4.04e-03	4.26e-03	-7.77e-04	2.19e-03	2.40e-03	-4.25e-03	-4.82e-04
## 2873	-7.93e-03	2.30e-02	1.80e-02	5.62e-04	3.30e-02	-8.91e-03	3.79e-03
## 2874	-8.36e-04	1.68e-02	-1.75e-02	-2.84e-02	2.03e-02	2.65e-03	1.91e-02
## 2875	-7.09e-03	-2.07e-02	-3.47e-02	1.56e-02	-1.00e-02	-5.33e-03	9.39e-03
## 2876	-1.24e-02	1.87e-02	-1.46e-02	9.36e-03	2.60e-03	-1.44e-03	1.97e-02
## 2877	4.07e-03	-4.78e-03	-1.91e-03	-8.63e-03	7.51e-03	1.01e-03	-1.28e-03
## 2878	1.00e-02	-1.52e-02	-7.19e-03	6.98e-03	4.37e-03	2.05e-03	-1.06e-02
## 2879	7.30e-04	-1.49e-03	8.19e-05	1.35e-04	1.40e-03	-3.86e-03	1.68e-03
## 2880	-5.06e-03	2.79e-03	-8.11e-03	-1.34e-03	4.75e-03	2.95e-03	4.52e-03
## 2881	-2.82e-04	2.98e-03	6.77e-03	4.96e-03	-7.88e-04	-4.58e-03	1.51e-04
## 2882	6.75e-03	-5.28e-03	-3.52e-03	6.65e-03	1.00e-04	3.60e-03	6.89e-03
## 2883	1.52e-02	-1.76e-02	7.38e-03	-4.42e-03	-6.97e-03	1.58e-02	8.61e-03
## 2884	1.49e-02	1.22e-02	-3.12e-02	-2.02e-02	3.37e-02	3.23e-03	-1.33e-02
## 2885	-8.09e-04	1.85e-03	-4.95e-04	-3.79e-04	-2.05e-03	3.16e-03	3.57e-03
## 2886	4.09e-02	2.36e-02	-5.11e-02	4.40e-04	4.21e-02	-1.22e-02	-3.67e-02
## 2887	6.55e-03	1.08e-02	8.28e-03	-3.73e-03	-1.99e-03	-1.90e-03	-1.06e-02
## 2888	5.77e-03	5.97e-03	-8.84e-04	1.44e-03	3.34e-03	-8.60e-03	-1.67e-03
## 2889	-1.10e-02	-2.50e-02	1.03e-02	-1.50e-02	-1.06e-02	-9.02e-03	4.96e-02
## 2890	-1.44e-02	3.16e-02	5.23e-03	-2.99e-02	-1.22e-02	-2.98e-02	2.53e-03
## 2891	3.96e-03	-2.52e-03	-1.35e-03	-4.27e-03	4.13e-03	4.05e-04	6.07e-05
## 2892	4.16e-03	5.06e-03	-7.93e-04	2.15e-03	2.99e-03	-6.70e-03	-6.75e-04
## 2893	-1.38e-04	8.36e-04	-1.69e-04	7.67e-04	5.28e-04	-1.77e-05	-1.00e-03
## 2894	1.18e-02	-8.89e-03	-1.06e-03	4.11e-03	6.63e-03	-1.08e-02	1.13e-02
## 2895	2.14e-03	-3.73e-03	8.18e-04	-4.82e-03	-2.11e-03	-4.46e-03	-7.25e-03
## 2896	1.09e-02	1.23e-02	-2.94e-02	8.26e-03	2.18e-02	7.27e-03	-1.33e-02
## 2897	-2.58e-03	-2.21e-03	-9.95e-04	3.27e-04	-2.51e-03	-1.95e-03	1.10e-03
## 2898	-1.11e-02	-1.71e-02	4.08e-02	1.23e-02	-4.51e-03	1.04e-04	1.81e-02
## 2899	-3.87e-03	7.81e-03	-1.03e-03	-8.10e-03	-9.02e-03	-4.27e-03	1.32e-02
## 2900	4.75e-02	-1.64e-02	1.26e-02	-1.08e-02	-4.05e-03	-1.46e-02	-2.74e-02
## 2901	-1.29e-02	-1.04e-02	-6.15e-03	-1.87e-02	1.44e-02	-2.14e-03	1.52e-02
## 2902	5.07e-03	-1.02e-02	2.35e-04	-9.89e-03	-1.10e-02	-4.47e-03	-4.05e-03
## 2903	6.05e-03	-1.29e-02	1.36e-02	2.36e-02	-1.62e-02	-7.85e-03	-1.30e-02
## 2904	-1.09e-02	-1.39e-02	1.37e-02	2.22e-02	-1.63e-02	-6.19e-03	8.58e-03
## 2905	-1.35e-03	-1.52e-03	-2.43e-04	1.16e-03	6.73e-04	1.24e-03	8.82e-05
## 2906	2.57e-03	-2.47e-03	-2.53e-05	-1.16e-03	-2.26e-03	-2.21e-03	-3.33e-03
## 2907	1.04e-02	1.53e-02	9.35e-03	-6.03e-03	-3.71e-03	4.88e-03	-1.59e-02
## 2908	8.23e-03	1.72e-02	2.80e-02	-2.14e-02	9.83e-03	5.33e-03	-1.22e-02
## 2909	1.72e-05	3.35e-04	-6.28e-05	3.46e-04	1.87e-04	1.05e-04	5.41e-04
## 2910	-2.57e-03	9.49e-03	-4.24e-03	7.67e-03	3.54e-03	-1.15e-03	-3.31e-03
## 2911	-2.60e-03	2.16e-03	2.67e-04	-1.84e-04	2.38e-03	-1.15e-03	-4.08e-03
## 2912	1.58e-03	5.68e-03	-3.06e-03	5.22e-03	1.26e-03	1.16e-02	8.67e-03
## 2913	-8.68e-04	-2.20e-03	8.02e-05	1.92e-04	1.98e-03	-4.93e-03	-8.83e-04
## 2914	8.37e-03	1.54e-02	3.11e-02	-2.70e-02	1.24e-02	-1.37e-02	1.44e-02
## 2915	-9.90e-03	5.78e-03	-4.23e-03	-8.28e-03	9.32e-03	-6.64e-04	1.11e-02
## 2916	-2.32e-03	5.70e-03	1.70e-03	5.93e-03	-8.67e-03	-2.13e-03	-8.10e-04
## 2917	9.01e-04	-9.11e-03	8.08e-03	-4.65e-03	-1.49e-03	-5.11e-03	6.39e-03
## 2918	-8.57e-03	1.62e-02	1.59e-02	2.79e-02	-2.12e-02	-1.36e-02	-1.66e-02
## 2919	-7.65e-03	6.47e-03	-4.81e-03	7.82e-03	1.38e-03	1.16e-02	1.02e-02

##	2920	1.35e-02	-1.56e-02	1.16e-02	-6.54e-03	-4.09e-03	-3.31e-03	-1.69e-02
##	2921	-6.50e-03	-7.94e-03	-2.03e-03	-1.69e-03	-9.42e-03	2.25e-03	1.24e-02
##	2922	3.61e-04	-1.00e-03	-8.23e-04	-1.00e-03	1.35e-03	-1.76e-03	2.50e-04
##	2923	-2.76e-02	1.87e-02	-1.33e-02	5.53e-03	4.80e-03	-4.38e-03	2.15e-02
##	2924	4.05e-03	-3.26e-03	3.87e-04	-5.32e-05	3.63e-03	3.37e-03	-6.98e-03
##	2925	-1.78e-03	1.69e-03	4.25e-04	3.26e-03	-3.54e-03	1.95e-03	3.32e-03
##	2926	-2.05e-04	1.85e-03	1.97e-04	-1.08e-03	-1.52e-03	-1.22e-03	-2.38e-03
##	2927	2.39e-02	-1.69e-02	4.04e-02	4.07e-02	-5.24e-02	4.45e-03	-1.29e-02
##	2928	-5.72e-03	8.73e-03	1.75e-02	-7.93e-03	6.71e-03	-1.23e-02	5.48e-04
##	2929	-8.19e-04	-1.13e-03	1.61e-04	2.93e-05	1.06e-03	-1.95e-03	1.38e-03
##	2930	7.91e-03	-3.71e-03	1.64e-04	-3.11e-03	-3.82e-03	-4.51e-03	-6.50e-04
##	2931	-5.37e-03	-4.53e-03	1.85e-03	4.50e-03	-6.55e-03	9.78e-04	-2.51e-04
##	2932	9.33e-03	1.44e-02	-1.47e-02	1.44e-02	1.09e-03	1.30e-02	-1.09e-02
##	2933	-1.71e-03	-6.87e-03	-4.56e-03	2.72e-04	-9.33e-03	-8.29e-04	-5.08e-05
##	2934	-6.36e-03	6.85e-03	-6.25e-03	-8.66e-03	8.26e-03	-2.53e-03	1.66e-03
##	2935	-1.52e-03	-1.62e-02	-3.73e-02	-1.13e-02	4.36e-03	-1.27e-02	-1.24e-02
##	2936	-7.68e-03	-1.96e-02	-4.33e-02	-2.81e-02	7.94e-03	-3.84e-02	-2.36e-02
##	2937	-9.79e-04	1.44e-03	-1.33e-03	-1.32e-03	1.97e-03	-1.78e-03	3.24e-04
##	2938	6.02e-04	-7.51e-04	5.72e-05	-6.77e-04	-5.51e-04	-7.25e-04	-2.53e-04
##	2939	-6.36e-05	3.09e-03	-7.89e-04	2.60e-03	1.99e-03	7.65e-04	-4.43e-03
##	2940	1.50e-02	1.08e-02	-3.69e-03	4.22e-03	4.40e-03	-4.42e-03	1.19e-02
##	2941	-1.98e-02	1.46e-02	-7.85e-03	6.09e-03	5.01e-03	4.78e-03	1.87e-02
##	2942	-6.46e-03	-1.01e-02	-5.37e-03	-2.71e-03	-1.38e-02	8.01e-03	1.19e-03
##	2943	2.15e-03	8.79e-03	-6.07e-03	-2.19e-03	-1.30e-02	5.08e-03	1.24e-02
##	2944	-8.05e-04	-1.43e-02	-2.46e-02	1.64e-02	-7.72e-03	-1.41e-03	8.50e-03
##	2945	-2.17e-04	6.08e-04	1.17e-04	-6.34e-04	-2.18e-04	-8.36e-04	1.54e-05
##	2946	1.20e-02	7.29e-03	-1.84e-03	2.12e-03	3.46e-03	-9.93e-03	-2.70e-03
##	2947	3.66e-03	7.10e-03	-2.32e-03	-1.30e-02	1.07e-02	-7.48e-04	-2.42e-03
##	2948	1.06e-02	-4.56e-03	-5.12e-04	-3.06e-03	-4.99e-03	7.11e-04	-7.96e-04
##	2949	-2.78e-02	1.26e-02	1.00e-02	6.80e-03	1.90e-02	-8.88e-04	1.00e-02
##	2950	2.28e-02	1.36e-02	9.82e-03	-5.58e-03	-2.95e-03	-2.63e-03	3.78e-03
##	2951	-2.12e-04	-9.12e-03	7.85e-03	-4.37e-03	-1.62e-03	-4.61e-03	7.19e-03
##	2952	2.29e-03	1.03e-02	-1.00e-02	1.18e-02	6.05e-04	1.03e-02	1.15e-02
##	2953	-8.31e-03	-1.95e-02	-1.72e-02	7.74e-03	4.69e-03	3.45e-03	-1.10e-02
##	2954	8.85e-03	-5.55e-03	-7.92e-04	1.61e-03	2.81e-03	-1.01e-02	-1.64e-03
##	2955	1.02e-02	1.12e-02	-3.43e-03	-6.08e-03	-1.24e-02	6.50e-03	-3.53e-03
##	2956	-5.81e-03	-1.41e-02	1.14e-02	-9.66e-03	-2.52e-03	-1.13e-02	8.07e-03
##	2957	4.25e-03	8.63e-03	-2.28e-03	2.85e-03	3.64e-03	2.09e-03	-5.16e-03
##	2958	6.52e-03	2.15e-02	3.21e-03	2.16e-02	2.38e-02	2.78e-02	-3.20e-02
##	2959	7.18e-03	-3.99e-03	-5.62e-04	-1.98e-03	-4.16e-03	-8.51e-04	-6.14e-03
##	2960	2.71e-03	6.39e-03	-2.57e-03	-1.10e-02	9.48e-03	-2.65e-03	-1.10e-02
##	2961	3.85e-02	-2.03e-02	2.04e-02	-2.48e-02	-8.14e-04	-1.55e-02	1.83e-04
##	2962	-6.38e-03	-1.87e-02	3.95e-02	1.41e-02	-5.55e-03	-7.84e-03	2.13e-02
##	2963	-8.98e-05	2.05e-03	-1.32e-03	-2.24e-03	2.87e-03	-1.94e-03	1.07e-04
##	2964	-1.32e-03	1.87e-02	-1.28e-02	7.21e-03	4.83e-03	1.34e-02	1.48e-02
##	2965	-2.44e-04	-4.79e-04	-8.11e-05	4.37e-05	-5.54e-04	-6.11e-04	1.60e-04
##	2966	2.19e-02	-1.12e-02	-2.54e-02	-7.20e-03	3.45e-03	1.67e-05	-1.26e-02
##	2967	-3.79e-03	2.50e-03	-2.06e-04	6.08e-05	2.57e-03	9.39e-04	3.97e-03
##	2968	-9.93e-04	-1.42e-03	1.93e-04	-6.64e-05	1.47e-03	-1.38e-03	-2.63e-03
##	2969	-1.44e-02	2.61e-02	1.74e-02	5.15e-04	3.65e-02	-1.36e-02	-3.25e-02

##	2970	-1.24e-02	-1.92e-02	1.56e-02	-1.39e-02	-2.99e-03	-7.77e-03	9.41e-03
##	2971	-1.85e-03	1.08e-02	-2.10e-03	2.74e-03	4.38e-03	1.07e-03	-5.97e-03
##	2972	1.46e-02	6.45e-03	3.05e-04	1.09e-02	-1.40e-02	-2.47e-03	-1.24e-02
##	2973	1.16e-02	7.46e-03	-1.72e-03	1.75e-03	3.74e-03	-1.13e-02	-3.13e-03
##	2974	1.30e-03	1.22e-02	-7.66e-03	7.28e-03	2.49e-03	1.09e-02	1.34e-02
##	2975	-2.51e-03	2.50e-03	7.28e-03	3.63e-03	-5.84e-04	4.31e-03	-5.24e-04
##	2976	6.18e-04	1.87e-03	5.68e-04	-2.41e-03	-1.05e-03	-4.63e-03	2.02e-03
##	2977	2.02e-03	-3.09e-03	5.58e-04	-3.72e-03	-2.01e-03	-7.22e-03	-1.43e-03
##	2978	9.05e-04	8.40e-04	-8.67e-05	-2.84e-04	-8.56e-04	1.43e-03	1.43e-04
##	2979	-5.61e-03	-5.41e-03	-2.64e-04	-7.06e-04	5.67e-03	2.67e-03	7.88e-03
##	2980	3.46e-03	-4.63e-03	-2.24e-03	-8.11e-03	7.44e-03	-1.86e-03	-6.84e-03
##	2981	7.77e-03	-8.57e-03	-4.12e-03	8.81e-03	4.10e-03	-2.49e-03	-3.89e-03
##	2982	-1.77e-02	-6.56e-03	-2.32e-03	-1.15e-03	-7.23e-03	-2.56e-03	1.29e-02
##	2983	-2.24e-06	-1.38e-05	2.98e-06	-7.70e-06	-1.02e-05	-3.65e-06	4.84e-06
##	2984	-1.19e-03	2.69e-03	-2.65e-03	-2.41e-03	3.53e-03	-3.91e-03	5.12e-04
##	2985	1.16e-02	6.43e-03	1.73e-03	9.14e-03	-1.39e-02	-9.85e-03	-2.59e-03
##	2986	1.70e-02	-1.59e-02	1.10e-02	-6.32e-03	-4.37e-03	1.08e-02	-2.24e-02
##	2987	-5.06e-03	-1.24e-02	2.48e-02	-1.51e-02	8.06e-03	8.91e-03	1.43e-02
##	2988	-7.19e-03	8.23e-03	-2.98e-03	2.70e-03	3.64e-03	-2.87e-03	1.25e-02
##	2989	2.54e-03	3.95e-03	9.24e-04	-4.23e-03	-3.36e-03	-9.69e-03	4.04e-05
##	2990	4.85e-04	-5.65e-04	2.84e-04	7.23e-04	-8.80e-04	-6.00e-04	-1.10e-03
##	2991	-1.64e-02	-1.25e-02	-5.80e-03	3.57e-03	3.81e-03	-2.62e-02	1.93e-02
##	2992	1.01e-02	-1.07e-02	-5.14e-03	6.35e-03	3.14e-03	2.92e-03	-2.23e-02
##	2993	2.03e-02	-2.03e-02	-3.47e-02	1.75e-02	-1.19e-02	-1.30e-02	1.92e-03
##	2994	-1.35e-02	1.87e-02	-1.32e-02	5.52e-03	5.41e-03	-1.32e-04	1.84e-02
##	2995	4.70e-03	3.66e-03	6.33e-05	-3.19e-03	-3.88e-03	-2.80e-04	-3.88e-04
##	2996	8.18e-03	-1.15e-02	9.83e-03	-6.13e-03	-2.42e-03	-2.32e-03	6.40e-03
##	2997	4.74e-03	5.26e-03	-9.66e-04	1.84e-03	2.87e-03	-3.76e-03	-1.29e-03
##	2998	4.42e-03	5.33e-03	-2.98e-04	3.75e-03	2.67e-03	2.68e-03	-2.20e-03
##	2999	1.35e-02	-1.76e-02	4.50e-03	-3.29e-02	4.47e-02	-1.13e-02	4.20e-03
##	3000	5.84e-03	-1.12e-02	4.77e-03	1.09e-02	1.37e-02	-6.52e-03	-1.07e-02
##	3001	1.03e-02	-7.74e-03	1.93e-02	6.30e-03	-9.44e-04	3.58e-03	-2.75e-03
##	3002	1.75e-02	-1.14e-02	-2.37e-02	-9.57e-03	4.41e-03	6.70e-04	5.37e-03
##	3003	1.92e-02	1.76e-02	-3.57e-02	-1.75e-02	6.43e-03	-1.35e-02	-2.06e-02
##	3004	1.39e-03	-4.09e-03	-1.88e-04	1.58e-03	2.52e-03	-4.93e-03	-9.71e-05
##	3005	1.77e-02	9.64e-03	-3.41e-03	2.78e-03	4.34e-03	-1.47e-02	-1.93e-02
##	3006	-1.55e-02	1.25e-02	3.36e-02	3.03e-02	-3.92e-02	9.25e-03	-2.39e-03
##	3007	1.12e-04	-2.03e-03	6.55e-04	-1.76e-03	-1.43e-03	-4.80e-03	4.78e-04
##	3008	-2.48e-04	-1.64e-03	-5.89e-05	3.67e-04	1.50e-03	3.67e-04	2.07e-03
##	3009	9.41e-04	-1.23e-02	-6.76e-03	9.93e-03	3.80e-03	-4.32e-03	-2.33e-02
##	3010	-7.87e-03	1.42e-02	2.58e-02	-1.67e-02	8.66e-03	3.68e-03	-6.51e-03
##	3011	-2.86e-03	-2.38e-03	-2.32e-04	2.75e-04	2.35e-03	3.42e-04	-2.69e-05
##	3012	-3.16e-03	1.78e-02	8.01e-03	-5.73e-03	-4.87e-03	9.61e-03	1.03e-02
##	3013	4.56e-03	-4.53e-03	7.44e-04	-3.85e-03	-4.36e-03	-1.02e-03	-8.00e-04
##	3014	-8.83e-05	1.30e-04	3.47e-04	2.02e-04	8.35e-06	2.71e-04	-1.68e-04
##	3015	-1.56e-02	2.77e-02	-4.55e-04	2.10e-02	2.94e-02	-1.09e-02	6.79e-03
##	3016	-3.24e-03	2.58e-03	7.79e-04	4.81e-03	-5.48e-03	5.73e-04	5.08e-03
##	3017	5.27e-03	5.49e-03	-8.83e-04	1.62e-03	3.05e-03	-6.05e-03	-1.55e-03
##	3018	7.27e-03	-6.28e-03	-8.48e-04	1.59e-03	3.15e-03	-7.99e-03	-1.66e-03
##	3019	-5.63e-03	-5.33e-03	-2.35e-04	-7.54e-04	5.56e-03	1.33e-03	7.83e-03

##	3020	4.87e-03	4.38e-03	1.43e-03	6.89e-03	-9.58e-03	-3.08e-03	-9.12e-04
##	3021	6.81e-04	-1.32e-03	7.41e-05	1.37e-04	1.24e-03	-3.29e-03	1.46e-03
##	3022	3.47e-03	1.18e-02	1.33e-02	2.16e-02	-1.47e-02	-3.76e-04	5.29e-03
##	3023	1.22e-02	-7.49e-03	-1.97e-03	2.50e-03	3.34e-03	-5.95e-03	-2.36e-03
##	3024	-2.99e-02	-2.38e-02	7.16e-03	-6.53e-03	-1.01e-02	9.90e-03	-2.42e-02
##	3025	1.39e-02	-2.18e-02	5.12e-03	1.47e-02	2.52e-02	2.32e-02	3.90e-02
##	3026	9.55e-03	-1.12e-02	7.81e-03	-3.63e-03	-3.28e-03	-1.67e-03	-1.06e-02
##	3027	3.67e-02	2.05e-02	-3.38e-02	2.19e-02	-1.09e-02	-1.97e-02	-3.03e-02
##	3028	-4.15e-04	1.30e-03	6.48e-05	6.71e-04	9.88e-04	-2.44e-03	2.26e-04
##	3029	5.46e-04	-3.17e-03	-3.32e-03	-3.00e-03	4.28e-03	-6.25e-03	7.06e-04
##	3030	1.17e-02	-1.09e-02	7.94e-03	-4.17e-03	-3.31e-03	-1.72e-03	6.27e-03
##	3031	-2.40e-02	-1.70e-02	3.09e-02	-2.44e-02	1.09e-02	8.50e-04	2.12e-02
##	3032	9.99e-05	1.08e-03	-4.55e-04	1.34e-03	3.88e-04	2.04e-03	1.88e-03
##	3033	3.86e-04	1.49e-03	-2.31e-04	1.05e-03	8.92e-04	2.37e-04	1.22e-04
##	3034	-1.45e-03	-7.58e-03	1.37e-02	-5.59e-03	5.07e-03	-5.86e-03	1.09e-04
##	3035	1.90e-04	5.04e-04	1.12e-03	-3.83e-04	4.75e-04	3.00e-04	8.29e-04
##	3036	9.72e-03	-2.90e-02	2.63e-02	2.84e-02	-3.71e-02	4.26e-02	-4.02e-03
##	3037	3.12e-03	1.09e-02	6.96e-04	1.57e-02	-2.44e-02	-9.12e-03	-6.21e-03
##	3038	3.39e-02	-2.40e-02	1.76e-02	-2.20e-02	-7.14e-03	-3.71e-02	-4.37e-02
##	3039	1.14e-02	1.76e-02	-3.82e-02	-1.00e-02	4.75e-03	2.77e-02	-2.06e-02
##	3040	1.10e-02	1.98e-02	7.31e-03	-4.65e-03	-6.41e-03	1.54e-02	7.97e-03
##	3041	2.14e-03	-5.45e-03	-4.05e-03	-7.49e-03	7.14e-03	3.38e-03	-1.21e-03
##	3042	2.41e-03	-6.81e-03	-6.57e-03	-7.35e-03	7.39e-03	-6.05e-03	-5.30e-04
##	3043	5.59e-03	1.89e-02	2.02e-02	3.15e-02	-2.36e-02	-7.34e-03	-2.51e-02
##	3044	-1.01e-02	-1.17e-02	-3.28e-03	3.11e-03	4.25e-03	-9.95e-03	-3.93e-03
##	3045	-3.59e-02	2.64e-02	3.83e-03	-7.67e-03	-1.32e-02	3.71e-02	7.21e-03
##	3046	-1.66e-03	1.28e-02	8.14e-03	-4.94e-03	-2.46e-03	-5.92e-03	-1.36e-02
##	3047	-7.91e-03	5.38e-03	-2.38e-04	-8.81e-04	5.77e-03	2.94e-03	7.76e-03
##	3048	9.49e-04	7.86e-03	-6.39e-03	-1.30e-02	1.09e-02	6.68e-03	-1.45e-02
##	3049	-2.35e-03	3.98e-03	-1.63e-03	3.85e-04	-5.47e-03	-5.56e-03	8.94e-04
##	3050	1.67e-05	-4.90e-03	-1.51e-03	1.18e-02	-1.18e-02	-3.36e-03	9.05e-04
##	3051	4.69e-02	-1.95e-02	9.25e-03	-4.75e-02	5.47e-02	-1.95e-02	-3.29e-03
##	3052	7.04e-05	1.14e-03	9.00e-05	-2.81e-04	-1.07e-03	-4.40e-04	-1.56e-03
##	3053	1.11e-03	1.67e-03	2.15e-04	-1.22e-03	-1.52e-03	-6.16e-04	1.39e-04
##	3054	8.93e-03	2.32e-02	-5.67e-04	-3.64e-02	4.67e-02	1.12e-02	3.88e-02
##	3055	7.10e-05	-1.58e-04	-1.64e-05	-1.89e-05	-1.42e-04	3.04e-04	-1.87e-04
##	3056	-6.68e-03	1.03e-02	-8.22e-03	-1.86e-02	1.56e-02	-9.51e-03	1.56e-02
##	3057	-8.66e-03	-1.16e-02	-2.15e-02	-1.19e-02	4.78e-03	-7.15e-03	9.97e-03
##	3058	-8.78e-03	8.65e-03	2.17e-02	-1.53e-02	7.95e-03	2.31e-03	1.36e-02
##	3059	4.20e-03	-1.71e-02	-1.63e-02	1.60e-02	-8.69e-05	9.36e-03	-8.74e-03
##	3060	-2.25e-02	-1.60e-02	-1.16e-02	8.84e-03	2.52e-03	5.29e-03	1.98e-02
##	3061	-1.12e-02	1.23e-02	-5.26e-03	3.10e-03	4.82e-03	-1.08e-02	-5.60e-03
##	3062	-2.49e-02	-2.02e-02	-1.69e-02	9.24e-03	3.19e-03	2.68e-03	-6.77e-03
##	3063	2.41e-03	-1.34e-02	1.02e-02	-5.02e-03	-3.00e-03	-4.81e-03	-1.12e-02
##	3064	-2.76e-03	9.14e-03	-9.33e-03	-1.09e-02	1.08e-02	-4.28e-03	5.24e-04
##	3065	1.18e-02	-7.28e-03	-1.96e-03	2.61e-03	3.21e-03	-4.61e-03	-2.26e-03
##	3066	1.08e-02	-8.65e-03	-2.91e-03	3.25e-03	3.89e-03	-4.67e-03	1.21e-02
##	3067	2.51e-03	1.59e-03	5.00e-05	-3.76e-04	-1.51e-03	-6.15e-04	-2.76e-03
##	3068	-1.84e-03	8.67e-04	1.27e-04	6.71e-05	1.05e-03	-6.11e-04	1.53e-03
##	3069	1.72e-03	-3.80e-03	-1.91e-03	4.61e-03	1.91e-03	6.93e-05	6.37e-03

## 3070	1.00e-02	-5.93e-03	-2.00e-03	-2.83e-03	-7.28e-03	2.02e-03	-1.16e-02
## 3071	-7.42e-04	6.10e-03	-7.73e-03	-5.72e-03	6.81e-03	-6.11e-03	2.46e-04
## 3072	-1.04e-02	2.27e-02	6.02e-03	-8.39e-03	-1.14e-02	6.95e-03	9.84e-03
## 3073	1.58e-04	-1.23e-04	4.35e-05	1.82e-04	-2.09e-04	1.10e-05	-1.73e-05
## 3074	3.90e-03	7.40e-03	-1.56e-02	-5.32e-03	2.44e-03	5.88e-06	5.37e-03
## 3075	-3.33e-02	1.60e-02	8.30e-03	-7.11e-03	-6.08e-03	5.95e-03	1.65e-02
## 3076	-2.58e-02	1.10e-02	-5.72e-03	2.87e-03	4.56e-03	-1.91e-02	1.92e-02
## 3077	1.87e-02	-1.34e-02	8.19e-03	-5.00e-03	-4.67e-03	-3.46e-03	-1.38e-02
## 3078	-2.07e-04	3.00e-04	-6.11e-05	3.02e-04	1.35e-04	2.57e-04	-4.41e-04
## 3079	-3.62e-04	-4.20e-04	6.12e-05	7.34e-05	4.37e-04	-8.81e-04	5.96e-04
## 3080	3.83e-03	5.63e-03	-7.81e-04	2.02e-03	3.48e-03	-8.40e-03	-8.29e-04
## 3081	-1.58e-02	-1.00e-02	8.38e-03	-4.73e-03	-1.76e-03	-5.08e-03	9.74e-03
## 3082	1.39e-02	1.81e-02	-1.32e-02	1.09e-02	1.31e-03	7.04e-03	-1.10e-02
## 3083	5.48e-03	9.94e-03	8.70e-03	-4.99e-03	-1.90e-03	-1.82e-03	4.75e-03
## 3084	-1.83e-05	-4.02e-04	-1.12e-04	1.34e-04	3.88e-04	1.36e-05	-1.92e-05
## 3085	-5.25e-03	3.97e-03	5.31e-04	-5.36e-03	-1.90e-03	-1.03e-03	6.60e-04
## 3086	2.39e-03	-1.65e-02	6.54e-03	-4.63e-03	-7.23e-03	8.64e-03	1.22e-02
## 3087	4.81e-03	-3.81e-03	-1.13e-03	-8.20e-03	6.74e-03	-1.08e-02	5.18e-06
## 3088	2.37e-02	1.90e-02	9.87e-03	-4.16e-03	-5.21e-03	2.98e-02	-2.65e-02
## 3089	1.87e-05	3.91e-03	1.10e-03	6.91e-03	-8.31e-03	-9.96e-05	-7.55e-04
## 3090	-6.61e-04	-6.65e-03	-2.71e-03	5.53e-03	2.85e-03	2.37e-03	-1.88e-03
## 3091	-1.54e-02	1.67e-02	-1.21e-02	8.69e-03	3.28e-03	1.21e-02	1.71e-02
## 3092	-1.10e-04	-1.82e-03	-1.30e-03	-1.98e-03	2.55e-03	1.46e-03	3.45e-03
## 3093	5.83e-03	4.97e-03	1.78e-03	7.30e-03	-1.07e-02	-6.76e-03	-1.20e-03
## 3094	1.05e-02	-1.66e-02	-3.15e-02	2.41e-02	-1.19e-02	-1.11e-02	-1.83e-02
## 3095	9.89e-04	-3.58e-03	-2.56e-04	1.65e-03	2.15e-03	-2.51e-03	4.14e-05
## 3096	6.09e-03	-1.08e-02	-1.34e-02	-1.28e-02	1.15e-02	4.67e-03	-3.15e-03
## 3097	-5.55e-03	-8.34e-03	-7.69e-03	1.00e-02	3.22e-04	7.22e-03	4.76e-04
## 3098	-1.23e-02	2.45e-02	6.77e-04	-7.27e-03	-1.20e-02	5.06e-03	1.07e-02
## 3099	-4.10e-02	2.27e-02	-6.10e-02	-1.28e-02	1.88e-03	4.11e-02	1.16e-02
## 3100	-2.86e-02	2.06e-02	4.27e-02	1.56e-02	-7.40e-03	-4.88e-03	-1.13e-02
## 3101	-2.36e-03	5.15e-03	-1.17e-03	3.08e-03	1.89e-03	2.33e-03	-1.33e-03
## 3102	5.28e-04	1.45e-03	1.25e-04	-1.38e-03	-9.61e-04	-1.50e-03	-4.89e-04
## 3103	-1.51e-04	1.74e-04	1.48e-04	1.66e-04	-2.40e-04	3.39e-04	-2.83e-05
## 3104	5.82e-03	-6.60e-03	-1.63e-04	1.46e-02	-1.57e-02	1.28e-03	9.87e-03
## 3105	3.03e-04	1.09e-03	-3.69e-04	1.17e-03	6.00e-04	1.01e-03	-1.35e-03
## 3106	7.45e-03	-6.16e-03	-7.53e-04	1.48e-03	3.13e-03	-8.53e-03	-1.87e-03
## 3107	2.61e-02	-2.55e-02	1.66e-02	-5.49e-03	3.61e-02	3.15e-02	-5.07e-03
## 3108	8.25e-05	-1.32e-04	1.03e-04	1.23e-04	-1.64e-04	1.83e-04	-5.94e-05
## 3109	-5.89e-03	1.70e-02	-2.12e-02	-2.60e-02	1.92e-02	5.18e-03	-6.27e-03
## 3110	1.89e-02	1.19e-02	-2.44e-03	4.77e-03	4.29e-03	2.03e-03	-1.01e-02
## 3111	-4.54e-03	1.36e-02	1.24e-02	-7.99e-03	-2.34e-03	-5.43e-03	9.15e-03
## 3112	-1.22e-02	-9.96e-03	2.13e-02	1.26e-02	-3.24e-03	-9.72e-06	1.30e-02
## 3113	3.02e-03	-5.67e-03	1.26e-02	2.18e-03	-1.05e-02	-2.63e-03	-9.01e-04
## 3114	9.58e-05	4.46e-04	-8.99e-05	3.86e-04	2.61e-04	6.00e-04	4.13e-05
## 3115	7.89e-03	1.33e-02	-2.28e-02	1.69e-02	-8.14e-03	-1.47e-03	4.55e-03
## 3116	5.60e-05	-9.76e-05	-6.31e-05	-1.15e-04	1.59e-04	1.99e-04	-1.21e-04
## 3117	1.27e-03	2.27e-02	-5.89e-02	-1.60e-02	3.02e-03	-5.25e-03	1.19e-02
## 3118	-3.69e-04	-7.49e-04	-2.19e-03	-1.44e-04	1.18e-03	-2.35e-03	-1.27e-04
## 3119	-2.45e-02	1.57e-02	-1.21e-02	8.27e-03	3.04e-03	-6.79e-04	2.07e-02

##	3120	-8.41e-04	-5.54e-03	-7.95e-04	-1.90e-05	5.33e-03	1.98e-03	-2.26e-03
##	3121	5.49e-03	5.38e-03	-7.86e-04	1.51e-03	3.02e-03	-6.52e-03	-1.77e-03
##	3122	3.54e-03	-4.02e-03	-2.96e-04	-2.93e-03	-4.44e-03	8.04e-04	6.50e-03
##	3123	1.58e-02	2.21e-02	1.50e-02	-1.31e-02	-5.63e-03	-1.06e-02	-3.29e-02
##	3124	6.46e-03	4.38e-03	1.41e-03	6.56e-03	-9.24e-03	-6.38e-03	-9.60e-04
##	3125	-3.28e-03	5.52e-03	-6.76e-03	-5.54e-03	6.66e-03	-3.08e-03	5.96e-04
##	3126	5.50e-03	5.84e-03	-1.50e-03	-9.48e-03	8.70e-03	-1.39e-03	-1.98e-03
##	3127	-2.92e-03	4.06e-03	-1.04e-02	2.95e-03	-3.95e-03	1.20e-03	6.41e-03
##	3128	-1.66e-02	1.72e-02	-8.80e-03	3.79e-03	5.04e-03	5.46e-03	1.86e-02
##	3129	3.40e-04	2.03e-03	-1.77e-03	-2.39e-03	2.62e-03	3.25e-03	3.67e-03
##	3130	3.00e-03	-1.58e-03	-8.74e-05	-8.20e-04	-1.68e-03	1.37e-03	-1.07e-04
##	3131	-1.59e-03	1.57e-02	-3.24e-02	-1.83e-02	7.64e-03	-1.15e-02	8.29e-03
##	3132	2.26e-02	1.59e-02	1.16e-02	-8.04e-03	-2.68e-03	-5.19e-03	-2.01e-02
##	3133	1.62e-02	-9.55e-03	-4.73e-03	-2.46e-03	-1.34e-02	-5.20e-03	-3.84e-03
##	3134	7.61e-03	1.97e-02	7.50e-03	-5.10e-03	-6.34e-03	1.93e-02	8.16e-03
##	3135	2.10e-02	-2.15e-02	6.76e-03	-5.38e-03	-8.13e-03	3.92e-02	-3.42e-02
##	3136	-2.50e-02	1.42e-02	-1.02e-02	7.82e-03	3.35e-03	6.25e-03	1.93e-02
##	3137	-1.46e-02	-1.36e-02	-2.83e-02	-7.98e-03	3.79e-03	-8.86e-03	-6.73e-03
##	3138	-2.50e-02	-2.49e-02	3.52e-03	-6.01e-03	-1.40e-02	3.64e-02	7.69e-03
##	3139	2.89e-02	1.08e-02	-1.59e-03	-8.41e-03	-1.20e-02	1.98e-03	-2.65e-02
##	3140	5.25e-03	5.20e-03	-8.06e-04	1.60e-03	2.90e-03	-5.32e-03	-1.68e-03
##	3141	3.96e-03	1.31e-02	1.07e-02	-5.47e-03	-3.36e-03	4.46e-03	-1.59e-02
##	3142	-2.05e-02	1.22e-02	4.67e-03	1.21e-02	1.57e-02	-1.43e-02	-9.40e-03
##	3143	1.27e-02	-1.56e-02	-1.43e-02	-2.91e-02	2.15e-02	1.16e-02	1.62e-02
##	3144	-1.17e-02	-7.69e-03	-5.00e-03	7.25e-03	1.32e-03	8.16e-03	1.25e-02
##	3145	7.61e-03	-1.06e-02	-1.93e-03	3.72e-03	3.32e-03	5.35e-03	-7.11e-03
##	3146	-2.25e-02	1.15e-02	-8.10e-03	5.47e-03	3.58e-03	-4.79e-03	2.03e-02
##	3147	-1.51e-02	1.23e-02	-4.03e-03	-1.01e-02	-1.47e-02	4.84e-03	1.80e-02
##	3148	6.03e-03	-9.40e-03	-4.65e-03	7.89e-03	2.77e-03	5.74e-04	1.31e-02
##	3149	-5.36e-04	-8.28e-03	-3.26e-03	5.22e-03	2.92e-03	2.45e-03	-1.52e-02
##	3150	-2.00e-02	-1.73e-02	3.97e-02	1.11e-02	-3.82e-03	-1.49e-03	1.68e-02
##	3151	2.09e-04	1.45e-03	5.57e-04	2.73e-03	-3.04e-03	6.66e-04	1.21e-04
##	3152	4.13e-03	-4.15e-03	-9.05e-04	2.21e-03	1.87e-03	2.93e-03	-8.19e-04
##	3153	3.14e-02	-1.94e-02	7.04e-03	-7.35e-03	-8.55e-03	6.90e-03	6.44e-03
##	3154	1.23e-03	-1.98e-02	1.50e-02	4.07e-02	-2.90e-02	-1.73e-03	1.03e-02
##	3155	-3.30e-03	2.65e-02	5.14e-02	1.88e-02	-8.96e-03	8.44e-03	-2.35e-02
##	3156	2.05e-03	4.20e-03	3.47e-05	1.48e-04	4.10e-03	-5.39e-03	-9.40e-03
##	3157	3.70e-04	3.24e-03	-1.86e-04	1.41e-03	2.19e-03	-3.55e-03	-1.58e-04
##	3158	-1.20e-03	1.28e-02	-7.30e-03	8.23e-03	4.21e-03	6.16e-03	-2.98e-02
##	3159	-1.81e-02	1.44e-02	2.89e-02	1.77e-02	-6.43e-03	1.09e-02	-4.97e-03
##	3160	7.18e-03	1.55e-02	-1.39e-02	1.28e-02	1.99e-03	1.48e-02	1.45e-02
##	3161	9.22e-04	2.03e-03	2.74e-04	-1.58e-03	-1.86e-03	-6.14e-04	2.29e-04
##	3162	2.30e-05	6.88e-03	-2.86e-03	-1.38e-02	1.00e-02	-3.72e-03	-2.18e-03
##	3163	-2.11e-03	3.18e-03	1.22e-03	3.93e-03	-4.91e-03	-1.86e-03	-1.10e-04
##	3164	1.18e-03	-2.07e-03	-5.99e-04	1.80e-03	1.00e-03	4.15e-03	6.25e-05
##	3165	1.28e-03	1.23e-03	-5.12e-05	-3.92e-04	-1.41e-03	1.28e-03	-3.52e-04
##	3166	-1.59e-02	1.56e-02	-1.17e-02	1.23e-02	4.94e-03	1.76e-03	-4.96e-03
##	3167	1.11e-03	-2.93e-03	-2.19e-04	1.78e-03	2.05e-03	-4.66e-03	4.92e-04
##	3168	-1.88e-03	-1.53e-02	5.94e-03	-2.82e-02	3.69e-02	-1.29e-02	-1.60e-02
##	3169	2.08e-03	-3.45e-03	-1.06e-03	-6.61e-03	5.75e-03	-3.31e-03	3.51e-05

##	3170	-1.03e-02	8.09e-03	-8.23e-03	-1.12e-02	1.14e-02	8.90e-03	1.52e-02
##	3171	1.80e-02	-1.43e-02	-2.68e-02	2.15e-02	-9.67e-03	1.73e-03	-1.72e-02
##	3172	-1.75e-04	-8.22e-04	-3.68e-04	-1.15e-03	1.37e-03	7.69e-04	-9.49e-04
##	3173	3.46e-03	-2.30e-03	-1.19e-04	9.25e-05	2.40e-03	-4.74e-03	-5.43e-03
##	3174	2.91e-02	-2.33e-02	2.21e-02	3.33e-02	-3.14e-02	-2.47e-02	-3.81e-02
##	3175	4.82e-05	-2.73e-03	-1.99e-04	1.68e-03	1.85e-03	-1.81e-03	3.74e-04
##	3176	7.10e-03	-6.20e-03	-8.64e-04	1.65e-03	3.09e-03	-7.38e-03	-1.60e-03
##	3177	-1.21e-03	1.41e-03	7.47e-04	1.67e-03	-2.12e-03	-2.40e-04	2.13e-03
##	3178	-1.14e-02	-8.73e-03	-6.15e-03	-1.26e-02	1.23e-02	-7.42e-03	1.54e-02
##	3179	1.39e-02	-1.33e-02	-2.93e-02	2.60e-02	-1.23e-02	2.14e-02	-1.86e-02
##	3180	-7.50e-04	7.53e-04	4.58e-04	7.56e-04	-1.04e-03	1.87e-04	1.22e-03
##	3181	3.64e-02	1.95e-02	-4.29e-02	-9.34e-03	3.50e-03	3.08e-02	-2.64e-02
##	3182	1.01e-04	2.66e-03	-2.74e-04	5.67e-04	2.19e-03	-4.04e-03	-1.27e-03
##	3183	4.52e-03	1.20e-02	-7.47e-03	-5.81e-03	-1.66e-02	8.07e-03	1.41e-02
##	3184	-7.32e-03	2.15e-02	6.97e-03	-8.29e-03	-8.54e-03	7.91e-03	9.77e-03
##	3185	6.56e-03	-4.51e-03	1.87e-04	-3.67e-03	-4.31e-03	-1.60e-03	-6.11e-04
##	3186	-6.25e-04	5.66e-04	-6.24e-05	-2.33e-05	-6.70e-04	4.18e-04	1.24e-03
##	3187	-9.83e-03	1.30e-02	3.01e-02	9.27e-03	-2.90e-03	-1.61e-02	1.72e-02
##	3188	-6.36e-05	-7.29e-04	1.60e-04	-7.62e-04	-4.46e-04	-1.17e-03	-1.69e-04
##	3189	3.59e-04	-2.46e-03	8.73e-04	-2.33e-03	-1.70e-03	-7.05e-03	4.41e-04
##	3190	-1.22e-02	2.18e-02	-4.07e-02	2.47e-02	-1.53e-02	-1.98e-02	-2.62e-02
##	3191	-8.45e-03	-1.55e-02	-1.04e-02	7.13e-03	4.17e-03	8.74e-03	1.66e-02
##	3192	1.90e-03	-4.80e-03	-7.18e-05	1.38e-03	3.05e-03	-9.21e-03	-2.32e-04
##	3193	-2.86e-02	2.14e-02	4.06e-03	1.35e-02	2.38e-02	1.53e-02	1.04e-02
##	3194	6.67e-03	1.41e-02	-1.55e-02	-1.81e-02	1.64e-02	-9.11e-03	-4.66e-03
##	3195	2.28e-04	1.79e-03	5.31e-04	-2.29e-03	-1.02e-03	-3.45e-03	1.99e-03
##	3196	-1.48e-02	-1.92e-02	2.55e-02	2.38e-02	-2.08e-02	-1.35e-02	9.40e-03
##	3197	6.16e-05	-4.42e-03	-1.32e-03	4.47e-03	2.00e-03	-1.41e-04	-7.35e-03
##	3198	-3.60e-04	1.43e-02	-6.67e-03	4.20e-03	4.56e-03	-9.11e-03	-9.18e-03
##	3199	-7.40e-03	5.26e-03	2.29e-03	5.19e-03	-8.19e-03	3.96e-03	8.34e-03
##	3200	1.57e-03	1.43e-03	2.79e-04	2.81e-03	-2.95e-03	9.44e-04	8.41e-05
##	3201	-1.61e-04	2.06e-04	7.55e-05	-5.05e-05	2.73e-04	3.85e-04	-7.88e-05
##	3202	6.68e-03	-5.97e-03	-9.06e-04	1.81e-03	2.94e-03	-5.46e-03	-1.46e-03
##	3203	1.44e-02	-6.71e-03	-1.75e-03	2.34e-03	3.06e-03	-1.03e-02	-2.58e-03
##	3204	4.03e-03	6.26e-03	-5.58e-03	-8.45e-03	8.25e-03	6.99e-05	-1.15e-02
##	3205	-2.79e-03	7.08e-03	6.50e-03	-3.20e-03	-1.38e-03	-3.57e-03	6.50e-03
##	3206	7.45e-04	2.22e-03	-2.51e-04	3.38e-04	2.11e-03	-3.59e-03	-5.36e-04
##	3207	1.94e-03	-2.96e-03	-2.50e-04	1.53e-03	1.79e-03	-3.25e-03	1.96e-05
##	3208	-5.04e-03	1.08e-02	-1.22e-02	-1.71e-02	1.32e-02	8.74e-03	1.43e-02
##	3209	-3.24e-03	-4.08e-03	-7.11e-04	-1.54e-03	-4.21e-03	1.65e-03	7.48e-03
##	3210	-1.92e-02	1.08e-02	2.17e-02	1.49e-02	-3.76e-03	-2.16e-03	-1.42e-04
##	3211	-1.07e-02	1.25e-02	-1.55e-02	-1.92e-02	1.48e-02	3.52e-03	-1.63e-03
##	3212	7.43e-04	2.32e-02	1.43e-03	2.09e-02	2.39e-02	1.54e-02	8.66e-03
##	3213	1.34e-02	-7.88e-03	-1.86e-03	2.04e-03	3.63e-03	-1.07e-02	-2.77e-03
##	3214	-5.70e-03	2.21e-03	-1.78e-03	3.16e-03	4.93e-04	1.74e-03	4.52e-03
##	3215	6.32e-04	-2.53e-03	3.61e-04	-1.59e-03	-1.97e-03	-3.05e-03	-3.23e-03
##	3216	1.73e-03	-3.70e-03	1.68e-03	3.97e-03	-5.50e-03	2.85e-04	4.40e-03
##	3217	-9.01e-03	1.13e-02	-4.64e-03	2.55e-03	3.96e-03	-1.64e-02	1.71e-02
##	3218	-8.66e-03	1.01e-02	-3.30e-03	3.23e-03	4.08e-03	-1.37e-02	-3.66e-03
##	3219	-8.79e-03	1.11e-02	-8.46e-03	-2.39e-02	1.64e-02	-2.19e-02	1.69e-02

##	3220	-2.81e-02	1.59e-02	6.68e-03	-6.88e-03	-4.80e-03	-3.76e-03	3.96e-02
##	3221	1.75e-02	-1.27e-02	-5.47e-03	6.86e-03	4.66e-03	5.82e-03	-8.64e-03
##	3222	4.95e-03	5.51e-03	-9.84e-04	1.78e-03	3.02e-03	-4.88e-03	-1.32e-03
##	3223	1.75e-04	1.18e-02	-2.68e-03	-1.12e-02	-1.45e-02	-9.93e-04	-5.37e-03
##	3224	7.87e-04	9.50e-03	-6.90e-03	-8.15e-04	-1.36e-02	-4.20e-03	-1.68e-03
##	3225	-1.52e-03	9.27e-03	8.65e-03	-5.53e-03	-1.33e-03	-6.02e-03	7.00e-03
##	3226	1.79e-03	-2.58e-03	-2.80e-04	5.92e-04	2.27e-03	-6.66e-03	-1.30e-03
##	3227	2.18e-02	-7.63e-03	-1.13e-03	4.18e-03	3.69e-03	1.04e-02	-7.65e-03
##	3228	-9.19e-04	1.62e-03	4.82e-05	-9.21e-04	-1.55e-03	7.00e-04	-4.99e-05
##	3229	-9.79e-03	1.42e-02	3.11e-02	-2.70e-02	1.20e-02	-2.71e-02	1.90e-02
##	3230	-4.87e-05	-7.88e-04	2.03e-04	-5.31e-04	-5.71e-04	-7.90e-04	2.31e-04
##	3231	1.50e-04	1.36e-03	4.26e-04	-1.49e-03	-5.80e-04	-2.66e-03	-2.42e-03
##	3232	-3.48e-03	1.00e-02	-5.26e-03	5.29e-03	3.85e-03	-8.33e-04	-2.04e-02
##	3233	-4.26e-04	-1.73e-03	2.93e-05	2.57e-04	1.56e-03	-3.76e-03	-6.77e-04
##	3234	2.01e-05	-7.20e-05	1.78e-05	-4.54e-05	-5.55e-05	-8.98e-05	2.24e-05
##	3235	-2.92e-03	8.49e-03	-2.35e-03	3.44e-03	3.21e-03	3.01e-03	-3.70e-03
##	3236	1.93e-04	2.31e-02	2.47e-02	2.87e-02	-3.19e-02	2.08e-02	-2.42e-03
##	3237	-2.45e-02	-2.49e-02	3.59e-03	-6.00e-03	-1.40e-02	3.61e-02	7.35e-03
##	3238	-1.07e-03	2.23e-03	1.36e-03	3.40e-03	-4.11e-03	-5.79e-03	4.68e-04
##	3239	-4.88e-05	-1.33e-02	-9.37e-03	6.86e-03	3.17e-03	-7.40e-04	1.70e-02
##	3240	6.65e-03	1.16e-02	-5.12e-03	5.30e-03	4.08e-03	-7.15e-03	-2.33e-02
##	3241	-8.51e-03	2.25e-02	6.07e-03	1.51e-02	2.76e-02	-1.75e-02	-2.63e-02
##	3242	1.52e-02	-1.74e-02	5.79e-03	-5.57e-03	-8.54e-03	5.12e-03	9.66e-03
##	3243	-9.74e-04	-2.49e-03	-1.68e-03	3.69e-03	3.62e-04	-3.75e-03	6.76e-04
##	3244	5.78e-03	-9.11e-03	-1.53e-02	1.43e-02	-5.66e-03	9.23e-04	4.97e-03
##	3245	1.17e-02	-1.10e-02	-2.30e-03	-9.14e-03	-1.22e-02	-1.69e-03	-5.90e-03
##	3246	5.20e-03	5.74e-03	-2.24e-03	-1.16e-02	9.50e-03	-8.78e-03	-4.86e-04
##	3247	-1.96e-02	1.49e-02	-3.23e-02	-2.12e-02	7.08e-03	-4.27e-04	9.10e-03
##	3248	2.26e-03	7.32e-03	3.88e-04	-5.71e-03	-7.18e-03	-4.24e-03	-1.20e-02
##	3249	2.41e-02	-1.35e-02	-9.08e-03	-3.93e-03	-1.99e-02	5.64e-03	-7.55e-03
##	3250	1.11e-02	2.09e-02	4.16e-02	1.87e-02	-7.29e-03	1.76e-02	1.36e-02
##	3251	3.84e-03	-4.68e-03	1.18e-02	1.70e-03	-9.03e-03	-3.65e-03	1.08e-04
##	3252	-7.01e-03	-3.80e-03	-2.31e-04	2.63e-04	4.13e-03	-1.33e-03	5.87e-04
##	3253	-4.67e-04	1.74e-02	-1.42e-02	1.08e-02	3.79e-03	1.55e-02	1.46e-02
##	3254	-1.88e-02	1.28e-02	-7.72e-03	3.31e-03	4.32e-03	-2.63e-02	2.00e-02
##	3255	-2.82e-02	-1.68e-02	-1.05e-02	6.54e-03	4.11e-03	-3.00e-03	2.20e-02
##	3256	1.08e-02	-2.11e-02	1.32e-02	-1.36e-02	-4.71e-03	-2.02e-02	-2.58e-02
##	3257	-6.57e-03	4.05e-03	-3.24e-04	-1.52e-04	4.25e-03	-5.66e-04	-7.42e-05
##	3258	3.48e-03	2.00e-02	1.07e-02	7.26e-03	2.52e-02	-1.17e-02	6.97e-03
##	3259	4.94e-04	-4.24e-03	-1.61e-03	-9.97e-04	-5.66e-03	3.35e-03	6.50e-03
##	3260	1.01e-02	-1.69e-02	-1.35e-03	2.63e-02	-3.87e-02	1.47e-02	1.61e-02
##	3261	2.69e-02	-1.67e-02	1.03e-02	1.11e-02	2.42e-02	-9.18e-03	-2.73e-02
##	3262	-1.06e-04	4.22e-03	-1.79e-04	7.72e-05	3.65e-03	-1.07e-02	-2.27e-03
##	3263	6.10e-06	2.44e-05	8.67e-07	-1.15e-05	-2.42e-05	4.44e-05	5.55e-06
##	3264	2.69e-03	8.84e-03	-7.80e-04	-5.16e-03	-8.96e-03	-1.70e-03	-1.69e-02
##	3265	1.53e-05	4.99e-05	-2.08e-05	6.03e-05	2.44e-05	1.40e-04	-7.10e-05
##	3266	1.53e-02	-2.15e-02	-1.61e-02	9.07e-03	4.48e-03	2.49e-02	-1.79e-02
##	3267	-5.19e-03	-9.04e-03	-1.43e-02	1.30e-02	-5.99e-03	-2.54e-03	7.02e-03
##	3268	5.18e-03	-1.32e-02	9.22e-03	-4.59e-03	-3.48e-03	-9.49e-05	5.66e-03
##	3269	4.83e-02	-1.83e-02	1.41e-02	-1.45e-02	-4.08e-03	-1.93e-02	-2.93e-02

## 3270	1.69e-02	-1.25e-02	-8.82e-03	1.04e-02	1.49e-03	1.36e-02	1.14e-02
## 3271	-4.67e-04	-2.49e-03	-4.39e-04	-4.86e-03	4.53e-03	-4.94e-03	6.20e-04
## 3272	7.20e-03	1.15e-02	8.84e-03	-4.43e-03	-2.01e-03	-2.57e-03	-1.14e-02
## 3273	1.64e-03	2.90e-03	5.39e-04	-2.66e-03	-2.56e-03	-3.84e-03	1.37e-04
## 3274	2.55e-04	-3.28e-04	-4.26e-05	1.32e-06	-3.66e-04	-1.23e-04	-4.84e-04
## 3275	-7.33e-04	2.40e-03	5.71e-04	-1.74e-03	-2.26e-03	-1.30e-03	2.88e-04
## 3276	1.97e-03	-2.17e-03	8.80e-04	2.93e-03	-3.70e-03	-1.22e-03	-2.76e-04
## 3277	-1.55e-02	9.15e-03	-8.30e-03	-1.24e-02	1.31e-02	-7.85e-03	1.53e-02
## 3278	-1.71e-03	6.54e-03	-7.19e-03	-7.12e-03	8.01e-03	-4.89e-03	-9.76e-04
## 3279	-7.67e-04	6.75e-04	1.08e-04	6.39e-05	6.95e-04	-2.06e-03	-1.59e-04
## 3280	-1.84e-02	1.42e-02	-1.44e-02	1.39e-02	1.54e-03	1.07e-02	-3.63e-03
## 3281	-4.32e-04	-3.91e-03	1.50e-03	4.51e-03	-5.84e-03	-1.31e-03	-6.72e-04
## 3282	1.01e-02	-1.25e-02	-2.49e-02	-1.54e-02	6.35e-03	-4.51e-03	6.58e-03
## 3283	-2.81e-05	-1.53e-02	5.88e-03	9.67e-03	1.80e-02	1.09e-03	4.96e-03
## 3284	-6.54e-05	-1.98e-03	5.82e-04	-1.61e-03	-1.41e-03	-3.88e-03	5.85e-04
## 3285	3.90e-03	-1.28e-02	-6.11e-03	2.66e-02	-3.09e-02	4.10e-03	-4.27e-03
## 3286	-4.80e-03	-1.09e-02	-4.05e-03	3.57e-03	4.06e-03	-9.38e-03	1.47e-02
## 3287	2.39e-03	-3.87e-03	4.90e-04	-2.79e-03	-4.07e-03	2.09e-03	-6.16e-04
## 3288	1.41e-02	-1.60e-02	-1.12e-02	6.52e-03	4.97e-03	-1.35e-02	1.80e-02
## 3289	1.93e-02	-1.45e-02	-9.04e-03	6.19e-03	4.31e-03	-6.33e-03	-3.58e-02
## 3290	1.23e-02	1.39e-02	6.03e-03	1.34e-02	1.69e-02	3.97e-03	-1.61e-02
## 3291	-5.64e-03	6.27e-03	-5.13e-04	-8.47e-04	6.24e-03	7.69e-04	8.08e-03
## 3292	1.79e-03	-9.66e-03	-4.40e-03	5.83e-03	2.15e-03	2.14e-03	-4.21e-03
## 3293	2.06e-03	-2.05e-03	-6.80e-04	-2.97e-03	3.40e-03	-1.47e-03	-3.68e-03
## 3294	6.94e-03	-6.13e-03	-8.82e-04	1.70e-03	3.04e-03	-6.75e-03	-1.54e-03
## 3295	1.88e-03	2.59e-03	-1.79e-03	3.60e-03	3.18e-04	-2.05e-03	5.03e-05
## 3296	9.20e-04	-1.61e-03	1.43e-04	-9.21e-04	-1.39e-03	8.49e-04	2.34e-04
## 3297	1.54e-02	1.14e-02	-2.48e-02	-6.75e-03	3.53e-03	3.99e-03	-1.17e-02
## 3298	-3.30e-03	-1.67e-02	1.39e-02	-1.45e-02	-3.90e-03	-2.62e-03	1.01e-02
## 3299	4.36e-03	1.36e-02	1.10e-02	-6.46e-03	-3.89e-03	5.61e-03	7.93e-03
## 3300	-3.55e-03	4.73e-03	9.77e-03	-3.52e-03	3.56e-03	-7.30e-03	3.77e-04
## 3301	-2.22e-02	1.56e-02	3.33e-02	2.03e-02	-7.39e-03	8.76e-03	-6.76e-03
## 3302	8.70e-03	-1.49e-02	-4.89e-03	-1.57e-02	-1.88e-02	2.34e-03	1.71e-02
## 3303	2.49e-04	-2.23e-03	6.50e-05	-5.78e-04	-2.15e-03	-9.51e-04	-3.31e-03
## 3304	5.79e-04	-4.08e-03	-1.25e-03	-7.79e-03	7.36e-03	-8.47e-03	-5.67e-03
## 3305	1.29e-03	-2.20e-03	-2.55e-04	1.36e-03	1.29e-03	-9.33e-04	8.88e-05
## 3306	1.44e-02	1.15e-02	-2.61e-02	-7.16e-03	2.50e-03	-8.37e-04	-1.04e-02
## 3307	3.04e-03	-7.57e-03	-5.06e-03	7.00e-03	2.42e-03	1.38e-02	1.10e-02
## 3308	5.78e-03	5.94e-03	-8.69e-04	1.43e-03	3.33e-03	-8.58e-03	-1.70e-03
## 3309	6.65e-03	5.55e-03	-7.64e-04	1.42e-03	3.03e-03	-9.13e-03	-1.82e-03
## 3310	-1.52e-02	-9.05e-03	-5.35e-03	7.43e-03	2.57e-03	2.13e-03	1.34e-02
## 3311	3.92e-03	6.29e-03	1.18e-02	-4.66e-03	3.79e-03	-5.63e-03	-1.87e-03
## 3312	4.65e-03	-5.82e-03	-3.73e-03	-1.03e-02	9.88e-03	-4.30e-03	8.76e-03
## 3313	-8.15e-04	-3.08e-03	1.17e-03	3.90e-03	-4.79e-03	-3.05e-03	-3.51e-04
## 3314	3.13e-02	-1.81e-02	1.04e-02	-7.85e-03	-6.68e-03	1.31e-02	-2.96e-02
## 3315	-2.67e-02	1.61e-02	6.22e-03	-6.31e-03	-6.77e-03	-1.05e-03	1.38e-02
## 3316	1.04e-02	1.21e-02	2.59e-02	-1.81e-02	9.83e-03	-2.17e-03	-7.61e-03
## 3317	2.10e-04	6.07e-04	2.99e-04	7.35e-04	-9.80e-04	-1.12e-03	6.45e-04
## 3318	5.02e-03	8.93e-03	-1.82e-02	-7.26e-03	3.93e-03	-9.50e-04	6.24e-03
## 3319	3.59e-03	-3.47e-03	7.30e-04	5.53e-03	-6.73e-03	3.41e-03	-3.19e-04

##	3320	-2.00e-02	-1.80e-02	-1.08e-02	6.17e-03	4.35e-03	2.23e-03	1.95e-02
##	3321	5.77e-03	-9.84e-03	8.61e-03	-4.05e-03	-1.44e-03	-1.72e-03	5.74e-03
##	3322	-1.79e-02	-2.56e-02	-6.84e-02	-2.87e-02	2.46e-03	-1.32e-02	1.36e-02
##	3323	-7.71e-03	5.10e-03	-6.16e-03	-5.83e-03	6.35e-03	-7.29e-04	9.53e-04
##	3324	-2.37e-02	-1.92e-02	-1.34e-02	5.88e-03	4.35e-03	-4.11e-03	2.23e-02
##	3325	1.10e-03	-9.52e-03	-4.72e-03	-1.82e-02	1.26e-02	1.72e-03	-2.80e-03
##	3326	4.49e-03	-1.57e-02	-3.21e-02	-2.46e-02	9.65e-03	-1.15e-02	1.02e-02
##	3327	2.88e-02	-1.84e-02	6.26e-03	-4.77e-03	-8.34e-03	1.47e-02	6.08e-03
##	3328	6.68e-05	7.86e-04	4.29e-04	1.26e-03	-1.41e-03	-1.90e-03	1.44e-04
##	3329	-1.36e-02	1.71e-02	1.75e-02	-1.75e-02	-2.28e-04	-9.09e-03	9.04e-03
##	3330	9.10e-03	6.62e-03	-2.09e-03	3.02e-03	3.12e-03	-5.10e-03	-1.23e-02
##	3331	6.61e-04	1.90e-03	-2.32e-04	5.36e-04	1.47e-03	-3.06e-03	-8.49e-04
##	3332	-2.02e-02	-1.99e-02	-1.69e-02	8.91e-03	3.28e-03	-3.21e-03	-7.73e-03
##	3333	-8.04e-03	1.49e-02	9.27e-03	-7.36e-03	-2.10e-03	-1.34e-02	-1.33e-02
##	3334	-7.35e-03	5.20e-03	-4.12e-04	-5.16e-04	5.36e-03	2.78e-03	7.94e-03
##	3335	2.35e-03	8.68e-03	-1.86e-02	-6.84e-03	2.99e-03	2.03e-03	6.98e-03
##	3336	-1.23e-02	-7.87e-03	1.67e-02	8.06e-03	-1.89e-03	1.42e-02	-1.15e-03
##	3337	1.14e-03	6.31e-03	-3.08e-03	5.81e-03	2.73e-03	2.31e-03	9.44e-03
##	3338	2.37e-03	-2.75e-03	-2.42e-04	1.47e-03	1.68e-03	-3.88e-03	1.20e-05
##	3339	1.79e-02	-1.23e-02	1.06e-02	-5.71e-03	-2.42e-03	-5.11e-04	5.31e-03
##	3340	3.69e-05	-6.34e-03	-7.15e-03	-5.63e-03	6.66e-03	-2.67e-03	-8.39e-04
##	3341	-9.86e-03	-2.32e-02	4.85e-02	1.69e-02	-9.69e-03	-7.77e-04	-1.86e-02
##	3342	-3.51e-04	9.25e-04	2.49e-04	-7.04e-04	-7.10e-04	-1.09e-03	3.27e-04
##	3343	-5.83e-03	-9.04e-03	1.61e-02	1.48e-02	-4.39e-03	-4.05e-03	-6.25e-04
##	3344	-1.04e-02	9.11e-03	1.10e-02	1.72e-02	-1.12e-02	-4.86e-03	8.13e-03
##	3345	1.45e-02	-1.78e-02	7.29e-03	-4.45e-03	-7.13e-03	1.65e-02	9.42e-03
##	3346	-1.57e-02	2.38e-02	6.43e-03	-9.24e-03	-8.91e-03	-1.14e-02	1.27e-02
##	3347	4.16e-03	8.47e-03	7.62e-03	-3.26e-03	-1.27e-03	-2.82e-03	5.42e-03
##	3348	2.44e-03	1.93e-02	-1.92e-02	-3.44e-02	2.27e-02	1.66e-03	1.78e-02
##	3349	-1.29e-03	-1.98e-03	-6.51e-04	2.04e-03	7.36e-04	2.64e-03	3.74e-03
##	3350	-3.14e-04	-1.88e-04	-1.39e-04	-1.94e-04	2.42e-04	-1.62e-04	9.75e-05
##	3351	8.35e-03	2.10e-02	3.89e-03	1.82e-02	2.24e-02	1.79e-02	3.55e-02
##	3352	-1.10e-02	2.13e-02	-2.52e-03	-2.93e-02	4.46e-02	5.51e-03	1.35e-02
##	3353	-6.74e-04	3.65e-03	-3.75e-04	2.09e-03	1.71e-03	4.17e-03	-1.16e-03
##	3354	7.95e-03	5.78e-03	-1.88e-03	2.92e-03	2.68e-03	1.75e-03	-1.79e-03
##	3355	4.48e-03	-1.36e-02	1.01e-02	-7.40e-03	-3.17e-03	-8.29e-03	-1.19e-02
##	3356	2.61e-03	-2.63e-03	5.87e-03	3.78e-03	-1.08e-03	3.64e-03	-4.88e-03
##	3357	-2.45e-02	2.01e-02	6.82e-03	-6.16e-03	-9.85e-03	1.25e-02	1.33e-02
##	3358	9.28e-04	3.05e-03	-1.91e-03	-3.82e-03	4.45e-03	3.62e-04	4.75e-03
##	3359	-2.37e-02	1.28e-02	1.50e-02	2.28e-02	-1.68e-02	-6.91e-03	1.10e-02
##	3360	-1.23e-03	1.70e-03	8.68e-05	8.81e-04	1.36e-03	-2.20e-03	3.27e-04
##	3361	-8.55e-03	1.43e-02	-1.39e-02	-2.30e-02	1.89e-02	-1.55e-03	1.70e-02
##	3362	1.33e-03	1.17e-03	-2.39e-04	1.27e-03	5.89e-04	-2.26e-05	-2.13e-03
##	3363	-5.03e-03	-1.12e-02	-9.94e-03	1.19e-02	1.25e-03	-7.44e-04	-2.55e-03
##	3364	5.65e-03	-1.31e-02	3.25e-02	1.04e-02	-2.72e-03	-5.74e-03	-2.84e-02
##	3365	9.47e-03	-4.95e-03	-2.59e-03	-1.03e-03	-6.67e-03	7.91e-03	6.96e-03
##	3366	-5.54e-02	2.65e-02	7.12e-04	2.34e-02	2.69e-02	2.06e-02	7.42e-03
##	3367	5.57e-03	1.08e-02	2.14e-02	1.57e-02	-5.66e-03	2.20e-03	-4.29e-03
##	3368	1.16e-02	9.20e-03	-1.88e-02	-5.93e-03	3.21e-03	1.65e-03	4.93e-03
##	3369	-5.06e-03	2.10e-02	-5.69e-02	-1.22e-02	5.68e-04	8.29e-03	1.32e-02

##	3370	-2.09e-04	4.08e-03	-1.96e-04	1.30e-04	3.52e-03	-1.02e-02	-2.13e-03
##	3371	1.55e-02	-7.11e-03	9.81e-05	-7.22e-03	-7.13e-03	-1.20e-02	-2.26e-03
##	3372	3.12e-04	-1.41e-03	7.54e-04	1.65e-03	-2.34e-03	-2.87e-03	1.58e-03
##	3373	-1.29e-03	-5.44e-03	1.71e-03	6.11e-03	-8.96e-03	-2.79e-03	-5.22e-04
##	3374	7.27e-03	-6.11e-03	-7.84e-04	1.54e-03	3.08e-03	-7.94e-03	-1.78e-03
##	3375	-1.00e-03	-6.01e-03	-1.00e-02	9.64e-03	-4.07e-03	-6.40e-04	5.10e-03
##	3376	6.47e-03	-3.33e-03	-6.42e-04	3.33e-03	1.29e-03	1.05e-03	-1.53e-03
##	3377	3.61e-04	-2.56e-03	2.00e-04	-2.33e-05	2.40e-03	-6.02e-03	2.73e-03
##	3378	1.12e-02	-1.19e-02	1.28e-02	2.33e-02	-1.47e-02	4.73e-03	4.38e-03
##	3379	1.51e-03	1.49e-02	6.76e-03	1.29e-02	1.89e-02	2.73e-03	-1.52e-02
##	3380	1.81e-03	-9.62e-03	8.71e-03	-5.34e-03	-1.43e-03	-5.32e-03	6.22e-03
##	3381	1.43e-03	-1.91e-03	-1.14e-03	-2.51e-03	2.64e-03	1.53e-03	-3.17e-03
##	3382	6.43e-03	-6.00e-03	-9.71e-04	1.90e-03	2.92e-03	-5.03e-03	-1.27e-03
##	3383	5.60e-04	-2.09e-03	-1.50e-03	-2.40e-03	2.43e-03	4.66e-03	-1.87e-04
##	3384	-3.25e-02	1.88e-02	-1.36e-02	5.28e-03	5.01e-03	-3.60e-04	2.26e-02
##	3385	-1.76e-04	-4.98e-04	2.50e-04	7.09e-04	-8.09e-04	-1.04e-03	-1.04e-04
##	3386	5.50e-03	5.38e-03	-7.87e-04	1.51e-03	3.02e-03	-6.50e-03	-1.78e-03
##	3387	-5.82e-03	-4.40e-03	-9.01e-04	-1.03e-03	-4.52e-03	7.04e-03	7.13e-04
##	3388	-5.18e-03	5.48e-03	-4.96e-03	-5.93e-03	6.83e-03	-1.02e-02	1.84e-03
##	3389	-3.04e-03	6.00e-03	-1.92e-03	4.04e-03	3.19e-03	-1.23e-03	-9.81e-03
##	3390	-1.16e-03	4.10e-03	-3.60e-03	5.36e-03	3.94e-04	2.78e-03	1.05e-05
##	3391	-1.02e-03	-3.83e-03	-1.46e-03	-2.35e-04	-4.64e-03	-1.06e-03	6.42e-03
##	3392	-2.95e-03	2.06e-03	1.11e-03	2.21e-03	-3.09e-03	1.35e-03	3.18e-03
##	3393	3.03e-03	-5.18e-03	-3.32e-03	2.56e-04	-7.29e-03	-1.87e-03	2.91e-04
##	3394	2.82e-03	-5.57e-03	-1.42e-03	5.54e-03	2.22e-03	-2.98e-03	-1.03e-02
##	3395	-1.71e-02	1.71e-02	-1.35e-02	1.12e-02	3.78e-03	1.56e-04	-6.79e-03
##	3396	-1.44e-04	4.49e-04	9.87e-05	-4.87e-04	-2.76e-04	-6.39e-04	-1.23e-04
##	3397	-4.72e-03	9.66e-03	9.44e-03	-4.55e-03	-1.89e-03	-3.33e-03	8.17e-03
##	3398	8.35e-03	-5.51e-03	-9.06e-04	1.82e-03	2.73e-03	-8.35e-03	-1.34e-03
##	3399	-5.42e-04	-1.68e-03	4.14e-04	3.16e-03	-3.35e-03	2.89e-04	5.82e-05
##	3400	8.24e-04	-4.74e-03	-2.53e-03	-2.20e-04	-6.94e-03	3.91e-03	1.28e-03
##	3401	2.67e-04	-2.47e-03	-3.34e-04	1.55e-03	1.38e-03	1.14e-03	2.73e-04
##	3402	1.29e-04	-4.10e-04	1.01e-03	-3.88e-04	4.61e-04	8.55e-04	1.12e-04
##	3403	2.23e-03	2.17e-02	7.52e-03	-7.10e-03	-8.95e-03	1.53e-02	9.06e-03
##	3404	1.02e-03	-2.70e-03	5.89e-03	-1.88e-03	2.18e-03	-3.51e-03	-8.66e-06
##	3405	7.07e-03	-1.90e-02	5.93e-03	-6.64e-03	-8.76e-03	1.48e-02	1.15e-02
##	3406	4.27e-03	-1.71e-02	-2.78e-02	1.72e-02	-9.32e-03	5.90e-04	5.06e-03
##	3407	-9.06e-04	3.74e-03	1.63e-03	-3.68e-03	-2.34e-03	-5.86e-03	-3.42e-04
##	3408	3.21e-03	-1.60e-02	-9.16e-03	-7.93e-03	-2.17e-02	4.92e-03	1.73e-02
##	3409	-2.39e-03	-1.30e-03	-1.63e-04	1.11e-03	6.95e-04	1.09e-03	2.64e-03
##	3410	4.10e-02	2.73e-02	1.58e-02	-1.15e-03	3.38e-02	-4.19e-03	-6.76e-03
##	3411	1.48e-02	1.21e-02	1.15e-03	1.96e-02	-2.65e-02	7.17e-03	-8.91e-03
##	3412	7.61e-03	-6.93e-03	3.16e-04	-6.59e-03	-7.63e-03	-4.11e-03	-2.27e-03
##	3413	6.72e-03	7.69e-03	-8.43e-03	-9.09e-03	8.94e-03	5.40e-04	-2.59e-03
##	3414	-3.38e-03	1.42e-03	-4.17e-04	-8.37e-05	-1.79e-03	-6.25e-04	3.42e-03
##	3415	1.95e-02	-8.65e-03	-5.05e-03	7.15e-03	3.38e-03	1.54e-03	-2.09e-02
##	3416	5.50e-04	1.24e-03	1.03e-03	1.26e-03	-1.71e-03	1.71e-03	-7.10e-04
##	3417	-1.55e-05	1.53e-04	5.05e-05	-2.06e-04	-6.07e-05	-1.31e-04	-2.80e-04
##	3418	9.61e-03	-2.15e-02	-6.25e-03	-3.16e-02	4.71e-02	1.07e-02	7.76e-03
##	3419	4.39e-03	-1.12e-02	8.69e-03	-5.33e-03	-2.33e-03	-7.49e-03	-9.61e-03

##	3420	-1.96e-02	-1.23e-02	-5.27e-03	-6.62e-03	-1.50e-02	-8.91e-03	2.06e-02
##	3421	1.88e-02	-1.28e-02	9.07e-03	-3.78e-03	-3.28e-03	3.03e-03	-1.47e-02
##	3422	5.16e-03	-1.99e-02	-2.40e-02	-3.48e-02	2.37e-02	6.86e-03	-1.19e-02
##	3423	-1.08e-02	-2.09e-02	-3.64e-02	1.93e-02	-1.24e-02	-1.46e-03	8.43e-03
##	3424	-1.12e-03	1.15e-03	2.05e-06	3.21e-04	1.10e-03	-1.92e-03	-2.56e-04
##	3425	-3.28e-03	3.74e-03	-5.94e-04	8.83e-03	-8.97e-03	1.82e-03	6.36e-03
##	3426	-6.18e-03	-1.23e-02	1.47e-02	1.99e-02	-1.38e-02	-5.88e-03	7.79e-03
##	3427	-3.28e-03	2.36e-03	1.38e-03	2.42e-03	-3.49e-03	2.46e-03	3.24e-03
##	3428	2.51e-03	6.40e-03	-5.27e-03	8.49e-03	1.14e-03	-1.22e-03	-1.84e-03
##	3429	3.14e-05	-6.56e-03	-7.51e-05	2.48e-03	3.72e-03	-3.25e-03	-1.77e-03
##	3430	-2.58e-02	1.89e-02	-1.37e-02	6.17e-03	4.41e-03	-6.93e-03	2.27e-02
##	3431	3.69e-03	3.46e-03	-7.19e-04	2.09e-03	1.85e-03	-2.33e-03	-3.17e-04
##	3432	-3.66e-03	-7.02e-03	-3.96e-03	6.23e-03	2.35e-03	3.65e-04	-1.11e-02
##	3433	-4.91e-04	-1.12e-02	1.28e-02	1.92e-02	-1.30e-02	-3.31e-03	6.67e-03
##	3434	2.61e-02	-2.56e-02	-4.72e-02	1.54e-02	-1.78e-02	5.27e-02	-2.57e-03
##	3435	-5.89e-03	3.21e-03	1.73e-04	-4.58e-04	3.59e-03	9.20e-04	4.93e-03
##	3436	2.97e-03	-3.79e-03	-2.95e-04	-1.89e-03	-3.82e-03	1.29e-03	-7.08e-04
##	3437	1.07e-02	1.43e-02	-9.37e-03	1.08e-02	1.73e-03	1.44e-02	1.23e-02
##	3438	6.01e-03	7.98e-03	1.66e-02	-8.92e-03	6.67e-03	-2.63e-03	8.43e-03
##	3439	-8.46e-03	5.11e-03	-3.44e-03	-8.92e-03	8.28e-03	1.72e-03	1.00e-02
##	3440	4.48e-03	-1.03e-02	-1.01e-02	-1.49e-02	1.36e-02	-7.57e-04	-2.90e-03
##	3441	4.72e-03	-6.85e-03	-5.67e-03	9.11e-03	1.14e-03	-2.12e-03	-2.10e-03
##	3442	-2.31e-02	1.00e-02	-7.81e-03	9.27e-03	2.92e-03	-2.35e-03	1.67e-03
##	3443	-1.27e-02	-2.14e-02	-6.02e-04	2.14e-02	2.46e-02	9.30e-03	8.94e-03
##	3444	-4.96e-04	-9.46e-03	-5.92e-03	-8.96e-04	-1.22e-02	-4.02e-03	-1.36e-04
##	3445	-4.80e-03	7.93e-03	1.42e-02	-5.74e-03	4.85e-03	-5.65e-03	-1.03e-03
##	3446	-2.29e-02	7.64e-03	1.51e-02	-7.34e-03	5.40e-03	2.60e-03	1.57e-02
##	3447	-1.04e-02	1.21e-02	-5.06e-03	3.04e-03	4.80e-03	-1.09e-02	-5.97e-03
##	3448	-5.55e-03	-8.26e-03	-8.90e-03	-7.30e-03	8.08e-03	-3.35e-03	2.34e-05
##	3449	-1.02e-04	-1.24e-02	2.77e-02	-3.94e-03	-2.06e-02	4.72e-03	1.58e-02
##	3450	2.66e-03	-9.36e-03	6.97e-03	-3.26e-03	-2.19e-03	-5.31e-03	-7.37e-03
##	3451	-1.80e-04	4.80e-04	1.12e-04	-6.14e-04	-1.79e-04	-1.29e-04	7.12e-04
##	3452	1.37e-02	-7.74e-03	-1.72e-03	1.90e-03	3.62e-03	-1.14e-02	-3.07e-03
##	3453	6.86e-04	1.46e-02	1.23e-02	-1.12e-02	-1.59e-03	-6.73e-03	-1.53e-02
##	3454	2.52e-03	-3.52e-03	8.49e-05	-1.97e-03	-3.01e-03	-3.05e-03	-4.73e-03
##	3455	8.43e-03	-1.05e-02	-9.97e-03	-1.42e-02	1.10e-02	6.19e-03	1.26e-02
##	3456	1.09e-04	-4.59e-04	-8.36e-05	-1.18e-04	-5.03e-04	7.75e-04	1.39e-05
##	3457	8.15e-03	-1.01e-02	9.01e-03	-4.45e-03	-1.49e-03	-3.93e-03	5.86e-03
##	3458	-6.43e-03	1.39e-02	-1.18e-02	1.25e-02	2.47e-03	9.25e-03	-3.43e-03
##	3459	3.83e-03	-1.30e-02	-1.54e-02	-2.23e-02	1.59e-02	1.14e-03	1.61e-02
##	3460	-8.92e-03	1.19e-02	-5.22e-03	3.70e-03	4.36e-03	-1.06e-02	-4.98e-03
##	3461	-4.66e-04	-1.02e-03	1.71e-04	-7.02e-06	9.80e-04	-2.34e-03	1.20e-03
##	3462	4.67e-03	-8.24e-03	-1.71e-02	-5.73e-03	2.62e-03	-4.27e-03	-6.38e-03
##	3463	7.51e-03	5.05e-03	5.39e-04	-5.57e-03	-5.05e-03	-8.75e-03	-1.19e-03
##	3464	-1.15e-02	-2.18e-02	4.54e-02	1.87e-02	-8.50e-03	1.24e-02	2.01e-02
##	3465	6.00e-03	9.46e-03	-1.02e-03	-8.39e-03	-1.03e-02	-7.60e-03	-3.03e-03
##	3466	1.52e-04	-2.19e-03	-3.35e-04	1.48e-03	1.21e-03	1.81e-03	2.89e-04
##	3467	-1.26e-03	-1.22e-02	2.21e-02	1.75e-02	-6.13e-03	5.98e-03	-4.88e-03
##	3468	-2.10e-02	-1.93e-02	2.05e-02	2.62e-02	-2.00e-02	-1.45e-03	7.99e-03
##	3469	-3.54e-03	6.66e-03	1.51e-02	1.79e-03	-1.36e-02	4.02e-03	4.08e-04

## 3470	3.54e-03	-4.27e-03	9.30e-04	-4.15e-03	-3.49e-03	-9.34e-03	9.99e-05
## 3471	-9.84e-03	8.78e-03	1.63e-02	-6.95e-03	5.86e-03	-6.24e-03	7.63e-04
## 3472	-1.99e-02	-1.81e-02	-1.55e-02	1.06e-02	2.34e-03	2.46e-03	-5.92e-03
## 3473	1.68e-02	-1.03e-02	-4.38e-03	8.34e-03	4.27e-03	-1.24e-03	-2.44e-02
## 3474	1.18e-02	2.03e-02	7.67e-03	-5.52e-03	-6.40e-03	1.27e-02	7.80e-03
## 3475	1.68e-03	-3.10e-03	1.33e-03	3.79e-03	-5.38e-03	-7.97e-03	-1.49e-03
## 3476	-8.79e-03	-1.35e-02	-5.69e-03	4.75e-03	4.31e-03	-1.09e-02	-2.46e-02
## 3477	-4.82e-03	9.57e-03	-4.72e-03	5.29e-03	2.90e-03	-3.45e-03	-3.28e-03
## 3478	-7.24e-03	-1.34e-02	-8.84e-03	7.65e-03	3.27e-03	8.97e-03	1.38e-02
## 3479	-3.45e-03	-1.32e-02	2.55e-02	-1.69e-02	8.62e-03	8.43e-03	1.60e-02
## 3480	1.03e-02	-1.21e-02	9.65e-03	-4.50e-03	-2.47e-03	5.76e-03	6.43e-03
## 3481	-5.92e-03	7.37e-03	-4.75e-03	7.76e-03	2.49e-03	-3.02e-03	1.22e-04
## 3482	-4.82e-04	2.44e-03	-3.12e-04	6.70e-04	2.04e-03	-1.93e-03	-1.11e-03
## 3483	-7.19e-03	1.31e-02	-7.01e-03	5.99e-03	4.25e-03	-1.23e-03	-2.91e-02
## 3484	2.47e-02	-6.62e-03	-3.98e-03	-1.24e-02	1.15e-02	-1.16e-03	-1.74e-02
## 3485	-6.94e-03	-1.92e-02	4.19e-03	1.84e-02	2.46e-02	1.27e-02	9.29e-03
## 3486	2.63e-03	3.33e-03	-1.73e-03	-5.20e-03	5.06e-03	1.31e-03	-8.97e-04
## 3487	-1.34e-02	-1.24e-02	-5.70e-03	3.03e-03	4.57e-03	-1.52e-02	1.69e-02
## 3488	-4.53e-03	1.23e-02	-5.34e-03	3.88e-03	4.16e-03	-1.63e-02	-4.80e-03
## 3489	-4.03e-03	1.13e-02	7.34e-03	8.63e-03	1.55e-02	4.38e-03	5.42e-03
## 3490	1.22e-02	-9.35e-03	-1.92e-02	-5.99e-03	3.09e-03	3.72e-03	5.31e-03
## 3491	-1.29e-02	1.08e-02	-6.30e-03	7.21e-03	2.93e-03	2.36e-03	1.50e-02
## 3492	-2.24e-02	-2.03e-02	3.99e-02	-3.66e-02	1.52e-02	-1.27e-02	2.18e-02
## 3493	2.97e-02	-2.14e-02	1.64e-02	-1.94e-02	-3.92e-03	-2.53e-02	-3.33e-02
## 3494	-2.92e-02	2.61e-02	3.67e-03	-6.33e-03	-1.31e-02	3.49e-02	6.04e-03
## 3495	-3.60e-03	-8.69e-03	-1.00e-02	-9.86e-03	9.51e-03	-3.11e-03	-3.48e-04
## 3496	-1.27e-04	3.68e-04	-1.91e-05	3.58e-05	3.58e-04	-4.44e-05	4.79e-04
## 3497	-1.71e-04	7.63e-03	-4.30e-03	7.54e-03	2.81e-03	5.63e-03	1.11e-02
## 3498	-3.50e-03	5.80e-03	-4.62e-03	7.72e-03	7.87e-04	-6.86e-04	-2.30e-05
## 3499	6.69e-04	-3.83e-03	-2.31e-04	3.35e-04	3.35e-03	-8.74e-03	-2.01e-03
## 3500	-1.93e-02	1.22e-02	-7.92e-03	4.54e-03	3.88e-03	-1.57e-02	2.00e-02
## 3501	4.26e-04	1.58e-02	-1.22e-02	1.02e-02	2.99e-03	6.69e-03	-7.82e-03
## 3502	5.44e-03	5.55e-03	-8.55e-04	1.56e-03	3.09e-03	-6.59e-03	-1.65e-03
## 3503	1.57e-04	-2.55e-04	-1.47e-04	4.00e-04	6.52e-05	-4.03e-04	2.35e-05
## 3504	-1.04e-02	1.21e-02	-5.05e-03	3.03e-03	4.80e-03	-1.09e-02	-5.99e-03
## 3505	-2.01e-02	-1.98e-02	-1.69e-02	9.12e-03	3.24e-03	-1.32e-03	-7.69e-03
## 3506	-2.16e-04	2.98e-04	-6.65e-05	3.12e-04	2.05e-04	4.40e-04	-3.90e-04
## 3507	1.20e-03	2.76e-03	7.01e-03	3.62e-03	-1.24e-04	3.48e-03	-4.30e-03
## 3508	7.02e-03	3.91e-03	1.19e-04	-3.36e-03	-3.94e-03	-5.31e-03	-4.71e-04
## 3509	-5.90e-04	3.69e-03	-1.04e-03	3.53e-05	-4.56e-03	-4.05e-03	7.55e-04
## 3510	6.69e-03	8.37e-03	-3.13e-03	4.05e-03	3.39e-03	1.17e-04	-3.88e-03
## 3511	1.10e-02	-1.87e-02	7.64e-03	-5.52e-03	-7.18e-03	1.88e-02	1.02e-02
## 3512	-3.31e-02	-3.27e-02	2.57e-02	3.19e-02	-3.89e-02	1.60e-02	-4.78e-02
## 3513	5.86e-03	5.74e-03	-7.89e-04	1.38e-03	3.24e-03	-8.45e-03	-1.86e-03
## 3514	-2.31e-02	1.50e-02	3.13e-02	2.02e-02	-7.33e-03	9.78e-03	-5.04e-03
## 3515	6.64e-03	-4.98e-03	-2.14e-03	-9.60e-03	7.55e-03	-1.72e-03	-9.07e-04
## 3516	5.66e-04	1.51e-03	7.06e-05	3.33e-04	1.46e-03	-1.87e-03	-2.03e-04
## 3517	3.20e-04	4.43e-04	3.00e-05	-2.40e-04	-4.15e-04	2.24e-04	6.69e-05
## 3518	-3.00e-04	1.51e-03	1.06e-03	1.42e-03	-2.12e-03	2.12e-03	-2.63e-04
## 3519	4.06e-03	9.28e-03	-1.90e-02	-8.13e-03	4.32e-03	1.73e-04	6.26e-03

##	3520	-4.70e-03	1.93e-02	-3.09e-02	1.86e-02	-1.04e-02	-3.42e-03	7.62e-03
##	3521	1.48e-02	-1.81e-02	-5.07e-02	-1.28e-02	3.41e-03	1.14e-02	1.15e-02
##	3522	5.48e-03	-1.23e-02	1.24e-02	2.33e-02	-1.45e-02	1.11e-02	5.31e-03
##	3523	-3.56e-02	-2.49e-02	7.48e-03	-1.09e-02	-1.18e-02	4.71e-03	8.52e-03
##	3524	-1.34e-02	2.01e-02	3.92e-02	-3.56e-02	1.50e-02	-7.03e-03	1.78e-02
##	3525	1.80e-02	-1.25e-02	-4.61e-03	6.61e-03	3.57e-03	8.47e-03	-2.84e-02
##	3526	2.05e-03	-2.91e-03	-2.14e-04	1.47e-03	1.78e-03	-3.45e-03	-8.61e-05
##	3527	-1.42e-02	2.04e-02	9.79e-03	-1.04e-02	-4.29e-03	-4.56e-03	1.36e-02
##	3528	5.17e-03	-5.65e-03	-7.56e-04	2.15e-03	3.29e-03	-7.92e-03	-7.84e-04
##	3529	-2.59e-02	2.43e-02	7.60e-04	-5.60e-02	5.90e-02	7.75e-04	-3.68e-02
##	3530	-8.98e-05	3.75e-03	-1.55e-03	2.23e-04	-4.82e-03	-4.20e-03	3.60e-04
##	3531	-6.13e-03	-1.97e-02	-1.70e-02	6.99e-03	5.10e-03	1.63e-03	-1.28e-02
##	3532	-2.58e-03	4.39e-03	-1.60e-04	-3.22e-03	-4.75e-03	-6.28e-04	-1.11e-03
##	3533	3.70e-03	-4.02e-03	2.87e-04	-3.58e-04	4.47e-03	3.57e-03	-8.58e-03
##	3534	1.81e-02	-1.83e-02	8.30e-03	-6.51e-03	-6.90e-03	1.00e-02	7.85e-03
##	3535	-1.49e-03	2.06e-03	4.23e-04	-3.57e-04	2.55e-03	2.56e-03	-3.73e-03
##	3536	-1.82e-03	-6.36e-03	-5.16e-03	-8.96e-03	8.56e-03	7.63e-03	1.11e-02
##	3537	7.78e-03	5.44e-03	-6.16e-04	-3.00e-03	-5.50e-03	-1.26e-03	7.45e-03
##	3538	1.35e-03	-2.37e-03	1.69e-03	2.16e-03	-3.05e-03	3.25e-03	-1.01e-03
##	3539	-1.04e-03	-1.80e-02	1.97e-02	2.86e-02	-2.30e-02	-6.14e-03	9.05e-03
##	3540	-9.42e-03	-1.54e-02	-1.50e-02	1.61e-02	-3.96e-04	1.05e-02	-3.12e-03
##	3541	-3.01e-04	-3.62e-03	1.48e-03	3.85e-03	-5.67e-03	7.90e-04	5.47e-03
##	3542	-2.00e-03	-2.89e-03	-7.03e-03	2.05e-03	-2.81e-03	1.73e-03	4.53e-03
##	3543	-3.36e-03	1.96e-03	-1.26e-03	2.75e-03	2.91e-04	5.47e-04	9.93e-04
##	3544	-1.94e-03	-4.75e-03	-4.79e-04	5.83e-04	4.56e-03	-3.85e-04	-1.54e-03
##	3545	4.99e-03	-1.71e-02	1.19e-02	-1.29e-02	-2.30e-03	-1.61e-02	-2.06e-02
##	3546	4.97e-03	1.19e-02	3.21e-03	-1.73e-02	2.80e-02	-2.43e-03	-1.18e-02
##	3547	-2.21e-03	2.37e-03	-1.79e-03	3.38e-03	4.87e-04	-3.49e-03	8.17e-04
##	3548	2.41e-04	-1.46e-03	3.73e-04	-1.71e-03	-9.01e-04	-2.37e-03	1.84e-03
##	3549	-2.12e-02	-1.84e-02	-4.42e-03	2.67e-02	-4.14e-02	1.01e-03	2.28e-02
##	3550	1.15e-02	-1.26e-02	1.14e-02	-8.27e-03	-2.26e-03	-4.50e-03	5.61e-03
##	3551	2.16e-03	3.31e-03	7.38e-04	-3.34e-03	-2.85e-03	-6.71e-03	-2.47e-05
##	3552	2.31e-02	-1.07e-02	2.54e-02	1.31e-02	-3.25e-03	6.62e-03	1.07e-02
##	3553	-1.12e-02	1.41e-02	-6.88e-03	-6.23e-03	-1.73e-02	-9.45e-03	-3.63e-03
##	3554	-2.86e-04	6.89e-04	1.16e-06	4.45e-04	5.11e-04	-6.02e-04	1.57e-04
##	3555	-1.42e-02	9.41e-03	-3.22e-03	3.25e-03	4.25e-03	-4.19e-03	-3.78e-03
##	3556	1.62e-02	-1.70e-02	1.26e-02	-1.11e-02	-2.49e-03	-1.04e-02	4.13e-03
##	3557	2.23e-04	-9.66e-03	-1.80e-02	-6.62e-03	3.17e-03	-1.47e-03	7.71e-03
##	3558	-4.04e-03	1.76e-02	3.37e-02	1.87e-02	-7.17e-03	7.49e-03	-7.97e-03
##	3559	-1.31e-02	5.90e-03	-5.49e-03	7.97e-03	8.36e-04	-8.65e-04	1.62e-03
##	3560	-1.18e-03	-1.94e-02	8.36e-03	-4.96e-03	-7.92e-03	1.59e-02	1.08e-02
##	3561	6.35e-03	-3.89e-03	1.13e-04	8.30e-03	-8.47e-03	2.45e-03	-7.28e-03
##	3562	-1.98e-02	1.57e-02	6.83e-03	1.35e-02	2.19e-02	-8.24e-03	-1.72e-02
##	3563	2.15e-02	-1.41e-02	-1.03e-02	9.87e-03	3.06e-03	1.33e-02	1.30e-02
##	3564	2.08e-04	3.24e-03	-2.55e-04	1.54e-03	2.17e-03	-2.32e-03	-5.11e-05
##	3565	-4.19e-04	1.46e-03	4.41e-04	-1.24e-03	-1.09e-03	-2.62e-03	4.34e-04
##	3566	2.97e-03	-1.06e-02	-5.92e-03	7.95e-03	1.41e-03	1.16e-02	-4.09e-03
##	3567	-2.12e-02	-1.73e-02	3.38e-02	1.74e-02	-7.94e-03	9.25e-03	1.95e-02
##	3568	9.94e-03	-3.89e-03	-4.70e-04	-2.47e-03	-4.37e-03	4.28e-04	-7.64e-04
##	3569	1.37e-02	-7.94e-03	-1.83e-03	1.95e-03	3.68e-03	-1.15e-02	-2.86e-03

##	3570	-3.22e-03	7.53e-03	-5.55e-03	8.43e-03	1.22e-03	1.99e-02	1.31e-02
##	3571	9.88e-05	-5.62e-05	-1.60e-05	1.05e-06	-6.25e-05	1.66e-04	-8.13e-05
##	3572	3.78e-03	-2.59e-02	7.50e-03	-1.87e-02	-1.08e-02	-1.45e-02	6.73e-03
##	3573	1.98e-03	-4.93e-03	-1.71e-03	3.95e-03	2.04e-03	7.41e-03	-1.63e-03
##	3574	-9.76e-03	1.18e-02	-9.46e-03	-4.59e-03	-1.89e-02	5.98e-03	-1.34e-03
##	3575	-4.14e-02	2.06e-02	-4.07e-03	-3.03e-02	4.41e-02	-1.58e-02	1.92e-02
##	3576	-2.27e-03	-5.87e-03	-1.43e-03	5.06e-04	5.29e-03	-1.65e-03	-9.77e-04
##	3577	-1.44e-02	-2.06e-02	-1.47e-02	7.59e-03	5.32e-03	4.83e-03	2.11e-02
##	3578	1.21e-03	5.26e-03	-8.30e-04	-2.62e-03	-6.10e-03	3.73e-03	8.64e-03
##	3579	-1.12e-02	1.68e-02	-1.41e-02	-3.28e-02	2.23e-02	8.41e-04	1.95e-02
##	3580	-1.36e-02	9.48e-03	2.24e-02	-1.30e-02	9.22e-03	1.39e-03	1.43e-02
##	3581	1.66e-03	-2.29e-02	5.00e-03	-6.80e-03	-1.03e-02	1.21e-02	-3.20e-02
##	3582	-5.81e-03	-9.21e-03	-1.67e-02	-7.11e-03	2.84e-03	-2.83e-03	8.40e-03
##	3583	2.92e-02	1.48e-02	-1.22e-02	-2.64e-02	1.84e-02	-7.00e-03	-3.46e-02
##	3584	1.54e-03	8.66e-03	-3.29e-03	-4.53e-03	-1.17e-02	7.40e-04	-1.67e-02
##	3585	2.19e-03	-1.51e-03	-8.93e-04	-2.29e-03	2.42e-03	2.12e-03	1.26e-04
##	3586	-1.45e-02	1.47e-02	7.75e-03	-4.86e-03	-6.21e-03	-1.07e-02	-1.69e-02
##	3587	7.92e-03	1.96e-02	7.53e-03	-5.09e-03	-6.28e-03	1.90e-02	7.85e-03
##	3588	2.42e-02	-1.32e-02	9.96e-03	-5.05e-03	-3.27e-03	-2.74e-03	-1.67e-02
##	3589	-6.51e-03	-1.32e-02	-7.61e-03	5.07e-03	4.01e-03	-8.58e-03	1.78e-02
##	3590	1.24e-02	1.14e-02	-2.56e-02	-7.69e-03	3.96e-03	7.76e-03	-1.26e-02
##	3591	-1.25e-02	2.23e-02	5.50e-03	-7.32e-03	-1.16e-02	9.35e-03	1.13e-02
##	3592	5.58e-03	1.64e-02	-1.44e-02	-2.78e-02	1.93e-02	9.81e-03	1.73e-02
##	3593	-1.84e-02	1.21e-02	3.36e-02	7.16e-03	-1.82e-03	-1.36e-02	-5.30e-03
##	3594	5.75e-03	-2.58e-03	-2.21e-04	-8.36e-04	-2.89e-03	3.56e-03	-4.88e-03
##	3595	5.52e-03	-1.90e-02	-4.34e-02	-1.70e-03	4.07e-02	-1.51e-02	6.27e-03
##	3596	5.41e-04	-3.71e-04	-4.95e-05	-1.06e-04	-3.94e-04	9.82e-04	1.90e-05
##	3597	1.14e-02	-5.73e-03	-3.63e-03	5.62e-03	1.49e-03	3.59e-03	-1.22e-02
##	3598	2.88e-02	-1.86e-02	6.32e-03	-5.07e-03	-8.42e-03	1.37e-02	6.40e-03
##	3599	2.44e-03	1.79e-03	-1.16e-04	-1.05e-03	-1.97e-03	2.80e-03	-1.14e-04
##	3600	-2.39e-03	7.16e-03	-4.08e-03	5.22e-03	2.35e-03	6.90e-03	-2.57e-03
##	3601	-8.10e-03	-9.17e-03	-1.02e-02	-8.06e-03	8.79e-03	-3.47e-03	1.54e-03
##	3602	-2.98e-03	-4.93e-03	3.43e-04	1.96e-03	2.92e-03	-1.55e-03	-5.98e-04
##	3603	4.52e-02	-1.77e-02	1.67e-02	-1.69e-02	-2.37e-03	-1.31e-02	-3.60e-04
##	3604	-1.89e-03	-9.07e-03	-8.09e-03	1.15e-02	6.46e-04	-2.50e-03	-1.59e-03
##	3605	-1.14e-02	9.54e-03	9.47e-03	-6.79e-03	-8.91e-04	-4.17e-03	8.63e-03
##	3606	-8.39e-03	8.58e-03	-3.77e-03	7.61e-03	3.37e-03	-6.24e-03	1.26e-02
##	3607	-2.35e-02	1.65e-02	-1.50e-02	1.06e-02	2.51e-03	3.58e-03	-5.75e-03
##	3608	-7.77e-03	9.19e-03	2.14e-02	1.39e-02	-3.04e-03	8.58e-03	1.44e-02
##	3609	5.21e-04	-1.06e-03	5.29e-04	1.17e-03	-1.62e-03	-8.14e-04	-2.12e-03
##	3610	-9.21e-03	-1.41e-02	-3.19e-02	2.63e-03	2.68e-02	-7.49e-03	1.00e-02
##	3611	-3.48e-03	-2.95e-03	5.91e-03	-2.32e-03	2.18e-03	2.61e-04	4.96e-03
##	3612	-1.07e-02	1.58e-02	-3.02e-02	2.34e-02	-1.11e-02	3.85e-03	-1.47e-02
##	3613	-1.24e-03	4.56e-03	-1.87e-03	-1.81e-03	-6.07e-03	6.04e-03	-8.47e-03
##	3614	-7.79e-03	6.98e-03	-1.08e-03	-8.01e-04	7.08e-03	8.29e-04	-1.35e-03
##	3615	9.41e-03	1.01e-02	2.19e-02	-1.47e-02	8.45e-03	5.79e-03	1.20e-02
##	3616	1.62e-02	2.03e-02	5.96e-03	1.92e-02	2.23e-02	3.45e-02	-2.89e-02
##	3617	-6.44e-03	5.58e-03	-2.16e-04	-8.75e-04	5.87e-03	3.06e-03	7.44e-03
##	3618	-2.44e-02	1.43e-02	2.62e-02	-1.89e-02	9.02e-03	3.25e-03	2.20e-02
##	3619	3.45e-03	-1.06e-02	2.02e-02	3.14e-03	-2.15e-02	1.25e-03	-1.83e-03

## 3620	8.74e-04	3.01e-03	1.27e-03	3.52e-03	-5.03e-03	-8.10e-03	-1.45e-03
## 3621	5.75e-03	5.95e-03	8.85e-04	9.95e-03	-1.32e-02	1.50e-03	-2.34e-03
## 3622	1.09e-03	-3.71e-03	-2.51e-04	1.66e-03	2.24e-03	-2.78e-03	5.80e-06
## 3623	1.73e-02	9.79e-03	-1.35e-03	3.75e-03	4.43e-03	6.20e-03	-8.05e-03
## 3624	2.86e-03	4.68e-03	3.47e-04	-3.51e-03	-3.79e-03	-8.90e-03	-6.76e-03
## 3625	-4.39e-02	2.58e-02	4.60e-03	-9.22e-03	-1.27e-02	4.46e-02	5.83e-03
## 3626	-1.05e-02	1.86e-02	-4.53e-02	3.51e-02	-1.79e-02	2.28e-02	1.12e-02
## 3627	-8.43e-03	-1.74e-02	-1.91e-02	-2.87e-02	1.93e-02	5.78e-03	-6.21e-03
## 3628	-3.06e-02	-2.12e-02	4.58e-02	1.26e-02	-6.74e-03	-6.40e-03	2.32e-02
## 3629	-8.37e-05	2.25e-04	5.34e-04	3.95e-04	-5.04e-05	-2.69e-04	1.62e-05
## 3630	2.76e-04	1.59e-03	8.43e-04	1.76e-03	-2.57e-03	-3.96e-03	1.74e-03
## 3631	6.64e-03	-4.14e-03	1.18e-03	6.20e-03	-8.34e-03	-3.48e-03	-8.00e-04
## 3632	-2.31e-02	-2.53e-02	4.62e-03	-8.89e-03	-1.38e-02	1.81e-02	6.39e-03
## 3633	-1.07e-03	1.98e-02	-4.63e-02	3.62e-02	-1.87e-02	2.60e-02	1.04e-02
## 3634	-7.96e-03	-1.23e-02	2.01e-02	-9.19e-03	6.33e-03	-8.14e-03	-1.19e-03
## 3635	-5.68e-03	-1.42e-02	-2.29e-02	1.81e-02	-8.10e-03	-4.35e-03	9.06e-03
## 3636	5.62e-04	-2.71e-03	-4.67e-04	2.82e-03	1.09e-03	-6.93e-04	-3.66e-04
## 3637	1.88e-02	-1.84e-02	3.59e-02	2.19e-02	-8.78e-03	1.17e-02	-1.66e-02
## 3638	-1.40e-04	2.08e-04	9.80e-05	2.97e-04	-3.31e-04	-3.86e-04	-3.37e-05
## 3639	-3.59e-04	7.94e-04	2.72e-04	1.65e-03	-1.58e-03	1.87e-04	-1.07e-03
## 3640	6.28e-03	-5.50e-03	-8.50e-04	1.86e-03	2.69e-03	-3.70e-03	-1.49e-03
## 3641	-1.63e-02	6.77e-03	-3.25e-03	6.06e-03	2.09e-03	3.44e-03	1.27e-02
## 3642	-3.33e-02	1.87e-02	4.19e-02	1.31e-02	-6.06e-03	-2.90e-03	2.11e-02
## 3643	-8.95e-03	-1.14e-02	-7.15e-03	-1.44e-03	-1.54e-02	-9.34e-04	4.50e-04
## 3644	3.05e-04	-2.52e-03	1.81e-04	1.13e-05	2.36e-03	-5.68e-03	2.73e-03
## 3645	-8.51e-04	1.69e-03	4.42e-03	2.69e-03	4.21e-05	4.70e-03	-2.41e-03
## 3646	6.74e-06	-6.26e-05	1.50e-04	-5.66e-05	6.89e-05	1.45e-04	1.71e-05
## 3647	3.37e-02	1.94e-02	-4.32e-02	-9.81e-03	3.71e-03	3.44e-02	-2.69e-02
## 3648	2.76e-03	5.35e-03	-2.38e-03	-7.47e-03	7.90e-03	-3.40e-03	7.96e-03
## 3649	2.68e-03	-1.28e-02	-1.34e-02	-2.14e-02	1.57e-02	7.66e-03	1.46e-02
## 3650	4.76e-03	-2.63e-03	-1.40e-03	-4.57e-03	4.00e-03	1.27e-03	-3.19e-04
## 3651	-8.54e-03	2.98e-03	7.81e-03	-3.91e-03	3.61e-03	7.58e-04	6.69e-04
## 3652	2.54e-03	-1.93e-03	-2.58e-05	-8.32e-04	-1.81e-03	-1.58e-03	-2.76e-03
## 3653	2.22e-03	-8.23e-03	-1.16e-03	2.99e-03	2.82e-03	4.52e-04	-3.92e-03
## 3654	1.21e-04	3.43e-03	-3.49e-03	-3.32e-03	4.25e-03	-2.65e-03	1.14e-04
## 3655	-7.47e-03	9.58e-03	-2.90e-03	3.46e-03	4.13e-03	-1.71e-02	1.51e-02
## 3656	-1.74e-02	-9.66e-03	-6.03e-03	9.92e-03	1.89e-03	2.08e-03	1.41e-02
## 3657	2.26e-02	2.32e-02	7.16e-03	-8.12e-03	-7.84e-03	1.04e-02	5.99e-03
## 3658	-5.49e-03	-2.11e-02	-1.60e-02	9.67e-03	4.27e-03	1.71e-02	1.73e-02
## 3659	-2.65e-03	1.05e-02	-2.52e-03	2.45e-03	4.22e-03	-3.11e-03	-4.86e-03
## 3660	-1.96e-03	2.17e-03	-2.04e-03	-2.08e-03	3.03e-03	-2.18e-03	5.59e-04
## 3661	6.06e-03	2.07e-02	1.47e-02	3.49e-03	2.89e-02	-6.72e-03	1.36e-03
## 3662	-1.83e-02	-1.67e-02	4.17e-02	-3.54e-03	-2.75e-02	-1.38e-02	2.21e-02
## 3663	2.65e-03	8.09e-03	-3.80e-03	-1.35e-02	1.22e-02	-7.29e-03	-2.08e-03
## 3664	1.55e-02	1.26e-02	-1.15e-02	1.32e-02	1.18e-03	7.16e-03	-6.56e-03
## 3665	7.70e-03	-3.41e-03	-5.61e-04	-1.72e-03	-3.81e-03	1.15e-03	-5.77e-03
## 3666	9.71e-03	1.07e-02	8.94e-03	-3.95e-03	-2.04e-03	3.04e-03	5.00e-03
## 3667	-5.84e-04	2.46e-02	2.08e-02	3.01e-02	-3.08e-02	-6.42e-03	4.01e-02
## 3668	1.76e-03	-1.64e-02	1.73e-02	-1.63e-02	-1.08e-03	-9.64e-03	6.25e-03
## 3669	2.00e-02	2.17e-02	6.28e-03	-5.53e-03	-7.81e-03	1.90e-02	6.27e-03

## 3670	7.39e-03	-6.50e-03	-8.86e-04	1.57e-03	3.26e-03	-8.74e-03	-1.61e-03
## 3671	9.93e-04	2.87e-03	-5.72e-05	1.85e-03	1.76e-03	1.42e-03	-7.17e-04
## 3672	-1.41e-02	-1.18e-02	-3.19e-03	2.04e-03	4.08e-03	-1.36e-02	1.74e-02
## 3673	2.42e-02	9.56e-03	-3.27e-04	-6.54e-03	-9.30e-03	4.68e-03	-2.06e-02
## 3674	-3.64e-02	-2.38e-02	5.63e-03	-5.62e-03	-1.19e-02	3.56e-02	9.38e-03
## 3675	1.49e-02	-1.89e-02	1.14e-02	4.21e-02	-2.95e-02	1.12e-02	-2.97e-02
## 3676	1.51e-03	-1.48e-02	-2.53e-02	1.60e-02	-7.69e-03	-3.28e-03	7.27e-03
## 3677	1.86e-02	-1.30e-02	9.09e-03	-3.82e-03	-3.37e-03	3.34e-03	-1.45e-02
## 3678	8.43e-03	-5.48e-03	1.50e-03	6.51e-03	-8.98e-03	-5.98e-03	-2.92e-03
## 3679	-2.19e-02	1.27e-02	-1.30e-02	1.26e-02	7.09e-04	9.31e-03	-7.38e-04
## 3680	-1.97e-04	4.24e-03	-2.45e-03	-5.98e-03	6.15e-03	2.97e-03	7.27e-03
## 3681	1.62e-02	1.31e-02	1.10e-02	-6.48e-03	-1.96e-03	-2.48e-03	4.40e-03
## 3682	-4.88e-03	-2.10e-02	4.01e-03	1.32e-02	2.15e-02	3.39e-03	-2.42e-02
## 3683	1.59e-03	-1.38e-02	-1.20e-02	1.43e-02	3.28e-04	5.82e-03	-6.47e-03
## 3684	1.58e-02	1.10e-02	-2.38e-02	-6.55e-03	3.49e-03	3.35e-03	-1.20e-02
## 3685	-2.53e-02	1.85e-02	1.36e-02	-1.28e-02	-4.19e-03	-6.68e-03	-1.85e-02
## 3686	3.52e-04	-5.94e-03	-4.15e-03	-8.79e-03	8.89e-03	-2.59e-03	-1.03e-02
## 3687	3.86e-02	-1.34e-02	-4.47e-03	-1.15e-02	-1.63e-02	-1.20e-02	-3.48e-02
## 3688	-6.93e-04	-5.53e-03	-1.85e-03	5.19e-03	2.60e-03	-5.22e-04	-9.44e-03
## 3689	-7.24e-03	3.02e-02	8.51e-03	-4.15e-03	3.80e-02	3.58e-02	-6.38e-03
## 3690	1.57e-02	-1.63e-02	-1.23e-02	-7.07e-03	-2.30e-02	8.08e-03	-9.00e-03
## 3691	-1.12e-02	2.17e-02	1.00e-02	4.59e-02	-3.05e-02	1.40e-02	9.66e-03
## 3692	-1.94e-03	-1.26e-02	-6.02e-03	-5.44e-03	-1.57e-02	5.35e-03	-2.16e-03
## 3693	-3.62e-03	-9.28e-03	-8.87e-03	1.04e-02	-4.70e-05	9.16e-03	-1.80e-03
## 3694	4.20e-03	-3.64e-03	-1.62e-03	-6.30e-03	5.53e-03	-1.11e-03	-1.20e-03
## 3695	-4.65e-02	-2.59e-02	-4.51e-03	-4.37e-02	5.68e-02	-1.60e-03	7.80e-03
## 3696	6.84e-04	-1.72e-03	2.25e-04	-9.88e-04	-1.38e-03	-2.23e-03	-2.19e-03
## 3697	7.58e-03	1.41e-02	-3.09e-02	-1.37e-02	5.01e-03	-4.30e-03	6.82e-03
## 3698	9.41e-04	3.06e-03	1.43e-03	4.84e-03	-6.20e-03	-4.58e-03	-2.14e-06
## 3699	-1.08e-03	6.91e-04	1.94e-04	-5.91e-05	7.90e-04	-3.11e-04	1.16e-03
## 3700	4.24e-03	4.08e-03	-3.51e-04	6.69e-05	3.94e-03	-3.04e-03	3.68e-03
## 3701	-5.78e-03	1.35e-02	-1.01e-02	9.36e-03	1.78e-03	1.13e-02	-6.15e-03
## 3702	6.77e-04	-3.86e-03	-2.15e-04	2.89e-04	3.38e-03	-9.34e-03	-2.02e-03
## 3703	-1.73e-03	2.51e-03	1.96e-04	1.03e-03	2.03e-03	-5.08e-03	4.73e-04
## 3704	-1.43e-02	1.25e-02	-5.77e-03	3.94e-03	5.07e-03	-1.09e-02	-2.62e-02
## 3705	1.73e-03	3.12e-03	6.11e-04	-2.99e-03	-2.74e-03	-5.27e-03	1.89e-04
## 3706	6.19e-04	-3.15e-04	-4.90e-05	-5.44e-05	-3.96e-04	1.81e-05	-5.36e-04
## 3707	-7.78e-04	1.36e-03	-6.85e-05	1.20e-03	7.68e-04	1.46e-03	-3.37e-05
## 3708	2.65e-02	-1.65e-02	-3.05e-02	2.07e-02	-9.69e-03	-1.40e-02	-2.40e-02
## 3709	3.72e-04	-3.94e-03	3.32e-04	-9.67e-05	3.98e-03	-2.35e-03	-9.82e-04
## 3710	-2.23e-02	2.00e-02	4.28e-02	1.52e-02	-7.48e-03	4.44e-03	1.82e-02
## 3711	-9.58e-03	8.68e-03	1.14e-02	1.75e-02	-1.18e-02	-4.02e-03	6.67e-03
## 3712	-2.93e-03	6.16e-03	-2.76e-03	4.71e-03	1.94e-03	3.65e-03	-2.43e-03
## 3713	3.73e-03	-1.10e-02	-1.31e-02	-1.30e-02	1.19e-02	6.35e-03	-1.99e-03
## 3714	6.25e-04	1.49e-03	-1.75e-04	9.64e-04	9.22e-04	-2.37e-04	-5.14e-05
## 3715	4.51e-04	-3.02e-03	-1.02e-03	2.60e-03	8.61e-04	3.39e-03	-6.72e-04
## 3716	-2.95e-02	2.63e-02	3.74e-03	-6.68e-03	-1.31e-02	3.29e-02	6.22e-03
## 3717	-9.23e-04	3.14e-03	8.75e-04	5.13e-03	-6.05e-03	-1.97e-03	5.45e-03
## 3718	6.07e-03	-4.37e-03	1.02e-04	-3.38e-03	-4.21e-03	-4.78e-04	-4.11e-04
## 3719	-5.16e-04	-5.30e-04	8.87e-05	6.60e-05	5.49e-04	-1.14e-03	7.17e-04

## 3720	1.79e-02	1.26e-02	8.66e-03	-3.54e-03	-2.88e-03	7.70e-05	-1.47e-02
## 3721	-1.24e-03	-1.51e-02	1.07e-02	-8.02e-03	-1.82e-03	-5.68e-03	8.19e-03
## 3722	-1.36e-03	6.90e-03	6.55e-03	-3.33e-03	-1.18e-03	-4.07e-03	5.30e-03
## 3723	-2.71e-03	-1.26e-03	4.84e-04	-1.64e-03	-3.61e-04	-4.50e-04	2.34e-03
## 3724	1.37e-04	-7.36e-04	1.79e-04	-8.12e-04	-4.56e-04	-1.56e-03	-2.22e-04
## 3725	-2.21e-02	2.10e-02	2.73e-02	2.37e-02	-2.10e-02	-2.44e-03	8.08e-03
## 3726	-2.76e-02	1.85e-02	-1.32e-02	5.73e-03	4.69e-03	-3.94e-03	2.14e-02
## 3727	8.09e-03	-5.15e-03	8.26e-04	-2.95e-03	-5.12e-03	-7.22e-03	-9.45e-03
## 3728	-3.51e-03	-2.30e-03	1.02e-03	4.03e-03	-4.44e-03	-2.90e-03	4.87e-03
## 3729	-1.24e-03	-3.67e-03	8.13e-03	6.46e-03	-1.36e-03	-5.36e-03	1.46e-06
## 3730	2.28e-04	-2.15e-02	-2.39e-02	-4.50e-02	2.90e-02	-3.19e-03	-1.44e-02
## 3731	7.55e-03	-4.90e-03	-7.60e-04	2.16e-03	2.91e-03	-1.10e-02	-6.90e-04
## 3732	5.41e-03	1.81e-02	9.19e-03	-6.21e-03	-5.02e-03	1.14e-02	3.47e-02
## 3733	-5.22e-03	9.97e-03	-7.25e-03	8.86e-03	2.54e-03	1.23e-02	1.42e-02
## 3734	2.12e-03	4.07e-03	-9.39e-04	2.58e-03	2.38e-03	-2.01e-03	-6.59e-03
## 3735	-1.65e-02	-1.90e-02	-9.01e-03	-1.79e-02	-2.38e-02	-6.94e-03	2.44e-02
## 3736	4.98e-05	-1.62e-03	5.41e-04	-2.59e-04	2.03e-03	2.35e-03	-5.89e-04
## 3737	1.63e-02	-9.35e-03	-6.95e-03	9.58e-03	1.67e-03	9.32e-03	-4.48e-03
## 3738	5.14e-03	-2.27e-02	-6.43e-03	-3.43e-02	4.95e-02	1.33e-02	8.75e-03
## 3739	-2.24e-02	1.06e-02	-6.30e-03	7.26e-03	3.93e-03	-5.08e-03	1.68e-02
## 3740	-4.38e-03	-1.19e-02	8.95e-03	-4.94e-03	-3.03e-03	-8.53e-03	-7.91e-03
## 3741	1.16e-02	1.28e-02	1.21e-02	2.73e-02	-1.68e-02	6.85e-03	-1.49e-02
## 3742	1.81e-02	-1.11e-02	-1.25e-03	-1.11e-02	-1.25e-02	-5.19e-03	-2.45e-02
## 3743	-2.95e-06	4.27e-04	-4.00e-05	4.40e-04	2.36e-04	6.47e-06	-8.56e-05
## 3744	3.19e-04	-6.48e-03	-1.26e-02	-4.49e-03	2.12e-03	-2.15e-03	6.08e-03
## 3745	2.35e-02	-1.01e-02	2.83e-02	-1.76e-02	1.12e-02	-2.84e-03	-9.22e-03
## 3746	1.05e-02	6.71e-03	-6.62e-03	-7.25e-03	6.87e-03	-3.84e-04	-1.94e-03
## 3747	1.38e-03	-1.81e-03	9.17e-05	-1.91e-03	-1.01e-03	-1.54e-03	-2.00e-04
## 3748	-1.52e-02	9.71e-03	-2.94e-03	1.78e-03	4.23e-03	-1.35e-02	1.60e-02
## 3749	5.81e-03	5.88e-03	-8.45e-04	1.42e-03	3.30e-03	-8.54e-03	-1.75e-03
## 3750	1.40e-02	-1.13e-02	9.57e-03	-4.43e-03	-2.23e-03	2.26e-03	4.57e-03
## 3751	2.77e-02	-1.64e-02	9.97e-03	-3.95e-03	-5.78e-03	3.08e-02	-2.61e-02
## 3752	-2.02e-03	-2.02e-03	-1.58e-04	1.75e-03	8.78e-04	-4.99e-05	2.25e-04
## 3753	2.19e-03	-8.63e-03	-1.87e-03	2.96e-03	3.99e-03	-9.87e-03	-3.66e-03
## 3754	-2.49e-03	-1.12e-02	9.31e-03	-5.80e-03	-2.14e-03	-2.23e-03	8.56e-03
## 3755	-1.04e-02	1.79e-02	-1.26e-02	6.85e-03	3.87e-03	-2.83e-03	1.68e-02
## 3756	-1.13e-03	9.31e-04	6.65e-04	8.87e-04	-1.39e-03	3.01e-04	1.59e-03
## 3757	-5.20e-03	1.19e-02	-7.02e-03	6.21e-03	3.56e-03	-4.54e-03	-2.52e-02
## 3758	7.70e-03	-1.17e-02	1.10e-02	2.35e-02	-1.54e-02	3.01e-04	-1.20e-02
## 3759	4.79e-03	-5.58e-03	-1.00e-03	2.68e-03	3.29e-03	-8.54e-03	-9.23e-03
## 3760	1.15e-02	-7.92e-03	-2.19e-03	2.80e-03	3.65e-03	-8.80e-03	-1.45e-02
## 3761	-1.67e-02	1.89e-02	-4.94e-02	-1.20e-02	3.07e-03	1.18e-02	1.40e-02
## 3762	-4.41e-04	9.60e-04	-7.65e-04	-8.90e-04	1.22e-03	-1.78e-03	3.50e-04
## 3763	-4.77e-03	-1.00e-02	-1.23e-02	-1.28e-02	1.09e-02	6.23e-03	-9.93e-04
## 3764	1.18e-02	-5.32e-03	-1.54e-03	-2.35e-03	-6.12e-03	6.35e-03	-8.69e-03
## 3765	-1.09e-05	1.99e-03	7.57e-04	2.73e-03	-3.47e-03	-2.58e-03	-8.67e-04
## 3766	9.35e-03	-1.13e-02	7.84e-03	-3.66e-03	-3.34e-03	-1.51e-03	-1.05e-02
## 3767	-8.88e-03	-1.21e-02	9.91e-03	2.22e-02	-1.51e-02	-5.88e-03	-8.44e-03
## 3768	3.65e-02	2.11e-02	8.98e-03	-4.55e-03	-6.62e-03	3.11e-02	-3.09e-02
## 3769	7.38e-03	7.49e-03	1.98e-02	1.14e-03	-1.41e-02	1.82e-03	-1.59e-02

## 3770	2.07e-03	-1.43e-02	-2.89e-02	-1.98e-02	8.09e-03	-6.18e-03	1.02e-02
## 3771	-1.04e-02	7.02e-03	-5.17e-03	-1.20e-02	1.13e-02	4.65e-03	7.10e-06
## 3772	-6.05e-04	2.04e-03	-3.20e-04	6.98e-04	1.68e-03	-8.72e-04	-8.00e-04
## 3773	-6.55e-03	1.22e-02	-5.56e-03	4.71e-03	4.28e-03	-1.57e-02	-2.41e-02
## 3774	-1.67e-02	-3.47e-02	-1.06e-01	-1.10e-02	5.24e-02	4.07e-03	5.37e-02
## 3775	7.29e-04	-6.90e-04	-5.56e-05	1.92e-04	7.84e-04	-1.83e-04	-2.07e-04
## 3776	9.63e-06	2.06e-03	-2.56e-04	1.32e-03	1.35e-03	8.00e-04	7.00e-06
## 3777	-5.31e-03	-2.03e-02	-7.29e-03	3.31e-02	-4.68e-02	6.67e-03	-1.04e-02
## 3778	6.03e-03	-9.74e-03	-1.24e-02	-9.56e-03	9.01e-03	1.66e-03	-2.20e-03
## 3779	2.16e-03	-1.24e-02	-2.46e-02	-1.59e-02	6.74e-03	-8.02e-03	8.18e-03
## 3780	-9.83e-04	-9.78e-03	-1.66e-02	1.49e-02	-5.91e-03	-3.85e-04	7.62e-03
## 3781	-1.19e-02	1.52e-02	-1.07e-02	-8.33e-03	-2.15e-02	-1.56e-03	-1.88e-03
## 3782	-4.38e-03	-9.24e-03	-6.36e-03	9.54e-03	-1.12e-05	6.88e-03	1.27e-02
## 3783	-5.06e-04	-3.31e-02	1.70e-02	3.78e-02	-4.62e-02	4.11e-02	-5.17e-02
## 3784	4.79e-03	5.13e-03	-9.14e-04	1.80e-03	2.81e-03	-3.75e-03	-1.38e-03
## 3785	-1.63e-02	-2.82e-02	4.40e-04	-8.51e-03	-1.85e-02	6.80e-02	3.07e-03
## 3786	-2.68e-02	1.75e-02	-1.27e-02	6.42e-03	4.28e-03	-2.05e-03	2.06e-02
## 3787	8.74e-03	1.26e-02	-2.52e-02	-1.24e-02	5.31e-03	-8.66e-03	-1.27e-02
## 3788	6.18e-03	-5.75e-03	-9.54e-04	1.95e-03	2.78e-03	-3.83e-03	-1.26e-03
## 3789	8.73e-03	1.10e-02	-7.71e-03	-2.29e-02	1.61e-02	-3.72e-03	-7.49e-03
## 3790	-2.17e-02	1.88e-02	-1.44e-02	9.12e-03	4.69e-03	9.32e-03	2.18e-02
## 3791	3.30e-03	1.99e-02	1.07e-02	-9.76e-03	-5.00e-03	5.25e-03	3.83e-02
## 3792	8.24e-03	7.19e-03	-5.23e-03	-9.79e-03	9.96e-03	-6.72e-04	-1.39e-02
## 3793	-1.42e-03	1.35e-02	-1.14e-02	1.29e-02	7.19e-04	1.07e-02	-4.93e-03
## 3794	-3.37e-02	2.71e-02	7.21e-03	-2.09e-02	-8.58e-03	-2.26e-02	5.32e-02
## 3795	-8.63e-04	-7.55e-04	-1.67e-05	1.79e-03	-1.67e-03	-2.82e-04	3.68e-04
## 3796	4.13e-05	1.41e-02	-3.21e-02	-1.24e-02	5.15e-03	-6.79e-03	7.91e-03
## 3797	5.81e-03	5.87e-03	-8.40e-04	1.42e-03	3.30e-03	-8.53e-03	-1.76e-03
## 3798	3.97e-02	-2.66e-02	2.20e-02	3.26e-02	-3.80e-02	1.91e-02	-7.52e-03
## 3799	-1.87e-02	1.72e-02	-1.33e-02	8.00e-03	4.71e-03	2.73e-03	-7.06e-03
## 3800	1.87e-02	-1.07e-02	-2.37e-02	-6.40e-03	3.25e-03	3.26e-03	-1.21e-02
## 3801	-1.45e-02	-1.67e-02	3.56e-02	1.38e-02	-5.40e-03	4.06e-03	1.73e-02
## 3802	-1.72e-02	-1.40e-02	1.63e-02	2.18e-02	-1.58e-02	-6.29e-03	1.08e-02
## 3803	8.58e-03	-5.39e-03	5.19e-04	-5.22e-03	-5.06e-03	-7.62e-03	-1.12e-03
## 3804	4.37e-06	3.59e-05	-8.44e-06	3.41e-05	2.05e-05	6.74e-05	5.49e-06
## 3805	-7.34e-03	9.45e-03	-6.31e-04	-1.06e-02	-1.12e-02	-1.25e-02	-3.06e-03
## 3806	6.11e-03	9.42e-03	-1.03e-03	2.00e-03	4.38e-03	-1.52e-03	-5.24e-03
## 3807	4.76e-03	4.25e-03	-7.45e-04	2.12e-03	2.33e-03	-5.69e-03	-5.15e-04
## 3808	-4.84e-03	4.47e-03	-2.92e-03	7.80e-04	-6.32e-03	-6.47e-03	1.14e-03
## 3809	-4.78e-03	-3.35e-03	1.68e-03	3.18e-03	-4.78e-03	1.10e-03	5.28e-03
## 3810	1.00e-02	1.12e-02	9.36e-03	-4.44e-03	-2.11e-03	2.70e-03	5.44e-03
## 3811	2.40e-03	3.04e-03	7.91e-03	4.75e-04	-4.65e-03	-2.89e-03	-5.02e-03
## 3812	7.44e-04	9.83e-04	9.18e-05	-8.98e-04	-6.35e-04	-1.65e-03	-3.62e-04
## 3813	1.09e-03	-3.66e-03	-3.04e-03	-4.65e-03	5.61e-03	-5.69e-03	5.14e-04
## 3814	-8.54e-03	5.62e-03	-3.06e-03	5.15e-03	2.22e-03	3.43e-03	1.09e-02
## 3815	7.76e-03	4.37e-03	7.91e-03	-2.90e-03	2.22e-03	-8.02e-04	-1.80e-03
## 3816	9.58e-03	9.37e-03	-1.97e-02	-6.21e-03	3.32e-03	4.04e-03	5.71e-03
## 3817	2.69e-02	-1.99e-02	-1.26e-02	-1.63e-02	-2.56e-02	1.16e-02	-1.72e-02
## 3818	-3.49e-03	-6.18e-03	2.65e-03	6.02e-03	-8.97e-03	1.49e-03	8.39e-03
## 3819	-3.61e-03	1.38e-02	-6.66e-03	4.43e-03	4.48e-03	-4.38e-03	-8.66e-03

##	3820	5.23e-04	1.89e-03	-2.71e-04	6.03e-04	1.44e-03	-2.49e-03	-7.50e-04
##	3821	1.96e-03	-4.96e-03	-6.49e-05	1.37e-03	3.16e-03	-9.84e-03	-2.30e-04
##	3822	1.22e-04	2.89e-03	1.17e-03	3.62e-03	-4.96e-03	-5.59e-03	-1.30e-03
##	3823	-3.40e-04	-1.54e-02	-2.48e-02	1.72e-02	-8.92e-03	-2.20e-03	7.12e-03
##	3824	-8.53e-03	-9.38e-03	9.89e-03	1.67e-02	-1.11e-02	-3.44e-03	7.48e-03
##	3825	1.16e-02	-1.66e-02	-3.00e-02	2.13e-02	-1.25e-02	7.69e-03	5.42e-03
##	3826	7.50e-03	-4.96e-03	-3.50e-03	-6.93e-03	7.02e-03	1.05e-03	-9.71e-03
##	3827	1.74e-02	1.42e-02	-7.57e-03	8.66e-03	3.97e-03	1.62e-04	-3.41e-02
##	3828	-2.31e-02	2.93e-02	5.47e-03	3.26e-03	3.39e-02	-1.54e-02	1.21e-03
##	3829	1.37e-03	-2.14e-03	2.77e-04	-1.46e-03	-1.81e-03	-8.07e-04	2.36e-04
##	3830	9.20e-05	4.54e-04	2.50e-04	5.11e-04	-5.74e-04	-4.25e-04	6.33e-04
##	3831	-1.57e-02	1.22e-02	6.63e-03	-5.77e-03	-5.22e-03	-8.74e-03	-1.01e-02
##	3832	1.53e-02	-1.81e-02	-1.82e-02	1.61e-02	4.68e-04	6.51e-03	-1.23e-02
##	3833	6.56e-03	-4.55e-03	1.79e-04	-3.70e-03	-4.36e-03	-1.64e-03	-5.67e-04
##	3834	-1.50e-04	3.65e-04	8.69e-04	-3.39e-04	4.11e-04	5.01e-04	-4.42e-04
##	3835	-6.26e-03	-1.48e-02	-2.43e-02	1.77e-02	-9.24e-03	-4.42e-03	1.10e-02
##	3836	-4.64e-03	-1.74e-02	-1.96e-02	-2.81e-02	2.06e-02	5.65e-03	-6.75e-03
##	3837	2.65e-02	-1.19e-02	-2.53e-02	2.29e-02	-1.02e-02	4.15e-03	-1.50e-02
##	3838	-5.10e-02	2.39e-02	7.33e-03	-2.31e-02	-8.87e-03	-1.10e-03	5.19e-02
##	3839	1.09e-02	-1.35e-02	9.78e-03	-5.20e-03	-3.05e-03	-1.37e-03	-1.32e-02
##	3840	-6.56e-04	-1.20e-02	-2.11e-03	-1.04e-02	-1.33e-02	-1.00e-02	-3.30e-03
##	3841	1.15e-02	6.52e-03	-1.80e-03	2.49e-03	2.92e-03	-6.80e-03	-2.24e-03
##	3842	-3.85e-03	-1.10e-02	-3.31e-03	2.76e-03	4.69e-03	-5.73e-03	-5.21e-03
##	3843	-1.26e-02	2.38e-02	2.49e-02	2.71e-02	-3.49e-02	3.71e-02	1.80e-04
##	3844	-7.44e-04	-5.00e-04	1.56e-04	6.24e-04	-7.55e-04	5.91e-05	1.41e-04
##	3845	1.29e-04	-4.13e-04	3.37e-05	-1.67e-04	-3.38e-04	3.39e-04	1.13e-04
##	3846	1.42e-02	7.15e-03	-1.68e-03	2.01e-03	3.21e-03	-1.41e-02	-2.79e-03
##	3847	-2.02e-02	9.99e-03	-9.26e-03	1.06e-02	1.04e-03	7.75e-03	-4.45e-04
##	3848	1.85e-02	-7.71e-03	-8.78e-03	-1.12e-02	1.00e-02	8.73e-04	-3.26e-03
##	3849	9.05e-04	1.31e-03	-1.34e-04	-4.65e-04	-1.62e-03	2.26e-03	-2.27e-04
##	3850	7.06e-03	8.00e-03	-9.67e-03	-9.54e-03	8.33e-03	-8.55e-04	-1.03e-03
##	3851	7.36e-03	5.25e-03	-9.20e-04	1.78e-03	2.60e-03	-8.24e-03	-1.26e-03
##	3852	3.35e-03	1.71e-03	-3.96e-04	1.65e-03	6.47e-04	4.85e-04	-6.36e-04
##	3853	-2.70e-03	-9.09e-03	-8.00e-03	1.11e-02	1.33e-03	-3.30e-03	-1.02e-03
##	3854	-1.39e-02	1.00e-02	-1.89e-03	1.80e-02	-2.55e-02	-7.25e-03	1.82e-02
##	3855	1.48e-03	-1.09e-02	7.07e-04	2.11e-02	-2.39e-02	-2.11e-03	1.41e-02
##	3856	9.03e-04	-1.81e-03	1.07e-04	1.14e-04	1.71e-03	-4.90e-03	2.04e-03
##	3857	3.05e-02	2.10e-02	-2.32e-02	-3.41e-02	2.42e-02	1.05e-02	-1.96e-02
##	3858	-6.50e-03	1.37e-02	1.39e-02	-1.17e-02	-1.43e-03	-9.39e-03	8.20e-03
##	3859	1.25e-02	-7.40e-03	1.65e-03	1.02e-02	-1.48e-02	-1.03e-02	-1.35e-02
##	3860	7.73e-04	-3.16e-03	4.90e-04	-2.18e-03	-2.44e-03	-5.15e-03	-4.00e-03
##	3861	6.69e-03	-7.79e-03	-4.36e-03	-1.33e-02	1.30e-02	-8.53e-03	-3.78e-03
##	3862	-5.66e-04	1.79e-02	1.02e-02	1.22e-02	2.39e-02	2.65e-03	-2.32e-02
##	3863	-6.27e-03	1.18e-02	-1.34e-02	-1.53e-02	1.47e-02	-3.62e-03	-2.40e-03
##	3864	7.15e-04	-4.86e-03	-4.14e-03	-5.22e-03	6.21e-03	7.87e-03	7.88e-03
##	3865	-7.86e-03	-8.68e-03	7.43e-03	-4.27e-03	-1.16e-03	-3.45e-03	7.35e-03
##	3866	1.05e-02	1.73e-02	-5.31e-03	-1.42e-02	-2.17e-02	1.79e-02	1.72e-02
##	3867	1.16e-03	7.86e-04	-7.99e-05	2.53e-04	7.22e-04	-2.10e-04	-1.77e-03
##	3868	-4.81e-03	-1.22e-02	-4.74e-03	4.31e-03	3.69e-03	-6.76e-03	-5.07e-03
##	3869	-1.32e-02	-1.93e-02	-4.64e-02	7.80e-05	3.56e-02	5.08e-03	7.25e-03

## 3870	6.20e-03	1.98e-02	-1.86e-02	1.35e-02	2.91e-03	8.24e-03	-1.25e-02
## 3871	-1.82e-02	2.08e-02	5.13e-03	1.27e-02	2.29e-02	1.15e-02	-2.94e-02
## 3872	-3.86e-04	-6.52e-04	2.15e-04	-1.33e-04	7.95e-04	1.25e-03	-1.83e-04
## 3873	2.50e-02	-1.91e-02	6.38e-03	-5.26e-03	-8.37e-03	1.93e-02	6.66e-03
## 3874	1.54e-02	9.87e-03	-1.38e-03	-5.26e-03	-1.15e-02	-2.54e-03	-1.99e-02
## 3875	3.41e-03	-5.74e-03	2.27e-03	6.15e-03	-8.88e-03	-1.23e-03	6.16e-03
## 3876	-5.68e-03	1.16e-02	-4.96e-03	3.79e-03	4.16e-03	-1.26e-02	-5.37e-03
## 3877	-4.63e-03	-1.62e-02	-1.30e-02	9.17e-03	3.84e-03	2.31e-03	-6.95e-03
## 3878	6.51e-03	-1.68e-02	-1.61e-02	-3.19e-02	2.18e-02	6.16e-03	-8.77e-03
## 3879	-1.90e-02	-2.04e-02	-1.71e-02	8.08e-03	3.76e-03	-4.51e-03	-9.26e-03
## 3880	-1.37e-05	-6.05e-03	1.10e-02	-3.87e-03	3.85e-03	-7.49e-03	8.44e-04
## 3881	2.45e-02	-1.67e-02	1.12e-02	-7.20e-03	-5.31e-03	-5.23e-03	-2.05e-02
## 3882	1.27e-02	1.25e-02	8.54e-03	-4.59e-03	-2.80e-03	-8.46e-04	-1.39e-02
## 3883	1.47e-03	3.02e-03	-1.88e-04	1.35e-03	1.92e-03	-4.45e-03	-1.74e-04
## 3884	-1.11e-02	2.94e-02	2.88e-02	2.75e-02	-3.10e-02	2.44e-02	-4.66e-04
## 3885	-3.86e-03	3.95e-03	-2.41e-03	-5.91e-03	5.97e-03	-1.12e-04	-5.59e-03
## 3886	6.08e-03	-4.27e-03	-8.97e-04	2.10e-03	1.99e-03	-1.60e-03	-9.03e-04
## 3887	-2.16e-03	-1.39e-02	3.31e-02	8.40e-03	-2.38e-03	-6.35e-03	-7.68e-03
## 3888	-3.29e-04	-6.75e-04	-4.85e-04	-6.72e-04	9.12e-04	-8.41e-04	2.90e-04
## 3889	-4.49e-04	-1.61e-03	1.45e-06	2.91e-04	1.40e-03	-1.26e-03	1.90e-03
## 3890	5.53e-04	-1.09e-03	7.34e-05	-5.52e-04	-9.46e-04	9.50e-04	1.97e-04
## 3891	-2.01e-04	4.11e-04	1.31e-04	-8.00e-05	5.14e-04	6.62e-04	-1.20e-04
## 3892	1.27e-03	-1.86e-03	-6.23e-04	1.81e-03	9.09e-04	2.50e-03	-2.69e-03
## 3893	1.89e-02	-1.13e-02	2.01e-02	-1.07e-02	6.67e-03	2.15e-03	-7.06e-03
## 3894	6.56e-04	-1.16e-03	1.00e-04	-6.34e-04	-1.00e-03	6.79e-04	1.67e-04
## 3895	-8.43e-04	3.36e-03	-3.03e-03	-3.31e-03	4.17e-03	-6.19e-03	7.55e-04
## 3896	-1.18e-02	-1.13e-02	-4.01e-03	2.81e-03	4.62e-03	-1.51e-02	1.69e-02
## 3897	-8.60e-03	6.72e-03	-5.11e-03	6.68e-03	9.75e-04	1.07e-02	1.12e-02
## 3898	2.99e-03	2.58e-03	-1.42e-04	-1.74e-03	-2.86e-03	3.76e-03	-8.02e-05
## 3899	1.77e-02	1.91e-02	8.81e-03	-6.10e-03	-6.53e-03	2.67e-02	-2.62e-02
## 3900	1.09e-02	1.27e-02	1.07e-02	2.65e-02	-1.77e-02	9.02e-04	-1.37e-02
## 3901	-8.65e-03	1.32e-02	-6.72e-03	7.59e-03	3.88e-03	1.75e-02	1.48e-02
## 3902	3.60e-03	-4.28e-03	9.91e-03	-3.60e-03	3.72e-03	-8.38e-03	-2.55e-05
## 3903	-5.07e-04	1.90e-03	1.39e-04	8.30e-04	1.46e-03	-4.48e-03	2.79e-04
## 3904	-1.23e-02	1.88e-02	1.93e-02	-2.05e-02	2.75e-04	-7.91e-03	8.22e-03
## 3905	1.39e-02	-2.41e-02	6.57e-03	-1.25e-02	-1.10e-02	-5.47e-03	7.61e-03
## 3906	4.62e-04	-1.04e-03	-2.18e-04	4.83e-05	-1.24e-03	-1.28e-03	2.09e-04
## 3907	5.54e-04	-2.07e-03	1.14e-03	2.33e-03	-3.45e-03	-4.58e-03	2.30e-03
## 3908	-1.86e-04	1.31e-03	-2.34e-04	1.03e-03	8.29e-04	1.68e-03	1.24e-04
## 3909	-5.87e-03	-5.41e-03	-4.96e-03	-6.43e-03	6.65e-03	2.15e-03	9.76e-03
## 3910	-2.96e-02	1.56e-02	-6.19e-03	-1.67e-02	-1.99e-02	-2.97e-03	2.23e-02
## 3911	2.80e-02	-1.26e-02	-3.01e-02	-7.67e-03	3.11e-03	3.98e-03	-1.45e-02
## 3912	2.36e-03	-1.33e-02	7.98e-03	9.11e-03	1.82e-02	-7.30e-03	-1.49e-02
## 3913	-5.96e-03	8.34e-03	8.07e-03	-4.86e-03	-1.34e-03	-1.25e-03	7.47e-03
## 3914	-6.27e-03	2.33e-03	-1.58e-03	3.44e-03	4.91e-04	-9.78e-04	1.40e-03
## 3915	9.68e-03	-7.48e-03	-5.23e-03	-1.32e-02	1.09e-02	3.86e-03	-1.53e-02
## 3916	-1.03e-02	1.16e-02	1.95e-02	-9.64e-03	5.56e-03	5.70e-03	-2.07e-03
## 3917	1.14e-02	-1.06e-02	8.09e-03	-3.23e-03	-2.22e-03	-4.16e-03	-1.06e-02
## 3918	2.95e-02	2.22e-02	1.29e-02	5.11e-03	2.84e-02	-3.97e-05	-4.27e-04
## 3919	2.16e-04	-5.94e-03	-3.37e-03	-9.53e-03	8.50e-03	1.62e-03	-9.64e-03

##	3920	-8.85e-03	9.78e-03	-5.68e-03	4.19e-03	3.90e-03	-4.94e-03	1.42e-02
##	3921	-5.18e-02	-2.57e-02	1.24e-02	5.21e-02	-3.77e-02	4.76e-02	8.00e-03
##	3922	1.37e-02	-1.85e-02	-2.04e-02	-3.30e-02	2.22e-02	7.89e-03	1.74e-02
##	3923	-4.54e-03	3.59e-03	-8.79e-04	-1.25e-03	-4.49e-03	2.23e-03	6.22e-04
##	3924	2.65e-03	-3.56e-03	-1.42e-03	3.45e-04	-4.81e-03	-1.34e-03	1.60e-04
##	3925	1.44e-02	-6.51e-03	-3.66e-03	-1.28e-02	9.91e-03	5.63e-03	-3.66e-03
##	3926	3.28e-03	9.90e-03	-2.07e-02	-7.10e-03	3.76e-03	1.54e-03	7.83e-03
##	3927	6.08e-03	4.80e-03	-8.68e-04	1.81e-03	2.45e-03	-5.25e-03	-1.27e-03
##	3928	-2.33e-03	-5.42e-03	1.96e-03	7.93e-03	-1.05e-02	-4.95e-03	9.20e-03
##	3929	7.96e-04	2.86e-03	1.20e-03	3.39e-03	-4.81e-03	-7.57e-03	-1.37e-03
##	3930	2.14e-02	9.51e-03	-1.77e-03	3.92e-03	3.09e-03	1.13e-03	-7.86e-03
##	3931	1.48e-02	-6.91e-03	-1.81e-03	2.32e-03	3.15e-03	-1.12e-02	-2.55e-03
##	3932	-3.78e-03	-1.01e-02	-2.07e-03	2.80e-03	4.56e-03	-4.51e-03	-3.36e-03
##	3933	1.26e-02	1.40e-02	2.30e-03	-1.99e-02	3.16e-02	-3.40e-03	-1.45e-02
##	3934	-1.43e-02	1.12e-02	-7.69e-03	6.05e-03	2.97e-03	-9.10e-03	1.85e-02
##	3935	1.39e-02	5.85e-03	-2.25e-04	-5.22e-03	-5.97e-03	-1.02e-02	-1.56e-03
##	3936	1.01e-02	-1.86e-02	7.35e-03	-4.95e-03	-7.27e-03	2.15e-02	1.07e-02
##	3937	-1.61e-02	1.16e-02	3.25e-02	6.84e-03	-1.61e-03	-1.39e-02	-6.28e-03
##	3938	2.80e-03	-3.65e-03	6.88e-04	-3.21e-03	-3.02e-03	-5.77e-03	1.92e-04
##	3939	1.00e-02	2.36e-02	4.35e-03	-5.37e-03	-1.04e-02	2.14e-02	-3.47e-02
##	3940	-2.89e-02	2.06e-02	5.48e-03	-8.76e-03	-8.20e-03	-7.30e-03	-2.07e-02
##	3941	5.27e-03	-8.65e-03	-2.06e-03	3.57e-03	3.58e-03	-3.90e-03	-4.26e-03
##	3942	-1.08e-02	-7.88e-03	-3.40e-03	-7.09e-04	-9.72e-03	-1.18e-03	1.29e-02
##	3943	-1.68e-03	-9.63e-03	6.36e-04	1.53e-02	-1.99e-02	3.33e-03	-1.57e-02
##	3944	1.68e-02	-1.46e-02	-2.91e-02	-2.15e-02	8.56e-03	-8.06e-03	4.96e-03
##	3945	-2.16e-04	-4.59e-03	1.74e-03	5.17e-03	-7.66e-03	-1.68e-03	6.68e-03
##	3946	-7.91e-04	-2.26e-03	-1.42e-03	3.24e-03	3.91e-04	-2.66e-03	2.35e-04
##	3947	1.85e-02	1.45e-02	-3.17e-02	-9.93e-03	4.28e-03	-1.69e-03	-1.41e-02
##	3948	-2.34e-03	2.34e-02	3.94e-02	-3.39e-02	1.50e-02	4.95e-03	-1.66e-02
##	3949	-4.45e-03	1.35e-02	-1.40e-02	-2.46e-02	1.82e-02	4.32e-03	1.99e-02
##	3950	-1.65e-02	7.94e-03	1.04e-02	1.65e-02	-1.09e-02	-6.72e-03	8.90e-03
##	3951	-1.74e-02	6.56e-03	-7.06e-03	-7.53e-03	9.21e-03	-6.85e-03	3.00e-03
##	3952	1.00e-02	-1.50e-02	1.62e-02	2.63e-02	-1.75e-02	9.98e-03	4.86e-03
##	3953	-2.54e-03	3.60e-03	-2.17e-03	4.55e-03	8.11e-04	3.64e-03	-1.56e-04
##	3954	5.04e-03	-1.28e-02	-3.46e-03	4.48e-03	4.86e-03	-3.28e-03	-9.29e-03
##	3955	-8.22e-03	-1.33e-02	-7.73e-03	4.15e-03	4.23e-03	-1.24e-02	1.76e-02
##	3956	2.22e-03	8.38e-03	-1.53e-02	1.43e-02	-5.53e-03	2.26e-03	5.78e-03
##	3957	1.65e-03	3.12e-03	5.00e-04	-3.63e-03	-1.91e-03	-7.83e-03	-1.33e-03
##	3958	-1.81e-04	-3.57e-04	-7.56e-05	5.48e-05	-4.28e-04	-4.55e-04	1.65e-04
##	3959	-1.04e-03	-1.29e-02	2.19e-02	-1.16e-02	7.84e-03	-8.86e-03	-3.14e-03
##	3960	6.75e-06	-4.79e-04	1.43e-04	-6.99e-05	5.62e-04	7.57e-04	-1.32e-04
##	3961	1.02e-03	-2.18e-03	-7.94e-04	-3.71e-03	3.51e-03	7.84e-04	1.63e-04
##	3962	4.49e-04	3.28e-03	1.45e-03	3.79e-03	-5.54e-03	-8.58e-03	-1.67e-03
##	3963	-1.51e-02	1.79e-02	-8.49e-03	-1.75e-02	-2.25e-02	-1.19e-02	2.19e-02
##	3964	4.27e-05	2.10e-04	3.23e-05	-9.29e-05	-2.20e-04	7.60e-05	-5.56e-06
##	3965	-4.32e-03	2.87e-02	3.08e-03	-2.05e-02	-1.99e-02	4.13e-02	4.03e-02
##	3966	-3.88e-04	4.61e-03	-2.26e-03	4.21e-03	1.33e-03	5.58e-03	-6.33e-04
##	3967	7.36e-03	-5.24e-03	-7.40e-04	-1.83e-03	-6.09e-03	2.01e-03	8.18e-03
##	3968	4.18e-03	6.87e-03	-4.25e-03	-1.03e-02	1.04e-02	1.62e-03	-1.38e-02
##	3969	7.18e-03	1.10e-02	-2.18e-02	-1.09e-02	5.50e-03	-9.27e-04	5.68e-03

## 3970	2.11e-02	1.94e-02	1.05e-02	-5.38e-03	-5.18e-03	3.00e-02	-2.72e-02
## 3971	3.06e-04	1.36e-03	-8.67e-04	-1.44e-03	1.83e-03	-1.12e-03	2.14e-03
## 3972	-2.25e-02	2.08e-02	-1.42e-02	7.71e-03	6.14e-03	1.91e-02	1.98e-02
## 3973	-2.31e-04	-4.63e-04	6.66e-05	3.29e-05	4.38e-04	-8.14e-04	5.51e-04
## 3974	-1.23e-02	-1.44e-02	1.40e-02	-1.18e-02	-1.42e-03	-1.02e-02	1.06e-02
## 3975	-2.43e-02	-2.15e-02	4.49e-02	1.69e-02	-8.23e-03	3.53e-03	-1.21e-02
## 3976	1.41e-03	-1.91e-03	-4.03e-04	-4.95e-03	4.05e-03	-6.32e-03	2.39e-03
## 3977	2.47e-02	-1.70e-02	1.02e-02	-4.38e-03	-5.73e-03	3.49e-02	-2.64e-02
## 3978	-8.85e-04	2.90e-03	2.10e-04	-1.24e-04	2.68e-03	-5.96e-03	2.97e-03
## 3979	1.13e-02	1.02e-02	2.13e-02	-1.51e-02	8.86e-03	-5.54e-03	-5.71e-03
## 3980	1.50e-03	-9.18e-04	6.24e-04	1.05e-03	-1.35e-03	5.49e-04	-5.02e-04
## 3981	1.39e-02	1.23e-02	1.07e-02	-6.17e-03	-1.79e-03	-1.16e-04	3.72e-03
## 3982	2.49e-03	1.57e-03	-4.82e-04	1.64e-03	6.33e-04	6.92e-04	-2.83e-03
## 3983	5.14e-03	-1.23e-02	-6.90e-04	1.86e-02	-2.74e-02	-9.73e-03	1.58e-02
## 3984	-1.37e-02	2.05e-02	-1.70e-02	1.11e-02	3.61e-03	1.41e-02	2.19e-02
## 3985	-1.38e-02	1.11e-02	8.85e-03	-4.73e-03	-2.58e-03	-8.34e-03	1.04e-02
## 3986	1.82e-04	1.72e-03	5.87e-04	-2.33e-03	-7.34e-04	-2.88e-04	2.48e-03
## 3987	5.30e-03	6.13e-03	-1.92e-03	-1.40e-02	1.19e-02	-3.51e-03	6.05e-03
## 3988	1.03e-02	1.87e-02	-3.23e-02	1.73e-02	-1.21e-02	1.23e-02	1.87e-03
## 3989	1.16e-02	-2.08e-02	4.67e-03	-3.81e-02	4.84e-02	-8.43e-03	-2.88e-02
## 3990	-1.24e-03	1.48e-03	2.68e-05	8.73e-04	1.17e-03	-1.25e-03	3.97e-04
## 3991	-1.37e-03	-1.22e-03	-8.57e-04	-1.36e-03	1.71e-03	7.52e-04	3.98e-04
## 3992	2.02e-04	2.20e-03	-3.09e-04	-1.13e-03	-2.51e-03	3.34e-03	-3.46e-04
## 3993	1.58e-02	1.15e-02	-2.51e-02	-7.00e-03	3.62e-03	3.58e-03	-1.19e-02
## 3994	1.12e-03	-1.84e-02	3.34e-02	2.27e-02	-9.76e-03	7.11e-03	-1.09e-02
## 3995	3.81e-03	8.10e-03	-2.80e-03	-1.43e-03	-9.24e-03	-1.01e-02	-8.62e-04
## 3996	-5.47e-03	-4.69e-03	1.00e-04	-5.61e-04	4.76e-03	9.09e-04	6.41e-03
## 3997	-2.53e-04	-3.94e-04	-1.32e-05	2.91e-04	2.70e-04	1.67e-04	1.21e-04
## 3998	-3.47e-03	-5.15e-03	2.39e-03	5.16e-03	-7.51e-03	-1.55e-03	7.18e-03
## 3999	-4.27e-02	-2.26e-02	7.79e-03	-6.50e-03	-1.03e-02	3.53e-02	4.63e-02
##	dfb.MltL	dfb.IntS	dfb.OnlB	dfb.OnlS	dfb.DvcP	dfb.TchS	dfb.StTV
## 1	4.49e-03	4.95e-03	-2.29e-02	1.08e-02	8.08e-03	9.58e-03	7.15e-03
## 2	-3.08e-03	5.74e-03	4.00e-03	-4.61e-03	-6.28e-03	5.77e-03	2.39e-03
## 3	5.48e-03	-2.04e-02	4.20e-02	4.14e-02	-5.72e-03	-1.88e-02	-1.38e-04
## 4	-1.32e-04	-1.66e-03	2.50e-03	-2.16e-03	-2.61e-03	-2.47e-03	1.86e-03
## 5	1.46e-02	1.77e-04	-9.05e-03	-6.76e-03	-6.85e-03	-5.91e-03	-1.35e-02
## 6	-1.12e-02	4.83e-03	-3.69e-03	6.02e-05	1.55e-02	-3.95e-03	7.36e-03
## 7	1.74e-02	-6.17e-03	-2.65e-02	7.29e-03	1.26e-02	8.24e-03	-2.54e-02
## 8	3.45e-03	7.83e-04	8.80e-03	-1.61e-02	7.07e-03	9.50e-03	4.12e-03
## 9	-1.42e-02	1.51e-02	-1.49e-02	-8.59e-03	1.92e-02	3.16e-02	7.97e-03
## 10	3.00e-03	-3.77e-03	2.46e-03	2.19e-03	-2.60e-03	-3.85e-03	-1.17e-03
## 11	-4.66e-03	1.32e-02	6.75e-03	-1.55e-02	3.69e-03	7.77e-03	2.10e-03
## 12	-3.27e-04	-7.96e-04	-1.58e-04	1.77e-04	2.04e-04	5.40e-04	-7.95e-05
## 13	2.30e-03	3.70e-03	1.47e-02	1.11e-02	-5.35e-03	1.24e-02	-1.85e-03
## 14	-1.11e-02	9.39e-03	2.27e-02	-1.22e-02	2.25e-02	-1.70e-02	1.23e-02
## 15	-1.71e-02	-2.66e-02	1.31e-02	-2.78e-02	-1.69e-02	-2.35e-02	-8.91e-03
## 16	-4.14e-04	1.76e-03	2.73e-04	8.25e-04	-3.45e-05	6.26e-04	-1.75e-04
## 17	-3.86e-04	-4.94e-04	-2.58e-05	-3.72e-05	-7.52e-05	-1.14e-04	-1.49e-04
## 18	1.04e-04	3.09e-05	3.80e-03	-1.30e-03	-1.86e-04	3.91e-03	1.42e-04
## 19	1.08e-02	-2.89e-02	-1.91e-02	-3.15e-02	4.72e-02	4.42e-02	-1.45e-02

## 20	-2.15e-02	-1.23e-02	-2.66e-02	8.69e-03	-2.71e-02	1.11e-02	2.95e-02
## 21	-4.81e-03	-4.98e-03	-7.73e-03	-5.32e-03	2.68e-02	-8.31e-03	-1.80e-02
## 22	-7.25e-04	-2.82e-03	-7.01e-04	-3.76e-04	-1.36e-04	-1.19e-04	-8.45e-04
## 23	-3.92e-04	2.81e-02	8.18e-03	9.79e-03	8.56e-03	9.33e-03	1.12e-02
## 24	8.07e-04	1.40e-03	-7.59e-04	1.32e-03	9.05e-04	-8.37e-04	6.37e-04
## 25	1.23e-03	-7.05e-04	1.62e-03	1.44e-03	-1.20e-03	2.21e-03	-4.25e-04
## 26	-4.44e-03	6.22e-03	-9.75e-03	-1.03e-02	2.75e-03	5.72e-03	3.58e-04
## 27	-9.83e-03	1.25e-03	2.06e-02	-1.40e-02	-2.66e-02	-1.43e-02	1.22e-02
## 28	-7.76e-03	-8.22e-03	3.42e-02	-2.18e-02	-1.50e-02	-1.72e-02	-1.22e-02
## 29	-2.74e-03	-2.51e-03	2.12e-03	2.41e-03	1.54e-03	1.51e-03	2.47e-03
## 30	1.19e-02	-3.93e-02	-1.17e-02	-1.12e-02	-1.49e-02	-1.58e-02	2.84e-02
## 31	1.14e-04	-9.60e-04	-2.51e-04	-6.84e-04	-6.59e-04	-9.64e-04	1.87e-03
## 32	-2.83e-02	-1.52e-02	7.15e-03	-3.48e-03	-4.06e-02	5.61e-03	-2.12e-02
## 33	-6.52e-04	3.83e-04	-1.46e-03	-9.80e-04	-1.70e-03	-1.20e-03	7.99e-04
## 34	-1.28e-04	-6.41e-03	-1.74e-03	-2.11e-03	-1.67e-03	-1.87e-03	-2.68e-03
## 35	-6.66e-03	2.78e-02	6.97e-03	9.53e-03	5.45e-03	7.00e-03	1.31e-03
## 36	-3.54e-04	1.58e-03	1.87e-04	8.69e-04	-5.60e-03	1.36e-03	1.70e-03
## 37	1.56e-02	1.72e-04	-9.48e-03	-6.76e-03	-7.36e-03	-5.99e-03	-1.39e-02
## 38	-1.86e-02	4.04e-04	1.48e-02	1.05e-02	-1.67e-02	8.19e-03	1.46e-02
## 39	-1.22e-02	1.01e-02	2.23e-02	-6.20e-03	2.04e-02	-1.11e-02	9.57e-03
## 40	-1.28e-02	5.65e-03	-4.72e-03	-1.53e-04	1.79e-02	-4.88e-03	9.40e-03
## 41	-4.08e-03	1.60e-02	-1.25e-02	1.00e-02	5.43e-03	9.11e-03	3.85e-03
## 42	-1.14e-03	-2.41e-03	1.00e-03	1.12e-03	-1.80e-03	-2.34e-03	2.19e-03
## 43	-7.86e-04	-2.15e-03	-1.69e-04	1.78e-04	-1.14e-04	4.12e-05	-2.57e-04
## 44	-2.24e-03	-1.48e-03	1.67e-03	1.63e-03	1.89e-03	1.24e-03	3.00e-03
## 45	2.09e-02	1.65e-03	-2.00e-02	-2.06e-02	6.40e-03	-2.05e-02	-2.57e-02
## 46	7.09e-03	5.28e-03	1.78e-02	1.05e-02	1.54e-02	8.08e-03	2.51e-02
## 47	-3.67e-03	1.93e-02	-2.00e-02	9.65e-03	4.25e-03	8.38e-03	1.74e-03
## 48	1.23e-02	1.58e-03	-6.49e-03	-3.14e-03	-7.42e-03	-5.19e-03	1.65e-02
## 49	2.72e-03	3.03e-03	2.99e-03	-2.50e-03	3.86e-03	-1.69e-03	-2.45e-03
## 50	-3.62e-03	-4.26e-03	-5.40e-03	2.16e-03	4.03e-03	2.85e-03	-3.42e-03
## 51	8.54e-03	1.58e-04	-1.85e-02	8.52e-03	1.52e-02	6.11e-03	-2.31e-02
## 52	1.74e-02	2.13e-02	2.69e-02	3.54e-02	-1.42e-02	-1.12e-02	1.69e-02
## 53	1.71e-02	8.08e-03	7.86e-03	-2.04e-02	7.01e-03	-2.21e-02	-2.52e-02
## 54	-1.20e-02	3.70e-03	2.05e-02	-3.14e-03	-4.88e-03	-4.46e-04	-9.22e-03
## 55	8.23e-04	-3.48e-04	6.62e-04	7.12e-04	7.99e-04	8.25e-04	-9.07e-04
## 56	-8.47e-03	-4.29e-05	-5.91e-03	1.55e-05	-8.82e-03	-1.89e-03	9.03e-03
## 57	1.33e-03	2.04e-04	1.33e-02	-9.14e-03	1.34e-02	1.06e-02	-2.64e-03
## 58	1.28e-03	-3.28e-03	-3.24e-03	8.48e-03	-3.21e-03	-8.79e-03	-6.48e-04
## 59	1.79e-03	-4.93e-04	-5.44e-06	1.84e-04	1.20e-04	2.05e-04	-2.87e-07
## 60	-1.25e-04	5.81e-04	8.75e-03	7.26e-03	-2.24e-05	-2.24e-03	1.50e-03
## 61	6.92e-03	2.93e-04	1.94e-02	9.75e-03	-1.61e-02	1.15e-02	-6.65e-03
## 62	3.20e-03	6.49e-04	-7.97e-03	8.83e-03	1.23e-02	7.55e-03	-1.26e-02
## 63	8.42e-04	2.00e-04	1.46e-03	1.30e-03	1.64e-03	-2.68e-03	-1.57e-03
## 64	-3.62e-03	8.72e-03	5.56e-03	8.52e-03	-1.06e-02	-8.74e-03	5.14e-03
## 65	-1.26e-02	9.98e-04	-5.33e-03	-2.44e-03	-1.03e-02	-4.81e-03	1.06e-02
## 66	-4.33e-03	1.01e-02	-2.91e-02	7.41e-03	1.07e-02	-2.63e-02	-2.30e-02
## 67	5.62e-03	2.91e-03	-1.12e-02	1.16e-02	1.15e-02	9.39e-03	1.39e-02
## 68	-3.11e-03	5.31e-03	-6.06e-03	6.47e-03	-3.75e-03	-3.04e-03	-3.81e-03
## 69	1.46e-03	1.27e-03	-1.50e-04	-5.90e-04	-3.47e-04	-5.15e-04	-5.87e-06

## 70	-1.64e-02	-1.74e-02	1.20e-02	-3.24e-02	-3.06e-02	1.11e-02	1.66e-02
## 71	-2.64e-03	1.43e-02	5.85e-03	1.03e-02	5.20e-03	-1.78e-02	3.08e-03
## 72	-7.49e-04	-9.31e-04	9.29e-06	-1.45e-04	-2.04e-04	-2.77e-04	-1.57e-04
## 73	4.68e-04	-3.04e-03	8.56e-03	-3.85e-03	-6.41e-04	-3.17e-03	3.93e-04
## 74	-5.33e-04	2.15e-04	-1.47e-06	1.86e-05	6.18e-06	1.39e-05	2.10e-05
## 75	-2.59e-03	4.00e-03	5.35e-03	-1.70e-02	6.16e-03	-1.65e-02	7.74e-03
## 76	2.89e-03	-5.55e-03	-6.09e-03	-1.17e-02	-5.38e-03	1.17e-02	-3.97e-03
## 77	-5.75e-03	1.31e-02	5.59e-03	6.97e-03	6.04e-03	6.69e-03	6.02e-03
## 78	-2.87e-03	7.98e-03	-1.26e-02	-1.11e-02	3.39e-03	7.24e-03	9.33e-04
## 79	-8.49e-03	1.02e-02	-1.91e-02	-2.36e-02	8.84e-03	8.40e-03	-2.06e-02
## 80	5.28e-03	-2.50e-03	-1.27e-04	-7.04e-04	-6.58e-04	-9.96e-04	-5.54e-04
## 81	1.26e-02	1.50e-03	-7.47e-03	-4.26e-03	-7.67e-03	-6.01e-03	1.75e-02
## 82	3.29e-03	-2.24e-03	9.22e-03	-2.36e-02	1.42e-02	1.27e-02	-1.77e-02
## 83	1.74e-02	5.61e-03	-1.01e-02	-7.68e-03	2.80e-02	-7.20e-03	-1.69e-02
## 84	-1.65e-02	-1.39e-02	-1.19e-02	8.94e-03	-1.08e-02	-1.75e-02	-5.35e-03
## 85	-2.12e-04	-1.93e-04	-2.32e-06	4.79e-06	2.07e-05	4.06e-05	-1.09e-05
## 86	2.67e-02	-1.45e-02	-4.47e-02	-3.65e-04	1.78e-02	8.11e-03	-2.34e-02
## 87	-6.40e-03	1.07e-02	6.77e-03	-9.31e-03	6.73e-03	8.92e-03	-1.29e-02
## 88	1.46e-03	1.22e-03	-2.37e-04	-6.65e-04	-4.28e-04	-6.05e-04	-8.04e-05
## 89	-2.98e-04	-2.59e-04	2.77e-05	5.73e-05	2.23e-05	8.77e-05	4.68e-05
## 90	1.04e-04	9.39e-03	9.51e-03	8.91e-03	1.05e-02	7.75e-03	-2.17e-02
## 91	-1.58e-02	-5.79e-03	-1.27e-02	1.14e-02	-1.61e-02	8.40e-03	1.39e-02
## 92	-1.79e-02	-1.18e-02	1.15e-02	1.13e-02	1.16e-02	-4.15e-02	1.66e-02
## 93	-1.62e-03	-2.01e-03	-2.62e-03	1.25e-03	9.21e-04	8.62e-04	1.11e-03
## 94	2.06e-03	-7.11e-03	-4.34e-03	-1.14e-02	-5.95e-03	9.43e-03	-3.76e-03
## 95	3.81e-04	1.59e-03	-1.67e-03	5.63e-03	-1.19e-03	7.17e-03	-1.45e-04
## 96	-1.83e-02	1.05e-02	-1.12e-02	3.21e-02	-7.23e-03	-7.25e-03	-1.20e-02
## 97	-2.87e-03	-2.65e-03	2.18e-03	2.29e-03	-3.30e-03	3.54e-03	-1.94e-03
## 98	1.32e-03	2.85e-02	7.49e-03	9.53e-03	8.29e-03	9.68e-03	1.06e-02
## 99	1.20e-03	1.11e-03	-5.12e-05	-2.86e-04	-2.95e-04	-4.33e-04	9.96e-05
## 100	2.07e-02	9.32e-03	2.29e-02	-3.51e-03	2.02e-02	-6.63e-03	1.12e-02
## 101	8.61e-05	-6.69e-03	-1.94e-03	-2.33e-03	-2.03e-03	-2.22e-03	-2.65e-03
## 102	-1.43e-04	-5.42e-03	-1.20e-03	-1.22e-03	-1.57e-03	-1.79e-03	-1.92e-03
## 103	7.44e-03	-5.37e-03	1.27e-02	1.17e-02	-9.76e-03	-1.42e-02	-8.89e-03
## 104	-3.04e-03	2.43e-03	-5.83e-03	5.85e-03	-6.07e-03	5.25e-03	-8.41e-03
## 105	-2.75e-03	1.02e-02	9.43e-03	-5.24e-02	2.33e-03	1.97e-02	-6.32e-03
## 106	4.01e-03	1.06e-02	9.73e-03	1.14e-02	8.62e-03	9.49e-03	6.77e-03
## 107	4.66e-04	-1.10e-03	-1.66e-03	-5.11e-03	8.80e-03	7.12e-03	-1.63e-03
## 108	1.75e-04	2.39e-03	7.04e-03	-8.46e-03	6.37e-03	8.44e-03	4.23e-03
## 109	7.55e-03	7.78e-03	1.66e-02	1.25e-02	2.16e-02	1.49e-02	-6.63e-03
## 110	3.64e-03	2.42e-03	-3.94e-04	-9.66e-04	-5.35e-04	-4.18e-04	1.28e-04
## 111	-9.75e-03	1.67e-02	1.92e-02	3.83e-02	-2.89e-02	-2.02e-02	3.11e-02
## 112	1.95e-03	-1.92e-03	-2.81e-03	1.88e-03	3.12e-03	2.39e-03	-1.35e-03
## 113	-2.06e-02	-5.60e-03	-1.29e-02	1.02e-02	-1.66e-02	1.09e-02	-1.34e-02
## 114	-8.26e-03	-6.92e-03	-1.85e-02	-1.02e-02	-1.22e-02	-3.15e-03	-1.71e-02
## 115	-1.43e-03	6.42e-04	-2.77e-03	4.56e-03	5.38e-03	-2.78e-03	-1.82e-03
## 116	-1.52e-02	-2.18e-02	-2.93e-02	-3.34e-02	1.18e-02	1.09e-02	-2.71e-02
## 117	-5.54e-04	2.17e-03	4.92e-03	-4.11e-03	5.20e-03	7.07e-03	3.46e-03
## 118	-1.39e-02	1.11e-02	-6.98e-03	2.86e-02	-1.06e-02	-6.49e-03	1.17e-02
## 119	-8.45e-05	-8.11e-05	2.67e-06	3.20e-05	2.20e-05	4.67e-05	1.39e-06

## 120	1.28e-02	-1.29e-02	-1.78e-02	1.14e-02	1.00e-02	-2.89e-02	1.51e-02
## 121	2.97e-03	3.88e-03	1.70e-02	1.18e-02	-7.62e-03	1.37e-02	-1.29e-03
## 122	-3.94e-04	-6.35e-03	-1.57e-03	-1.97e-03	-1.98e-03	-2.19e-03	-2.48e-03
## 123	-1.47e-02	-7.10e-05	-6.61e-03	-3.80e-03	-4.92e-03	-3.09e-03	-1.08e-02
## 124	-3.85e-03	1.28e-02	6.47e-03	-1.26e-02	4.33e-03	8.22e-03	1.94e-03
## 125	-4.34e-04	-5.74e-03	-1.14e-03	-1.23e-03	-1.63e-03	-1.98e-03	-1.74e-03
## 126	-1.16e-02	-6.62e-03	1.09e-02	-9.65e-03	1.28e-02	-7.47e-03	-7.43e-03
## 127	-1.31e-02	-1.72e-04	-1.37e-02	-6.69e-03	2.88e-02	-3.56e-03	-1.59e-02
## 128	-1.11e-03	4.68e-04	1.48e-05	1.04e-04	1.05e-05	9.75e-05	1.22e-04
## 129	1.47e-04	-6.53e-03	-1.95e-03	-2.31e-03	-2.04e-03	-2.20e-03	-2.68e-03
## 130	-3.65e-03	-1.79e-04	-5.97e-03	-9.35e-03	8.59e-03	6.87e-03	-6.94e-03
## 131	2.15e-02	1.23e-04	1.43e-02	7.31e-03	1.61e-02	8.27e-03	3.43e-02
## 132	-4.37e-03	2.09e-02	3.63e-02	4.43e-02	3.26e-02	-2.28e-02	2.96e-02
## 133	3.46e-03	-5.80e-03	-3.82e-03	-5.22e-03	-3.62e-03	2.54e-03	-2.35e-03
## 134	-5.14e-03	-1.01e-02	-1.00e-02	-9.18e-03	-1.32e-02	-1.20e-02	-1.93e-02
## 135	8.91e-03	-4.76e-02	-1.25e-02	-1.97e-02	-9.81e-03	-1.68e-02	-4.80e-03
## 136	4.34e-03	-1.44e-03	-6.44e-05	-1.82e-04	1.05e-05	2.89e-04	-1.10e-04
## 137	-1.78e-02	-9.01e-03	1.37e-02	-2.42e-02	9.44e-03	9.55e-03	1.20e-02
## 138	2.19e-03	1.33e-03	-3.69e-04	-8.27e-04	-3.90e-04	-4.60e-04	-1.57e-04
## 139	5.50e-04	4.73e-04	-5.48e-05	-5.47e-05	-4.35e-06	-1.31e-04	-4.31e-05
## 140	1.33e-02	-1.11e-03	-7.01e-03	-4.02e-03	-5.38e-03	-1.62e-03	-1.05e-02
## 141	-2.34e-03	-2.64e-03	1.73e-03	2.21e-03	1.56e-03	1.83e-03	2.39e-03
## 142	-4.31e-02	-1.24e-02	-1.13e-02	3.74e-02	-1.53e-02	3.91e-02	-1.61e-02
## 143	6.89e-04	4.62e-03	-5.40e-03	1.18e-02	1.75e-02	1.42e-02	-1.17e-03
## 144	1.79e-03	-1.87e-03	-3.34e-03	-6.10e-03	6.26e-03	6.16e-03	6.12e-03
## 145	-9.35e-04	3.21e-04	6.96e-06	6.15e-05	-4.62e-05	1.89e-04	1.85e-04
## 146	2.90e-04	-7.57e-04	-2.99e-04	-6.70e-04	1.96e-03	-7.21e-04	-7.20e-04
## 147	-2.04e-04	-3.65e-03	-1.04e-03	-5.26e-04	-4.00e-04	2.28e-04	-9.69e-04
## 148	8.66e-03	-4.15e-02	-1.11e-02	-1.44e-02	-7.03e-03	-1.38e-02	-5.53e-03
## 149	-3.81e-03	8.94e-03	-7.74e-03	6.39e-03	-7.80e-03	7.42e-03	-9.46e-03
## 150	-3.92e-03	5.64e-03	-1.67e-02	8.33e-03	-1.66e-02	-1.67e-02	1.08e-02
## 151	-5.51e-03	1.60e-02	6.55e-03	8.69e-03	1.09e-02	-2.39e-02	-1.89e-02
## 152	-1.22e-02	1.31e-03	-4.29e-03	-1.60e-03	-9.35e-03	-4.10e-03	9.70e-03
## 153	4.26e-04	-1.50e-03	-8.30e-04	-3.07e-03	-1.26e-03	5.15e-03	-5.60e-04
## 154	5.43e-03	-3.20e-03	3.39e-03	2.45e-03	2.08e-03	1.49e-03	3.32e-03
## 155	-3.80e-04	-5.15e-03	-1.08e-03	-1.17e-03	-1.58e-03	-1.90e-03	-1.77e-03
## 156	-2.46e-02	-1.29e-03	1.46e-02	1.04e-02	1.60e-02	9.74e-03	3.11e-02
## 157	1.72e-02	1.16e-03	1.54e-02	6.84e-03	1.45e-02	8.01e-03	-2.79e-02
## 158	-6.78e-04	-1.83e-03	-2.50e-04	-1.36e-05	-1.57e-04	-1.21e-04	-3.03e-04
## 159	-3.03e-03	8.56e-03	4.59e-03	-6.44e-03	-7.15e-03	1.03e-02	-9.16e-03
## 160	8.22e-03	-2.46e-03	-7.94e-04	1.64e-05	3.90e-04	1.16e-03	-3.47e-04
## 161	-3.88e-03	8.19e-03	-1.37e-02	-1.37e-02	3.05e-03	8.06e-03	1.38e-03
## 162	-1.69e-02	1.02e-02	-1.67e-02	3.11e-02	-1.33e-02	-1.03e-02	-1.63e-02
## 163	-2.10e-02	-3.20e-05	1.30e-02	9.73e-03	9.76e-03	8.51e-03	1.93e-02
## 164	1.64e-03	1.86e-03	-1.54e-03	2.10e-03	-1.38e-03	-1.20e-03	2.09e-03
## 165	-6.96e-04	-2.64e-03	-3.30e-04	1.62e-04	-1.70e-04	1.11e-04	-3.27e-04
## 166	2.18e-03	1.34e-03	-1.15e-04	-4.25e-04	-3.56e-04	-1.98e-04	9.52e-05
## 167	1.63e-02	9.15e-04	-9.93e-03	-7.32e-03	-7.68e-03	-6.48e-03	-1.38e-02
## 168	-3.15e-03	-2.69e-03	2.53e-03	2.82e-03	1.82e-03	1.78e-03	2.99e-03
## 169	9.91e-03	-3.29e-03	3.24e-02	-1.52e-02	3.57e-02	-1.14e-02	-2.87e-02

## 170	-8.74e-04	-4.33e-03	-7.08e-04	-9.18e-04	-1.23e-03	-1.70e-03	-1.48e-03
## 171	-8.71e-03	-7.35e-03	7.98e-03	-6.70e-03	-6.55e-03	-7.40e-03	8.20e-03
## 172	-1.35e-02	1.31e-02	-2.85e-03	-7.08e-04	1.59e-02	2.24e-02	7.28e-03
## 173	-4.52e-03	8.20e-03	-1.38e-02	1.06e-02	-7.83e-03	-6.89e-03	-7.21e-03
## 174	4.53e-02	-5.14e-03	-3.44e-02	-2.44e-02	1.57e-02	-3.07e-02	4.37e-03
## 175	-6.73e-04	-1.36e-03	-1.57e-04	-1.07e-04	-1.20e-04	-9.02e-05	-4.29e-04
## 176	9.50e-03	-4.95e-03	-1.33e-03	-2.22e-03	-1.98e-03	-3.47e-03	-2.62e-03
## 177	-1.17e-02	-3.13e-03	-9.19e-03	-4.23e-03	-5.71e-03	-1.20e-03	-1.09e-02
## 178	1.93e-02	1.19e-02	-1.23e-02	3.19e-02	-1.01e-02	-7.62e-03	-1.18e-02
## 179	2.17e-02	-1.86e-02	-3.66e-02	4.02e-03	-3.16e-02	1.05e-02	-1.51e-02
## 180	-6.17e-04	-7.14e-04	-5.41e-05	-2.12e-04	-1.39e-04	-2.79e-04	-1.97e-04
## 181	-7.64e-03	-7.07e-03	3.46e-02	-1.99e-02	-1.43e-02	-1.76e-02	-9.21e-03
## 182	-5.04e-03	2.68e-02	7.37e-03	1.15e-02	5.42e-03	9.50e-03	3.29e-03
## 183	-1.50e-02	1.20e-03	-6.75e-03	-4.86e-03	-1.03e-02	-5.11e-03	-1.91e-02
## 184	-4.11e-03	6.46e-03	4.63e-03	-7.11e-03	-5.81e-03	8.02e-03	-6.29e-03
## 185	1.87e-02	1.13e-02	2.67e-02	-9.67e-03	3.18e-02	-9.69e-03	-1.83e-02
## 186	-4.91e-03	-1.49e-02	-1.44e-02	-1.47e-02	-1.17e-02	-1.26e-02	-1.10e-02
## 187	-6.85e-03	1.88e-02	-1.73e-02	8.96e-03	4.33e-03	7.68e-03	3.17e-03
## 188	4.44e-03	5.63e-04	8.92e-03	1.17e-02	8.81e-03	-1.95e-02	6.93e-03
## 189	-6.39e-04	-2.88e-03	-6.19e-04	-2.80e-04	-3.37e-04	6.56e-05	-8.57e-04
## 190	9.20e-03	1.43e-02	-9.93e-03	7.95e-03	4.44e-03	4.91e-03	1.90e-03
## 191	5.11e-03	4.04e-03	4.60e-03	-4.55e-03	4.71e-03	-4.94e-03	4.83e-03
## 192	1.41e-02	1.22e-02	2.47e-02	-3.73e-03	2.26e-02	-6.31e-03	-2.20e-02
## 193	3.58e-03	2.33e-03	-5.55e-04	-1.17e-03	-6.23e-04	-6.23e-04	9.49e-05
## 194	-8.45e-06	4.18e-05	2.35e-05	1.18e-04	5.69e-06	-4.78e-04	-1.46e-05
## 195	2.35e-03	1.80e-03	-2.44e-04	-7.83e-04	-4.89e-04	-5.78e-04	2.66e-05
## 196	-1.64e-02	-2.63e-02	-1.95e-02	-2.52e-02	1.33e-02	-2.55e-02	-1.98e-02
## 197	6.01e-03	-1.95e-03	-4.07e-04	-2.35e-04	-1.09e-05	4.36e-04	-8.64e-05
## 198	3.65e-03	-8.72e-03	-6.28e-03	9.45e-03	-6.80e-03	-1.40e-02	-2.45e-03
## 199	-2.49e-05	-5.51e-04	-2.13e-04	3.47e-03	2.32e-05	-9.93e-04	6.87e-04
## 200	1.03e-04	-6.01e-03	-1.32e-03	-1.54e-03	-1.80e-03	-1.71e-03	-1.88e-03
## 201	-1.89e-02	-1.67e-02	1.44e-02	-2.10e-02	2.04e-02	-1.76e-02	-6.61e-03
## 202	-1.64e-02	-1.63e-02	-2.20e-02	1.15e-02	9.97e-03	-3.03e-02	1.53e-02
## 203	1.18e-04	2.35e-04	4.30e-03	-1.45e-03	-1.94e-04	4.33e-03	2.22e-04
## 204	-2.11e-02	-8.26e-04	1.37e-02	7.73e-03	1.32e-02	9.60e-03	-2.51e-02
## 205	-1.68e-02	3.51e-03	1.27e-02	1.04e-02	9.57e-03	6.60e-03	1.10e-02
## 206	-1.36e-02	-6.29e-03	-9.88e-03	1.18e-02	1.05e-02	-1.40e-02	1.25e-02
## 207	1.37e-03	2.27e-03	2.09e-03	2.05e-03	1.94e-03	1.91e-03	-5.25e-03
## 208	1.37e-02	1.74e-03	-6.44e-03	-5.77e-03	-1.04e-02	-6.56e-03	-2.01e-02
## 209	1.93e-02	3.37e-02	-1.36e-02	3.48e-02	2.21e-02	2.94e-02	1.12e-02
## 210	-7.76e-03	-2.72e-03	-2.18e-03	5.63e-03	-1.67e-03	-4.19e-03	-3.62e-04
## 211	9.43e-03	-4.15e-02	-1.14e-02	-1.46e-02	-7.43e-03	-1.42e-02	-5.42e-03
## 212	4.10e-03	1.08e-02	1.05e-02	1.24e-02	9.21e-03	1.05e-02	7.25e-03
## 213	1.79e-03	1.41e-03	-1.89e-04	-5.82e-04	-2.33e-04	-5.05e-04	-3.38e-05
## 214	-6.10e-04	-1.24e-03	-1.02e-04	4.48e-05	-1.18e-04	-1.11e-04	-2.50e-04
## 215	1.45e-02	3.95e-03	1.58e-02	9.11e-03	1.89e-02	4.32e-03	3.08e-02
## 216	-1.76e-03	-4.56e-03	-7.74e-03	-1.10e-02	-7.46e-03	6.44e-03	-7.90e-03
## 217	1.78e-03	3.68e-03	3.84e-03	2.66e-03	4.50e-03	3.76e-03	-5.40e-03
## 218	4.48e-04	9.16e-04	8.55e-04	9.33e-04	7.73e-04	7.43e-04	1.28e-03
## 219	-4.11e-04	-6.20e-04	3.71e-04	-7.01e-04	2.75e-04	3.09e-04	2.98e-04

## 220	-2.35e-02	-2.60e-03	1.32e-02	6.65e-03	1.43e-02	9.88e-03	-2.94e-02
## 221	1.53e-02	-1.09e-04	-9.60e-03	-7.14e-03	-7.15e-03	-6.11e-03	-1.38e-02
## 222	-2.94e-03	1.07e-03	-1.79e-04	-2.91e-04	-2.97e-04	-2.85e-05	2.60e-04
## 223	-5.27e-04	-4.86e-03	-1.06e-03	-1.07e-03	-8.32e-04	-7.76e-05	-5.44e-04
## 224	8.90e-03	-3.46e-02	-1.49e-02	-2.57e-02	-1.39e-02	4.38e-02	-8.60e-03
## 225	-9.45e-04	-4.36e-03	-9.94e-04	-1.30e-03	-9.26e-04	-2.33e-04	-1.25e-03
## 226	8.49e-04	9.74e-04	1.01e-02	-2.17e-02	1.53e-02	1.59e-02	-1.40e-02
## 227	-4.26e-03	3.29e-03	5.88e-03	-7.80e-03	-6.61e-03	-6.08e-03	-6.01e-03
## 228	8.63e-03	-4.07e-02	-9.57e-03	-1.41e-02	-1.20e-02	-1.45e-02	4.17e-02
## 229	1.32e-02	-9.11e-03	1.52e-02	1.05e-02	1.61e-02	-3.21e-02	2.68e-02
## 230	2.10e-03	1.55e-03	-1.75e-03	-1.62e-03	2.81e-03	-1.17e-03	-1.74e-03
## 231	2.55e-03	-5.08e-03	-3.52e-03	-5.55e-03	1.02e-02	-3.82e-03	-1.56e-03
## 232	-9.71e-03	-9.57e-03	-5.41e-03	-8.62e-03	8.10e-03	-9.60e-03	1.02e-02
## 233	1.23e-02	1.27e-02	-6.06e-03	3.00e-02	-8.51e-03	-7.37e-03	-1.83e-02
## 234	3.07e-03	1.89e-03	-4.33e-04	-7.52e-04	-4.97e-04	-5.72e-04	2.32e-04
## 235	1.09e-02	-5.50e-03	-1.44e-03	-2.45e-03	-2.27e-03	-3.35e-03	-2.85e-03
## 236	-3.62e-02	-3.23e-02	3.63e-02	-1.04e-02	-3.50e-03	-9.88e-03	-2.26e-03
## 237	2.12e-03	5.35e-03	9.34e-03	1.34e-02	1.07e-02	-9.71e-03	1.02e-02
## 238	1.80e-02	3.15e-03	1.39e-02	8.70e-03	1.02e-02	4.91e-03	1.75e-02
## 239	1.35e-02	5.49e-03	1.96e-02	-6.93e-04	-9.29e-03	-3.47e-03	1.08e-02
## 240	-4.97e-04	-1.17e-03	-2.40e-04	2.96e-04	3.01e-04	8.32e-04	4.83e-07
## 241	-2.22e-03	-4.58e-03	1.70e-03	-5.49e-03	1.06e-03	1.34e-03	1.82e-03
## 242	4.51e-05	-1.02e-04	-9.44e-05	7.73e-04	6.98e-06	-2.07e-04	6.41e-05
## 243	-3.24e-03	3.35e-03	4.10e-03	-4.24e-03	4.96e-03	-3.72e-03	-4.21e-03
## 244	-1.06e-02	-4.24e-03	-3.36e-03	-6.83e-03	-4.95e-03	5.21e-03	9.32e-03
## 245	-6.86e-03	1.84e-02	-2.21e-02	7.87e-03	-2.68e-02	6.97e-03	3.17e-03
## 246	-1.88e-02	-1.25e-02	1.16e-02	-3.56e-02	9.90e-03	7.28e-03	1.24e-02
## 247	1.04e-02	1.74e-02	6.74e-03	8.65e-03	-1.09e-02	9.20e-03	9.75e-03
## 248	1.91e-02	4.27e-03	2.42e-02	-6.23e-03	-7.67e-03	-3.61e-03	-1.27e-02
## 249	6.14e-03	-2.95e-02	-1.16e-02	3.99e-02	-6.48e-03	-1.81e-02	-1.63e-03
## 250	7.15e-03	-9.34e-03	-1.08e-02	-1.55e-02	-1.13e-02	1.29e-02	1.89e-02
## 251	-1.19e-02	-5.98e-03	-5.94e-03	-9.50e-03	-7.19e-03	9.77e-03	-7.18e-03
## 252	1.75e-02	-1.04e-03	-1.20e-02	-1.25e-02	-1.03e-02	-8.11e-03	-1.69e-02
## 253	-4.79e-03	-5.60e-03	3.09e-02	-9.21e-03	-1.37e-02	-9.12e-03	3.60e-02
## 254	9.53e-03	5.52e-03	-8.96e-03	6.77e-03	-6.94e-03	-7.23e-03	-6.78e-03
## 255	-6.29e-04	-7.86e-03	-2.20e-03	-3.93e-03	-3.16e-03	-3.40e-03	-2.95e-03
## 256	-7.30e-04	-6.00e-05	-1.22e-03	2.36e-03	-7.91e-04	-1.14e-03	-6.00e-04
## 257	1.96e-04	-6.59e-04	-1.94e-04	-3.44e-04	-4.99e-05	-2.51e-04	4.45e-05
## 258	3.29e-03	-8.07e-03	-4.03e-03	-6.10e-03	-2.78e-03	-5.04e-03	-1.89e-03
## 259	1.01e-02	-4.31e-02	-1.16e-02	-1.56e-02	-7.72e-03	-1.34e-02	-5.16e-03
## 260	-1.19e-04	-4.30e-03	9.69e-03	-2.55e-02	-2.07e-02	8.02e-03	1.36e-02
## 261	-3.87e-03	-4.75e-03	-8.27e-03	-5.67e-03	2.62e-02	-8.41e-03	-1.86e-02
## 262	-9.55e-03	7.99e-03	1.76e-02	1.02e-03	1.50e-02	-2.22e-03	7.88e-03
## 263	3.60e-03	1.57e-03	-1.34e-02	9.32e-03	1.55e-02	5.07e-03	2.22e-02
## 264	2.56e-04	-3.61e-03	-6.04e-03	-5.27e-03	6.71e-03	-3.98e-03	6.76e-03
## 265	5.27e-03	-1.12e-02	-6.78e-03	-9.08e-03	-4.71e-03	-8.07e-03	-2.86e-03
## 266	-3.87e-03	-3.01e-03	2.62e-03	2.04e-03	1.85e-03	1.47e-03	2.77e-03
## 267	-1.13e-04	3.96e-05	3.93e-06	-2.15e-06	-5.60e-06	-7.59e-06	9.63e-06
## 268	-2.02e-02	-3.28e-02	-2.71e-02	-3.71e-02	1.81e-02	-3.46e-02	-1.70e-02
## 269	2.37e-02	1.89e-02	5.69e-05	-4.62e-03	-3.22e-03	-5.60e-03	2.31e-03

## 270	-2.81e-04	1.07e-04	-5.82e-06	1.43e-05	1.41e-06	1.89e-05	2.05e-05
## 271	1.66e-02	9.89e-03	-9.22e-03	-3.89e-03	-1.38e-02	2.93e-02	1.08e-02
## 272	3.03e-03	-2.83e-03	2.65e-03	1.93e-03	-3.51e-03	2.29e-03	-2.09e-03
## 273	-6.62e-03	-1.56e-02	-1.61e-02	-1.90e-02	-1.51e-02	-1.67e-02	-1.05e-02
## 274	1.75e-02	-2.06e-02	-3.11e-02	8.05e-03	2.27e-02	-4.35e-02	-1.63e-02
## 275	1.52e-02	-4.69e-04	-9.63e-03	-9.36e-03	-8.92e-03	-7.23e-03	-1.46e-02
## 276	-1.88e-02	1.70e-02	2.59e-02	-7.35e-03	-7.63e-03	3.41e-02	-1.40e-02
## 277	-8.26e-03	5.76e-03	1.91e-02	-1.60e-02	1.99e-02	-1.82e-02	9.11e-03
## 278	-7.56e-03	9.49e-03	-1.91e-02	-2.13e-02	6.44e-03	6.80e-03	5.71e-03
## 279	4.71e-03	-7.85e-03	8.79e-03	7.51e-03	-1.97e-02	-2.53e-02	-1.52e-02
## 280	-4.62e-03	1.73e-02	-1.79e-02	9.61e-03	4.47e-03	8.23e-03	1.49e-03
## 281	-2.89e-03	8.85e-03	-1.55e-02	-1.40e-02	3.55e-03	8.38e-03	3.12e-04
## 282	-5.17e-03	1.80e-02	-1.72e-02	1.00e-02	4.65e-03	8.19e-03	2.21e-03
## 283	1.79e-02	-7.68e-03	-2.33e-03	-2.92e-03	-3.25e-03	-3.47e-03	-3.09e-03
## 284	2.25e-03	3.80e-03	2.60e-03	-2.62e-03	1.42e-03	1.76e-03	4.01e-04
## 285	2.01e-02	5.33e-03	-1.21e-02	-8.59e-03	2.01e-02	-1.15e-02	8.63e-03
## 286	1.34e-02	7.11e-03	1.68e-02	1.41e-02	1.44e-02	1.35e-02	2.07e-02
## 287	-7.10e-03	2.39e-02	8.01e-03	9.16e-03	4.40e-03	7.51e-03	3.03e-03
## 288	1.63e-02	-3.58e-04	-9.62e-03	-9.65e-03	-9.64e-03	-6.67e-03	-1.46e-02
## 289	1.61e-02	4.73e-03	2.36e-02	-4.82e-03	-6.30e-03	-2.98e-03	-1.13e-02
## 290	1.17e-02	-4.53e-02	-1.34e-02	-1.62e-02	-8.20e-03	-1.48e-02	-5.35e-03
## 291	-1.09e-02	-3.23e-03	-1.18e-02	-5.39e-03	-7.73e-03	-1.69e-03	-1.29e-02
## 292	-2.08e-03	2.98e-03	-4.00e-03	-3.38e-03	-4.70e-03	4.25e-03	1.48e-03
## 293	-1.22e-02	-9.88e-03	-1.16e-02	1.34e-02	-1.23e-02	-1.40e-02	1.55e-02
## 294	-2.90e-02	-3.18e-03	1.11e-02	-2.95e-04	1.99e-02	6.14e-03	-2.37e-02
## 295	-5.66e-04	-5.49e-03	-1.37e-03	-1.79e-03	-1.85e-03	-2.13e-03	-2.37e-03
## 296	7.91e-05	-6.70e-03	-1.94e-03	-2.33e-03	-2.03e-03	-2.22e-03	-2.64e-03
## 297	-3.62e-03	1.42e-03	3.32e-03	3.36e-03	-1.07e-03	2.91e-03	3.33e-03
## 298	1.17e-02	-2.35e-03	1.83e-02	4.75e-03	-2.52e-02	7.37e-03	-1.26e-02
## 299	1.45e-02	2.06e-02	9.01e-03	7.03e-03	-1.63e-02	8.78e-03	-1.39e-02
## 300	1.45e-02	1.23e-02	-1.12e-02	3.15e-02	-7.05e-03	-9.73e-03	-1.39e-02
## 301	-9.15e-03	2.52e-02	7.71e-03	8.60e-03	1.25e-02	1.38e-02	-1.55e-02
## 302	-7.07e-03	9.52e-04	-2.17e-03	1.13e-03	-4.63e-03	-5.41e-04	6.64e-03
## 303	-1.80e-02	-2.44e-02	9.71e-03	8.04e-03	-3.16e-02	-3.97e-02	3.45e-02
## 304	1.83e-04	1.09e-05	2.81e-04	-6.28e-04	1.46e-04	2.44e-04	1.53e-04
## 305	9.68e-03	-7.85e-04	-1.53e-02	1.18e-02	1.05e-02	7.60e-03	1.64e-02
## 306	-3.61e-04	1.02e-04	-2.91e-06	-3.22e-05	-1.93e-05	-1.78e-05	-1.42e-06
## 307	-1.00e-02	-5.27e-03	-1.49e-02	-7.43e-03	-1.01e-02	-1.63e-03	-1.49e-02
## 308	-4.07e-03	8.31e-03	5.01e-03	7.97e-03	-4.40e-03	-4.14e-03	-3.82e-03
## 309	9.01e-03	-1.67e-03	-2.03e-02	9.53e-03	2.09e-02	7.63e-03	-1.25e-02
## 310	7.22e-03	7.68e-03	5.79e-03	-8.58e-03	-6.80e-03	8.10e-03	-6.81e-03
## 311	-2.09e-04	-8.27e-03	-2.27e-03	-3.76e-03	-3.04e-03	-2.88e-03	-3.39e-03
## 312	-1.62e-02	-2.01e-02	1.25e-02	-2.48e-02	1.34e-02	-2.54e-02	2.16e-02
## 313	4.17e-03	-8.50e-03	-5.18e-03	-6.16e-03	-2.54e-03	-3.89e-03	-1.15e-03
## 314	-2.57e-02	2.42e-03	1.38e-02	7.94e-03	1.05e-02	3.25e-03	1.87e-02
## 315	1.36e-02	1.63e-03	-7.29e-03	-3.35e-03	-8.40e-03	-5.62e-03	1.75e-02
## 316	2.56e-03	-5.90e-03	-3.31e-03	-5.13e-03	9.44e-03	-5.19e-03	-1.99e-03
## 317	1.35e-03	1.04e-03	-2.69e-05	7.31e-05	2.73e-06	-5.98e-05	1.25e-04
## 318	2.61e-02	-1.72e-02	3.88e-02	3.34e-02	-4.62e-02	3.07e-02	4.07e-02
## 319	1.95e-02	3.67e-03	-9.67e-03	-2.23e-03	1.88e-02	-5.28e-03	1.00e-02

## 320	1.04e-02	-7.48e-03	1.72e-02	1.10e-02	1.66e-02	-3.02e-02	-1.74e-02
## 321	-3.80e-02	-2.48e-02	3.67e-02	4.05e-02	-4.45e-02	4.02e-02	4.87e-02
## 322	-5.78e-04	-3.74e-05	-8.16e-04	1.67e-03	-5.38e-04	-8.03e-04	-4.05e-04
## 323	-5.54e-03	2.79e-02	7.24e-03	9.50e-03	4.54e-03	9.16e-03	3.38e-03
## 324	-3.07e-03	1.15e-02	5.30e-03	-7.91e-03	4.68e-03	8.76e-03	2.56e-03
## 325	9.99e-05	1.26e-04	1.77e-04	2.11e-04	-3.94e-04	1.44e-04	1.74e-04
## 326	5.73e-03	-8.18e-03	-1.08e-02	9.43e-03	1.62e-02	-2.04e-02	-7.00e-03
## 327	-2.27e-02	-1.28e-02	1.33e-02	7.32e-03	1.52e-02	-4.57e-02	-2.83e-02
## 328	1.37e-02	-7.37e-04	-7.53e-03	-4.10e-03	-5.38e-03	-2.36e-03	-1.05e-02
## 329	-1.88e-03	1.18e-02	1.30e-02	8.57e-03	1.14e-02	6.46e-03	-2.69e-02
## 330	1.82e-02	-3.42e-03	1.66e-02	7.85e-03	-3.87e-02	4.81e-03	2.28e-02
## 331	-6.98e-04	-7.41e-04	4.41e-05	1.71e-04	8.31e-05	3.38e-04	1.54e-04
## 332	-6.81e-04	-4.73e-03	-1.22e-03	-1.50e-03	-1.22e-03	-2.28e-04	-1.15e-03
## 333	6.29e-03	-1.63e-03	-1.12e-02	1.06e-02	-1.27e-02	1.30e-02	-1.07e-02
## 334	-1.48e-02	-1.02e-03	-8.07e-03	-5.01e-03	-5.51e-03	-3.67e-03	-1.16e-02
## 335	-1.68e-02	3.46e-03	-7.09e-03	-6.47e-03	2.53e-02	-5.35e-03	-1.39e-02
## 336	-3.19e-02	-4.40e-02	2.84e-02	-5.50e-02	3.47e-02	3.97e-02	-5.28e-02
## 337	-1.11e-02	-2.05e-03	2.07e-02	-2.45e-02	1.40e-02	-3.61e-02	1.98e-03
## 338	-2.77e-03	-2.32e-03	1.93e-03	2.13e-03	1.59e-03	1.20e-03	2.30e-03
## 339	-2.39e-02	-4.13e-03	-1.85e-02	8.96e-03	1.87e-02	1.19e-02	-1.09e-02
## 340	-6.36e-03	3.70e-03	1.78e-02	-2.05e-02	2.01e-02	-2.20e-02	9.91e-03
## 341	-4.34e-03	6.77e-03	-7.98e-03	6.42e-03	3.60e-03	-1.09e-02	1.06e-03
## 342	-5.49e-03	-5.12e-03	3.95e-03	3.40e-03	2.60e-03	2.43e-03	5.20e-03
## 343	9.16e-04	9.08e-04	-8.40e-04	-1.10e-03	-1.52e-03	9.36e-04	4.38e-04
## 344	4.69e-04	5.18e-04	1.30e-05	5.50e-05	7.24e-05	1.56e-04	1.63e-04
## 345	-8.95e-04	-1.54e-03	-4.23e-05	-2.66e-04	-3.59e-04	-2.44e-04	-3.01e-04
## 346	2.78e-02	2.82e-03	1.11e-02	3.69e-03	7.02e-03	2.23e-04	1.68e-02
## 347	1.03e-02	2.63e-03	-3.95e-03	-8.24e-04	-7.98e-03	-4.42e-03	8.47e-03
## 348	2.93e-03	1.94e-03	-1.51e-04	-5.75e-04	-4.42e-04	-2.78e-04	3.78e-04
## 349	6.73e-04	9.42e-03	1.10e-02	7.18e-03	1.55e-02	1.14e-02	-1.99e-02
## 350	-7.50e-03	-2.10e-03	-1.57e-03	-3.35e-03	-2.05e-03	5.19e-03	7.18e-03
## 351	1.93e-03	1.24e-03	1.37e-03	-1.19e-03	-1.76e-03	-1.17e-03	1.04e-03
## 352	-4.67e-03	1.90e-02	6.38e-03	9.94e-03	5.50e-03	9.06e-03	4.24e-03
## 353	-2.90e-02	-3.15e-03	1.09e-02	-4.00e-04	1.97e-02	5.90e-03	-2.38e-02
## 354	-1.80e-02	1.18e-02	2.59e-02	-5.36e-03	2.90e-02	-4.96e-03	-1.47e-02
## 355	-9.92e-04	7.06e-04	-1.56e-02	3.86e-02	-1.42e-02	-1.21e-02	3.92e-02
## 356	1.69e-02	1.66e-03	-9.09e-03	-5.63e-03	-1.09e-02	-6.99e-03	-2.15e-02
## 357	2.16e-02	1.95e-02	7.86e-03	-2.52e-02	3.21e-03	6.07e-03	-6.38e-04
## 358	7.69e-04	-1.89e-04	-2.28e-03	8.77e-03	1.20e-02	-4.43e-03	2.40e-04
## 359	5.08e-04	-1.99e-03	-2.06e-02	3.99e-02	-1.68e-02	-1.35e-02	-6.87e-03
## 360	6.72e-03	-2.05e-03	1.29e-02	-1.55e-02	1.62e-02	1.27e-02	-6.45e-03
## 361	-5.74e-05	-5.49e-03	-1.21e-03	-1.45e-03	-1.73e-03	-1.72e-03	-1.84e-03
## 362	-1.45e-02	-4.31e-03	-8.52e-03	1.15e-02	1.64e-02	-8.16e-03	-1.96e-03
## 363	-2.24e-03	4.31e-03	2.18e-03	2.73e-03	-2.70e-03	2.28e-03	1.35e-03
## 364	-7.81e-04	-7.26e-04	9.75e-06	2.60e-05	2.91e-05	2.37e-04	2.88e-05
## 365	-1.80e-02	-1.02e-02	1.37e-02	1.16e-02	1.13e-02	-2.97e-02	1.64e-02
## 366	1.36e-02	8.13e-03	-5.37e-03	-2.95e-03	1.81e-02	-7.92e-03	9.55e-03
## 367	-6.66e-03	1.19e-02	6.28e-03	-1.71e-02	6.65e-03	8.13e-03	6.72e-03
## 368	1.47e-04	-6.26e-03	-1.80e-03	-2.08e-03	-2.10e-03	-2.11e-03	-2.74e-03
## 369	3.45e-04	4.16e-03	1.40e-02	9.22e-03	-4.04e-03	1.05e-02	-9.24e-04

## 370	-1.97e-04	1.03e-03	1.64e-04	6.58e-04	6.85e-05	4.34e-04	-1.14e-04
## 371	-5.83e-04	-1.08e-03	-7.69e-05	1.42e-05	-8.32e-05	-1.31e-04	-1.71e-04
## 372	-1.18e-02	1.37e-03	-4.33e-03	-8.88e-04	-5.41e-03	-2.69e-03	1.46e-02
## 373	5.95e-04	-5.57e-04	3.96e-03	-2.57e-03	4.34e-03	-2.75e-03	3.43e-03
## 374	2.59e-03	-4.27e-03	-4.05e-03	9.21e-03	-4.89e-03	-7.95e-03	1.45e-02
## 375	-2.43e-02	-4.72e-03	-1.84e-02	8.70e-03	1.91e-02	1.18e-02	-1.04e-02
## 376	6.55e-03	5.16e-03	-6.25e-03	6.09e-03	-4.85e-03	-5.49e-03	-5.24e-03
## 377	4.45e-03	1.09e-02	1.03e-02	1.21e-02	9.29e-03	1.03e-02	7.56e-03
## 378	-1.44e-02	1.68e-02	-1.27e-02	-6.91e-03	1.95e-02	3.15e-02	8.98e-03
## 379	-2.46e-03	-1.67e-03	1.86e-03	1.59e-03	1.26e-03	9.75e-04	1.95e-03
## 380	1.52e-02	-9.50e-03	1.29e-02	1.49e-02	-1.98e-02	-2.31e-02	2.06e-02
## 381	-1.27e-02	-7.59e-03	-7.69e-03	1.07e-02	-9.45e-03	-1.14e-02	1.25e-02
## 382	7.72e-03	-3.80e-02	3.98e-02	-1.94e-02	-8.83e-03	-1.70e-02	-4.29e-03
## 383	3.66e-04	4.85e-04	4.66e-04	6.23e-04	3.06e-04	4.94e-04	4.10e-04
## 384	-1.29e-02	6.66e-03	2.07e-02	-9.75e-04	-5.62e-03	-2.79e-03	-1.43e-02
## 385	3.92e-03	-1.55e-04	-9.74e-03	1.28e-02	-6.04e-03	1.88e-02	-2.64e-04
## 386	5.60e-03	2.49e-02	8.23e-03	1.32e-02	8.97e-03	1.79e-02	1.35e-02
## 387	-7.22e-03	1.74e-03	1.88e-02	-1.92e-02	3.20e-02	-1.01e-02	-2.71e-02
## 388	1.32e-04	-5.35e-03	-5.49e-03	-5.70e-03	-5.20e-03	-5.07e-03	6.39e-03
## 389	8.72e-03	4.57e-04	1.77e-02	1.03e-02	-1.97e-02	9.93e-03	2.86e-02
## 390	-3.91e-03	2.31e-02	6.62e-03	1.04e-02	4.62e-03	8.54e-03	2.97e-03
## 391	1.50e-02	2.23e-04	1.68e-02	6.26e-03	2.13e-02	1.05e-02	-1.57e-02
## 392	1.91e-02	7.79e-03	-2.21e-02	5.52e-03	-1.92e-02	-2.54e-02	-1.87e-02
## 393	-7.59e-03	3.29e-02	8.14e-03	8.98e-03	4.28e-03	6.93e-03	2.21e-03
## 394	-8.88e-04	-4.89e-03	-1.10e-03	-1.57e-03	-1.66e-03	-2.06e-03	-2.12e-03
## 395	7.90e-03	6.48e-03	2.08e-02	7.32e-03	2.29e-02	6.63e-03	-1.40e-02
## 396	-2.07e-03	-1.59e-03	1.51e-03	1.65e-03	1.19e-03	9.11e-04	1.71e-03
## 397	1.19e-02	-2.52e-02	1.52e-02	-3.14e-02	-1.72e-02	-2.99e-02	-1.13e-02
## 398	3.06e-02	3.42e-03	2.54e-02	-1.67e-02	-1.51e-02	-1.23e-02	-2.09e-02
## 399	1.69e-05	-4.65e-03	1.04e-02	6.54e-03	-1.73e-02	-2.59e-02	-1.46e-02
## 400	-7.43e-04	-1.80e-03	-1.93e-04	7.41e-05	-1.85e-04	-1.06e-04	-3.10e-04
## 401	-5.82e-04	-1.23e-03	-1.69e-04	-1.17e-04	-1.33e-04	-9.83e-05	-4.26e-04
## 402	-6.42e-04	-2.96e-03	-5.94e-04	-2.55e-04	-2.61e-04	1.50e-04	-8.61e-04
## 403	-2.64e-03	-7.30e-03	-4.47e-02	-2.58e-02	1.82e-02	-2.50e-02	5.86e-03
## 404	4.89e-03	-4.78e-03	-5.81e-03	2.54e-03	-4.72e-03	4.39e-03	-2.24e-03
## 405	-9.76e-04	-1.97e-03	-3.70e-04	-1.05e-04	1.26e-04	1.01e-03	8.35e-05
## 406	1.61e-03	1.19e-03	-7.70e-05	5.28e-05	-2.49e-05	-9.18e-05	1.35e-04
## 407	1.83e-03	-2.04e-03	1.07e-02	-7.42e-03	-5.17e-03	8.60e-03	-5.07e-03
## 408	-2.73e-02	-4.29e-03	-2.46e-02	6.74e-03	1.92e-02	7.44e-03	-1.40e-02
## 409	1.81e-04	2.68e-02	7.55e-03	1.27e-02	1.09e-02	1.03e-02	9.84e-03
## 410	-3.26e-04	2.77e-02	8.49e-03	1.39e-02	1.10e-02	1.09e-02	1.03e-02
## 411	-1.22e-02	4.11e-03	1.95e-02	-1.71e-03	-3.53e-03	-4.13e-04	-8.13e-03
## 412	5.93e-03	-2.96e-03	-5.93e-04	-1.29e-03	-8.86e-04	-1.42e-03	-1.16e-03
## 413	1.28e-02	4.79e-03	1.68e-02	1.11e-02	1.16e-02	6.03e-03	1.80e-02
## 414	5.88e-03	-7.83e-03	-7.89e-03	8.59e-03	-1.20e-02	-1.55e-02	1.06e-02
## 415	-2.46e-02	5.56e-03	1.75e-02	1.09e-02	1.19e-02	4.98e-03	1.41e-02
## 416	-1.63e-02	-3.67e-03	-1.92e-02	1.18e-02	9.36e-03	7.67e-03	1.26e-02
## 417	2.92e-04	-6.46e-04	-8.03e-04	3.53e-03	-7.50e-04	-1.64e-03	4.99e-03
## 418	4.49e-03	-1.24e-03	-1.58e-05	3.18e-05	-2.20e-05	2.28e-04	1.45e-04
## 419	2.52e-02	5.14e-03	2.78e-02	-1.56e-02	-1.85e-02	-1.23e-02	-3.08e-02

## 420	1.36e-02	4.54e-03	-6.90e-03	-3.53e-03	2.46e-02	-3.28e-03	-1.21e-02
## 421	1.96e-02	-8.88e-03	-2.87e-03	-4.83e-03	-4.47e-03	-5.25e-03	-3.42e-03
## 422	-2.14e-02	-3.35e-04	1.36e-02	9.94e-03	1.02e-02	8.57e-03	1.77e-02
## 423	1.03e-02	-1.16e-02	-1.38e-02	1.27e-02	-1.19e-02	-1.57e-02	2.27e-02
## 424	3.61e-03	-1.48e-03	-1.44e-04	-1.97e-04	-2.65e-04	-5.72e-04	-3.71e-04
## 425	3.42e-03	-7.19e-03	-1.39e-02	-1.41e-02	-1.57e-02	9.08e-03	3.84e-03
## 426	7.29e-03	1.90e-02	8.05e-03	7.64e-03	4.93e-03	3.06e-03	1.72e-03
## 427	3.57e-03	-1.19e-03	-1.23e-02	9.94e-03	-1.02e-02	1.27e-02	-5.00e-03
## 428	2.07e-02	6.09e-04	1.33e-02	1.12e-02	1.66e-02	8.30e-03	3.24e-02
## 429	1.72e-02	1.35e-03	1.49e-02	9.00e-03	1.07e-02	6.55e-03	1.77e-02
## 430	-2.90e-03	-3.61e-03	-3.85e-03	2.20e-03	-3.05e-03	3.55e-03	-1.24e-03
## 431	2.08e-02	3.25e-02	2.50e-03	1.27e-02	1.46e-02	2.28e-02	1.22e-02
## 432	9.94e-04	1.49e-03	1.27e-03	1.50e-03	8.36e-04	1.01e-03	9.80e-04
## 433	-2.05e-03	9.26e-03	4.60e-03	-1.53e-02	-1.86e-02	8.85e-03	1.53e-03
## 434	1.30e-02	-4.54e-02	-1.41e-02	-1.67e-02	-8.81e-03	-1.52e-02	-5.39e-03
## 435	-6.75e-04	-6.88e-04	-4.85e-05	-7.07e-06	8.65e-05	1.88e-04	7.08e-06
## 436	1.89e-03	-3.92e-03	9.34e-03	8.42e-03	-1.65e-02	-1.91e-02	-1.77e-02
## 437	-6.34e-04	-1.10e-03	-1.55e-04	-1.20e-04	-4.96e-05	-1.80e-04	-3.21e-04
## 438	-1.66e-04	1.21e-03	7.21e-05	7.02e-04	-2.11e-05	4.38e-04	-2.38e-04
## 439	1.02e-02	-7.79e-03	1.53e-02	1.07e-02	1.62e-02	-2.96e-02	2.50e-02
## 440	-2.23e-03	1.07e-02	5.46e-03	1.01e-02	-1.90e-02	-1.73e-02	4.74e-03
## 441	2.05e-02	-3.51e-02	1.39e-02	-3.73e-02	-2.41e-02	-3.36e-02	-1.07e-02
## 442	4.93e-03	-3.95e-03	1.83e-02	-2.26e-02	1.92e-02	1.02e-02	-1.08e-02
## 443	3.64e-03	-1.03e-02	-4.98e-03	-8.77e-03	-4.14e-03	-7.50e-03	-1.75e-03
## 444	1.77e-02	1.43e-02	6.62e-03	-1.71e-02	6.50e-03	8.93e-03	7.22e-03
## 445	-2.24e-02	3.74e-03	1.55e-02	1.26e-02	1.62e-02	9.32e-03	2.37e-02
## 446	-6.54e-03	4.49e-03	1.63e-02	-1.99e-02	1.96e-02	-2.25e-02	8.38e-03
## 447	1.52e-02	-1.16e-03	-9.96e-03	-9.92e-03	-8.73e-03	-7.43e-03	-1.44e-02
## 448	1.24e-03	-4.54e-04	2.17e-05	4.43e-06	5.98e-06	3.44e-05	-1.01e-05
## 449	-2.36e-02	-1.18e-02	1.07e-02	4.05e-03	-3.23e-02	1.17e-02	-1.34e-02
## 450	6.98e-03	2.45e-03	2.21e-04	1.12e-03	-8.17e-03	1.00e-03	-6.60e-05
## 451	1.03e-03	-4.42e-04	-1.44e-05	-9.09e-05	-1.11e-04	-2.24e-04	-1.98e-04
## 452	-5.27e-03	3.54e-03	6.67e-03	-1.73e-02	-1.69e-02	-1.75e-02	8.73e-03
## 453	-1.99e-03	-4.24e-03	-7.12e-03	5.28e-03	-6.26e-03	-9.93e-03	-5.89e-03
## 454	2.63e-02	-2.15e-03	-1.78e-02	-1.26e-02	-1.71e-02	-1.03e-02	-3.11e-02
## 455	-3.36e-04	9.46e-05	-9.03e-08	-2.14e-05	-1.71e-05	-1.51e-06	1.77e-05
## 456	1.90e-02	-1.39e-02	-3.18e-02	4.65e-03	-2.84e-02	1.14e-02	-1.44e-02
## 457	-1.06e-02	-8.61e-03	-9.56e-03	1.01e-02	-8.46e-03	-1.09e-02	-7.56e-03
## 458	-2.80e-03	3.88e-03	-4.72e-03	5.51e-03	-2.83e-03	-2.43e-03	-2.86e-03
## 459	-2.56e-04	-6.50e-03	-1.96e-03	-2.23e-03	-1.81e-03	-2.54e-03	-2.55e-03
## 460	2.70e-02	-5.19e-04	1.15e-02	6.55e-03	8.73e-03	5.49e-03	1.99e-02
## 461	-4.59e-05	-5.22e-03	-1.18e-03	-1.42e-03	-1.70e-03	-1.69e-03	-1.85e-03
## 462	-9.21e-03	1.91e-02	-2.14e-02	6.58e-03	1.01e-02	9.41e-03	-1.98e-02
## 463	-1.30e-02	5.86e-03	-3.90e-03	-1.90e-03	1.64e-02	-4.68e-03	7.61e-03
## 464	-1.17e-02	6.28e-03	1.95e-02	4.69e-04	-7.20e-03	-3.17e-03	9.79e-03
## 465	-2.39e-05	-1.51e-03	-2.26e-04	-1.25e-03	-6.07e-06	-9.72e-04	7.13e-05
## 466	-1.74e-03	2.15e-03	4.53e-03	5.11e-03	5.29e-03	-3.86e-03	6.00e-03
## 467	9.90e-04	9.36e-04	9.88e-03	8.58e-03	-1.09e-03	-5.55e-03	9.04e-05
## 468	3.76e-04	3.15e-03	-2.26e-03	8.11e-03	9.29e-03	7.12e-03	-4.69e-03
## 469	5.56e-04	5.23e-04	-7.92e-05	-2.94e-04	-1.23e-04	-3.28e-04	-5.56e-05

## 470	1.41e-02	-4.68e-02	-1.46e-02	-2.10e-02	-1.65e-02	-1.79e-02	-2.11e-02
## 471	-1.68e-03	-3.81e-03	-9.33e-04	-1.17e-03	-7.38e-04	-1.29e-03	-1.59e-03
## 472	7.69e-03	-3.54e-02	-7.12e-03	-9.57e-03	-9.56e-03	-1.26e-02	-1.50e-02
## 473	-7.92e-03	2.53e-02	5.30e-03	5.50e-03	-2.74e-02	1.19e-02	-2.26e-02
## 474	-2.33e-03	3.62e-03	3.80e-03	-5.86e-03	3.00e-03	-7.57e-03	9.71e-04
## 475	1.52e-02	6.38e-03	2.51e-02	-8.41e-03	-6.89e-03	-6.34e-03	-1.45e-02
## 476	-1.54e-02	3.98e-03	2.43e-02	-8.99e-03	-9.44e-03	-6.33e-03	-1.57e-02
## 477	-8.50e-03	1.00e-02	-1.36e-02	7.53e-03	9.86e-03	-1.77e-02	-1.32e-02
## 478	-2.14e-03	-2.54e-03	-1.64e-02	-1.58e-02	-1.70e-02	-1.47e-02	-1.90e-02
## 479	1.23e-02	1.24e-02	-5.88e-03	-3.06e-03	-1.18e-02	2.53e-02	9.22e-03
## 480	2.34e-02	-2.08e-03	-1.75e-02	-1.65e-02	-1.34e-02	-1.14e-02	-1.93e-02
## 481	-3.72e-04	-9.08e-04	-1.01e-04	4.38e-04	3.20e-04	7.33e-04	1.72e-04
## 482	5.24e-03	9.76e-03	-2.48e-02	4.42e-02	3.74e-02	-2.24e-02	-2.98e-02
## 483	-2.97e-02	2.09e-03	1.68e-02	8.13e-03	1.73e-02	6.81e-03	3.23e-02
## 484	3.02e-04	-1.59e-03	-9.70e-04	5.16e-03	-9.48e-04	-3.35e-03	-6.75e-05
## 485	1.60e-02	6.71e-03	2.46e-02	-6.15e-03	-9.75e-03	-7.07e-03	2.12e-02
## 486	-1.57e-04	6.05e-03	1.03e-02	8.87e-03	1.02e-02	8.46e-03	1.30e-02
## 487	2.35e-02	-1.16e-02	-4.01e-02	2.52e-03	1.88e-02	9.19e-03	-2.08e-02
## 488	-3.77e-04	-7.40e-04	3.33e-04	-8.56e-04	2.40e-04	2.91e-04	2.93e-04
## 489	-1.58e-02	8.19e-05	-7.24e-03	-4.77e-03	-4.80e-03	-3.61e-03	-1.20e-02
## 490	8.12e-04	1.60e-03	-3.13e-03	8.92e-03	-2.08e-03	1.10e-02	5.71e-04
## 491	-5.08e-03	2.28e-02	-2.76e-02	7.30e-03	6.02e-03	1.04e-02	-3.27e-02
## 492	1.56e-02	1.22e-02	-9.99e-03	3.12e-02	-7.77e-03	-8.14e-03	-1.27e-02
## 493	4.06e-03	1.06e-02	-5.57e-03	5.32e-03	5.23e-03	4.20e-03	4.32e-03
## 494	5.81e-05	-6.76e-03	-1.94e-03	-2.33e-03	-2.03e-03	-2.22e-03	-2.63e-03
## 495	-3.06e-03	-1.86e-03	3.71e-02	-1.82e-02	3.23e-02	-2.64e-02	-3.09e-02
## 496	-2.01e-03	1.35e-03	-4.86e-03	-4.19e-03	2.44e-03	-5.51e-03	8.20e-04
## 497	3.05e-03	1.95e-03	-2.48e-04	-6.63e-04	-5.27e-04	-3.52e-04	3.18e-04
## 498	-5.80e-03	-9.85e-03	3.29e-02	-1.55e-02	-1.17e-02	-1.09e-02	-6.52e-03
## 499	-1.88e-02	2.51e-02	2.76e-02	3.45e-02	2.72e-02	-9.26e-03	-2.15e-02
## 500	8.78e-03	-1.82e-02	-1.16e-02	-1.45e-02	-7.74e-03	-1.15e-02	-4.61e-03
## 501	-9.60e-05	2.50e-03	1.03e-02	-5.21e-03	8.50e-03	7.43e-03	8.08e-03
## 502	-2.86e-04	-6.63e-04	-4.80e-04	3.13e-04	-4.39e-04	-4.70e-04	-3.72e-04
## 503	-7.33e-03	-6.32e-03	7.20e-03	-5.35e-03	-5.87e-03	-7.16e-03	6.11e-03
## 504	-4.75e-03	-3.64e-03	2.98e-03	3.02e-03	3.89e-03	2.40e-03	6.30e-03
## 505	-1.25e-02	8.01e-03	2.20e-02	-2.44e-03	2.25e-02	-3.10e-03	-1.96e-02
## 506	2.30e-02	-4.12e-03	1.27e-02	8.37e-03	-3.76e-02	7.37e-03	2.13e-02
## 507	1.15e-02	1.21e-02	-4.64e-03	-2.42e-03	-1.12e-02	2.59e-02	9.72e-03
## 508	-1.80e-02	9.91e-03	-1.11e-02	-1.00e-02	-8.70e-03	3.37e-02	-1.68e-02
## 509	5.05e-05	-6.50e-03	-1.79e-03	-2.09e-03	-2.10e-03	-2.14e-03	-2.69e-03
## 510	-1.40e-02	-1.70e-02	1.07e-02	-1.71e-02	-1.30e-02	-1.75e-02	2.13e-02
## 511	3.35e-03	-6.27e-03	1.62e-02	-1.68e-02	-8.64e-03	1.11e-02	-4.70e-03
## 512	-1.11e-02	-1.44e-03	-5.92e-03	-2.44e-03	-4.22e-03	9.25e-05	-8.68e-03
## 513	3.88e-03	-6.97e-03	-7.46e-03	9.85e-03	1.58e-02	-1.64e-02	-5.14e-03
## 514	1.15e-02	-2.20e-02	-1.39e-02	-1.83e-02	-1.78e-02	-1.98e-02	1.15e-02
## 515	-1.55e-02	1.78e-02	-2.45e-02	-1.73e-02	2.01e-02	3.68e-02	1.06e-02
## 516	-1.63e-03	2.93e-03	2.75e-03	-2.65e-03	2.44e-03	-3.22e-03	1.24e-03
## 517	-2.39e-02	2.99e-03	1.33e-02	1.09e-02	1.19e-02	4.48e-03	1.72e-02
## 518	2.79e-02	1.06e-02	-1.88e-02	3.56e-02	-1.30e-02	-7.77e-03	-1.52e-02
## 519	-6.06e-04	-5.28e-03	-1.30e-03	-1.76e-03	-1.49e-03	-1.87e-03	-2.25e-03

## 520	9.13e-04	8.83e-04	-3.61e-03	9.39e-03	-3.88e-03	1.04e-02	-2.96e-04
## 521	1.80e-02	3.14e-02	9.75e-03	8.32e-03	5.25e-03	3.63e-03	2.91e-03
## 522	3.17e-03	4.46e-03	1.47e-02	1.10e-02	1.35e-02	7.22e-03	1.84e-02
## 523	-1.52e-02	-3.60e-03	-1.67e-02	-1.35e-02	-1.30e-02	-8.38e-03	-1.72e-02
## 524	-1.07e-02	2.64e-03	-1.48e-02	-6.14e-03	1.89e-02	-9.58e-03	8.46e-03
## 525	-1.08e-02	-2.65e-03	9.82e-03	-7.20e-03	-5.19e-03	9.44e-03	-5.61e-03
## 526	1.97e-05	-8.90e-04	-7.83e-05	-6.82e-04	-1.90e-05	-5.63e-04	1.24e-04
## 527	2.43e-03	-2.38e-03	-3.96e-03	8.93e-03	1.01e-02	-8.92e-03	-5.38e-03
## 528	1.77e-04	1.96e-04	-3.10e-06	-9.47e-05	-6.04e-05	-1.11e-04	-2.54e-05
## 529	2.13e-03	-2.60e-03	-3.98e-03	9.88e-03	-4.35e-03	-7.26e-03	-4.36e-03
## 530	-9.65e-04	-1.38e-03	1.03e-05	2.65e-04	2.11e-04	6.92e-04	2.53e-04
## 531	3.38e-03	2.27e-03	-4.14e-04	-9.53e-04	-5.68e-04	-4.74e-04	2.35e-05
## 532	-2.25e-02	-3.32e-03	1.15e-02	4.97e-03	1.39e-02	9.37e-03	-3.15e-02
## 533	1.99e-05	-7.27e-04	1.44e-02	1.01e-02	-2.39e-03	-9.20e-03	6.43e-04
## 534	-1.15e-02	1.25e-03	-3.77e-03	-1.44e-03	-5.46e-03	-2.58e-03	-1.40e-02
## 535	2.45e-02	-8.04e-03	1.19e-02	3.52e-03	-3.83e-02	8.49e-03	-2.86e-02
## 536	1.99e-03	1.21e-03	-6.94e-03	1.01e-02	9.73e-03	5.72e-03	1.11e-02
## 537	-2.43e-03	3.73e-03	-4.78e-03	-4.31e-03	-6.12e-03	4.86e-03	1.95e-03
## 538	-1.46e-02	2.61e-03	-2.84e-03	8.90e-03	1.27e-02	9.41e-03	-1.43e-03
## 539	1.31e-03	-1.41e-03	8.16e-04	-1.81e-03	5.86e-04	5.66e-04	6.18e-04
## 540	-1.81e-04	1.22e-03	1.18e-04	7.13e-04	4.10e-05	4.65e-04	-1.54e-04
## 541	2.78e-02	3.37e-02	6.82e-03	7.76e-03	7.36e-03	8.80e-03	1.25e-02
## 542	9.23e-05	-6.40e-03	-1.79e-03	-2.09e-03	-2.10e-03	-2.13e-03	-2.71e-03
## 543	-1.24e-02	1.46e-03	-6.91e-03	-2.18e-03	-7.74e-03	-3.98e-03	1.75e-02
## 544	-8.07e-03	2.05e-02	-1.77e-02	4.03e-02	-1.96e-02	3.79e-02	4.35e-02
## 545	-2.06e-02	4.56e-03	1.44e-02	1.23e-02	1.60e-02	1.27e-02	2.46e-02
## 546	3.25e-02	3.26e-03	2.21e-02	-1.61e-02	-2.08e-02	-1.38e-02	2.35e-02
## 547	1.31e-03	-2.19e-03	-3.18e-03	8.80e-03	1.24e-02	-7.55e-03	-1.58e-03
## 548	3.59e-03	-7.77e-03	-7.92e-03	-1.51e-02	-9.68e-03	1.12e-02	-1.05e-02
## 549	-6.30e-04	-5.18e-03	-1.33e-03	-1.82e-03	-1.66e-03	-2.09e-03	-2.21e-03
## 550	4.14e-05	-5.27e-04	-2.98e-04	-1.22e-03	-2.21e-04	3.22e-03	9.72e-05
## 551	-5.28e-05	5.84e-04	3.91e-05	3.16e-04	1.83e-06	2.06e-04	-1.09e-04
## 552	2.24e-03	1.85e-03	-2.30e-04	-7.85e-04	-5.40e-04	-6.72e-04	5.78e-05
## 553	7.72e-03	-2.39e-03	-3.75e-04	-1.01e-04	-5.03e-06	6.44e-04	1.53e-04
## 554	-1.45e-02	3.88e-03	2.46e-02	-1.22e-02	-1.29e-02	-8.59e-03	-1.81e-02
## 555	3.27e-03	4.39e-03	3.44e-03	-3.68e-03	-3.86e-03	3.97e-03	3.48e-03
## 556	-1.68e-04	-6.27e-03	-1.61e-03	-1.91e-03	-1.73e-03	-1.80e-03	-2.71e-03
## 557	-1.19e-03	1.03e-03	-2.01e-03	-1.74e-03	1.91e-03	-1.72e-03	-3.15e-03
## 558	-1.95e-02	1.48e-03	1.31e-02	1.19e-02	1.13e-02	8.75e-03	1.64e-02
## 559	-3.39e-03	1.54e-02	6.48e-03	9.83e-03	4.88e-03	-2.12e-02	3.67e-03
## 560	2.60e-03	-3.82e-03	-5.98e-03	1.16e-02	1.74e-02	-1.18e-02	-1.67e-03
## 561	2.14e-02	-9.84e-03	-4.17e-03	-6.53e-03	-4.83e-03	-6.20e-03	-4.60e-03
## 562	-4.90e-03	1.30e-02	5.28e-03	-2.17e-02	9.70e-03	1.11e-02	-1.98e-02
## 563	1.60e-03	5.27e-03	1.43e-02	1.14e-02	-3.50e-03	1.42e-02	9.80e-04
## 564	-3.10e-03	9.04e-03	5.01e-03	8.11e-03	-1.70e-02	-1.68e-02	-2.00e-02
## 565	6.17e-03	-5.13e-03	-7.60e-03	2.55e-03	3.35e-03	2.48e-03	-7.95e-03
## 566	-1.57e-02	-1.78e-02	1.23e-02	-2.01e-02	2.01e-02	-1.75e-02	-6.81e-03
## 567	-5.04e-03	-6.40e-03	3.71e-03	3.01e-03	-8.78e-03	3.48e-03	8.77e-03
## 568	-1.10e-02	2.35e-03	-1.56e-02	-6.70e-03	1.94e-02	-1.06e-02	8.53e-03
## 569	3.18e-03	-4.86e-03	-1.37e-02	1.07e-02	-1.42e-02	-1.27e-02	8.65e-03

## 570	9.91e-04	7.83e-04	-7.69e-05	-1.11e-04	-2.59e-05	-1.24e-04	-1.04e-05
## 571	2.60e-03	3.88e-03	-2.57e-03	3.42e-03	2.43e-03	-2.73e-03	1.31e-03
## 572	-3.79e-03	1.03e-02	5.30e-03	1.01e-02	-1.18e-02	-1.06e-02	1.06e-02
## 573	-6.26e-03	-7.38e-03	1.93e-02	-2.88e-02	-4.43e-02	-3.04e-02	9.99e-03
## 574	1.51e-02	-2.37e-02	-2.66e-02	7.32e-03	-2.28e-02	-3.94e-02	-1.14e-02
## 575	9.99e-04	-7.82e-04	7.20e-04	6.91e-04	-1.47e-03	4.81e-04	7.67e-04
## 576	8.45e-03	-7.82e-03	1.39e-02	-1.66e-02	-1.23e-02	1.45e-02	-1.14e-02
## 577	-2.18e-02	2.02e-04	1.37e-02	9.74e-03	1.05e-02	8.26e-03	1.90e-02
## 578	1.08e-02	-1.36e-02	-2.07e-02	-3.18e-02	1.45e-02	6.59e-03	2.14e-02
## 579	9.49e-06	-8.57e-03	-2.60e-03	-4.31e-03	-3.41e-03	-3.40e-03	-3.19e-03
## 580	3.48e-03	2.81e-02	5.69e-03	6.58e-03	9.10e-03	1.15e-02	1.05e-02
## 581	1.56e-02	1.22e-02	-1.12e-02	3.06e-02	-9.50e-03	-1.08e-02	-1.35e-02
## 582	-1.05e-02	3.14e-03	-3.56e-03	4.49e-04	1.71e-02	-1.08e-03	1.32e-02
## 583	-1.33e-04	-7.39e-03	-1.81e-03	-2.94e-03	-2.98e-03	-3.01e-03	-2.34e-03
## 584	-2.45e-04	-8.49e-03	-2.33e-03	-4.01e-03	-3.45e-03	-3.33e-03	-3.11e-03
## 585	-8.76e-03	3.86e-04	-3.27e-03	2.51e-04	-3.79e-03	-3.87e-04	1.23e-02
## 586	-7.68e-04	1.17e-03	-8.20e-04	-8.12e-04	9.14e-04	1.34e-03	-1.36e-03
## 587	-4.11e-04	-3.00e-03	-6.01e-04	-2.99e-05	-2.05e-04	1.37e-04	-4.23e-04
## 588	1.41e-04	-3.84e-04	-4.70e-04	-1.22e-03	-6.44e-04	3.08e-03	3.74e-03
## 589	-5.21e-03	-5.46e-03	2.96e-03	2.52e-03	1.93e-03	1.76e-03	3.94e-03
## 590	4.21e-05	-9.84e-04	3.44e-03	-1.06e-03	6.30e-05	-6.98e-04	3.61e-04
## 591	2.40e-03	-1.02e-03	-9.85e-05	-1.41e-04	-1.80e-04	-3.93e-04	-3.08e-04
## 592	-2.07e-03	-3.11e-03	1.77e-03	1.71e-03	1.32e-03	-4.31e-03	1.96e-03
## 593	-1.42e-02	-1.53e-02	-1.49e-02	-2.00e-02	-1.94e-02	9.00e-03	1.10e-02
## 594	-4.93e-03	2.62e-02	7.02e-03	1.09e-02	5.49e-03	9.27e-03	3.30e-03
## 595	-4.94e-02	-9.45e-03	-1.33e-02	4.18e-02	5.10e-02	4.37e-02	-5.20e-03
## 596	2.07e-03	-5.62e-03	-7.59e-03	-6.00e-03	-5.49e-03	-3.82e-03	-7.59e-03
## 597	2.65e-02	1.82e-02	5.49e-03	1.03e-02	8.98e-03	-2.67e-02	1.18e-02
## 598	3.92e-03	2.45e-03	-1.04e-02	1.17e-02	1.57e-02	1.13e-02	2.16e-02
## 599	1.00e-03	7.23e-04	-5.09e-05	-7.72e-06	-9.05e-05	-6.57e-05	2.36e-05
## 600	-1.74e-02	-1.01e-02	1.32e-02	1.13e-02	1.08e-02	-3.10e-02	1.63e-02
## 601	-2.00e-04	-3.80e-03	-1.06e-03	-5.24e-04	-3.81e-04	2.78e-04	-9.48e-04
## 602	1.17e-03	5.94e-03	1.24e-02	9.99e-03	9.10e-03	7.15e-03	1.07e-02
## 603	4.63e-03	-4.43e-03	-6.73e-03	1.06e-02	-3.23e-03	-6.29e-03	-4.43e-04
## 604	1.07e-02	-1.81e-02	1.37e-02	-2.03e-02	-1.11e-02	-1.56e-02	-5.51e-03
## 605	-2.78e-03	-4.15e-03	-5.65e-03	2.07e-03	1.22e-03	1.52e-03	2.45e-03
## 606	-6.94e-04	6.67e-04	9.40e-04	-6.82e-04	-5.46e-04	-4.09e-04	-6.64e-04
## 607	1.67e-06	-3.37e-06	-2.12e-06	-2.93e-06	-1.72e-06	2.43e-06	-1.11e-06
## 608	-3.80e-04	2.72e-03	1.93e-04	1.15e-03	-3.05e-04	8.19e-04	-3.91e-04
## 609	-3.35e-03	1.08e-02	-4.32e-02	3.83e-02	1.76e-02	-2.45e-02	1.51e-02
## 610	-5.41e-03	-7.09e-03	3.27e-02	-1.74e-02	-1.22e-02	-1.43e-02	-1.21e-02
## 611	6.56e-03	1.25e-03	4.57e-02	3.62e-02	5.28e-02	4.30e-02	-1.03e-02
## 612	2.38e-03	1.64e-03	-4.03e-04	-7.97e-04	-3.75e-04	-6.15e-04	-1.38e-04
## 613	6.84e-03	-1.14e-02	-1.31e-02	-2.24e-02	-1.17e-02	1.48e-02	-7.39e-03
## 614	1.88e-03	2.74e-03	1.80e-03	2.55e-03	-1.44e-03	-1.36e-03	2.40e-03
## 615	2.07e-02	2.76e-02	7.27e-03	1.01e-02	4.49e-03	7.13e-03	2.16e-03
## 616	3.08e-03	9.78e-03	1.06e-02	1.00e-02	8.28e-03	9.32e-03	7.47e-03
## 617	1.29e-03	-7.08e-04	1.42e-02	9.56e-03	-3.83e-03	-1.05e-02	-1.17e-03
## 618	3.20e-03	-7.15e-03	-4.07e-03	-6.90e-03	5.32e-03	-9.07e-03	5.10e-03
## 619	2.33e-02	-8.13e-03	-3.43e-02	7.06e-03	7.57e-03	5.83e-03	1.51e-02

## 620	1.31e-03	1.05e-02	1.06e-02	8.05e-03	1.25e-02	7.24e-03	1.69e-02
## 621	1.79e-03	-3.30e-03	-2.82e-03	-5.71e-03	-5.77e-03	7.49e-03	7.99e-03
## 622	-1.93e-02	1.93e-03	1.53e-02	1.20e-02	-1.30e-02	1.34e-02	-9.10e-03
## 623	-5.30e-04	-9.22e-04	-1.09e-04	3.45e-04	2.58e-04	7.19e-04	1.04e-05
## 624	2.68e-03	3.11e-02	7.46e-03	9.43e-03	8.66e-03	9.78e-03	1.36e-02
## 625	-2.34e-02	-1.17e-02	1.56e-02	1.02e-02	2.12e-02	-3.26e-02	-1.03e-02
## 626	1.47e-02	-7.39e-03	-2.23e-02	1.05e-02	-2.56e-02	7.34e-03	1.59e-02
## 627	4.76e-04	1.84e-03	-4.78e-03	9.95e-03	-4.07e-03	9.92e-03	-2.33e-03
## 628	-5.14e-05	-3.58e-04	-5.85e-04	6.00e-03	-2.38e-06	-2.31e-03	5.91e-04
## 629	-7.68e-03	-2.07e-03	2.19e-02	-1.73e-02	-2.58e-02	-9.61e-03	-3.34e-02
## 630	-1.15e-02	2.36e-02	2.18e-02	-1.35e-02	2.05e-02	3.95e-02	9.80e-03
## 631	6.19e-03	7.77e-03	4.79e-03	-6.82e-03	3.01e-03	3.78e-03	4.99e-04
## 632	-5.45e-03	-5.46e-03	3.32e-03	2.84e-03	2.17e-03	2.01e-03	4.43e-03
## 633	-5.62e-04	-3.39e-03	-8.46e-04	-4.67e-04	-3.64e-04	6.21e-05	-8.43e-04
## 634	-4.87e-04	-4.13e-03	7.33e-03	-1.01e-02	1.00e-02	-8.17e-03	-7.54e-03
## 635	-4.35e-03	2.24e-03	1.33e-02	-2.66e-02	1.88e-02	-2.60e-02	6.08e-03
## 636	-1.42e-02	-4.88e-03	1.14e-02	1.25e-02	-5.06e-03	-8.44e-03	-7.79e-04
## 637	-5.69e-03	-5.16e-03	3.94e-03	2.26e-03	5.34e-03	3.59e-03	-5.25e-03
## 638	-6.60e-03	9.18e-03	-3.75e-02	3.73e-02	1.71e-02	-2.90e-02	9.24e-03
## 639	-1.17e-02	5.88e-04	-6.05e-03	-2.76e-03	-8.15e-03	-3.08e-03	-1.75e-02
## 640	-3.39e-03	1.32e-03	-1.91e-04	-3.76e-04	-2.83e-04	-7.37e-05	1.19e-04
## 641	2.78e-02	-6.27e-02	-2.90e-02	-3.08e-02	-2.41e-02	-2.38e-02	5.21e-02
## 642	1.00e-02	2.96e-03	-3.44e-03	-2.33e-04	-7.92e-03	-4.20e-03	8.95e-03
## 643	-2.03e-02	-1.58e-03	-1.08e-02	1.07e-02	-1.17e-02	1.13e-02	2.17e-02
## 644	1.62e-02	-8.09e-03	-2.10e-03	-4.11e-03	-3.75e-03	-4.85e-03	-3.01e-03
## 645	-8.34e-03	-5.16e-04	-6.38e-03	-2.55e-04	-9.72e-03	-1.53e-03	9.50e-03
## 646	8.33e-03	-4.15e-02	-1.10e-02	-1.43e-02	-6.81e-03	-1.36e-02	-5.89e-03
## 647	5.53e-03	6.93e-03	5.20e-03	5.69e-03	-5.72e-03	-5.98e-03	-6.65e-03
## 648	-1.26e-02	4.49e-03	2.07e-02	-1.73e-03	-6.11e-03	-1.24e-03	-1.32e-02
## 649	-2.26e-02	3.96e-03	1.50e-02	1.10e-02	1.18e-02	5.62e-03	1.45e-02
## 650	1.59e-02	7.26e-04	-9.66e-03	-7.14e-03	-7.45e-03	-6.42e-03	-1.35e-02
## 651	1.30e-02	4.52e-03	-7.85e-03	-5.93e-03	2.64e-02	-6.47e-03	-1.51e-02
## 652	9.58e-05	1.07e-04	-1.44e-06	-5.01e-05	-3.23e-05	-5.86e-05	-1.56e-05
## 653	1.43e-02	-6.48e-03	-1.99e-03	-2.99e-03	-2.78e-03	-3.72e-03	-3.31e-03
## 654	4.03e-03	2.52e-02	7.60e-03	1.26e-02	9.77e-03	1.57e-02	1.44e-02
## 655	-2.15e-02	-1.95e-02	1.11e-02	5.99e-03	2.02e-02	-4.08e-02	-1.55e-02
## 656	-3.57e-03	-2.92e-03	2.48e-03	2.65e-03	1.97e-03	1.67e-03	2.80e-03
## 657	-2.07e-03	2.05e-03	-2.87e-03	-2.88e-03	-2.23e-03	3.53e-03	-2.90e-03
## 658	2.04e-03	2.25e-02	4.81e-03	2.45e-04	1.52e-03	-1.48e-03	3.26e-03
## 659	-1.15e-03	-2.87e-03	-5.56e-04	-9.23e-04	-7.53e-04	-1.45e-03	-1.27e-03
## 660	-5.71e-03	-1.56e-02	-1.48e-02	-1.46e-02	-1.09e-02	-1.33e-02	-1.08e-02
## 661	-5.76e-03	2.46e-02	7.48e-03	1.08e-02	5.22e-03	8.49e-03	3.09e-03
## 662	1.07e-04	-6.64e-03	-1.94e-03	-2.32e-03	-2.03e-03	-2.21e-03	-2.66e-03
## 663	2.15e-04	4.02e-04	-2.07e-04	-2.03e-04	3.05e-04	3.85e-04	2.94e-04
## 664	2.32e-03	1.76e-03	-3.28e-04	-8.97e-04	-5.12e-04	-6.77e-04	3.95e-05
## 665	-1.98e-02	-6.27e-03	1.23e-02	9.22e-03	-3.84e-02	9.78e-03	2.24e-02
## 666	1.61e-02	-8.41e-04	-1.05e-02	-1.03e-02	-9.25e-03	-7.80e-03	-1.46e-02
## 667	-1.66e-03	3.54e-03	8.23e-03	6.83e-03	-1.57e-02	5.46e-03	5.82e-03
## 668	9.97e-03	-4.79e-02	-1.39e-02	-2.08e-02	-1.01e-02	-1.70e-02	-6.20e-03
## 669	2.18e-04	2.20e-05	3.98e-04	-7.11e-04	1.99e-04	3.37e-04	2.64e-04

## 670	-3.48e-04	-4.57e-04	-9.38e-06	-7.98e-05	-9.64e-05	-1.32e-04	-1.05e-04
## 671	-1.25e-03	4.10e-04	-3.41e-05	-1.29e-04	-1.01e-04	-8.39e-05	4.21e-06
## 672	-1.37e-02	-4.40e-04	-6.18e-03	-3.83e-03	-4.31e-03	-2.92e-03	-1.04e-02
## 673	1.53e-02	-8.40e-03	-2.68e-03	-5.15e-03	-3.90e-03	-5.06e-03	-3.94e-03
## 674	7.16e-03	-8.16e-03	3.09e-02	-9.32e-03	-2.23e-02	-1.08e-02	3.01e-02
## 675	8.39e-04	-3.10e-03	9.66e-03	-4.83e-03	-9.31e-04	-3.62e-03	1.11e-04
## 676	2.54e-03	-1.16e-03	-1.59e-04	-2.63e-04	-2.35e-04	-3.98e-04	-5.37e-04
## 677	-5.05e-03	-1.09e-02	-1.06e-02	-9.88e-03	-1.31e-02	-1.23e-02	-1.92e-02
## 678	3.09e-02	-2.42e-02	-4.96e-02	1.54e-03	-3.85e-02	1.08e-02	-1.95e-02
## 679	5.39e-03	2.60e-05	-1.09e-02	1.11e-02	1.07e-02	6.37e-03	1.15e-02
## 680	1.49e-02	1.56e-03	-7.66e-03	-7.55e-03	-1.14e-02	-6.87e-03	-2.25e-02
## 681	4.30e-04	-6.02e-04	-4.95e-04	-5.75e-04	2.06e-04	2.16e-04	2.07e-04
## 682	-2.50e-03	4.51e-03	5.33e-03	-2.02e-02	6.19e-03	-1.85e-02	-2.49e-02
## 683	8.69e-03	-6.98e-03	1.74e-02	1.12e-02	-1.25e-02	-2.33e-02	-4.99e-03
## 684	-1.99e-02	1.06e-03	1.30e-02	1.28e-02	1.15e-02	9.62e-03	1.90e-02
## 685	-3.79e-03	1.61e-02	7.09e-03	1.06e-02	5.06e-03	-2.15e-02	4.03e-03
## 686	4.63e-03	-2.40e-03	-4.17e-04	-1.10e-03	-7.34e-04	-1.04e-03	-9.52e-04
## 687	8.18e-03	-2.83e-02	-1.05e-02	4.02e-02	-5.49e-03	-1.22e-02	5.29e-04
## 688	-1.29e-03	4.06e-03	-6.87e-03	6.97e-03	5.23e-03	5.72e-03	3.92e-03
## 689	5.44e-03	4.26e-03	1.43e-02	1.00e-02	1.37e-02	7.34e-03	1.87e-02
## 690	-4.89e-05	-8.97e-03	-2.63e-03	-4.40e-03	-3.44e-03	-3.43e-03	-3.11e-03
## 691	7.40e-03	2.26e-03	-6.82e-03	-6.25e-03	4.89e-03	-6.22e-03	4.90e-03
## 692	2.89e-04	4.45e-04	1.33e-06	5.84e-07	4.47e-05	5.28e-05	1.03e-04
## 693	-1.42e-02	-3.62e-05	-7.20e-03	-4.45e-03	-5.19e-03	-3.52e-03	-1.10e-02
## 694	-2.36e-03	-4.88e-03	-1.25e-03	-2.63e-03	-1.70e-03	-2.26e-03	-1.90e-03
## 695	-6.02e-04	-8.88e-03	-2.48e-03	-4.06e-03	-3.25e-03	-3.78e-03	-2.95e-03
## 696	-1.17e-03	-2.36e-03	1.04e-03	-2.59e-03	7.14e-04	9.57e-04	9.84e-04
## 697	8.86e-03	-3.76e-02	-1.22e-02	-1.69e-02	4.38e-02	-1.60e-02	-1.06e-02
## 698	-2.03e-02	2.00e-03	-9.78e-03	1.08e-02	1.44e-02	1.00e-02	-1.18e-02
## 699	-3.87e-03	-5.17e-03	-7.00e-03	2.26e-03	4.30e-03	3.08e-03	-4.55e-03
## 700	1.59e-03	4.58e-03	2.39e-03	2.56e-03	-1.93e-03	2.83e-03	-2.50e-03
## 701	1.16e-02	4.36e-03	1.53e-02	9.72e-03	1.46e-02	8.09e-03	-2.12e-02
## 702	1.42e-02	2.82e-03	1.63e-02	8.72e-03	1.63e-02	8.27e-03	2.96e-02
## 703	-2.60e-04	-8.82e-03	-2.38e-03	-4.10e-03	-3.50e-03	-3.37e-03	-3.08e-03
## 704	-3.85e-03	1.89e-02	-1.92e-02	9.54e-03	4.26e-03	8.18e-03	1.75e-03
## 705	2.73e-02	2.26e-02	2.80e-02	3.74e-02	-1.43e-02	-1.55e-02	-1.74e-02
## 706	3.89e-03	-3.74e-03	2.95e-03	2.17e-03	-4.23e-03	2.67e-03	-2.61e-03
## 707	1.32e-02	-1.34e-02	-2.33e-02	9.58e-03	2.27e-02	-2.98e-02	-1.09e-02
## 708	-2.10e-02	-2.12e-03	1.47e-02	1.05e-02	-2.33e-02	8.43e-03	1.80e-02
## 709	1.61e-02	1.43e-02	-1.80e-02	7.22e-03	-1.60e-02	8.84e-03	-1.50e-02
## 710	-7.54e-04	2.80e-02	8.45e-03	1.00e-02	8.84e-03	9.50e-03	1.17e-02
## 711	-1.84e-02	-1.30e-02	1.46e-02	1.29e-02	-2.38e-02	-2.93e-02	2.04e-02
## 712	1.44e-03	-5.03e-04	1.26e-05	-6.71e-05	-1.53e-05	3.22e-05	-7.94e-05
## 713	1.90e-02	-2.14e-02	1.40e-02	-2.72e-02	9.50e-03	-3.12e-02	1.59e-02
## 714	-1.69e-03	5.59e-04	-4.08e-05	-9.75e-05	-1.21e-04	5.56e-05	7.67e-05
## 715	7.22e-03	-4.91e-03	1.56e-02	-2.13e-02	1.27e-02	9.23e-03	-1.69e-02
## 716	2.98e-04	2.40e-05	5.00e-04	-9.35e-04	2.47e-04	4.29e-04	3.30e-04
## 717	1.22e-02	1.71e-03	1.62e-02	8.65e-03	1.62e-02	8.20e-03	2.82e-02
## 718	5.66e-04	3.54e-03	1.04e-02	6.73e-03	-2.07e-02	1.20e-02	-1.65e-02
## 719	1.04e-03	3.80e-03	1.64e-02	9.53e-03	-1.34e-02	4.67e-03	1.34e-02

## 720	-3.21e-04	-3.22e-03	-6.66e-04	-2.21e-05	-1.96e-04	2.20e-04	-4.23e-04
## 721	2.52e-03	1.81e-03	-3.72e-04	-8.67e-04	-5.82e-04	-6.17e-04	-1.04e-04
## 722	-1.19e-02	9.00e-04	-5.72e-03	-3.32e-03	-7.06e-03	-3.23e-03	-1.72e-02
## 723	9.20e-03	-4.25e-02	-1.16e-02	-1.48e-02	-7.25e-03	-1.40e-02	-5.54e-03
## 724	-7.83e-03	-2.77e-03	-1.16e-02	-2.80e-03	-1.45e-02	-3.38e-03	1.10e-02
## 725	-2.22e-03	-9.51e-03	-2.97e-03	-6.20e-03	-3.97e-03	-6.86e-03	-4.18e-03
## 726	7.26e-03	-1.79e-03	-3.42e-04	3.30e-04	3.50e-04	9.74e-04	-1.48e-05
## 727	-2.38e-02	-1.93e-03	1.39e-02	8.46e-03	1.46e-02	9.55e-03	-2.75e-02
## 728	-1.71e-02	2.36e-02	2.60e-02	3.59e-02	3.38e-02	-1.16e-02	-1.82e-02
## 729	-4.57e-04	-6.63e-04	4.18e-04	-7.39e-04	4.05e-04	3.68e-04	-7.15e-04
## 730	-1.40e-02	1.37e-02	-3.11e-02	-2.36e-02	3.12e-02	4.16e-02	-3.25e-02
## 731	-1.93e-04	-6.38e-03	-1.77e-03	-2.21e-03	-1.95e-03	-2.23e-03	-2.53e-03
## 732	-1.97e-02	-3.44e-03	-1.86e-02	1.14e-02	1.00e-02	7.69e-03	1.58e-02
## 733	4.21e-05	1.83e-04	8.23e-04	-2.27e-04	7.02e-04	7.06e-04	6.46e-04
## 734	1.30e-02	-2.92e-03	1.41e-02	1.07e-02	-2.27e-02	9.35e-03	2.83e-02
## 735	-6.20e-04	3.64e-03	9.46e-03	8.44e-03	-1.37e-02	1.00e-02	-1.16e-02
## 736	1.13e-02	-1.39e-02	-1.65e-02	1.25e-02	-1.11e-02	-1.76e-02	-4.71e-03
## 737	6.38e-03	3.27e-03	6.20e-04	1.04e-03	3.98e-04	1.19e-03	-7.70e-03
## 738	8.17e-03	-3.88e-04	-1.72e-02	8.64e-03	1.03e-02	3.83e-03	1.28e-02
## 739	-1.69e-03	-2.10e-03	1.36e-03	1.85e-03	1.08e-03	1.44e-03	1.97e-03
## 740	2.23e-03	1.76e-03	1.95e-03	-1.44e-03	-2.16e-03	-1.41e-03	1.41e-03
## 741	-1.65e-02	-2.13e-02	1.09e-02	-3.72e-02	-3.55e-02	1.16e-02	1.74e-02
## 742	-1.69e-02	1.22e-02	-6.36e-03	3.17e-02	-1.24e-02	-7.80e-03	1.54e-02
## 743	5.30e-04	-1.57e-04	2.54e-05	1.06e-05	-5.33e-06	-1.35e-06	8.31e-06
## 744	-5.92e-03	2.65e-02	7.41e-03	9.50e-03	4.32e-03	8.74e-03	2.79e-03
## 745	-3.03e-04	-8.26e-04	-1.10e-03	7.66e-03	-4.18e-04	-3.92e-03	8.00e-04
## 746	3.65e-05	-8.34e-04	-1.22e-04	-6.48e-04	-5.24e-05	-5.32e-04	5.37e-05
## 747	-2.13e-02	-4.00e-03	1.22e-02	9.76e-03	-3.75e-02	6.61e-03	2.02e-02
## 748	4.15e-04	3.65e-04	3.27e-05	-9.51e-05	-8.92e-05	-1.11e-04	2.81e-05
## 749	-9.50e-03	-1.26e-03	9.07e-03	7.39e-03	-3.40e-03	-5.47e-03	-2.94e-03
## 750	-5.03e-03	8.05e-03	-1.09e-02	-1.16e-02	3.47e-03	7.03e-03	1.36e-03
## 751	3.72e-03	-3.74e-03	1.95e-03	2.23e-03	1.67e-03	-5.71e-03	2.17e-03
## 752	-3.09e-03	6.75e-04	5.23e-03	-1.65e-02	-1.69e-02	-1.57e-02	9.86e-03
## 753	-1.68e-02	-2.32e-02	-3.21e-02	-3.68e-02	1.27e-02	1.13e-02	-3.01e-02
## 754	-1.01e-02	3.41e-03	-5.75e-03	5.68e-04	1.66e-02	-2.56e-03	8.95e-03
## 755	2.47e-03	1.97e-03	-6.35e-05	-3.95e-04	-3.57e-04	-4.45e-04	3.87e-04
## 756	-8.24e-05	-6.32e-03	-1.71e-03	-2.04e-03	-2.05e-03	-2.14e-03	-2.63e-03
## 757	2.01e-02	8.19e-03	2.51e-02	-8.82e-03	-1.28e-02	-9.55e-03	-2.57e-02
## 758	-2.31e-04	9.98e-04	2.22e-04	6.26e-04	-2.71e-03	1.11e-03	-2.58e-03
## 759	9.18e-07	-6.90e-03	-1.93e-03	-2.34e-03	-2.02e-03	-2.24e-03	-2.60e-03
## 760	2.13e-02	-4.03e-04	-1.26e-02	-8.23e-03	-1.81e-02	-1.06e-02	1.27e-02
## 761	1.55e-02	2.44e-04	-8.87e-03	-6.60e-03	-7.54e-03	-5.14e-03	-1.38e-02
## 762	-5.30e-03	-7.44e-03	-9.99e-03	1.92e-03	5.36e-03	3.76e-03	-6.14e-03
## 763	2.39e-03	1.55e-03	-3.08e-04	-7.76e-04	-4.22e-04	-4.31e-04	-1.23e-04
## 764	3.16e-03	1.11e-02	1.18e-02	9.25e-03	1.20e-02	1.13e-02	-2.90e-02
## 765	1.78e-02	-3.98e-03	-2.71e-02	8.59e-03	8.85e-03	5.91e-03	1.59e-02
## 766	-6.59e-04	-2.74e-03	-5.82e-04	-3.61e-04	-1.96e-04	3.70e-05	-8.06e-04
## 767	-1.59e-02	-4.16e-03	1.35e-02	1.08e-02	9.95e-03	-2.03e-02	1.29e-02
## 768	-4.11e-03	8.60e-03	-1.20e-02	-1.01e-02	6.92e-03	9.69e-03	6.36e-03
## 769	-9.20e-04	-7.76e-03	-1.97e-03	-3.64e-03	-2.76e-03	-3.07e-03	-2.90e-03

## 770	-1.18e-02	9.02e-04	-6.07e-03	-9.06e-04	-9.90e-03	-4.32e-03	1.02e-02
## 771	-1.81e-04	2.71e-02	7.43e-03	8.70e-03	8.71e-03	8.88e-03	1.11e-02
## 772	1.39e-02	1.73e-02	-7.05e-03	3.14e-02	2.48e-02	-8.76e-03	-2.21e-02
## 773	2.88e-02	4.59e-04	-1.86e-02	-1.29e-02	1.70e-02	-2.01e-02	5.02e-03
## 774	-1.67e-05	-7.38e-04	-5.31e-04	-2.17e-03	-3.40e-04	5.56e-03	1.07e-04
## 775	4.47e-03	4.09e-03	-2.30e-02	1.18e-02	1.18e-02	1.09e-02	1.58e-02
## 776	-1.47e-02	5.68e-03	2.16e-02	-3.74e-03	-4.60e-03	-3.33e-03	-1.06e-02
## 777	1.76e-03	-6.76e-03	-2.63e-03	-4.72e-03	-3.20e-03	-5.07e-03	1.03e-02
## 778	9.31e-03	-4.68e-02	-1.27e-02	-1.97e-02	-1.00e-02	-1.68e-02	-5.38e-03
## 779	3.17e-03	-4.06e-03	1.76e-03	-4.03e-03	-4.16e-03	1.62e-03	1.84e-03
## 780	-5.22e-03	2.42e-02	7.48e-03	1.14e-02	5.22e-03	8.30e-03	3.79e-03
## 781	-3.86e-03	5.90e-03	-8.77e-03	-9.04e-03	2.68e-03	5.19e-03	8.92e-04
## 782	8.01e-03	-2.87e-02	-1.36e-02	-1.99e-02	-9.96e-03	3.90e-02	-8.74e-03
## 783	5.79e-05	1.90e-04	2.20e-04	2.38e-04	-2.44e-04	2.99e-04	-1.71e-04
## 784	-1.10e-02	1.83e-02	2.15e-02	3.69e-02	1.95e-02	-2.40e-02	1.17e-02
## 785	-2.54e-03	-6.69e-03	-4.50e-03	1.95e-03	-3.78e-03	-5.00e-03	-2.09e-03
## 786	9.56e-03	4.83e-03	5.87e-03	-9.38e-03	3.75e-03	-1.16e-02	1.41e-03
## 787	1.36e-02	1.00e-02	-1.37e-02	-1.30e-02	8.90e-03	1.09e-02	-1.30e-02
## 788	-6.96e-03	-5.58e-03	4.97e-03	3.23e-03	6.67e-03	4.27e-03	-5.54e-03
## 789	1.10e-04	1.39e-04	-4.54e-04	2.43e-04	1.39e-04	1.79e-04	1.74e-04
## 790	1.13e-03	1.37e-03	-1.14e-03	-1.40e-03	-1.41e-03	1.75e-03	1.43e-03
## 791	-8.21e-04	-2.14e-03	-2.38e-04	4.24e-04	2.80e-04	1.45e-03	5.34e-04
## 792	2.69e-04	-3.79e-04	-4.69e-04	3.25e-04	4.35e-04	2.34e-04	6.39e-04
## 793	4.02e-03	8.92e-03	9.34e-03	8.91e-03	1.67e-02	1.31e-02	-2.12e-02
## 794	-3.76e-03	1.07e-02	-2.51e-02	8.80e-03	7.63e-03	-2.44e-02	1.09e-02
## 795	8.76e-03	-2.23e-03	1.36e-02	1.42e-02	1.33e-02	-1.80e-02	1.55e-02
## 796	1.37e-02	-7.58e-03	-1.74e-03	-3.64e-03	-3.20e-03	-4.36e-03	-2.91e-03
## 797	-2.13e-04	-5.60e-03	-1.19e-03	-1.23e-03	-1.57e-03	-1.81e-03	-1.88e-03
## 798	-7.08e-03	-1.12e-02	-3.80e-02	-2.45e-02	1.68e-02	-3.10e-02	5.56e-03
## 799	-6.46e-04	9.47e-03	1.43e-02	1.16e-02	1.20e-02	9.18e-03	1.26e-02
## 800	-1.45e-02	1.01e-02	-6.24e-03	-2.68e-03	-1.11e-02	2.61e-02	1.01e-02
## 801	4.43e-03	-1.27e-03	-1.93e-04	-1.48e-04	-9.33e-05	1.22e-04	2.67e-05
## 802	-2.11e-03	3.38e-03	-2.27e-03	3.23e-03	2.80e-03	-1.86e-03	-3.19e-03
## 803	1.39e-02	7.39e-03	2.35e-02	-3.43e-03	-8.36e-03	-6.11e-03	1.98e-02
## 804	1.42e-03	5.73e-03	3.44e-03	3.42e-03	-1.43e-03	4.00e-03	-1.37e-03
## 805	-3.29e-03	7.61e-03	5.12e-03	7.73e-03	-1.21e-02	-1.14e-02	3.35e-03
## 806	2.30e-04	-1.03e-03	3.21e-03	-1.24e-03	-1.34e-04	-8.55e-04	1.42e-04
## 807	-9.39e-03	3.11e-03	2.08e-02	-9.12e-03	-2.19e-02	-1.09e-02	1.16e-02
## 808	1.41e-02	5.27e-04	-8.33e-03	-5.99e-03	-6.63e-03	-5.57e-03	-1.31e-02
## 809	-8.28e-03	1.59e-03	1.97e-02	-2.44e-02	1.75e-02	-3.24e-02	7.52e-03
## 810	-4.90e-03	1.16e-02	-6.34e-02	2.58e-02	-7.06e-02	1.91e-02	2.73e-03
## 811	2.21e-03	-6.07e-04	-3.84e-05	1.47e-04	1.64e-04	1.67e-04	-6.12e-05
## 812	-2.64e-04	1.21e-03	5.37e-03	-6.07e-03	5.01e-03	6.18e-03	3.27e-03
## 813	-9.75e-04	-7.36e-03	-2.29e-03	-3.66e-03	-2.42e-03	-4.09e-03	-4.05e-03
## 814	1.70e-02	3.53e-03	1.70e-02	8.05e-03	1.51e-02	8.37e-03	-2.65e-02
## 815	1.16e-02	5.52e-03	-5.34e-03	-3.21e-03	1.98e-02	-5.74e-03	-1.96e-02
## 816	-1.02e-02	-4.67e-03	-3.71e-03	7.79e-03	-3.05e-03	-6.07e-03	-4.47e-04
## 817	-1.56e-02	2.28e-02	2.46e-02	-5.43e-03	1.97e-02	3.03e-02	8.92e-03
## 818	-9.95e-06	2.60e-05	1.46e-05	2.40e-05	-5.98e-05	3.24e-05	-5.50e-05
## 819	2.30e-03	-4.12e-03	1.67e-02	1.08e-02	-5.90e-03	-1.45e-02	-1.37e-03

## 820	-8.37e-04	7.89e-04	1.12e-03	-8.81e-04	-6.79e-04	-5.03e-04	-7.42e-04
## 821	6.81e-03	-1.89e-03	-1.29e-02	1.01e-02	-1.09e-02	1.48e-02	-4.40e-03
## 822	-3.38e-03	1.06e-02	5.48e-03	7.53e-03	-2.23e-02	-2.15e-02	-2.41e-02
## 823	1.34e-03	-5.08e-04	2.87e-05	-6.16e-05	-9.58e-06	1.42e-05	-5.68e-05
## 824	1.98e-02	1.27e-02	2.59e-02	-8.26e-03	2.76e-02	-1.03e-02	2.07e-02
## 825	-7.51e-03	1.50e-03	-2.68e-03	1.31e-03	-6.12e-03	-3.65e-04	7.89e-03
## 826	1.38e-02	-6.27e-03	-1.60e-03	-2.23e-03	-2.46e-03	-3.55e-03	-2.49e-03
## 827	5.62e-02	-1.52e-03	1.64e-02	-4.40e-02	2.16e-02	-4.17e-02	1.99e-02
## 828	6.35e-04	-3.10e-03	8.92e-03	8.17e-03	-1.39e-02	-1.71e-02	-1.43e-02
## 829	-1.53e-02	3.14e-02	2.06e-02	3.09e-02	-5.22e-02	3.06e-02	1.37e-02
## 830	9.74e-04	-2.92e-04	-1.42e-05	7.84e-05	6.61e-05	9.17e-05	-5.57e-06
## 831	7.43e-03	-3.58e-03	4.47e-03	3.51e-03	5.47e-03	4.96e-03	-8.55e-03
## 832	1.03e-02	-1.25e-03	-1.73e-02	1.01e-02	1.36e-02	8.17e-03	-1.91e-02
## 833	1.21e-02	2.20e-04	-5.78e-03	-1.34e-03	-6.29e-03	-2.26e-03	1.68e-02
## 834	2.82e-03	-4.62e-03	-6.61e-03	-1.40e-02	1.10e-02	6.02e-03	1.40e-02
## 835	3.94e-03	-2.90e-03	-5.05e-03	2.31e-03	3.03e-03	2.95e-03	-4.95e-03
## 836	8.25e-03	-4.73e-02	-1.22e-02	-1.93e-02	-9.45e-03	-1.64e-02	-5.18e-03
## 837	-4.15e-03	1.57e-03	5.25e-03	-1.04e-02	-8.36e-03	-8.84e-03	-8.67e-03
## 838	4.83e-04	5.07e-04	8.59e-06	-1.29e-04	-1.28e-04	-2.29e-04	4.09e-05
## 839	-4.86e-03	-8.79e-03	-2.97e-02	-1.69e-02	1.56e-02	-2.08e-02	5.57e-03
## 840	-4.15e-05	3.50e-04	8.05e-03	-3.54e-03	-6.75e-04	7.90e-03	1.92e-04
## 841	6.89e-03	2.56e-02	3.49e-03	-6.63e-04	1.35e-03	-9.12e-04	5.55e-03
## 842	2.51e-03	-9.28e-04	9.53e-03	-1.94e-02	6.88e-03	9.55e-03	4.38e-03
## 843	1.00e-02	2.98e-03	-3.45e-03	-2.63e-04	-7.90e-03	-4.19e-03	8.78e-03
## 844	-7.56e-04	-2.39e-03	-2.76e-04	1.35e-04	-1.77e-04	2.40e-05	-3.21e-04
## 845	4.22e-03	-2.22e-03	2.62e-03	2.61e-03	1.96e-03	1.25e-03	2.90e-03
## 846	1.73e-03	-2.16e-03	5.24e-03	-5.30e-03	5.40e-03	-6.35e-03	3.65e-03
## 847	-2.74e-03	-2.88e-03	1.89e-03	2.29e-03	1.33e-03	1.35e-03	2.36e-03
## 848	-5.22e-03	-5.40e-03	3.10e-03	2.56e-03	2.17e-03	1.89e-03	4.28e-03
## 849	-6.45e-05	9.48e-04	3.51e-06	4.84e-04	-4.52e-05	3.01e-04	-2.17e-04
## 850	1.38e-03	1.07e-03	-1.08e-03	-1.05e-03	1.82e-03	-7.12e-04	-1.09e-03
## 851	1.88e-02	-8.30e-03	-3.25e-03	-4.17e-03	-3.41e-03	-4.20e-03	-4.02e-03
## 852	-2.83e-03	5.41e-03	6.04e-03	-1.95e-02	6.29e-03	-1.82e-02	-2.44e-02
## 853	2.47e-03	1.64e-03	-2.98e-04	-6.05e-04	-4.06e-04	-5.14e-04	1.83e-04
## 854	-4.86e-03	-1.22e-02	-4.37e-02	-3.02e-02	1.47e-02	-3.48e-02	6.57e-04
## 855	-3.80e-03	-5.22e-03	2.62e-03	2.50e-03	-8.93e-03	1.88e-03	4.20e-03
## 856	8.14e-03	-3.76e-02	4.02e-02	-1.96e-02	-9.12e-03	-1.73e-02	-3.97e-03
## 857	2.67e-04	-6.47e-04	-3.20e-04	-5.13e-04	1.15e-03	-8.86e-04	1.00e-03
## 858	1.00e-03	1.66e-03	1.46e-03	1.72e-03	9.18e-04	1.14e-03	1.09e-03
## 859	-6.86e-04	-1.90e-03	-3.84e-04	-2.84e-04	-2.19e-04	-1.50e-04	-6.14e-04
## 860	5.70e-04	-8.14e-05	3.97e-03	-1.75e-03	-1.12e-03	4.10e-03	5.07e-03
## 861	2.22e-02	3.37e-03	2.48e-02	-7.73e-03	-9.41e-03	-3.46e-03	-1.40e-02
## 862	1.09e-02	7.35e-03	2.08e-02	-9.14e-04	-8.41e-03	-5.07e-03	1.01e-02
## 863	-1.13e-02	5.29e-04	-8.92e-03	-2.45e-03	-1.27e-02	-5.83e-03	1.07e-02
## 864	1.52e-02	1.70e-02	-1.02e-02	-9.69e-03	2.82e-02	3.32e-02	-1.98e-02
## 865	-1.61e-03	1.93e-03	4.55e-03	5.03e-03	5.43e-03	-4.28e-03	-4.88e-03
## 866	-5.00e-04	-8.47e-03	-2.21e-03	-3.94e-03	-3.38e-03	-3.35e-03	-2.99e-03
## 867	-5.10e-03	-1.96e-02	-3.85e-02	-3.26e-02	-3.99e-02	-2.72e-02	-5.05e-02
## 868	1.39e-02	-3.73e-03	-1.02e-03	-4.28e-04	-1.19e-04	1.85e-03	6.46e-04
## 869	6.38e-05	-2.26e-04	7.72e-04	-2.57e-04	-1.41e-04	-2.40e-04	-2.09e-04

## 870	-1.38e-02	-6.72e-04	-5.51e-03	8.50e-03	-4.95e-03	1.03e-02	-1.41e-03
## 871	2.79e-03	2.16e-03	-3.47e-04	-8.19e-04	-3.99e-04	-6.76e-04	8.47e-05
## 872	9.90e-03	-8.82e-03	3.00e-02	-1.69e-02	-2.76e-02	-1.88e-02	2.92e-02
## 873	4.32e-03	4.43e-03	1.37e-02	1.25e-02	-4.66e-03	1.61e-02	-2.81e-04
## 874	4.62e-03	1.01e-02	1.09e-02	8.74e-03	1.19e-02	1.18e-02	-3.03e-02
## 875	1.86e-02	3.56e-02	-1.32e-02	3.52e-02	2.29e-02	3.09e-02	1.37e-02
## 876	-3.53e-04	-1.84e-03	2.94e-03	-2.56e-03	-1.75e-03	-2.16e-03	-1.93e-03
## 877	-2.10e-03	-1.75e-03	-2.40e-03	1.36e-03	2.25e-03	1.89e-03	-1.18e-03
## 878	1.41e-02	1.71e-02	-1.55e-02	7.03e-03	3.42e-03	5.33e-03	1.28e-03
## 879	1.41e-02	4.12e-02	3.01e-02	3.65e-02	2.41e-02	2.96e-02	1.38e-02
## 880	-1.41e-03	-2.83e-03	-7.31e-04	-1.01e-03	-5.35e-04	-1.10e-03	-1.42e-03
## 881	1.51e-02	5.72e-03	-7.78e-03	-7.09e-03	2.38e-02	-8.71e-03	-2.41e-02
## 882	8.04e-04	-3.96e-03	9.06e-03	-4.40e-03	-1.34e-03	-4.05e-03	-1.24e-04
## 883	-5.33e-04	-1.25e-03	3.96e-03	-3.27e-03	3.27e-03	-4.22e-03	2.57e-03
## 884	2.30e-05	-8.82e-03	-2.64e-03	-4.38e-03	-3.44e-03	-3.41e-03	-3.16e-03
## 885	-2.51e-02	-7.62e-03	1.24e-02	3.04e-03	-3.99e-02	6.81e-03	-3.09e-02
## 886	1.41e-02	-2.09e-02	-2.52e-02	-3.58e-02	-2.04e-02	1.63e-02	-1.28e-02
## 887	-2.14e-02	4.75e-03	1.53e-02	1.32e-02	2.04e-02	1.49e-02	-4.59e-03
## 888	-9.61e-03	2.36e-02	1.54e-02	3.72e-02	2.96e-02	-2.90e-02	2.83e-02
## 889	9.17e-03	-1.35e-02	1.07e-02	-1.27e-02	-1.34e-02	-1.63e-02	1.09e-02
## 890	-1.06e-02	9.46e-03	2.23e-02	-1.47e-02	2.28e-02	-1.73e-02	1.09e-02
## 891	1.21e-02	-5.16e-04	1.74e-02	8.55e-03	-3.03e-02	4.94e-03	1.95e-02
## 892	-6.73e-03	-1.72e-02	-1.63e-02	-1.94e-02	-1.43e-02	-1.64e-02	-1.10e-02
## 893	1.64e-03	7.09e-04	1.20e-02	1.04e-02	9.76e-03	-1.08e-02	1.09e-02
## 894	1.37e-02	-1.62e-02	-2.18e-02	-3.03e-02	1.26e-02	9.37e-03	2.05e-02
## 895	9.68e-06	-1.28e-04	-1.64e-05	-8.02e-05	3.82e-06	-4.77e-05	1.70e-05
## 896	2.74e-03	2.09e-03	-5.77e-03	1.19e-02	-3.21e-03	1.48e-02	-1.59e-04
## 897	1.68e-02	2.85e-02	-1.03e-02	3.53e-02	-1.68e-02	3.08e-02	1.60e-02
## 898	5.05e-03	-7.64e-03	-9.63e-03	-1.65e-02	1.20e-02	8.17e-03	1.57e-02
## 899	3.77e-05	-6.32e-03	-1.77e-03	-2.08e-03	-2.10e-03	-2.15e-03	-2.70e-03
## 900	-1.44e-02	5.45e-03	-4.99e-03	-2.07e-03	1.83e-02	-5.99e-03	1.02e-02
## 901	1.98e-02	1.43e-02	-1.20e-02	3.54e-02	-1.87e-02	-1.34e-02	1.71e-02
## 902	-1.23e-02	-5.34e-03	-4.10e-03	-8.12e-03	-3.64e-03	1.05e-02	-1.82e-03
## 903	4.82e-03	-5.01e-03	2.60e-03	2.39e-03	1.86e-03	-7.84e-03	2.89e-03
## 904	-8.60e-03	3.72e-03	-2.88e-03	1.40e-03	1.31e-02	-1.43e-03	6.77e-03
## 905	-7.24e-03	2.98e-02	7.53e-03	7.95e-03	7.89e-03	1.09e-02	-3.22e-02
## 906	-4.75e-03	8.64e-03	-1.30e-02	8.57e-03	7.66e-03	-1.10e-02	8.66e-03
## 907	-2.65e-04	-5.03e-03	-9.37e-04	-1.16e-03	-1.66e-03	-1.61e-03	-1.76e-03
## 908	2.00e-04	-6.93e-04	-5.24e-04	5.73e-03	-1.72e-04	-1.69e-03	9.50e-04
## 909	1.67e-02	4.50e-03	2.48e-02	-4.95e-03	-6.36e-03	-2.92e-03	-1.12e-02
## 910	2.03e-02	-5.75e-03	-3.40e-02	5.81e-03	1.38e-02	4.46e-03	-3.38e-02
## 911	4.26e-05	-7.42e-04	8.31e-03	-4.19e-03	-1.36e-03	6.76e-03	-2.78e-04
## 912	-5.93e-04	-2.87e-03	-6.41e-04	-3.74e-04	-2.31e-04	7.04e-05	-8.28e-04
## 913	-1.78e-03	7.70e-04	-1.18e-04	8.62e-06	-2.72e-05	6.65e-05	3.18e-05
## 914	-1.16e-02	-8.70e-04	-4.74e-03	-1.48e-03	-3.69e-03	4.59e-04	-7.94e-03
## 915	-2.17e-02	-9.67e-03	1.48e-02	-3.05e-02	9.81e-03	6.97e-03	1.22e-02
## 916	7.52e-04	1.31e-03	1.13e-03	1.40e-03	6.79e-04	8.04e-04	9.31e-04
## 917	1.49e-02	-1.47e-03	1.64e-02	1.06e-02	-3.01e-02	8.58e-03	2.07e-02
## 918	-1.81e-02	-1.88e-02	-2.23e-02	1.16e-02	-1.61e-02	-2.16e-02	-5.32e-03
## 919	2.03e-04	-1.02e-04	-1.29e-05	-2.56e-05	-1.62e-05	-5.04e-05	-4.81e-05

## 920	-5.98e-04	-5.68e-03	-1.44e-03	-1.94e-03	-1.74e-03	-2.16e-03	-2.27e-03
## 921	1.84e-02	2.42e-03	1.47e-02	9.23e-03	1.11e-02	5.38e-03	1.94e-02
## 922	3.45e-03	5.22e-03	-3.85e-03	-4.93e-03	4.84e-03	5.01e-03	-4.95e-03
## 923	-1.85e-02	-1.29e-02	-1.87e-02	-2.41e-02	1.01e-02	7.91e-03	1.08e-02
## 924	-1.69e-03	-2.10e-04	-3.62e-03	-3.17e-03	-3.75e-03	-3.59e-03	2.65e-03
## 925	-1.29e-02	3.64e-03	2.00e-02	-1.95e-03	-3.25e-03	-4.04e-04	-7.82e-03
## 926	1.83e-02	1.16e-02	2.57e-02	-9.02e-03	3.04e-02	-9.01e-03	-1.81e-02
## 927	3.95e-04	5.65e-05	-1.06e-03	6.14e-03	7.74e-03	-2.65e-03	2.46e-04
## 928	-1.94e-02	1.33e-03	1.44e-02	1.47e-02	-1.32e-02	1.48e-02	2.72e-02
## 929	-1.79e-02	-4.64e-03	-2.13e-02	1.16e-02	1.02e-02	8.65e-03	1.32e-02
## 930	-9.41e-03	-2.64e-03	-6.21e-03	1.04e-02	9.28e-03	-6.54e-03	9.74e-03
## 931	2.91e-03	1.97e-03	-3.95e-05	-4.24e-04	-3.95e-04	-1.47e-04	3.71e-04
## 932	-9.39e-03	1.46e-04	-3.62e-03	-3.39e-04	-4.79e-03	-4.98e-04	-1.18e-02
## 933	3.04e-03	-3.62e-03	7.77e-03	-1.07e-02	7.42e-03	-1.08e-02	5.75e-03
## 934	2.73e-02	6.69e-04	1.08e-02	-2.41e-04	1.29e-02	-9.47e-06	-4.06e-02
## 935	-1.82e-02	1.06e-02	-8.81e-03	3.07e-02	-5.76e-03	-6.15e-03	-1.06e-02
## 936	1.34e-03	-3.05e-03	-2.68e-03	7.59e-03	-2.32e-03	-6.04e-03	-4.72e-04
## 937	-7.39e-04	-5.18e-03	-1.19e-03	-1.64e-03	-1.71e-03	-2.05e-03	-2.21e-03
## 938	-5.30e-04	-1.34e-03	-6.35e-05	5.37e-05	-9.28e-05	6.01e-05	-2.69e-04
## 939	2.63e-03	4.28e-03	-1.51e-02	1.08e-02	6.81e-03	8.39e-03	5.62e-03
## 940	-2.40e-02	5.69e-04	1.49e-02	9.19e-03	1.58e-02	9.72e-03	2.79e-02
## 941	1.78e-03	2.41e-03	2.18e-03	2.17e-03	9.39e-04	1.51e-03	1.95e-03
## 942	3.98e-03	-7.22e-03	-7.65e-03	-1.53e-02	1.37e-02	9.35e-03	-6.98e-03
## 943	-1.69e-02	-3.76e-04	-8.38e-03	-7.42e-03	-7.41e-03	-5.04e-03	-1.18e-02
## 944	-5.00e-04	-7.74e-03	-1.82e-03	-3.12e-03	-2.82e-03	-3.15e-03	-2.11e-03
## 945	1.25e-02	7.73e-05	1.99e-02	8.89e-03	-2.89e-02	6.65e-03	-2.12e-02
## 946	-9.55e-03	1.62e-03	-1.26e-02	-2.83e-03	1.88e-02	-5.61e-03	9.89e-03
## 947	5.58e-04	6.46e-04	-3.31e-05	-2.75e-04	-2.18e-04	-3.44e-04	-4.01e-05
## 948	9.69e-03	-4.51e-02	-1.10e-02	-1.50e-02	-7.99e-03	-1.05e-02	-3.11e-03
## 949	-1.83e-02	-5.92e-03	-2.69e-02	1.19e-02	1.01e-02	9.00e-03	1.53e-02
## 950	-2.42e-03	3.85e-03	4.32e-03	-6.57e-03	3.27e-03	-8.14e-03	1.21e-03
## 951	-1.76e-03	2.10e-03	4.04e-03	-7.28e-03	-9.91e-03	-8.25e-03	1.72e-03
## 952	1.86e-02	-1.51e-04	1.52e-02	4.46e-03	2.11e-02	9.84e-03	-1.69e-02
## 953	1.01e-02	-4.71e-02	-1.23e-02	-1.99e-02	-1.08e-02	-1.59e-02	-4.95e-03
## 954	-3.73e-03	1.37e-03	-4.21e-04	-6.24e-04	-3.80e-04	-1.60e-04	8.27e-05
## 955	-3.13e-03	9.45e-03	5.53e-03	-1.57e-02	-1.91e-02	9.61e-03	2.57e-03
## 956	1.12e-02	-1.01e-03	-1.05e-02	-9.93e-03	-1.02e-02	-9.97e-03	5.43e-03
## 957	-2.23e-02	-3.32e-03	-1.74e-02	1.10e-02	1.41e-02	9.72e-03	-1.79e-02
## 958	2.48e-03	3.81e-04	8.78e-03	-2.02e-02	7.97e-03	7.36e-03	2.86e-03
## 959	-1.19e-03	-4.44e-03	-9.85e-04	-1.46e-03	-9.88e-04	-4.58e-04	-9.03e-04
## 960	-6.81e-03	1.55e-02	6.47e-03	-2.30e-02	7.69e-03	8.26e-03	-2.92e-02
## 961	-2.30e-04	-2.36e-04	-2.59e-04	1.79e-04	1.87e-04	1.79e-04	-2.63e-04
## 962	8.33e-03	-4.15e-02	-1.10e-02	-1.43e-02	-6.81e-03	-1.36e-02	-5.89e-03
## 963	1.58e-02	2.54e-02	-8.36e-03	3.34e-02	-1.62e-02	3.14e-02	1.62e-02
## 964	1.09e-03	2.97e-02	8.57e-03	1.06e-02	9.31e-03	1.07e-02	1.31e-02
## 965	-3.05e-05	-5.85e-03	-1.24e-03	-1.49e-03	-1.75e-03	-1.72e-03	-1.82e-03
## 966	8.80e-03	-5.57e-03	3.59e-03	2.47e-03	4.18e-03	2.09e-03	9.05e-03
## 967	-8.99e-03	1.94e-03	-2.42e-03	4.08e-04	-5.55e-03	-2.25e-03	6.97e-03
## 968	1.16e-02	2.57e-03	-4.64e-03	-2.83e-03	-1.03e-02	-5.89e-03	1.00e-02
## 969	5.44e-03	-7.90e-03	-9.60e-03	-1.72e-02	1.12e-02	7.96e-03	-1.46e-02

## 970	2.82e-03	-3.51e-03	2.35e-03	-4.60e-03	2.11e-03	1.63e-03	3.51e-03
## 971	5.65e-03	-1.06e-02	3.23e-02	-1.51e-02	-1.32e-02	-6.73e-03	-9.35e-03
## 972	-3.19e-04	4.19e-04	-2.04e-04	4.30e-04	4.40e-04	-1.68e-04	-1.85e-04
## 973	-7.13e-03	2.05e-02	-6.46e-02	2.62e-02	4.74e-03	1.66e-02	-2.23e-03
## 974	1.41e-02	5.91e-04	-8.34e-03	-6.00e-03	-6.66e-03	-5.57e-03	-1.31e-02
## 975	1.98e-02	3.03e-03	1.40e-02	1.19e-02	1.13e-02	7.53e-03	1.75e-02
## 976	-3.66e-03	-2.86e-03	1.72e-02	-2.13e-02	1.57e-02	-2.45e-02	7.04e-03
## 977	-1.57e-03	1.97e-03	2.25e-03	-2.02e-03	1.77e-03	-2.48e-03	1.09e-03
## 978	-1.31e-03	-6.33e-03	-1.40e-03	-2.84e-03	-2.38e-03	-2.71e-03	-2.67e-03
## 979	4.51e-04	4.44e-04	-2.45e-05	-2.20e-04	-1.38e-04	-2.35e-04	-5.49e-05
## 980	-3.65e-03	7.86e-03	4.40e-03	-5.76e-03	3.07e-03	5.52e-03	1.50e-03
## 981	-1.10e-02	1.71e-03	-3.58e-03	-1.15e-03	-5.54e-03	-2.46e-03	-1.39e-02
## 982	-4.19e-03	1.49e-03	-2.84e-04	-5.40e-04	-2.53e-04	-3.60e-05	2.90e-04
## 983	-1.05e-02	1.45e-03	2.21e-02	-9.62e-03	-1.16e-02	-3.34e-03	-1.53e-02
## 984	-5.30e-03	2.08e-02	6.47e-03	9.27e-03	4.65e-03	7.43e-03	1.77e-03
## 985	-7.08e-05	-6.24e-03	-1.74e-03	-2.09e-03	-1.67e-03	-1.85e-03	-2.69e-03
## 986	-6.66e-04	-3.06e-03	-5.26e-04	-8.40e-04	-1.07e-03	-1.32e-03	-1.21e-03
## 987	-2.53e-04	-4.87e-04	-4.59e-05	-7.85e-06	-3.92e-05	-6.08e-05	-1.16e-04
## 988	-4.54e-03	-2.67e-04	4.12e-03	-1.69e-03	-1.83e-03	4.34e-03	3.95e-03
## 989	-1.02e-03	3.21e-04	-5.72e-06	-5.69e-05	-4.58e-05	-5.98e-05	8.46e-05
## 990	4.45e-03	-1.20e-03	-1.42e-04	3.84e-04	2.68e-04	5.78e-04	2.55e-05
## 991	7.65e-03	-2.05e-03	-4.04e-04	5.79e-04	4.53e-04	1.13e-03	1.46e-04
## 992	-4.39e-04	-1.14e-03	-2.09e-04	2.65e-04	3.17e-04	7.95e-04	-4.83e-05
## 993	-1.91e-02	1.78e-02	2.61e-02	-2.46e-02	-2.09e-02	4.47e-02	-2.44e-02
## 994	3.04e-02	-4.76e-03	-2.25e-02	-1.61e-02	-1.53e-02	-1.13e-02	-2.17e-02
## 995	-7.60e-03	8.57e-04	-2.23e-03	1.23e-03	-4.80e-03	-5.48e-04	7.18e-03
## 996	3.33e-03	2.18e-03	-2.63e-04	-6.19e-04	-6.41e-04	-3.32e-04	2.56e-04
## 997	-4.22e-03	1.55e-02	4.91e-03	8.82e-03	1.20e-02	-2.40e-02	-2.09e-02
## 998	1.19e-02	6.21e-03	-5.03e-03	-1.30e-03	1.70e-02	-6.19e-03	7.72e-03
## 999	-1.02e-02	-4.00e-03	-1.26e-02	-6.08e-03	-8.71e-03	-1.11e-03	-1.36e-02
## 1000	-2.06e-02	7.54e-04	1.35e-02	1.08e-02	1.01e-02	7.75e-03	2.03e-02
## 1001	-1.28e-04	-1.34e-04	4.16e-07	5.40e-05	3.69e-05	8.49e-05	-1.54e-06
## 1002	-8.82e-04	-4.73e-03	-1.13e-03	-1.65e-03	-1.53e-03	-2.04e-03	-2.01e-03
## 1003	2.32e-03	1.03e-02	2.12e-02	1.21e-02	2.40e-02	1.29e-02	-6.52e-03
## 1004	-1.56e-02	1.01e-02	-1.15e-02	-8.16e-03	-1.31e-02	3.21e-02	-2.49e-02
## 1005	1.60e-02	-9.37e-04	-1.03e-02	-1.02e-02	-9.11e-03	-7.72e-03	-1.43e-02
## 1006	-1.38e-02	1.19e-02	-1.78e-02	3.63e-02	-2.06e-02	-1.27e-02	1.48e-02
## 1007	-2.72e-03	-4.94e-03	-1.28e-03	-2.60e-03	-1.22e-03	-2.47e-03	-1.72e-03
## 1008	-3.94e-03	1.53e-02	6.60e-03	-2.06e-02	3.80e-03	9.65e-03	1.44e-03
## 1009	9.74e-04	8.39e-04	1.61e-03	1.49e-03	-4.19e-03	1.38e-03	1.59e-03
## 1010	-2.19e-02	-2.05e-02	1.12e-02	6.00e-03	2.06e-02	-4.07e-02	-1.55e-02
## 1011	-3.89e-03	1.93e-02	-1.99e-02	1.01e-02	4.31e-03	8.69e-03	1.65e-03
## 1012	1.31e-02	-4.33e-02	-1.38e-02	-2.07e-02	4.13e-02	-2.00e-02	-2.40e-02
## 1013	1.52e-02	-5.69e-02	-1.63e-02	-2.76e-02	-2.35e-02	-2.91e-02	-2.65e-02
## 1014	-3.03e-03	-2.71e-03	2.38e-03	2.16e-03	2.46e-03	2.02e-03	-5.01e-03
## 1015	2.36e-03	-1.27e-03	-1.02e-04	-5.29e-04	-4.15e-04	-6.39e-04	-5.42e-04
## 1016	5.47e-03	-1.86e-03	9.28e-03	1.02e-02	1.26e-02	-2.65e-02	1.74e-02
## 1017	-1.40e-03	-6.35e-03	-1.44e-03	-3.03e-03	-2.74e-03	-3.14e-03	-2.57e-03
## 1018	-3.25e-03	5.70e-03	3.96e-03	-4.43e-03	2.48e-03	3.56e-03	9.86e-04
## 1019	-1.79e-03	2.98e-03	2.71e-03	-2.94e-03	2.61e-03	-3.64e-03	1.31e-03

##	1020	-2.48e-02	-1.02e-02	-4.03e-02	2.88e-03	1.25e-02	5.15e-03	-3.61e-02
##	1021	-2.74e-02	7.34e-04	1.85e-02	1.05e-02	-1.89e-02	7.90e-03	2.82e-02
##	1022	-2.18e-02	3.94e-03	1.61e-02	1.12e-02	1.10e-02	7.72e-03	1.61e-02
##	1023	-6.34e-03	-3.72e-03	-1.34e-03	-2.86e-03	-5.95e-04	-2.07e-03	-1.95e-04
##	1024	-8.44e-03	3.71e-03	-2.63e-03	1.47e-03	1.28e-02	-1.31e-03	6.59e-03
##	1025	4.68e-03	-3.22e-03	1.22e-02	-1.06e-02	-7.82e-03	1.15e-02	-8.41e-03
##	1026	-1.34e-02	-2.30e-03	-1.39e-02	-7.14e-03	-1.25e-02	-6.20e-03	2.08e-02
##	1027	1.39e-02	2.25e-02	-9.29e-03	3.17e-02	-1.01e-02	3.29e-02	2.33e-02
##	1028	-1.82e-02	3.75e-03	1.44e-02	1.08e-02	9.49e-03	6.43e-03	1.23e-02
##	1029	1.43e-02	1.24e-02	5.89e-03	7.33e-03	8.86e-03	-1.62e-02	-1.37e-02
##	1030	1.14e-02	4.51e-03	-4.12e-03	5.45e-04	1.69e-02	-3.18e-03	9.15e-03
##	1031	-1.84e-03	6.35e-04	2.30e-05	-9.08e-05	-1.02e-04	-7.45e-06	2.06e-04
##	1032	7.41e-03	-6.04e-03	-9.03e-03	2.34e-03	1.46e-03	1.48e-03	3.49e-03
##	1033	-1.49e-03	4.49e-04	-4.38e-05	-8.35e-05	-8.41e-05	-5.09e-05	7.00e-05
##	1034	-1.19e-05	6.75e-05	1.19e-05	4.10e-05	3.91e-06	2.58e-05	-8.08e-06
##	1035	3.82e-03	4.14e-03	8.73e-03	8.21e-03	-2.04e-02	1.30e-02	-1.75e-02
##	1036	-2.00e-02	6.32e-03	1.51e-02	1.19e-02	1.52e-02	1.12e-02	2.09e-02
##	1037	3.47e-02	2.08e-02	2.67e-02	3.82e-02	-1.91e-02	-1.69e-02	-2.16e-02
##	1038	1.68e-02	8.02e-04	-7.76e-03	-3.02e-03	-1.32e-02	-4.84e-03	1.19e-02
##	1039	-8.02e-04	-3.15e-03	-4.03e-04	-5.92e-04	-6.69e-04	-4.80e-05	-6.65e-04
##	1040	-1.94e-02	2.76e-03	1.44e-02	1.39e-02	1.15e-02	8.68e-03	1.70e-02
##	1041	3.20e-02	-4.12e-03	-2.39e-02	-1.79e-02	-1.68e-02	-1.16e-02	-2.39e-02
##	1042	-1.82e-03	4.30e-03	3.85e-03	-5.59e-03	3.99e-03	-5.95e-03	1.68e-03
##	1043	8.10e-03	-1.34e-03	1.77e-02	9.23e-03	-1.67e-02	1.10e-02	-7.09e-03
##	1044	6.56e-04	4.31e-04	6.20e-04	-5.11e-04	-5.79e-04	-5.17e-04	-8.75e-04
##	1045	-3.86e-03	1.60e-02	7.02e-03	1.03e-02	5.16e-03	-2.16e-02	4.33e-03
##	1046	-1.36e-03	-3.39e-03	-6.88e-04	-1.17e-03	-8.65e-04	-6.43e-04	-8.47e-04
##	1047	-3.30e-04	2.70e-02	7.54e-03	8.79e-03	8.83e-03	8.95e-03	1.14e-02
##	1048	-5.71e-03	6.94e-03	-1.17e-02	-1.04e-02	3.06e-02	3.90e-02	-2.35e-02
##	1049	9.97e-04	9.20e-03	1.10e-02	1.03e-02	1.19e-02	9.79e-03	1.72e-02
##	1050	1.20e-02	1.27e-02	8.52e-03	9.15e-03	-9.97e-03	-1.12e-02	-8.48e-03
##	1051	-6.62e-03	-6.78e-03	-1.18e-02	-1.42e-02	3.02e-02	-1.66e-02	-2.40e-02
##	1052	-7.78e-03	-1.90e-03	-1.74e-02	-7.62e-03	-2.07e-02	-9.19e-03	1.06e-02
##	1053	-7.78e-04	-1.50e-03	-2.38e-04	-1.70e-04	-2.63e-04	-2.32e-04	-4.95e-04
##	1054	1.38e-02	1.37e-03	-6.94e-03	-4.27e-03	-8.78e-03	-5.65e-03	-1.92e-02
##	1055	1.59e-02	1.21e-02	-1.05e-02	3.20e-02	-1.03e-02	-9.59e-03	2.33e-02
##	1056	1.24e-02	3.73e-03	-4.83e-03	-1.52e-03	-9.79e-03	-4.99e-03	9.69e-03
##	1057	-1.57e-02	1.04e-02	-1.37e-02	-8.17e-03	-1.39e-02	3.38e-02	2.06e-02
##	1058	-1.08e-03	-2.63e-03	-3.54e-04	-5.64e-04	-4.52e-04	-3.85e-04	-4.93e-04
##	1059	-5.56e-04	-1.04e-03	-1.06e-03	-4.85e-03	-8.22e-04	9.52e-03	4.08e-05
##	1060	-3.85e-03	7.31e-03	4.60e-03	6.15e-03	3.59e-03	-8.24e-03	1.82e-03
##	1061	-2.02e-03	3.75e-03	4.14e-03	-1.20e-02	5.09e-03	-1.18e-02	-1.72e-02
##	1062	-2.29e-03	5.05e-03	4.52e-03	-5.45e-03	4.34e-03	-6.16e-03	2.37e-03
##	1063	-1.57e-02	1.17e-02	-1.51e-02	3.48e-02	-1.35e-02	-1.05e-02	2.63e-02
##	1064	4.51e-04	3.77e-04	8.31e-06	-1.25e-04	-1.19e-04	-1.44e-04	9.43e-06
##	1065	-1.64e-02	-1.87e-02	1.24e-02	-2.31e-02	1.39e-02	-2.44e-02	2.11e-02
##	1066	-8.66e-03	2.32e-03	2.18e-02	-1.23e-02	-2.72e-02	-1.37e-02	1.45e-02
##	1067	-3.01e-03	5.88e-03	4.65e-03	-6.80e-03	4.37e-03	-8.04e-03	1.73e-03
##	1068	1.71e-02	1.44e-04	-1.08e-02	-1.06e-02	-9.80e-03	-8.21e-03	-1.44e-02
##	1069	8.05e-03	-3.54e-02	3.86e-02	-1.55e-02	-6.05e-03	-1.50e-02	-3.00e-03

## 1070	5.40e-04	-1.40e-04	7.81e-03	1.09e-02	-5.68e-03	-6.83e-03	-4.97e-03
## 1071	-1.26e-02	6.13e-03	-3.18e-03	9.10e-04	1.71e-02	-3.98e-03	9.03e-03
## 1072	-4.31e-05	-7.00e-03	-1.93e-03	-2.35e-03	-2.02e-03	-2.25e-03	-2.57e-03
## 1073	2.54e-03	-5.11e-03	-5.23e-03	1.00e-02	1.14e-02	-1.39e-02	1.57e-02
## 1074	2.51e-03	-1.23e-03	-2.48e-05	-3.70e-04	-3.77e-04	-6.23e-04	-3.66e-04
## 1075	-1.87e-02	4.62e-02	2.58e-02	4.04e-02	2.42e-02	3.59e-02	1.54e-02
## 1076	1.91e-03	6.01e-03	-6.42e-03	1.17e-02	1.17e-02	1.03e-02	1.26e-02
## 1077	-2.08e-02	5.54e-04	1.38e-02	1.14e-02	9.98e-03	8.06e-03	2.00e-02
## 1078	-7.59e-04	-1.15e-03	-1.46e-04	-7.76e-05	7.55e-05	4.10e-04	-7.65e-05
## 1079	7.42e-03	1.06e-03	1.93e-02	6.75e-03	-1.91e-02	7.88e-03	-1.00e-02
## 1080	1.25e-02	2.17e-03	-5.73e-03	-3.23e-03	-8.12e-03	-5.00e-03	-1.82e-02
## 1081	5.40e-04	6.80e-04	5.51e-07	-2.25e-05	7.58e-05	1.55e-04	1.83e-04
## 1082	1.75e-02	2.63e-03	-1.05e-02	-5.83e-03	2.72e-02	-4.34e-03	-1.50e-02
## 1083	1.61e-02	9.88e-04	-7.26e-03	-2.96e-03	-1.26e-02	-4.79e-03	1.23e-02
## 1084	9.01e-03	-1.31e-02	1.24e-02	-1.50e-02	1.02e-02	-1.89e-02	1.06e-02
## 1085	-8.79e-03	3.85e-03	-5.00e-03	5.72e-04	1.49e-02	-1.92e-03	7.91e-03
## 1086	1.90e-02	2.10e-03	1.47e-02	9.23e-03	9.98e-03	6.34e-03	1.81e-02
## 1087	3.58e-03	-5.31e-03	-5.49e-03	-8.80e-03	-4.46e-03	1.03e-02	-3.47e-03
## 1088	-5.98e-03	9.46e-03	6.53e-03	7.90e-03	-9.24e-03	-9.70e-03	-8.43e-03
## 1089	9.08e-03	-6.00e-03	5.55e-03	2.90e-03	7.01e-03	4.37e-03	-6.83e-03
## 1090	-1.85e-04	6.07e-04	-2.60e-03	3.83e-04	2.18e-04	5.86e-04	-3.07e-03
## 1091	6.35e-03	8.50e-03	-6.42e-03	5.58e-03	-6.63e-03	5.86e-03	-8.48e-03
## 1092	-2.28e-02	-3.84e-03	1.14e-02	4.85e-03	1.40e-02	9.44e-03	-3.18e-02
## 1093	-3.50e-03	5.76e-05	4.50e-03	-1.88e-02	-1.55e-02	-1.61e-02	-1.60e-02
## 1094	2.52e-02	-3.84e-03	-1.61e-02	-1.19e-02	-2.29e-02	-1.70e-02	7.11e-03
## 1095	-1.30e-04	3.22e-04	1.30e-04	2.24e-04	-5.73e-04	4.17e-04	-5.25e-04
## 1096	2.37e-02	1.82e-02	7.57e-03	1.10e-02	5.02e-03	-2.57e-02	5.23e-03
## 1097	1.64e-02	-8.30e-03	-2.42e-03	-4.58e-03	-4.06e-03	-4.63e-03	-3.29e-03
## 1098	-9.03e-04	-3.79e-03	-5.88e-04	-8.12e-04	-1.11e-03	-1.58e-03	-1.36e-03
## 1099	7.89e-03	-2.87e-02	3.85e-02	-1.68e-02	4.51e-02	-1.62e-02	-9.95e-03
## 1100	3.41e-03	-3.81e-03	-6.10e-03	1.09e-02	1.56e-02	-1.14e-02	-1.78e-03
## 1101	-1.31e-03	-2.33e-03	-3.73e-04	-8.05e-04	-6.32e-04	-6.28e-04	-6.44e-04
## 1102	-2.50e-02	-9.48e-04	1.29e-02	8.43e-03	1.62e-02	8.99e-03	3.26e-02
## 1103	9.72e-04	3.60e-03	-3.13e-03	8.36e-03	1.13e-02	9.59e-03	-1.37e-03
## 1104	-2.60e-03	9.44e-04	-5.78e-05	-1.81e-04	-1.89e-04	1.73e-05	2.76e-04
## 1105	-2.36e-03	8.00e-04	-8.68e-05	-1.61e-04	-1.17e-04	-7.23e-05	2.16e-04
## 1106	-6.81e-03	1.42e-02	-1.07e-02	7.17e-03	3.84e-03	5.01e-03	2.35e-03
## 1107	1.83e-04	1.02e-04	6.90e-04	6.00e-04	7.48e-04	-1.13e-03	-5.77e-04
## 1108	1.42e-02	3.47e-02	-8.66e-03	3.46e-02	2.76e-02	3.14e-02	-2.60e-02
## 1109	-2.19e-03	-2.46e-03	1.63e-03	1.77e-03	1.22e-03	1.45e-03	2.20e-03
## 1110	-1.33e-02	8.98e-05	-2.02e-02	-1.33e-02	3.17e-02	-8.90e-03	-2.26e-02
## 1111	1.31e-02	-5.55e-03	-2.60e-02	6.10e-03	1.96e-02	9.05e-03	-1.49e-02
## 1112	5.80e-03	8.90e-03	4.58e-03	6.38e-03	4.42e-03	-4.91e-03	3.32e-03
## 1113	8.55e-03	-3.66e-03	-8.43e-04	-1.73e-03	-1.37e-03	-1.50e-03	-1.40e-03
## 1114	3.68e-03	5.30e-03	1.42e-02	1.23e-02	-7.76e-03	1.49e-02	2.30e-02
## 1115	5.90e-03	-9.62e-03	-1.07e-02	-1.96e-02	1.57e-02	1.06e-02	-8.47e-03
## 1116	1.11e-03	1.03e-03	-3.59e-03	1.77e-03	8.99e-04	1.34e-03	1.33e-03
## 1117	-1.95e-02	2.16e-03	1.39e-02	1.21e-02	1.16e-02	8.65e-03	1.51e-02
## 1118	4.50e-03	2.54e-03	3.82e-03	-4.54e-03	-3.56e-03	-3.56e-03	-4.00e-03
## 1119	-5.41e-04	-1.56e-02	-1.46e-02	-1.35e-02	-2.36e-02	-2.21e-02	2.05e-02

##	1120	-3.03e-03	3.80e-03	-6.30e-03	-5.71e-03	-7.54e-03	6.24e-03	2.49e-03
##	1121	-5.31e-03	1.73e-02	-1.83e-02	7.77e-03	3.58e-03	7.32e-03	1.43e-03
##	1122	-8.71e-03	6.85e-03	2.03e-02	-5.91e-03	1.90e-02	-7.91e-03	1.01e-02
##	1123	1.69e-02	4.18e-03	-1.12e-02	-1.06e-02	2.95e-02	-9.44e-03	-1.84e-02
##	1124	-1.91e-03	8.58e-04	-5.02e-03	-3.98e-03	-6.00e-03	-4.23e-03	2.57e-03
##	1125	-1.43e-03	-5.90e-03	-1.40e-03	-2.92e-03	-2.39e-03	-2.95e-03	-2.45e-03
##	1126	6.79e-03	6.05e-03	2.01e-02	8.14e-03	1.64e-02	5.50e-03	-2.22e-02
##	1127	-5.77e-04	-9.09e-04	-7.27e-05	8.14e-05	9.57e-05	3.88e-04	7.06e-05
##	1128	-3.53e-02	-2.65e-02	-1.13e-02	4.15e-02	-1.05e-02	-1.47e-02	4.93e-02
##	1129	-1.21e-02	1.29e-02	-4.89e-03	-5.51e-04	1.65e-02	2.62e-02	8.89e-03
##	1130	2.10e-04	-5.39e-03	-1.29e-03	-1.48e-03	-1.76e-03	-1.65e-03	-1.94e-03
##	1131	-1.46e-02	-1.04e-02	-1.30e-02	-1.57e-02	9.06e-03	8.83e-03	1.07e-02
##	1132	1.19e-05	-1.36e-03	-2.20e-04	-1.15e-03	-5.80e-05	-9.21e-04	7.67e-06
##	1133	2.52e-03	1.73e-03	-3.53e-04	-8.85e-04	-4.56e-04	-5.38e-04	-1.93e-05
##	1134	3.03e-03	1.83e-03	-4.06e-04	-9.02e-04	-4.64e-04	-3.87e-04	-1.03e-04
##	1135	2.22e-02	1.53e-02	6.79e-03	-2.49e-02	6.11e-03	9.14e-03	-2.91e-02
##	1136	-1.56e-03	-3.88e-03	-1.32e-03	-1.43e-03	-6.42e-04	-1.65e-03	-1.69e-03
##	1137	1.26e-02	1.41e-03	-1.12e-02	-8.42e-03	-7.42e-03	-4.91e-03	-7.65e-03
##	1138	-2.40e-04	-7.53e-03	-1.72e-03	-3.14e-03	-3.01e-03	-2.81e-03	-2.24e-03
##	1139	2.01e-02	2.57e-03	1.47e-02	7.27e-03	9.89e-03	1.19e-03	1.92e-02
##	1140	1.69e-02	1.91e-02	-1.79e-02	9.46e-03	5.10e-03	6.55e-03	2.04e-03
##	1141	-5.09e-03	-1.00e-02	-1.01e-02	-9.18e-03	-1.32e-02	-1.20e-02	-1.93e-02
##	1142	-1.84e-02	-7.31e-03	1.38e-02	-2.08e-02	9.80e-03	8.39e-03	1.16e-02
##	1143	7.23e-04	-1.91e-03	5.25e-03	-5.25e-03	5.24e-03	-6.15e-03	3.57e-03
##	1144	3.14e-02	3.49e-02	6.91e-03	6.87e-03	6.83e-03	9.69e-03	-3.82e-02
##	1145	-9.42e-03	1.88e-03	-2.46e-03	4.50e-04	-5.68e-03	-2.31e-03	7.37e-03
##	1146	1.51e-02	6.22e-03	-7.70e-03	-3.40e-03	1.80e-02	-7.33e-03	6.59e-03
##	1147	-1.55e-03	3.69e-03	-1.59e-02	8.14e-03	9.39e-03	7.61e-03	1.23e-02
##	1148	1.06e-04	-6.09e-03	-1.74e-03	-2.01e-03	-1.97e-03	-1.98e-03	-2.76e-03
##	1149	-5.89e-03	2.71e-02	6.84e-03	9.17e-03	7.92e-03	1.01e-02	-2.81e-02
##	1150	-3.68e-03	5.37e-03	4.16e-03	-4.53e-03	-4.70e-03	5.06e-03	-6.12e-03
##	1151	2.15e-03	-7.42e-04	4.44e-06	3.21e-06	1.19e-05	1.01e-04	-1.94e-05
##	1152	-2.42e-03	-4.39e-03	2.04e-03	-5.18e-03	1.97e-03	2.00e-03	3.55e-03
##	1153	7.91e-04	6.39e-04	-1.17e-05	-2.22e-04	-1.16e-04	-2.68e-04	8.72e-05
##	1154	8.57e-04	1.39e-03	-6.45e-03	1.16e-02	-9.27e-03	1.08e-02	-8.53e-03
##	1155	3.10e-03	-5.67e-03	-6.99e-03	-1.31e-02	1.07e-02	7.23e-03	1.36e-02
##	1156	1.21e-02	3.67e-04	-5.44e-03	-1.45e-03	-6.41e-03	-1.72e-03	1.53e-02
##	1157	-2.73e-02	-1.30e-02	1.59e-02	-4.18e-02	2.05e-02	9.96e-03	-1.81e-02
##	1158	-7.40e-03	-6.35e-03	3.08e-02	-1.61e-02	-1.09e-02	-1.50e-02	-1.22e-02
##	1159	2.55e-03	-1.67e-03	-3.12e-03	1.67e-03	1.89e-03	1.73e-03	-2.89e-03
##	1160	-1.43e-02	6.33e-03	2.26e-02	-3.00e-03	-8.04e-03	-4.88e-03	2.06e-02
##	1161	-1.43e-03	-1.66e-03	1.26e-03	1.39e-03	1.38e-03	1.48e-03	-2.90e-03
##	1162	-6.77e-04	-1.86e-03	-3.46e-04	-2.49e-04	-1.84e-04	-1.07e-04	-5.84e-04
##	1163	2.44e-02	1.77e-02	6.53e-03	-2.41e-02	2.94e-03	8.81e-03	1.49e-04
##	1164	1.51e-02	2.56e-02	8.45e-03	1.03e-02	6.66e-03	1.01e-02	5.17e-03
##	1165	-2.25e-04	-3.14e-03	-6.94e-04	-3.97e-05	-2.18e-04	2.25e-04	-4.74e-04
##	1166	-3.36e-03	2.58e-03	-7.64e-03	5.48e-03	-8.65e-03	5.80e-03	-1.06e-02
##	1167	-6.33e-05	3.57e-04	5.29e-05	2.26e-04	2.16e-05	1.52e-04	-5.98e-05
##	1168	5.04e-02	-6.41e-03	1.83e-02	-2.81e-02	-4.40e-02	-3.20e-02	8.37e-03
##	1169	1.22e-02	-3.51e-03	-2.62e-02	6.89e-03	2.08e-02	6.88e-03	-1.53e-02

## 1170	1.23e-04	2.88e-02	8.53e-03	1.41e-02	1.08e-02	1.08e-02	1.07e-02
## 1171	1.97e-02	2.40e-02	-1.95e-02	1.08e-02	5.65e-03	1.12e-02	4.37e-03
## 1172	1.98e-02	-1.25e-02	1.33e-02	-3.60e-02	8.83e-03	8.61e-03	1.39e-02
## 1173	-1.60e-02	2.06e-02	2.35e-02	-1.26e-03	1.89e-02	2.52e-02	9.39e-03
## 1174	5.44e-03	7.51e-03	4.72e-03	-4.94e-03	-3.80e-03	8.16e-03	-4.45e-03
## 1175	1.67e-02	1.81e-02	-9.93e-03	-5.73e-03	1.93e-02	2.81e-02	7.76e-03
## 1176	8.45e-03	-9.96e-03	-1.57e-02	9.27e-03	1.50e-02	-3.10e-02	-1.86e-02
## 1177	-2.44e-03	5.21e-03	2.96e-03	4.21e-03	2.92e-03	-2.68e-03	2.17e-03
## 1178	1.47e-02	-3.57e-02	-1.21e-02	-9.01e-03	3.82e-02	-1.19e-02	4.31e-02
## 1179	-1.79e-03	-2.42e-03	8.01e-03	-1.40e-02	-9.39e-03	7.67e-03	-9.13e-03
## 1180	-1.69e-02	-9.01e-04	1.39e-02	1.12e-02	1.64e-02	-1.21e-02	-2.32e-03
## 1181	-1.71e-02	-1.65e-02	1.23e-02	-3.16e-02	-2.57e-02	1.12e-02	-2.08e-02
## 1182	-2.94e-02	-3.20e-02	-5.27e-03	-6.79e-03	-6.87e-03	-8.82e-03	-1.23e-02
## 1183	1.20e-03	1.26e-03	1.42e-03	-1.09e-03	1.07e-03	-1.46e-03	5.74e-04
## 1184	-1.38e-03	6.04e-03	1.41e-02	1.10e-02	-5.98e-04	1.20e-02	1.01e-03
## 1185	-1.85e-02	-8.11e-03	1.49e-02	1.22e-02	-1.03e-02	-1.62e-02	-2.52e-03
## 1186	-2.00e-02	-9.99e-03	9.22e-03	8.22e-03	-3.18e-02	1.13e-02	3.24e-02
## 1187	9.45e-03	-1.01e-02	-1.59e-02	-2.37e-02	1.87e-02	1.59e-02	-9.21e-03
## 1188	1.14e-03	4.13e-04	-9.07e-04	-6.62e-04	-1.01e-03	-6.30e-04	5.97e-04
## 1189	-1.32e-02	4.86e-03	-5.17e-03	-1.18e-03	2.01e-02	-4.03e-03	1.47e-02
## 1190	-2.38e-03	4.22e-03	2.89e-03	3.91e-03	-1.64e-03	-1.55e-03	-1.73e-03
## 1191	-5.11e-03	1.69e-02	-1.53e-02	9.46e-03	4.45e-03	7.57e-03	1.97e-03
## 1192	-1.04e-02	2.38e-02	-2.35e-02	7.75e-03	7.99e-03	6.57e-03	9.94e-03
## 1193	-2.51e-03	-2.95e-03	2.05e-03	1.80e-03	-5.04e-03	1.50e-03	2.62e-03
## 1194	-1.27e-03	-6.87e-03	-1.81e-03	-3.26e-03	-2.39e-03	-3.24e-03	-2.71e-03
## 1195	-6.00e-04	-6.68e-04	-1.14e-05	9.29e-06	5.05e-05	2.26e-04	-2.84e-05
## 1196	1.62e-02	-8.39e-03	1.26e-02	-2.75e-02	1.01e-02	8.05e-03	1.21e-02
## 1197	9.63e-03	-9.72e-03	-1.57e-02	1.12e-02	1.98e-02	-1.98e-02	-6.36e-03
## 1198	-5.65e-03	1.95e-02	-1.90e-02	8.92e-03	3.72e-03	7.97e-03	2.19e-03
## 1199	4.57e-02	-2.29e-03	2.16e-02	-2.38e-02	-3.98e-02	-2.89e-02	1.05e-02
## 1200	-3.48e-04	9.66e-05	-8.50e-06	-2.46e-05	-1.60e-05	-1.90e-05	1.52e-05
## 1201	9.15e-04	8.24e-03	9.35e-03	1.07e-02	7.77e-03	7.42e-03	6.35e-03
## 1202	-1.43e-02	2.41e-04	-6.02e-03	-3.43e-03	-4.57e-03	-2.88e-03	-1.04e-02
## 1203	-2.15e-02	-2.69e-05	1.33e-02	9.94e-03	9.99e-03	8.59e-03	1.95e-02
## 1204	-5.34e-03	1.51e-02	6.66e-03	8.43e-03	1.05e-02	-2.29e-02	-1.89e-02
## 1205	1.20e-02	1.59e-03	-6.24e-03	-2.98e-03	-7.23e-03	-5.09e-03	1.66e-02
## 1206	2.51e-03	-4.83e-03	-4.46e-03	-7.86e-03	-7.39e-03	8.82e-03	1.02e-02
## 1207	2.22e-02	-2.08e-03	-1.55e-02	-1.19e-02	-1.10e-02	-7.95e-03	-1.90e-02
## 1208	-3.49e-02	-2.70e-02	-1.17e-02	-1.59e-02	-1.31e-02	3.94e-02	-2.03e-02
## 1209	-2.10e-02	3.35e-04	1.32e-02	9.44e-03	1.01e-02	8.20e-03	1.85e-02
## 1210	3.59e-03	2.31e-03	-6.09e-04	-1.20e-03	-6.69e-04	-6.57e-04	2.61e-05
## 1211	-1.21e-02	7.33e-04	-9.28e-03	-4.41e-03	-1.06e-02	-5.11e-03	-2.08e-02
## 1212	1.42e-02	1.45e-03	-7.46e-03	-5.39e-03	-9.16e-03	-5.60e-03	-2.07e-02
## 1213	1.74e-03	1.43e-03	-1.87e-04	-6.27e-04	-4.24e-04	-5.26e-04	-6.88e-05
## 1214	3.01e-03	-1.59e-03	-2.80e-04	-7.71e-04	-5.18e-04	-9.72e-04	-6.76e-04
## 1215	-1.39e-02	5.11e-03	2.29e-02	-6.16e-03	-1.24e-02	-7.44e-03	2.24e-02
## 1216	7.02e-03	1.84e-02	9.21e-03	6.97e-03	8.61e-03	6.30e-03	-1.02e-02
## 1217	1.83e-02	1.37e-02	5.89e-03	-1.95e-02	7.14e-03	8.89e-03	6.57e-03
## 1218	3.56e-03	1.10e-02	1.07e-02	1.02e-02	8.08e-03	9.22e-03	7.92e-03
## 1219	5.61e-03	-5.92e-03	-7.81e-03	2.45e-03	3.76e-03	2.50e-03	6.55e-03

##	1220	-1.35e-02	-5.12e-05	-6.57e-03	-4.06e-03	-4.70e-03	-3.15e-03	-1.07e-02
##	1221	9.33e-03	-4.34e-02	-1.26e-02	-1.69e-02	-7.73e-03	-1.40e-02	-8.01e-03
##	1222	-3.38e-03	2.58e-03	-1.32e-02	-1.17e-02	-2.11e-02	3.51e-02	2.21e-02
##	1223	-3.02e-03	1.11e-03	-1.73e-04	-2.86e-04	-2.90e-04	-5.11e-06	2.84e-04
##	1224	8.53e-03	-9.70e-03	-1.15e-02	-1.34e-02	-1.31e-02	1.14e-02	1.10e-02
##	1225	6.27e-03	-5.25e-03	1.86e-02	-2.48e-02	1.91e-02	1.15e-02	-9.55e-03
##	1226	-2.76e-03	-3.10e-03	-3.84e-03	1.64e-03	1.89e-03	1.65e-03	-4.07e-03
##	1227	6.61e-03	4.45e-04	-1.14e-02	9.71e-03	1.18e-02	6.88e-03	-1.43e-02
##	1228	-4.13e-03	7.72e-03	4.97e-03	-1.32e-02	-1.32e-02	8.35e-03	6.44e-03
##	1229	3.11e-02	-5.03e-03	-2.30e-02	-1.75e-02	-2.18e-02	-1.36e-02	2.65e-02
##	1230	-3.71e-03	1.34e-03	-3.02e-04	-5.28e-04	-2.89e-04	-1.01e-04	1.66e-04
##	1231	-8.06e-03	-5.77e-03	-2.54e-03	-4.88e-03	8.69e-03	-4.23e-03	-1.30e-03
##	1232	2.48e-03	-3.72e-03	-4.88e-03	9.31e-03	-6.43e-03	-1.18e-02	-6.20e-03
##	1233	-1.33e-02	3.52e-04	-6.64e-03	-3.87e-03	-5.06e-03	-3.14e-03	-1.11e-02
##	1234	-5.43e-04	-2.88e-03	-7.17e-04	-4.11e-04	-3.49e-04	-2.54e-06	-8.24e-04
##	1235	-7.83e-03	4.78e-05	-5.33e-03	-9.15e-05	-7.87e-03	-1.72e-03	8.21e-03
##	1236	-5.30e-03	2.08e-02	-2.44e-02	8.04e-03	6.02e-03	9.48e-03	-2.91e-02
##	1237	-1.50e-03	-6.35e-03	-1.45e-03	-3.11e-03	-2.56e-03	-3.14e-03	-2.42e-03
##	1238	1.70e-02	1.54e-02	7.35e-03	-2.05e-02	6.53e-03	8.20e-03	7.64e-03
##	1239	1.52e-03	8.39e-04	7.65e-03	-1.33e-02	6.22e-03	7.18e-03	3.11e-03
##	1240	8.96e-03	-4.65e-02	-1.24e-02	-1.95e-02	-9.90e-03	-1.67e-02	-5.28e-03
##	1241	4.81e-03	3.18e-02	7.30e-03	9.89e-03	9.39e-03	1.14e-02	1.48e-02
##	1242	-3.19e-02	8.83e-04	1.62e-02	4.41e-03	2.26e-02	6.94e-03	-1.71e-02
##	1243	7.13e-03	-1.04e-02	-1.23e-02	-2.16e-02	1.63e-02	1.11e-02	-9.13e-03
##	1244	1.09e-02	-2.95e-03	-1.57e-02	1.28e-02	-1.75e-02	1.14e-02	1.53e-02
##	1245	-1.80e-02	1.04e-02	-1.07e-02	-8.95e-03	-1.30e-02	3.21e-02	2.12e-02
##	1246	8.50e-03	-4.68e-02	-1.23e-02	-1.93e-02	-9.58e-03	-1.64e-02	-5.53e-03
##	1247	1.85e-03	-3.20e-04	9.34e-03	9.01e-03	-1.30e-03	-4.50e-03	2.82e-04
##	1248	1.55e-02	6.39e-03	2.65e-02	-1.01e-02	-8.64e-03	-8.01e-03	-1.39e-02
##	1249	1.07e-04	-6.34e-03	-1.88e-03	-2.23e-03	-1.91e-03	-2.07e-03	-2.71e-03
##	1250	1.44e-02	1.14e-03	-7.38e-03	-4.53e-03	-9.15e-03	-5.85e-03	-1.98e-02
##	1251	-1.04e-02	2.11e-05	9.07e-03	8.78e-03	-2.86e-03	-5.65e-03	-3.27e-03
##	1252	-7.78e-03	-4.33e-04	-1.70e-02	-1.93e-02	-1.44e-02	3.76e-02	-1.39e-02
##	1253	-2.13e-03	-3.15e-03	-4.48e-03	1.71e-03	1.24e-03	1.21e-03	1.65e-03
##	1254	-3.11e-03	1.12e-02	9.63e-03	9.82e-03	1.14e-02	8.63e-03	1.22e-02
##	1255	3.95e-04	3.25e-04	-3.33e-05	-1.44e-04	-9.60e-05	-1.85e-04	1.29e-06
##	1256	4.11e-02	-4.49e-03	2.11e-02	-2.22e-02	-3.65e-02	-2.44e-02	1.22e-02
##	1257	-4.79e-03	2.18e-02	-2.37e-02	9.16e-03	3.78e-03	8.96e-03	2.73e-03
##	1258	-1.50e-02	-2.49e-02	1.14e-02	-2.99e-02	1.00e-02	-3.28e-02	1.50e-02
##	1259	-6.95e-03	2.03e-02	-1.97e-02	9.70e-03	4.60e-03	7.94e-03	3.10e-03
##	1260	-9.14e-04	-5.96e-03	1.63e-02	-2.14e-02	-3.10e-02	-1.23e-02	-3.97e-02
##	1261	-6.40e-03	9.20e-04	5.99e-03	5.30e-03	6.74e-03	-1.99e-03	5.99e-04
##	1262	-1.44e-02	-5.08e-04	1.21e-02	-9.66e-03	1.33e-02	9.93e-03	-3.91e-03
##	1263	2.55e-02	-1.50e-02	1.23e-02	-4.92e-02	7.62e-03	4.16e-03	1.43e-02
##	1264	-1.71e-04	-2.65e-04	1.57e-04	-2.98e-04	1.59e-04	1.51e-04	2.39e-04
##	1265	-8.50e-03	1.95e-02	1.78e-02	3.61e-02	1.61e-02	-3.89e-02	8.25e-03
##	1266	2.84e-07	-1.09e-06	-3.01e-07	-5.63e-07	-4.18e-08	-3.91e-07	6.98e-08
##	1267	-2.94e-03	9.85e-04	-1.38e-04	-3.23e-04	-2.26e-04	-1.11e-04	7.51e-05
##	1268	-1.74e-04	-2.86e-03	-2.81e-03	-3.26e-03	-3.03e-03	-2.92e-03	-4.00e-03
##	1269	-2.18e-04	-5.22e-03	-1.26e-03	-1.38e-03	-1.56e-03	-1.95e-03	-1.80e-03

## 1270	6.58e-03	-1.07e-02	-1.19e-02	-1.97e-02	-1.77e-02	5.40e-03	1.04e-02
## 1271	3.84e-04	1.55e-03	1.09e-02	-5.04e-03	1.19e-02	1.06e-02	-4.20e-04
## 1272	3.96e-03	-4.62e-03	4.17e-03	2.27e-03	-5.20e-03	3.28e-03	-2.63e-03
## 1273	-9.30e-05	-4.06e-05	-7.68e-06	-2.91e-05	-1.53e-05	-2.98e-05	-2.54e-05
## 1274	1.95e-03	1.32e-03	-2.18e-04	-1.97e-04	-4.12e-05	-8.19e-05	-3.41e-05
## 1275	6.66e-05	-4.38e-03	5.34e-03	-6.14e-03	-4.02e-03	-5.10e-03	-4.13e-03
## 1276	-1.60e-03	-3.71e-03	-7.08e-04	-1.10e-03	-5.50e-04	-6.54e-04	-8.57e-04
## 1277	7.75e-06	-1.44e-03	-2.34e-04	-1.21e-03	-6.14e-05	-9.72e-04	1.39e-05
## 1278	-1.19e-03	-2.41e-03	-3.78e-04	-7.22e-04	-5.77e-04	-4.64e-04	-7.82e-04
## 1279	-5.90e-03	3.20e-02	4.38e-03	4.79e-03	1.06e-02	1.17e-02	-2.80e-02
## 1280	-2.54e-05	4.63e-04	9.00e-03	-3.96e-03	-7.92e-04	8.80e-03	3.43e-04
## 1281	1.83e-03	1.29e-03	-2.20e-04	-6.51e-04	-3.69e-04	-4.42e-04	-1.21e-04
## 1282	1.18e-02	1.27e-03	-4.20e-03	2.02e-04	-8.27e-03	-1.89e-03	8.98e-03
## 1283	-3.27e-03	1.22e-02	4.49e-03	1.03e-02	-1.58e-02	-1.51e-02	-1.45e-02
## 1284	1.44e-02	-1.94e-02	-2.06e-02	9.04e-03	-1.85e-02	-2.82e-02	-8.14e-03
## 1285	1.64e-03	1.19e-03	-5.72e-05	-3.18e-04	-2.19e-04	-3.20e-04	1.37e-04
## 1286	-4.44e-03	-1.76e-03	3.58e-03	3.07e-03	4.80e-03	3.96e-03	-1.87e-03
## 1287	-5.04e-04	-1.06e-03	5.57e-04	6.61e-04	4.12e-04	-1.20e-03	7.07e-04
## 1288	1.99e-02	1.30e-02	-1.38e-02	3.30e-02	-1.26e-02	-1.15e-02	-1.54e-02
## 1289	-7.84e-04	-1.15e-03	6.87e-04	-1.34e-03	4.42e-04	4.75e-04	6.14e-04
## 1290	2.62e-04	-9.73e-04	-6.69e-04	4.94e-03	-2.01e-04	-1.64e-03	8.36e-04
## 1291	1.04e-02	-4.89e-02	-1.38e-02	-2.06e-02	-1.05e-02	-1.72e-02	-5.32e-03
## 1292	-1.25e-03	-2.20e-03	-2.48e-03	1.13e-03	-2.79e-03	9.49e-04	1.32e-03
## 1293	-2.58e-02	2.06e-03	1.57e-02	9.22e-03	1.63e-02	7.43e-03	-2.68e-02
## 1294	2.29e-02	1.91e-03	1.29e-02	1.13e-02	1.09e-02	7.36e-03	1.82e-02
## 1295	1.67e-03	-4.70e-03	-1.22e-02	-1.22e-02	-8.95e-03	1.16e-02	-8.88e-03
## 1296	1.26e-02	-4.71e-02	-1.39e-02	-1.74e-02	-8.55e-03	-1.39e-02	-5.86e-03
## 1297	6.44e-05	-6.97e-04	-5.80e-04	4.66e-03	-7.40e-05	-1.62e-03	7.06e-04
## 1298	6.11e-03	-5.62e-03	4.21e-03	2.81e-03	-6.60e-03	4.06e-03	-4.04e-03
## 1299	-1.91e-03	1.82e-03	2.52e-03	-1.81e-03	-1.49e-03	-1.10e-03	-1.44e-03
## 1300	3.62e-03	2.34e-03	-5.80e-04	-1.20e-03	-6.44e-04	-6.46e-04	9.18e-05
## 1301	-9.41e-03	-2.21e-04	-6.89e-03	-1.86e-03	-8.51e-03	-1.06e-03	-1.63e-02
## 1302	-7.65e-03	1.83e-02	7.62e-03	7.09e-03	-1.85e-02	8.76e-03	-2.07e-02
## 1303	-7.44e-03	4.02e-02	6.73e-03	2.44e-02	6.00e-03	2.28e-02	4.32e-03
## 1304	-2.39e-03	8.03e-04	-4.67e-03	-4.20e-03	-4.67e-03	-3.66e-03	4.31e-03
## 1305	-9.47e-03	-6.08e-04	-7.01e-03	-1.19e-03	-6.95e-03	-1.35e-03	1.58e-02
## 1306	-1.24e-02	-9.87e-04	-1.00e-02	-4.40e-03	-9.45e-03	-5.25e-03	1.83e-02
## 1307	-8.13e-03	-1.96e-03	-1.43e-02	-6.38e-03	-1.71e-02	-7.66e-03	8.93e-03
## 1308	-1.41e-03	1.84e-03	-9.90e-03	8.10e-03	-9.50e-03	9.05e-03	1.18e-02
## 1309	3.90e-03	3.26e-03	3.72e-03	-3.73e-03	3.80e-03	-3.77e-03	3.50e-03
## 1310	-1.33e-02	2.41e-02	2.25e-02	-1.74e-02	2.04e-02	3.79e-02	9.04e-03
## 1311	-1.86e-02	1.98e-02	2.38e-02	-3.20e-02	3.15e-02	3.73e-02	-3.90e-02
## 1312	-4.74e-04	-9.81e-04	-3.44e-05	5.01e-04	3.55e-04	7.72e-04	1.65e-04
## 1313	-4.41e-04	-8.16e-03	-2.32e-03	-4.05e-03	-3.23e-03	-3.39e-03	-3.00e-03
## 1314	1.86e-02	-7.98e-03	-2.98e-03	-3.82e-03	-3.45e-03	-4.09e-03	-4.01e-03
## 1315	-5.03e-03	1.03e-02	5.81e-03	-2.43e-02	-2.32e-02	1.19e-02	1.09e-02
## 1316	-8.62e-04	2.84e-02	7.09e-03	1.21e-02	1.15e-02	1.01e-02	8.88e-03
## 1317	-1.21e-02	-8.84e-03	-9.90e-03	-1.12e-02	-9.13e-03	1.20e-02	1.70e-02
## 1318	3.79e-03	-1.42e-03	3.21e-03	2.89e-03	4.78e-03	3.71e-03	-2.72e-03
## 1319	-1.24e-03	-7.59e-03	-1.92e-03	-3.34e-03	-2.57e-03	-3.25e-03	-2.96e-03

##	1320	-4.39e-04	1.83e-04	-8.43e-06	2.42e-05	-5.07e-07	2.90e-05	3.64e-05
##	1321	1.83e-03	2.76e-02	5.62e-03	6.01e-03	8.06e-03	9.65e-03	8.79e-03
##	1322	1.33e-02	-8.29e-04	-7.24e-03	-3.89e-03	-5.14e-03	-2.23e-03	-1.02e-02
##	1323	-3.89e-04	-3.65e-03	-4.35e-03	-4.79e-03	4.93e-03	-4.82e-03	-6.39e-03
##	1324	-4.73e-03	-8.40e-03	-3.68e-02	-2.41e-02	1.47e-02	-2.96e-02	4.35e-03
##	1325	-3.67e-03	7.87e-03	5.14e-03	7.74e-03	-1.13e-02	-1.12e-02	3.30e-03
##	1326	3.46e-03	2.11e-03	-3.32e-04	-7.69e-04	-6.01e-04	-3.84e-04	3.80e-04
##	1327	-3.25e-03	4.55e-03	4.69e-03	-6.09e-03	4.31e-03	-6.60e-03	2.53e-03
##	1328	4.70e-03	1.21e-02	1.17e-02	1.16e-02	8.82e-03	1.08e-02	8.95e-03
##	1329	-3.27e-03	1.21e-03	-4.46e-05	-1.19e-04	-1.77e-04	-7.42e-05	3.90e-04
##	1330	-4.21e-04	-1.65e-03	4.88e-03	-5.00e-03	4.13e-03	-5.80e-03	3.13e-03
##	1331	-3.77e-03	-1.44e-02	-1.28e-02	-1.06e-02	-9.35e-03	-8.33e-03	-8.14e-03
##	1332	8.41e-03	-4.25e-02	-1.12e-02	-1.45e-02	-6.83e-03	-1.37e-02	-5.64e-03
##	1333	-1.88e-02	-4.79e-03	-2.22e-02	1.19e-02	1.08e-02	8.04e-03	1.37e-02
##	1334	-5.87e-05	-8.48e-05	-7.87e-06	1.85e-05	2.15e-05	4.43e-05	-7.70e-06
##	1335	-3.92e-04	2.81e-02	8.18e-03	9.79e-03	8.56e-03	9.33e-03	1.12e-02
##	1336	-3.73e-03	3.23e-03	1.51e-02	-2.39e-02	1.81e-02	-2.50e-02	8.52e-03
##	1337	8.28e-03	-3.86e-02	-1.03e-02	-1.15e-02	-9.70e-03	-1.48e-02	4.18e-02
##	1338	-5.06e-04	-1.56e-03	-2.94e-04	5.60e-04	4.56e-04	1.37e-03	7.62e-05
##	1339	-9.74e-04	1.18e-03	1.05e-03	-9.86e-04	-7.78e-04	1.27e-03	-8.67e-04
##	1340	-1.44e-03	-4.22e-03	-8.23e-04	-1.27e-03	-1.28e-03	-2.16e-03	-1.74e-03
##	1341	2.08e-03	4.55e-03	1.79e-02	1.21e-02	-6.66e-03	1.44e-02	-1.26e-03
##	1342	-1.52e-02	3.83e-03	-8.59e-03	-5.09e-03	2.38e-02	-5.70e-03	-2.36e-02
##	1343	-1.01e-03	-2.11e-03	-4.13e-04	-1.21e-04	1.32e-04	1.07e-03	1.07e-04
##	1344	1.64e-02	6.75e-04	-9.09e-03	-4.68e-03	-1.03e-02	-5.95e-03	1.87e-02
##	1345	-3.42e-03	3.77e-03	-1.48e-02	7.00e-03	1.21e-02	7.78e-03	-1.36e-02
##	1346	-2.23e-03	-3.66e-03	1.96e-03	1.50e-03	2.62e-03	-4.07e-03	-1.84e-03
##	1347	-9.77e-04	-6.84e-03	-1.41e-03	-2.68e-03	-2.39e-03	-2.88e-03	-1.99e-03
##	1348	1.56e-03	1.12e-03	-4.60e-03	1.88e-03	8.37e-04	1.42e-03	1.37e-03
##	1349	1.95e-04	2.09e-04	-3.75e-06	4.18e-05	4.67e-05	8.21e-05	4.02e-05
##	1350	-1.70e-02	9.67e-03	-1.24e-02	-7.66e-03	-1.26e-02	3.32e-02	2.12e-02
##	1351	-6.71e-04	-7.67e-03	-2.01e-03	-3.61e-03	-3.09e-03	-3.15e-03	-3.05e-03
##	1352	2.22e-02	8.83e-04	1.37e-02	8.52e-03	9.60e-03	6.25e-03	1.90e-02
##	1353	5.89e-03	-1.41e-02	-1.15e-02	-2.08e-02	-1.13e-02	1.14e-02	-7.26e-03
##	1354	-1.95e-02	2.04e-03	1.33e-02	1.22e-02	1.14e-02	8.92e-03	1.71e-02
##	1355	-1.04e-02	1.35e-03	-4.41e-03	-4.61e-04	-7.77e-03	-3.42e-03	8.57e-03
##	1356	-8.17e-03	1.74e-04	-4.57e-03	3.10e-04	-7.20e-03	-1.44e-03	8.34e-03
##	1357	-1.92e-02	5.27e-03	2.69e-02	-7.14e-03	-6.88e-03	-5.05e-03	-1.15e-02
##	1358	1.52e-02	4.08e-04	-9.12e-03	-6.51e-03	-7.15e-03	-5.82e-03	-1.37e-02
##	1359	-3.84e-03	-3.98e-03	2.71e-03	2.43e-03	1.58e-03	1.66e-03	3.60e-03
##	1360	2.96e-03	-1.75e-03	2.55e-03	1.77e-03	1.59e-03	1.03e-03	2.31e-03
##	1361	1.11e-02	-8.03e-03	3.35e-02	-2.00e-02	-2.46e-02	-1.58e-02	-2.86e-02
##	1362	-1.18e-02	5.03e-04	-6.47e-03	-2.23e-03	-7.53e-03	-3.09e-03	1.62e-02
##	1363	2.21e-03	2.50e-03	-9.71e-03	1.05e-02	1.16e-02	4.17e-03	1.35e-02
##	1364	-3.63e-03	-2.39e-03	3.68e-03	-1.92e-03	-2.16e-03	-2.47e-03	3.38e-03
##	1365	1.29e-02	9.57e-03	-1.23e-02	-1.37e-02	3.31e-03	6.53e-03	9.33e-04
##	1366	-9.56e-04	-1.48e-03	-1.43e-04	2.31e-06	1.21e-04	6.65e-04	-5.72e-05
##	1367	1.11e-02	5.20e-04	-5.03e-03	-9.88e-04	-5.71e-03	-2.02e-03	1.59e-02
##	1368	-2.24e-02	-6.55e-03	-2.60e-02	8.91e-03	1.96e-02	1.19e-02	-1.38e-02
##	1369	2.09e-04	-5.71e-03	-1.33e-03	-1.53e-03	-1.80e-03	-1.68e-03	-1.94e-03

## 1370	-2.20e-04	1.31e-04	-2.68e-04	-2.31e-04	-1.90e-04	-1.29e-04	-2.04e-04
## 1371	-1.13e-04	-1.20e-04	8.78e-06	2.29e-05	1.62e-05	4.69e-05	9.26e-06
## 1372	8.03e-03	-3.26e-02	-6.78e-03	-1.01e-02	2.78e-02	-2.18e-02	2.22e-02
## 1373	-5.73e-03	-5.43e-03	3.46e-03	2.60e-03	4.04e-03	2.87e-03	8.47e-03
## 1374	5.96e-03	1.20e-02	-6.59e-03	6.20e-03	5.20e-03	4.84e-03	-1.19e-02
## 1375	8.08e-04	1.99e-03	2.09e-03	1.92e-03	2.58e-03	1.98e-03	-2.44e-03
## 1376	-8.59e-03	-1.92e-03	-2.32e-03	6.41e-03	8.57e-03	-4.93e-03	-8.52e-04
## 1377	-1.93e-02	6.82e-04	1.23e-02	1.19e-02	1.13e-02	9.08e-03	1.83e-02
## 1378	3.12e-03	-1.21e-03	-7.13e-05	-1.02e-04	-2.54e-04	-4.91e-04	-3.51e-04
## 1379	-3.37e-02	-3.86e-02	-8.83e-03	-1.12e-02	-4.77e-03	-1.02e-02	-2.89e-03
## 1380	2.41e-02	-3.34e-03	-1.64e-02	-1.22e-02	-1.20e-02	-8.05e-03	-1.85e-02
## 1381	-8.82e-03	-5.51e-03	8.37e-03	-5.79e-03	-2.35e-03	-3.35e-03	-5.72e-04
## 1382	-9.46e-04	-1.53e-03	7.93e-04	-1.80e-03	4.78e-04	5.62e-04	6.86e-04
## 1383	-4.10e-03	1.60e-03	-1.83e-04	-3.97e-04	-2.59e-04	2.42e-05	2.70e-04
## 1384	-6.19e-03	2.09e-02	7.14e-03	7.98e-03	-2.26e-02	9.64e-03	-2.37e-02
## 1385	-1.09e-02	6.66e-03	2.24e-02	-6.97e-03	2.43e-02	-5.39e-03	-2.66e-02
## 1386	7.20e-03	-8.12e-03	4.12e-03	2.96e-03	4.39e-03	-1.11e-02	-7.90e-03
## 1387	1.34e-02	-8.10e-03	-2.21e-02	9.69e-03	-2.76e-02	7.30e-03	1.84e-02
## 1388	-3.70e-04	-7.30e-04	-7.25e-05	-1.42e-05	-5.72e-05	-8.83e-05	-1.62e-04
## 1389	-2.14e-05	-6.67e-03	-1.78e-03	-2.10e-03	-2.09e-03	-2.15e-03	-2.65e-03
## 1390	1.65e-03	-3.75e-03	-2.81e-03	9.19e-03	-2.73e-03	-6.73e-03	3.71e-04
## 1391	-3.03e-02	-5.07e-02	-1.92e-02	-1.86e-02	3.01e-02	-2.71e-02	2.75e-02
## 1392	-3.98e-03	-1.02e-02	-3.98e-02	-2.62e-02	1.50e-02	-3.18e-02	3.46e-03
## 1393	-2.05e-02	-9.94e-03	9.30e-03	5.42e-03	-3.62e-02	1.03e-02	3.30e-02
## 1394	1.48e-02	-1.77e-02	1.35e-02	-2.39e-02	9.57e-03	-2.76e-02	1.29e-02
## 1395	-6.17e-04	-2.19e-03	-2.95e-04	1.09e-04	-1.96e-04	2.64e-05	-3.76e-04
## 1396	7.85e-05	-5.55e-03	-1.26e-03	-1.48e-03	-1.75e-03	-1.69e-03	-1.89e-03
## 1397	1.04e-02	9.62e-03	1.97e-02	9.14e-04	1.64e-02	-3.12e-03	9.12e-03
## 1398	-2.42e-03	-1.31e-02	-1.52e-02	-1.38e-02	-1.54e-02	-1.40e-02	-2.36e-02
## 1399	-8.78e-03	3.05e-02	6.62e-03	6.20e-03	1.21e-02	1.22e-02	-2.52e-02
## 1400	2.17e-03	-6.39e-04	-1.38e-04	4.31e-05	5.88e-05	2.06e-04	-2.03e-04
## 1401	-1.56e-02	-6.29e-04	-7.56e-03	-6.79e-03	-6.63e-03	-4.51e-03	-1.17e-02
## 1402	-8.02e-04	3.11e-04	-4.36e-05	9.31e-06	8.68e-06	-1.31e-05	6.66e-06
## 1403	3.13e-03	-3.18e-03	7.64e-03	-1.00e-02	1.13e-02	-7.23e-03	1.34e-02
## 1404	4.47e-04	-9.43e-04	1.06e-02	-6.57e-03	-2.48e-03	8.68e-03	-1.18e-03
## 1405	6.64e-03	-5.83e-04	1.83e-02	1.19e-02	-1.76e-02	1.01e-02	2.84e-02
## 1406	-7.42e-03	9.91e-04	-1.68e-03	1.44e-03	-4.21e-03	-3.06e-04	6.93e-03
## 1407	-2.75e-02	-1.32e-02	-2.65e-02	4.98e-03	-2.34e-02	1.01e-02	-1.30e-02
## 1408	1.81e-02	4.57e-03	-1.08e-02	-6.03e-03	2.40e-02	-8.16e-03	1.81e-02
## 1409	-8.24e-04	2.22e-03	7.12e-04	8.66e-04	1.29e-03	1.43e-03	-3.91e-03
## 1410	1.07e-02	-9.46e-03	1.46e-02	1.13e-02	-1.56e-02	-2.31e-02	-1.34e-02
## 1411	-1.00e-02	-2.22e-03	-2.43e-03	-5.93e-03	9.36e-03	8.08e-03	-2.06e-03
## 1412	-1.80e-03	9.56e-04	5.71e-03	6.21e-03	-2.50e-03	-3.60e-03	-1.66e-03
## 1413	-8.13e-03	2.15e-02	-2.00e-02	8.06e-03	3.81e-03	5.74e-03	1.15e-03
## 1414	1.01e-03	1.49e-03	-4.19e-03	8.54e-03	1.04e-02	6.14e-03	1.39e-02
## 1415	9.31e-04	6.99e-04	-5.40e-05	-6.59e-05	-9.49e-06	-6.88e-05	-4.65e-05
## 1416	2.79e-03	1.43e-03	-9.32e-03	1.01e-02	1.78e-02	9.56e-03	-6.70e-03
## 1417	-1.02e-02	3.00e-04	-4.65e-03	-4.62e-04	-6.09e-03	-6.85e-04	-1.36e-02
## 1418	-4.71e-05	2.29e-04	4.13e-05	1.44e-04	2.31e-05	9.77e-05	-2.44e-05
## 1419	-1.08e-02	4.90e-03	-5.65e-03	-9.40e-04	1.60e-02	-4.60e-03	7.24e-03

##	1420	-2.45e-05	-3.52e-05	1.84e-07	1.13e-06	-6.00e-06	-5.54e-06	-8.22e-06
##	1421	-5.57e-03	1.10e-02	5.12e-03	6.78e-03	-2.11e-02	-2.41e-02	-1.81e-02
##	1422	5.39e-04	-2.08e-03	-8.27e-04	-1.87e-03	-1.77e-03	-2.59e-03	2.62e-03
##	1423	-1.95e-02	1.31e-03	1.41e-02	1.01e-02	-1.82e-02	5.81e-03	1.35e-02
##	1424	-3.32e-02	-3.79e-02	-8.23e-03	-1.03e-02	-4.57e-03	-9.55e-03	-3.68e-03
##	1425	5.54e-04	-1.47e-04	-4.00e-06	4.56e-05	2.84e-05	3.65e-05	1.50e-06
##	1426	8.36e-03	-3.25e-03	-8.28e-04	-8.08e-04	-6.65e-04	-6.72e-04	-1.32e-03
##	1427	7.84e-03	1.16e-02	6.89e-03	7.62e-03	6.98e-03	-9.33e-03	-1.13e-02
##	1428	-1.04e-03	-2.97e-03	-5.06e-04	-9.36e-04	-8.08e-04	-1.29e-03	-1.30e-03
##	1429	-2.64e-03	1.01e-03	-1.77e-02	-1.75e-02	5.60e-03	-1.68e-02	-2.23e-02
##	1430	-1.39e-02	1.01e-02	-6.18e-03	-2.43e-03	-1.11e-02	2.58e-02	9.23e-03
##	1431	1.49e-03	-7.01e-03	-5.22e-03	-1.43e-02	-6.94e-03	8.43e-03	-5.30e-03
##	1432	-1.20e-02	4.58e-03	-4.11e-03	-9.43e-04	1.80e-02	-3.47e-03	1.28e-02
##	1433	1.59e-02	2.36e-02	7.21e-03	8.98e-03	4.51e-03	6.01e-03	2.13e-03
##	1434	-6.10e-03	1.49e-02	6.69e-03	8.06e-03	-1.12e-02	7.94e-03	4.92e-03
##	1435	1.46e-02	3.91e-03	-7.93e-03	-4.21e-03	2.49e-02	-3.55e-03	-1.31e-02
##	1436	-4.79e-04	-2.52e-03	-4.57e-04	-4.63e-05	-1.28e-04	8.88e-05	-4.79e-04
##	1437	2.28e-03	3.93e-03	-1.08e-02	1.00e-02	1.93e-02	1.08e-02	-7.16e-03
##	1438	-1.17e-02	-2.69e-03	1.05e-02	-7.17e-03	-3.55e-03	1.05e-02	-1.43e-03
##	1439	-3.81e-03	1.20e-02	6.37e-03	1.01e-02	-2.28e-02	-2.15e-02	6.32e-03
##	1440	-9.30e-03	-9.48e-03	-5.02e-03	-6.48e-03	-2.97e-03	-3.56e-03	-1.22e-04
##	1441	2.07e-02	-1.38e-02	1.38e-02	6.62e-03	2.05e-02	-4.10e-02	-1.46e-02
##	1442	2.73e-02	3.09e-02	7.56e-03	9.63e-03	3.57e-03	8.35e-03	3.86e-03
##	1443	-2.15e-02	1.18e-02	-1.18e-02	-1.27e-02	-1.08e-02	3.58e-02	-1.75e-02
##	1444	-1.06e-03	-4.63e-03	-9.82e-04	-1.52e-03	-1.36e-03	-1.91e-03	-1.89e-03
##	1445	-1.04e-03	-7.01e-03	-2.10e-03	-3.37e-03	-2.48e-03	-3.99e-03	-4.07e-03
##	1446	-5.63e-04	-6.94e-03	-1.69e-03	-2.92e-03	-2.70e-03	-3.06e-03	-2.16e-03
##	1447	1.98e-02	1.14e-02	5.91e-03	-2.04e-02	-2.02e-02	9.53e-03	-2.41e-02
##	1448	-3.15e-03	-1.01e-04	9.94e-03	-2.18e-02	1.13e-02	6.84e-03	-1.60e-02
##	1449	-2.40e-02	-5.78e-03	-2.28e-02	7.52e-03	1.88e-02	1.15e-02	-1.26e-02
##	1450	-1.65e-03	-5.12e-03	-7.66e-04	-2.00e-03	-1.90e-03	-2.65e-03	-1.49e-03
##	1451	6.19e-03	-1.25e-02	-8.43e-03	-9.46e-03	-6.52e-03	-7.59e-03	1.85e-02
##	1452	-1.14e-02	5.59e-03	2.05e-02	-1.66e-03	-1.03e-02	-4.33e-03	1.05e-02
##	1453	6.75e-03	-7.24e-03	1.79e-02	1.35e-02	-8.82e-03	-1.81e-02	-7.01e-04
##	1454	1.73e-04	2.93e-02	8.14e-03	9.85e-03	8.27e-03	9.18e-03	1.15e-02
##	1455	-1.36e-02	1.45e-03	-4.04e-03	9.72e-03	-2.71e-03	1.27e-02	3.58e-04
##	1456	-1.68e-02	1.02e-02	2.42e-02	-3.79e-03	2.69e-02	-4.52e-03	-1.30e-02
##	1457	1.39e-02	-1.87e-02	1.30e-02	-2.38e-02	1.46e-02	-2.58e-02	-1.97e-02
##	1458	-8.54e-04	-1.50e-03	-2.70e-04	-1.95e-04	-1.58e-04	-3.31e-04	-4.29e-04
##	1459	1.70e-02	-9.38e-04	-1.12e-02	-1.08e-02	-9.76e-03	-8.09e-03	-1.52e-02
##	1460	-2.72e-03	4.86e-03	4.92e-03	-1.41e-02	6.74e-03	-1.45e-02	6.82e-03
##	1461	-1.66e-02	-7.21e-03	-2.80e-02	1.15e-02	9.59e-03	8.10e-03	1.53e-02
##	1462	-4.34e-03	1.25e-02	6.36e-03	-1.50e-02	3.53e-03	7.51e-03	1.66e-03
##	1463	1.92e-02	1.96e-02	8.16e-03	1.01e-02	1.29e-02	-1.76e-02	-1.50e-02
##	1464	2.05e-03	-2.43e-03	-4.11e-03	-7.41e-03	8.34e-03	7.35e-03	9.83e-03
##	1465	-1.54e-02	1.13e-02	-2.09e-02	-1.46e-02	-2.76e-02	3.80e-02	1.45e-02
##	1466	-2.93e-04	-5.65e-03	-1.51e-03	-1.87e-03	-1.93e-03	-2.10e-03	-2.51e-03
##	1467	1.25e-02	-1.66e-03	1.41e-02	9.18e-03	-2.20e-02	8.63e-03	-1.94e-02
##	1468	-1.53e-02	-1.12e-03	-1.11e-02	-7.52e-03	-7.75e-03	-4.32e-03	-1.49e-02
##	1469	-1.24e-02	3.77e-03	-9.76e-03	-3.17e-03	1.91e-02	-7.52e-03	9.06e-03

## 1470	6.35e-03	-5.15e-03	-1.25e-02	1.02e-02	-1.51e-02	9.06e-03	2.33e-02
## 1471	-4.55e-05	4.82e-04	-1.73e-03	8.04e-03	1.08e-02	-4.56e-03	-4.06e-04
## 1472	1.28e-05	-6.62e-03	-1.90e-03	-2.30e-03	-2.01e-03	-2.22e-03	-2.62e-03
## 1473	-6.23e-03	1.03e-02	1.41e-02	3.30e-02	-4.92e-02	-3.98e-02	9.46e-03
## 1474	-1.22e-02	9.05e-03	2.25e-02	-9.14e-03	2.15e-02	-1.39e-02	1.05e-02
## 1475	-2.21e-03	6.78e-03	1.02e-02	8.70e-03	-1.14e-02	1.30e-02	-9.05e-03
## 1476	5.94e-05	3.20e-04	5.88e-03	7.66e-03	-7.39e-03	-7.72e-03	5.68e-03
## 1477	1.01e-03	1.65e-03	1.42e-03	1.68e-03	8.90e-04	1.12e-03	1.06e-03
## 1478	-3.02e-02	-1.02e-02	1.34e-02	1.69e-03	-3.49e-02	9.14e-03	-1.67e-02
## 1479	2.01e-04	-1.34e-04	2.12e-04	1.93e-04	-2.50e-04	2.18e-04	-2.37e-04
## 1480	-1.29e-02	2.70e-03	-1.96e-03	8.36e-03	-1.31e-03	9.64e-03	3.53e-04
## 1481	-7.97e-03	-2.98e-04	-7.12e-03	-6.16e-04	-9.88e-03	-2.34e-03	8.89e-03
## 1482	6.77e-03	-2.09e-02	4.04e-02	-2.05e-02	-9.06e-03	4.20e-02	-5.78e-03
## 1483	3.28e-03	-3.69e-04	-8.20e-03	1.18e-02	-7.65e-03	1.50e-02	-1.84e-03
## 1484	-3.39e-03	1.42e-02	6.13e-03	-1.68e-02	4.60e-03	9.58e-03	1.31e-03
## 1485	-1.65e-03	2.04e-03	-4.78e-03	-3.80e-03	2.44e-03	-4.34e-03	1.48e-03
## 1486	3.90e-03	1.01e-02	-4.94e-03	5.43e-03	-6.33e-03	5.17e-03	-8.56e-03
## 1487	9.23e-05	-6.40e-03	-1.79e-03	-2.09e-03	-2.10e-03	-2.13e-03	-2.71e-03
## 1488	-1.26e-02	3.40e-03	2.15e-02	-1.91e-03	-8.30e-03	-2.26e-03	2.12e-02
## 1489	-1.61e-02	-1.83e-02	1.08e-02	-3.14e-02	-2.92e-02	1.04e-02	1.45e-02
## 1490	4.40e-03	2.22e-02	4.02e-03	4.16e-03	4.80e-03	1.18e-03	2.55e-03
## 1491	3.86e-03	-6.92e-03	-6.05e-03	-9.28e-03	-7.62e-03	6.72e-03	1.14e-02
## 1492	-2.67e-04	-8.65e-03	-2.46e-03	-4.18e-03	-3.21e-03	-3.28e-03	-3.14e-03
## 1493	-1.11e-02	-5.13e-03	-5.48e-03	-8.95e-03	6.19e-03	5.66e-03	6.70e-03
## 1494	-1.32e-02	-3.23e-03	-1.06e-02	-6.88e-03	-8.44e-03	-2.39e-03	-1.22e-02
## 1495	2.04e-03	-6.81e-04	-8.53e-03	9.08e-03	-1.21e-02	6.29e-03	2.01e-02
## 1496	-1.04e-03	4.30e-03	9.91e-03	8.05e-03	-1.84e-02	8.80e-03	1.53e-02
## 1497	-5.00e-04	-1.32e-03	-2.75e-04	3.49e-04	3.62e-04	9.93e-04	2.79e-05
## 1498	6.18e-03	9.44e-03	5.42e-03	-6.89e-03	3.91e-03	5.58e-03	2.06e-03
## 1499	5.05e-03	3.89e-03	2.09e-02	1.16e-02	-1.30e-02	1.57e-02	-4.86e-03
## 1500	-2.30e-02	1.97e-03	1.59e-02	1.15e-02	1.12e-02	8.76e-03	1.87e-02
## 1501	-1.16e-02	-5.43e-04	-4.85e-03	-1.43e-03	-3.43e-03	-1.14e-04	-7.90e-03
## 1502	-1.49e-03	5.01e-04	3.55e-03	-3.32e-03	-1.72e-03	4.78e-03	-1.97e-03
## 1503	1.15e-03	1.07e-03	2.56e-05	-2.26e-04	-2.05e-04	-3.49e-04	1.62e-04
## 1504	-2.31e-02	-1.04e-02	-2.47e-02	7.99e-03	-2.60e-02	7.30e-03	2.74e-02
## 1505	2.05e-02	4.45e-03	-1.39e-02	-9.79e-03	2.90e-02	-9.37e-03	-2.02e-02
## 1506	-5.17e-03	-4.83e-03	3.87e-03	2.69e-03	3.49e-03	2.92e-03	-8.57e-03
## 1507	2.08e-03	1.48e-03	-2.64e-04	-2.62e-04	-1.10e-04	-2.15e-04	1.49e-05
## 1508	2.05e-02	1.17e-03	1.54e-02	7.90e-03	1.45e-02	7.55e-03	-2.79e-02
## 1509	-3.66e-03	-1.44e-02	-1.26e-02	-1.05e-02	-9.15e-03	-8.13e-03	-8.56e-03
## 1510	2.48e-03	1.86e-03	-3.78e-04	-8.83e-04	-3.49e-04	-7.24e-04	8.40e-05
## 1511	9.19e-03	9.90e-03	6.34e-03	7.73e-03	-8.94e-03	-9.02e-03	8.80e-03
## 1512	2.00e-02	9.43e-04	1.23e-02	6.61e-03	2.07e-02	8.73e-03	-1.86e-02
## 1513	3.06e-03	-1.05e-03	1.59e-02	-1.54e-02	1.77e-02	1.33e-02	-4.70e-03
## 1514	-4.25e-04	-6.21e-03	-1.50e-03	-1.87e-03	-1.75e-03	-1.94e-03	-2.55e-03
## 1515	-9.96e-03	1.15e-02	3.60e-02	3.95e-02	-1.34e-02	-1.72e-02	-1.65e-02
## 1516	-5.51e-04	-8.31e-03	-2.43e-03	-3.93e-03	-3.22e-03	-3.73e-03	-3.05e-03
## 1517	1.73e-03	3.99e-04	-1.43e-03	-1.14e-03	-1.64e-03	-1.26e-03	4.50e-04
## 1518	1.64e-02	-1.47e-02	4.32e-02	4.63e-02	4.68e-02	-2.72e-02	-2.02e-02
## 1519	-4.80e-03	2.38e-02	6.52e-03	9.78e-03	4.78e-03	7.95e-03	2.40e-03

## 1520	2.51e-03	-6.54e-03	-4.31e-03	8.60e-03	-5.22e-03	-1.11e-02	-2.14e-03
## 1521	-5.67e-04	-5.30e-03	-9.82e-04	-1.11e-03	-1.52e-03	-1.90e-03	-1.65e-03
## 1522	-2.16e-02	-1.37e-02	-4.10e-02	5.63e-03	1.91e-02	1.17e-02	-2.06e-02
## 1523	3.96e-03	2.61e-03	-6.20e-04	-1.14e-03	-7.75e-04	-5.98e-04	-3.46e-05
## 1524	-9.18e-03	2.69e-02	8.49e-03	9.28e-03	8.43e-03	9.78e-03	1.19e-02
## 1525	1.88e-03	1.46e-03	1.69e-05	-3.98e-04	-3.10e-04	-3.21e-04	3.38e-04
## 1526	1.53e-02	2.04e-02	-8.97e-03	-1.10e-02	2.51e-02	3.30e-02	-2.99e-02
## 1527	1.10e-02	-6.13e-03	-1.09e-03	-2.99e-03	-2.83e-03	-4.19e-03	-2.30e-03
## 1528	-6.19e-04	-4.94e-03	-1.23e-03	-1.68e-03	-1.44e-03	-1.82e-03	-2.19e-03
## 1529	2.07e-02	3.63e-03	-1.44e-02	-1.34e-02	3.03e-02	-1.11e-02	-2.04e-02
## 1530	3.41e-03	2.08e-03	-6.02e-04	-1.18e-03	-6.17e-04	-6.26e-04	-2.23e-05
## 1531	1.92e-02	3.25e-03	-1.82e-02	-1.70e-02	3.98e-03	-2.05e-02	-7.19e-04
## 1532	7.95e-03	-4.55e-03	3.63e-03	3.26e-03	4.52e-03	2.64e-03	8.13e-03
## 1533	-6.34e-04	-1.52e-03	5.39e-04	-1.39e-03	-1.43e-03	5.94e-04	6.01e-04
## 1534	-1.35e-02	6.71e-03	2.21e-02	-1.90e-03	-1.01e-02	-4.91e-03	1.13e-02
## 1535	-3.56e-03	1.25e-02	6.19e-03	-1.29e-02	4.26e-03	8.28e-03	1.62e-03
## 1536	-1.23e-02	-1.60e-03	-4.60e-03	7.67e-03	-8.67e-03	5.29e-03	9.16e-03
## 1537	3.22e-03	2.33e-03	-2.04e-04	-5.26e-04	-4.59e-04	-4.65e-04	4.48e-04
## 1538	-7.67e-04	-7.43e-04	1.55e-05	2.90e-05	4.96e-05	2.47e-04	2.42e-05
## 1539	1.80e-02	-1.36e-03	-1.13e-02	-1.12e-02	-1.04e-02	-7.39e-03	-1.55e-02
## 1540	-7.23e-03	1.82e-02	7.31e-03	8.13e-03	-1.84e-02	6.69e-03	4.68e-03
## 1541	1.18e-03	1.61e-03	-4.08e-03	9.35e-03	-2.66e-03	1.25e-02	-2.39e-05
## 1542	1.78e-03	1.45e-03	-8.13e-05	-4.02e-04	-2.81e-04	-4.55e-04	2.56e-04
## 1543	-2.30e-03	-2.67e-03	1.28e-02	-3.05e-02	1.23e-02	-3.50e-02	1.13e-03
## 1544	-1.72e-02	-7.27e-03	1.41e-02	1.27e-02	1.48e-02	-2.39e-02	-1.45e-02
## 1545	8.37e-03	-4.14e-02	-1.10e-02	-1.43e-02	-6.84e-03	-1.36e-02	-5.96e-03
## 1546	2.46e-02	-5.91e-03	1.18e-02	4.09e-03	-4.57e-02	1.34e-03	2.29e-02
## 1547	6.79e-03	-1.72e-03	-4.98e-04	9.81e-05	2.57e-04	7.83e-04	-1.48e-04
## 1548	7.53e-03	8.10e-03	-7.33e-03	7.96e-03	8.36e-03	-4.88e-03	-5.47e-03
## 1549	-1.53e-02	-7.76e-03	1.33e-02	1.14e-02	-1.38e-02	-1.79e-02	1.46e-02
## 1550	-1.15e-03	-4.54e-03	-9.55e-04	-1.53e-03	-1.42e-03	-2.02e-03	-1.83e-03
## 1551	5.04e-02	2.43e-02	1.87e-02	3.49e-02	1.59e-02	-4.32e-02	8.34e-03
## 1552	1.38e-02	1.97e-02	2.70e-02	-9.05e-03	-1.23e-02	3.09e-02	2.19e-02
## 1553	1.85e-02	1.82e-03	-1.66e-02	-1.63e-02	3.81e-03	-1.76e-02	1.37e-03
## 1554	-1.46e-02	1.07e-02	2.36e-02	-4.44e-03	2.35e-02	-6.68e-03	-2.26e-02
## 1555	-9.23e-05	-6.56e-03	-1.72e-03	-2.06e-03	-2.06e-03	-2.15e-03	-2.61e-03
## 1556	3.17e-05	-1.64e-03	3.82e-03	-3.67e-03	4.25e-03	-3.75e-03	-5.34e-03
## 1557	-1.43e-02	2.49e-04	-6.02e-03	-3.43e-03	-4.57e-03	-2.88e-03	-1.04e-02
## 1558	3.55e-03	-5.22e-03	7.50e-03	-1.04e-02	6.52e-03	-1.32e-02	4.59e-03
## 1559	-2.19e-02	2.18e-03	1.24e-02	9.46e-03	1.09e-02	4.95e-03	1.62e-02
## 1560	-7.94e-03	8.77e-04	-3.24e-03	1.11e-03	-6.14e-03	-8.29e-04	7.83e-03
## 1561	-1.62e-02	-2.39e-03	-7.25e-03	9.92e-03	-1.27e-02	7.63e-03	1.25e-02
## 1562	1.45e-03	-2.04e-03	7.24e-04	-1.56e-03	5.95e-04	-1.87e-03	6.49e-04
## 1563	-7.40e-03	2.37e-02	5.15e-03	5.50e-03	-2.55e-02	1.13e-02	-2.24e-02
## 1564	2.71e-02	-3.71e-02	-4.38e-02	3.24e-04	-3.56e-02	-5.32e-02	-1.83e-02
## 1565	-6.26e-03	2.14e-02	7.62e-03	1.07e-02	5.22e-03	7.44e-03	3.70e-03
## 1566	-7.99e-05	-1.15e-04	3.02e-06	5.72e-05	3.99e-05	7.76e-05	1.00e-05
## 1567	1.86e-04	-5.77e-03	-1.33e-03	-1.53e-03	-1.80e-03	-1.69e-03	-1.93e-03
## 1568	1.06e-02	-4.57e-02	-1.19e-02	-1.60e-02	-8.25e-03	-1.10e-02	-2.92e-03
## 1569	-1.24e-02	-7.09e-03	-6.46e-03	-9.41e-03	-7.17e-03	1.05e-02	1.54e-02

## 1570	-4.93e-04	-2.23e-03	-2.92e-04	4.51e-05	-3.18e-04	1.33e-04	-4.33e-04
## 1571	5.51e-02	4.03e-03	1.64e-02	-3.29e-02	1.81e-02	-3.36e-02	9.94e-03
## 1572	-3.53e-04	3.39e-04	-2.55e-04	3.92e-04	-3.67e-04	-3.98e-04	1.94e-04
## 1573	2.42e-02	1.76e-02	-1.73e-02	-1.92e-02	1.89e-02	2.83e-02	6.83e-03
## 1574	7.74e-03	-2.78e-02	-1.19e-02	-1.52e-02	-1.25e-02	3.80e-02	4.27e-02
## 1575	1.61e-02	-6.49e-05	-7.40e-03	-3.00e-03	-9.27e-03	-2.39e-03	-1.81e-02
## 1576	1.68e-02	1.96e-02	-2.01e-02	1.01e-02	-1.77e-02	1.08e-02	1.20e-02
## 1577	2.36e-03	-3.70e-03	-1.48e-02	9.70e-03	7.08e-03	-1.92e-02	6.45e-03
## 1578	2.39e-03	4.14e-03	2.79e-03	-2.49e-03	2.52e-03	2.98e-03	-4.29e-03
## 1579	2.39e-02	2.95e-02	7.74e-03	9.85e-03	3.89e-03	7.27e-03	3.34e-03
## 1580	-3.56e-03	3.75e-03	-6.76e-03	6.51e-03	-4.94e-03	8.95e-03	-4.93e-03
## 1581	5.75e-03	4.35e-03	4.52e-03	-5.45e-03	6.33e-03	-5.06e-03	-5.72e-03
## 1582	1.82e-04	-7.41e-04	2.38e-03	-7.50e-04	-9.43e-05	-5.25e-04	1.79e-04
## 1583	-6.88e-04	2.41e-04	-1.65e-05	-7.17e-05	-6.49e-05	-6.15e-05	-8.01e-07
## 1584	4.42e-03	-5.15e-03	-9.95e-03	1.27e-02	2.12e-02	-1.89e-02	-4.47e-03
## 1585	-7.04e-03	2.02e-02	-2.92e-02	5.74e-03	-3.08e-02	8.81e-03	-3.33e-02
## 1586	2.44e-03	1.57e-03	-3.74e-04	-9.11e-04	-4.36e-04	-5.40e-04	-4.62e-05
## 1587	-9.34e-04	-5.09e-03	-1.09e-03	-1.61e-03	-1.35e-03	-1.85e-03	-2.03e-03
## 1588	3.53e-02	-6.46e-03	-2.73e-02	-1.76e-02	-2.24e-02	-1.43e-02	2.56e-02
## 1589	-1.02e-04	-5.07e-03	-1.27e-03	-1.37e-03	-1.55e-03	-1.89e-03	-1.84e-03
## 1590	-2.79e-03	9.76e-04	-2.65e-04	-4.10e-04	-2.24e-04	-2.96e-04	4.05e-05
## 1591	1.37e-02	5.07e-03	2.28e-02	-3.63e-03	-5.12e-03	-2.38e-03	-1.01e-02
## 1592	-2.25e-02	2.40e-05	1.32e-02	1.02e-02	1.07e-02	7.69e-03	2.02e-02
## 1593	4.08e-03	-4.65e-03	-6.59e-03	-9.24e-03	-6.27e-03	1.12e-02	-6.73e-03
## 1594	-1.52e-04	-2.18e-04	-3.21e-05	5.04e-05	6.61e-05	1.06e-04	-2.13e-05
## 1595	4.25e-03	-4.42e-03	1.89e-03	-5.62e-03	1.43e-03	1.49e-03	1.67e-03
## 1596	-1.07e-02	3.50e-03	-2.63e-03	1.15e-03	1.67e-02	-6.82e-04	1.29e-02
## 1597	6.29e-03	-1.34e-03	-1.20e-02	1.10e-02	-1.32e-02	1.26e-02	-1.09e-02
## 1598	2.40e-02	-6.76e-04	-1.51e-02	-7.10e-03	-1.87e-02	-1.07e-02	1.10e-02
## 1599	-3.59e-02	-2.62e-02	-1.07e-02	4.12e-02	-1.09e-02	-1.57e-02	-1.26e-02
## 1600	6.01e-04	8.15e-04	-1.81e-03	6.50e-03	-2.89e-03	5.88e-03	-2.92e-03
## 1601	8.54e-04	7.20e-04	1.01e-05	5.88e-05	5.39e-06	-6.85e-05	9.20e-05
## 1602	-1.78e-03	-5.18e-04	1.74e-03	-6.02e-04	-5.47e-05	-4.96e-04	1.00e-04
## 1603	1.90e-02	1.86e-02	2.68e-02	-6.40e-03	-1.34e-02	3.64e-02	-2.31e-02
## 1604	-1.12e-03	-4.52e-03	-1.13e-03	-1.58e-03	-1.11e-03	-5.62e-04	-1.02e-03
## 1605	4.01e-03	-9.85e-03	1.34e-02	-1.11e-02	-4.63e-03	-9.36e-03	-1.45e-03
## 1606	4.44e-03	-4.42e-03	4.08e-03	2.03e-03	-5.97e-03	3.09e-03	-3.46e-03
## 1607	-2.70e-03	-2.63e-03	2.01e-03	2.30e-03	1.50e-03	1.43e-03	2.51e-03
## 1608	-5.03e-03	-6.88e-03	1.30e-02	-5.00e-02	2.69e-02	-3.87e-02	-5.13e-02
## 1609	-1.07e-03	-3.42e-03	-7.08e-04	-1.20e-03	-1.16e-03	-1.71e-03	-1.54e-03
## 1610	2.93e-04	3.47e-04	5.31e-04	5.25e-04	-1.01e-03	5.07e-04	-9.45e-04
## 1611	-1.16e-03	-1.61e-03	-1.83e-04	-4.47e-04	-3.27e-04	-5.09e-04	-4.80e-04
## 1612	3.29e-04	2.71e-04	-2.49e-05	-3.99e-05	-2.16e-05	-6.54e-05	-3.52e-05
## 1613	1.25e-02	9.25e-03	5.68e-03	7.88e-03	-1.36e-02	-1.36e-02	3.38e-03
## 1614	1.96e-02	4.68e-03	2.10e-02	-3.38e-03	-1.38e-02	-5.85e-03	1.24e-02
## 1615	-3.13e-03	-2.46e-03	2.37e-03	2.23e-03	2.50e-03	1.81e-03	-5.05e-03
## 1616	3.64e-03	5.56e-04	8.42e-03	1.14e-02	7.93e-03	-1.70e-02	6.24e-03
## 1617	-1.07e-02	-4.06e-03	-1.80e-02	-9.35e-03	-1.52e-02	-8.69e-03	2.05e-02
## 1618	-4.66e-04	3.63e-04	-5.79e-04	-4.53e-04	6.62e-04	-5.39e-04	5.68e-04
## 1619	3.26e-03	4.31e-03	-8.16e-03	1.11e-02	1.72e-02	1.48e-02	-3.14e-03

## 1620	-6.67e-03	-7.29e-03	1.89e-02	-2.28e-02	-3.74e-02	-2.60e-02	9.65e-03
## 1621	1.83e-02	5.52e-03	-1.09e-02	-8.25e-03	2.80e-02	-7.56e-03	-1.76e-02
## 1622	1.13e-02	4.39e-03	4.57e-03	-9.24e-03	3.49e-03	-1.10e-02	5.26e-04
## 1623	-2.05e-02	-6.55e-03	-2.83e-02	9.90e-03	9.76e-03	8.51e-03	1.77e-02
## 1624	1.33e-02	-2.56e-03	-2.70e-02	6.60e-03	1.53e-02	4.14e-03	-2.86e-02
## 1625	5.33e-03	-5.50e-03	3.40e-03	2.67e-03	3.08e-03	-8.01e-03	-5.63e-03
## 1626	1.11e-02	-7.40e-03	-2.38e-02	5.02e-03	-2.20e-02	7.45e-03	-1.29e-02
## 1627	-1.49e-02	1.47e-02	-1.17e-02	3.31e-02	2.91e-02	-4.88e-03	-1.34e-02
## 1628	-9.65e-03	4.23e-03	2.07e-02	-1.87e-02	1.72e-02	-2.67e-02	5.92e-03
## 1629	-4.53e-03	2.53e-02	6.73e-03	1.06e-02	4.98e-03	8.93e-03	2.40e-03
## 1630	-1.87e-04	-5.97e-05	-4.57e-04	-4.71e-04	-2.86e-04	9.20e-04	-3.46e-04
## 1631	-6.68e-03	2.72e-02	5.71e-03	8.83e-03	-2.35e-02	1.86e-02	-1.90e-02
## 1632	2.68e-03	-1.23e-03	-1.98e-04	-3.01e-04	-2.71e-04	-4.39e-04	-5.84e-04
## 1633	-7.61e-04	8.64e-04	2.65e-03	3.14e-03	2.40e-03	-3.41e-03	1.75e-03
## 1634	5.66e-04	1.62e-03	-1.62e-03	6.42e-03	-3.15e-03	5.90e-03	6.89e-03
## 1635	1.45e-02	-4.60e-02	-1.36e-02	-1.33e-02	-7.39e-03	-9.23e-03	-3.86e-03
## 1636	-6.06e-04	-2.96e-03	-4.30e-04	1.64e-04	-1.89e-04	1.90e-04	-3.49e-04
## 1637	-3.73e-03	-3.12e-03	2.98e-03	3.28e-03	2.18e-03	2.08e-03	3.59e-03
## 1638	-1.34e-03	-3.95e-03	-8.10e-04	-1.23e-03	-1.25e-03	-2.08e-03	-1.72e-03
## 1639	-1.86e-02	-1.02e-02	1.44e-02	1.11e-02	-1.45e-02	-2.23e-02	2.48e-02
## 1640	-1.59e-02	2.41e-02	2.46e-02	3.73e-02	2.37e-02	-1.51e-02	1.39e-02
## 1641	-8.36e-03	-6.71e-03	-1.90e-02	-7.87e-03	-1.51e-02	-5.23e-03	2.25e-02
## 1642	-2.42e-03	-1.89e-03	1.81e-03	1.40e-03	-2.14e-03	2.39e-03	-1.16e-03
## 1643	1.83e-02	1.51e-03	-1.10e-02	-6.35e-03	-1.15e-02	-7.26e-03	2.06e-02
## 1644	2.74e-03	-1.30e-03	1.56e-02	-1.49e-02	9.58e-03	5.13e-03	1.05e-02
## 1645	-4.86e-03	8.52e-03	-1.14e-02	8.38e-03	4.11e-03	-1.40e-02	3.01e-03
## 1646	-1.31e-02	6.23e-04	-4.64e-03	-3.67e-03	-7.38e-03	-3.75e-03	-1.60e-02
## 1647	1.11e-02	8.34e-04	-4.78e-03	-5.68e-04	-5.82e-03	-1.87e-03	1.62e-02
## 1648	2.62e-03	-2.50e-03	7.37e-03	-1.47e-02	-1.58e-02	8.27e-03	4.99e-03
## 1649	1.09e-03	7.61e-04	-4.92e-05	-2.59e-04	-2.41e-04	-2.11e-04	-6.38e-06
## 1650	-1.40e-04	-2.94e-03	-7.04e-04	-6.95e-05	-2.54e-04	1.89e-04	-5.42e-04
## 1651	1.01e-02	-5.08e-02	-1.51e-02	-2.36e-02	-1.06e-02	-1.74e-02	-7.57e-03
## 1652	3.86e-03	-6.09e-03	-5.30e-03	-8.66e-03	-9.04e-03	6.68e-03	7.78e-03
## 1653	1.23e-02	-6.99e-03	-1.76e-03	-4.20e-03	-3.25e-03	-4.64e-03	-3.14e-03
## 1654	-1.18e-02	1.68e-02	-3.53e-02	3.69e-02	2.03e-02	-2.63e-02	1.22e-02
## 1655	-2.27e-03	-4.93e-03	1.99e-03	-5.18e-03	-4.37e-03	2.12e-03	-4.08e-03
## 1656	6.50e-03	-3.76e-03	-8.34e-04	-1.70e-03	-1.39e-03	-2.80e-03	-1.91e-03
## 1657	-2.69e-04	-1.37e-03	-6.68e-03	1.03e-02	-8.50e-03	9.66e-03	-4.15e-03
## 1658	1.56e-02	1.64e-04	-9.52e-03	-6.79e-03	-7.39e-03	-6.01e-03	-1.40e-02
## 1659	-6.97e-03	-6.85e-03	-2.43e-02	-1.19e-02	-2.61e-02	-1.22e-02	1.13e-02
## 1660	-8.68e-03	-5.87e-03	-2.50e-02	-1.53e-02	-2.82e-02	-1.52e-02	1.30e-02
## 1661	2.23e-02	1.17e-03	1.48e-02	9.31e-03	1.04e-02	6.71e-03	2.10e-02
## 1662	-5.32e-04	-1.56e-03	-2.60e-04	5.88e-04	4.86e-04	1.39e-03	1.09e-04
## 1663	1.41e-02	-5.94e-03	-2.06e-03	-2.97e-03	-1.88e-03	-1.55e-03	-2.01e-03
## 1664	7.74e-03	-2.00e-02	-1.03e-02	-1.74e-02	-1.02e-02	-1.58e-02	-5.82e-03
## 1665	2.29e-02	8.35e-04	1.32e-02	8.16e-03	9.23e-03	6.03e-03	1.86e-02
## 1666	7.81e-03	-3.52e-02	-1.01e-02	-1.18e-02	4.13e-02	-1.06e-02	-7.50e-03
## 1667	-4.77e-03	-1.71e-03	-1.00e-03	-2.58e-03	-1.10e-03	4.13e-03	-5.53e-04
## 1668	-6.46e-03	-5.86e-03	4.20e-03	2.24e-03	6.20e-03	4.12e-03	-6.85e-03
## 1669	-1.81e-02	4.59e-02	2.62e-02	4.05e-02	2.37e-02	3.73e-02	1.56e-02

## 1670	5.11e-03	-1.18e-03	-1.24e-04	4.75e-04	2.79e-04	6.37e-04	1.36e-04
## 1671	2.53e-02	-3.07e-03	-1.79e-02	-1.03e-02	-1.58e-02	-1.07e-02	2.30e-02
## 1672	2.50e-02	-1.51e-02	1.19e-02	-4.21e-02	7.97e-03	8.51e-03	1.51e-02
## 1673	9.20e-03	-2.17e-03	-6.62e-04	4.91e-04	4.49e-04	1.25e-03	2.57e-04
## 1674	7.49e-04	-4.88e-03	-1.65e-03	-4.10e-03	-2.50e-03	-4.92e-03	8.46e-03
## 1675	-7.84e-03	3.08e-02	9.10e-03	9.72e-03	4.50e-03	6.95e-03	3.96e-03
## 1676	3.59e-03	-1.63e-03	-1.21e-04	-5.96e-04	-5.51e-04	-9.03e-04	-4.30e-04
## 1677	-2.61e-03	8.94e-04	-1.72e-04	-2.68e-04	-2.53e-04	-7.40e-06	1.81e-04
## 1678	-4.12e-04	-7.78e-04	3.97e-04	5.00e-04	3.29e-04	-1.02e-03	4.50e-04
## 1679	-7.73e-05	-1.25e-04	-7.89e-06	5.05e-05	3.84e-05	7.69e-05	7.92e-06
## 1680	1.25e-02	2.07e-02	7.77e-03	9.28e-03	4.22e-03	5.72e-03	2.89e-03
## 1681	-2.68e-02	4.54e-03	1.70e-02	9.95e-03	1.22e-02	4.28e-03	1.75e-02
## 1682	-4.11e-02	-2.95e-02	3.75e-02	-2.70e-02	-1.25e-02	4.92e-02	-9.69e-03
## 1683	1.12e-02	-4.09e-03	-1.04e-03	-6.70e-04	-6.55e-04	-7.45e-04	-7.54e-04
## 1684	-7.25e-05	-7.19e-05	6.72e-07	2.77e-05	1.86e-05	4.17e-05	-7.39e-07
## 1685	5.97e-03	-1.18e-02	-2.24e-02	-2.39e-02	-1.78e-02	1.26e-02	-1.65e-02
## 1686	8.60e-04	-3.20e-03	-2.43e-03	-7.51e-03	8.27e-03	6.01e-03	-6.55e-03
## 1687	2.33e-03	1.79e-03	-2.22e-04	-7.42e-04	-4.59e-04	-5.25e-04	1.69e-05
## 1688	-1.64e-03	8.56e-03	8.78e-03	9.50e-03	7.42e-03	8.08e-03	7.09e-03
## 1689	-2.40e-04	1.76e-03	2.21e-04	9.09e-04	-2.20e-04	6.19e-04	-1.76e-04
## 1690	-5.53e-03	-1.11e-02	-1.13e-02	-9.14e-03	-1.23e-02	-1.25e-02	3.18e-02
## 1691	3.96e-03	5.18e-03	-3.63e-03	4.69e-03	3.94e-03	-4.71e-03	-5.71e-03
## 1692	-1.19e-02	1.43e-03	-4.09e-03	-1.40e-03	-6.05e-03	-2.72e-03	-1.48e-02
## 1693	6.96e-03	-4.56e-03	4.12e-03	2.50e-03	4.41e-03	2.48e-03	8.25e-03
## 1694	2.01e-04	1.46e-04	-3.71e-04	2.66e-03	2.35e-03	-1.32e-03	2.52e-03
## 1695	-1.55e-03	-2.39e-03	-1.78e-04	-6.35e-04	-5.75e-04	-5.32e-04	-5.39e-04
## 1696	8.14e-04	8.42e-04	1.11e-05	-1.92e-04	-2.03e-04	-3.40e-04	9.76e-05
## 1697	-5.40e-03	-2.75e-03	1.57e-02	-3.25e-02	1.68e-02	-3.63e-02	4.62e-03
## 1698	-1.47e-02	1.75e-02	-1.02e-02	3.43e-02	2.12e-02	-9.90e-03	1.29e-02
## 1699	3.81e-03	-4.59e-03	-1.68e-02	1.01e-02	7.44e-03	-2.05e-02	6.58e-03
## 1700	-1.17e-02	5.55e-03	-2.32e-03	6.40e-04	1.52e-02	-3.26e-03	6.70e-03
## 1701	3.49e-03	-5.91e-03	-6.14e-03	1.00e-02	-9.88e-03	-1.58e-02	1.06e-02
## 1702	5.71e-04	-6.23e-04	-8.30e-04	3.64e-03	-1.06e-03	-1.70e-03	-1.11e-03
## 1703	-2.04e-02	-4.18e-03	1.14e-02	9.17e-03	-3.67e-02	6.33e-03	1.86e-02
## 1704	5.12e-03	-1.45e-02	-5.75e-03	-8.40e-03	3.17e-02	3.37e-02	2.65e-02
## 1705	1.23e-02	1.43e-02	7.40e-03	9.24e-03	-1.10e-02	-1.06e-02	-1.35e-02
## 1706	2.58e-02	-1.90e-02	1.07e-02	9.05e-03	-3.64e-02	-4.15e-02	2.04e-02
## 1707	-2.12e-04	8.15e-05	-4.42e-06	1.08e-05	9.57e-07	1.44e-05	1.49e-05
## 1708	1.36e-02	1.96e-02	-1.38e-02	9.70e-03	5.53e-03	9.27e-03	3.97e-03
## 1709	3.46e-03	3.62e-03	-3.45e-03	3.76e-03	2.30e-03	-5.24e-03	1.02e-03
## 1710	-8.93e-04	-1.17e-03	8.37e-04	9.11e-04	9.82e-04	-1.49e-03	-1.13e-03
## 1711	8.30e-04	6.53e-04	-1.16e-04	-4.22e-04	-2.16e-04	-3.67e-04	-8.60e-05
## 1712	-7.31e-03	2.74e-02	6.50e-03	7.95e-03	7.94e-03	9.86e-03	1.14e-02
## 1713	3.07e-03	1.98e-03	-1.57e-04	-5.29e-04	-5.01e-04	-2.35e-04	2.99e-04
## 1714	-7.01e-04	-2.42e-03	-4.52e-04	-2.32e-04	-2.22e-04	2.38e-05	-7.77e-04
## 1715	-1.93e-02	-3.99e-02	-4.22e-02	3.99e-03	-3.26e-02	-4.32e-02	-1.41e-02
## 1716	-2.37e-02	-1.19e-02	-4.14e-02	1.75e-03	1.18e-02	4.81e-03	-3.76e-02
## 1717	1.83e-02	1.32e-02	-1.29e-02	3.35e-02	-9.11e-03	-1.04e-02	-1.38e-02
## 1718	-2.89e-03	1.98e-03	-1.07e-02	8.06e-03	-8.77e-03	1.14e-02	-7.33e-03
## 1719	-4.48e-04	-1.24e-03	-1.04e-04	7.24e-04	4.61e-04	1.14e-03	3.00e-04

## 1720	2.79e-02	-3.83e-03	8.27e-03	3.42e-03	2.10e-02	7.87e-03	-2.28e-02
## 1721	2.16e-02	7.78e-04	1.40e-02	8.97e-05	2.06e-02	4.40e-03	-2.31e-02
## 1722	1.41e-02	2.25e-02	7.25e-03	8.97e-03	4.99e-03	5.42e-03	2.33e-03
## 1723	1.53e-02	1.02e-02	-1.51e-02	7.71e-03	6.79e-03	-1.83e-02	-2.02e-02
## 1724	-2.54e-04	2.25e-04	3.27e-04	-2.15e-04	-1.63e-04	-1.14e-04	-2.27e-04
## 1725	7.97e-04	-1.48e-03	-1.43e-03	-2.31e-03	-2.33e-03	3.27e-03	3.23e-03
## 1726	-3.05e-02	-3.24e-02	-5.58e-03	-5.53e-03	-6.23e-03	-8.79e-03	3.65e-02
## 1727	1.33e-02	-7.65e-04	-7.24e-03	-3.90e-03	-5.17e-03	-2.25e-03	-1.02e-02
## 1728	1.49e-03	4.38e-03	-6.41e-03	1.08e-02	1.65e-02	9.82e-03	-3.98e-03
## 1729	2.38e-04	-6.29e-03	-1.95e-03	-2.29e-03	-2.04e-03	-2.17e-03	-2.73e-03
## 1730	-3.51e-03	-8.22e-03	-9.07e-03	-5.78e-03	-1.53e-02	-1.17e-02	2.06e-02
## 1731	-3.82e-04	2.48e-03	2.97e-04	1.11e-03	-1.72e-04	8.17e-04	-2.81e-04
## 1732	-4.20e-04	2.70e-02	7.60e-03	8.84e-03	8.90e-03	9.00e-03	1.15e-02
## 1733	-6.78e-03	2.83e-02	7.92e-03	1.02e-02	4.89e-03	8.29e-03	3.77e-03
## 1734	8.52e-04	-1.90e-03	-1.57e-03	5.83e-03	-3.16e-03	-4.62e-03	6.09e-03
## 1735	1.41e-02	5.91e-04	-8.34e-03	-6.00e-03	-6.66e-03	-5.57e-03	-1.31e-02
## 1736	-1.53e-03	-3.75e-03	-5.38e-04	-1.45e-03	-1.31e-03	-1.97e-03	-1.30e-03
## 1737	2.30e-02	1.67e-02	-2.56e-02	6.68e-03	-2.57e-02	9.47e-03	1.21e-02
## 1738	1.32e-02	8.11e-03	2.23e-02	-3.29e-03	-7.82e-03	-5.95e-03	1.87e-02
## 1739	-1.96e-03	7.14e-04	-1.58e-07	-8.33e-05	-1.43e-04	2.79e-05	1.61e-04
## 1740	-1.62e-02	-1.12e-02	-1.09e-02	-1.60e-02	-8.63e-03	1.42e-02	-4.99e-03
## 1741	7.16e-04	5.75e-04	-7.58e-05	-1.05e-04	-4.71e-05	-1.33e-04	-3.75e-05
## 1742	9.06e-05	-8.10e-04	-1.24e-04	-5.13e-04	-4.47e-05	-2.88e-04	7.54e-05
## 1743	-1.28e-02	1.64e-03	-5.50e-03	-3.07e-03	-7.21e-03	-3.27e-03	-1.72e-02
## 1744	1.20e-03	9.00e-04	-6.27e-05	-3.37e-04	-2.79e-04	-3.07e-04	7.47e-05
## 1745	5.54e-03	-1.19e-02	-1.08e-02	9.43e-03	-1.10e-02	-2.25e-02	-5.37e-03
## 1746	-1.16e-02	-1.74e-03	1.00e-02	1.01e-02	-4.10e-03	-5.76e-03	1.59e-02
## 1747	-1.63e-02	1.05e-02	-9.74e-03	-5.57e-03	-1.09e-02	3.12e-02	1.94e-02
## 1748	-2.99e-03	7.09e-03	3.69e-03	-4.89e-03	3.38e-03	5.28e-03	1.30e-03
## 1749	5.31e-05	-6.52e-04	-1.56e-04	-4.46e-04	-4.22e-04	-6.29e-04	1.22e-03
## 1750	-1.81e-03	2.06e-03	-1.53e-03	-1.94e-03	2.08e-03	2.35e-03	-2.01e-03
## 1751	-3.70e-03	9.34e-03	-1.53e-02	8.88e-03	4.01e-03	-1.69e-02	2.58e-03
## 1752	-5.57e-03	7.94e-03	5.68e-03	6.46e-03	-5.30e-03	-7.01e-03	-6.05e-03
## 1753	-5.40e-03	-6.50e-04	-1.70e-03	5.33e-03	4.69e-03	-2.90e-03	5.14e-03
## 1754	2.73e-03	1.91e-03	-2.73e-04	-6.18e-04	-4.28e-04	-5.50e-04	3.23e-04
## 1755	-7.65e-04	-4.58e-03	-1.13e-03	-1.63e-03	-1.52e-03	-1.98e-03	-2.03e-03
## 1756	4.30e-03	8.30e-03	3.90e-03	4.98e-03	-5.64e-03	4.07e-03	2.51e-03
## 1757	1.18e-03	-4.26e-04	-1.66e-05	-8.85e-05	-1.35e-05	1.06e-05	-7.47e-05
## 1758	1.03e-02	-3.14e-03	-1.82e-02	9.08e-03	1.37e-02	7.90e-03	-1.97e-02
## 1759	-6.12e-03	2.86e-02	7.94e-03	1.03e-02	4.70e-03	9.54e-03	3.75e-03
## 1760	-3.03e-03	-3.49e-03	-4.31e-03	1.54e-03	2.13e-03	1.76e-03	-4.71e-03
## 1761	2.21e-03	-5.58e-03	-4.73e-03	-1.00e-02	-4.43e-03	1.17e-02	-2.30e-03
## 1762	-1.41e-03	-2.93e-03	-2.33e-04	-4.70e-04	-6.11e-04	-4.50e-04	-3.13e-04
## 1763	8.05e-05	-6.88e-04	-1.16e-04	-4.55e-04	-2.35e-05	-2.92e-04	7.78e-05
## 1764	-2.57e-03	4.82e-03	2.45e-03	2.92e-03	-2.59e-03	2.83e-03	2.69e-03
## 1765	1.07e-03	-7.40e-04	-4.49e-03	7.34e-03	-6.86e-03	5.98e-03	1.34e-02
## 1766	-1.02e-02	2.13e-02	1.99e-02	3.62e-02	2.05e-02	-1.40e-02	1.26e-02
## 1767	1.38e-02	9.95e-04	-6.09e-03	-5.82e-04	-9.70e-03	-3.14e-03	9.48e-03
## 1768	1.38e-02	1.26e-03	-7.35e-03	-5.42e-03	-1.01e-02	-6.85e-03	2.08e-02
## 1769	2.00e-03	1.45e-03	-2.05e-04	-2.07e-04	-6.34e-05	-1.53e-04	3.65e-05

## 1770	-3.39e-03	1.46e-02	6.35e-03	-1.84e-02	3.53e-03	8.81e-03	1.82e-03
## 1771	1.02e-03	-3.07e-03	9.25e-03	-4.94e-03	-1.12e-03	-3.72e-03	-1.38e-04
## 1772	1.35e-03	-5.53e-04	-1.03e-05	-2.71e-04	-2.79e-05	-3.60e-04	-2.18e-04
## 1773	1.47e-02	1.43e-02	7.58e-03	8.86e-03	4.60e-03	-1.85e-02	3.07e-03
## 1774	-4.06e-03	1.41e-03	-3.63e-04	-5.48e-04	-3.76e-04	-9.01e-05	9.95e-05
## 1775	-1.82e-02	-2.73e-02	-3.57e-02	-4.43e-02	1.14e-02	1.19e-02	-3.27e-02
## 1776	7.86e-03	2.64e-02	2.35e-03	-6.42e-04	2.21e-03	-1.82e-03	5.99e-03
## 1777	1.86e-03	1.28e-03	-8.26e-03	1.03e-02	-7.49e-03	1.20e-02	-3.19e-03
## 1778	2.00e-02	2.02e-02	9.15e-03	8.83e-03	9.00e-03	-2.89e-02	1.16e-02
## 1779	1.48e-02	8.61e-04	-9.83e-03	-7.65e-03	-7.14e-03	-6.51e-03	-1.52e-02
## 1780	9.40e-04	2.74e-02	7.09e-03	8.64e-03	8.67e-03	9.27e-03	1.10e-02
## 1781	-2.88e-03	-2.60e-03	1.86e-03	2.09e-03	1.45e-03	1.26e-03	2.11e-03
## 1782	3.41e-02	2.80e-02	2.60e-02	-2.55e-02	3.61e-02	4.34e-02	-3.15e-02
## 1783	6.24e-03	-7.19e-03	1.76e-02	-2.45e-02	-1.19e-02	1.50e-02	-7.13e-03
## 1784	4.35e-04	3.54e-04	-4.84e-06	-6.77e-06	-3.07e-05	-5.08e-05	3.41e-05
## 1785	-1.81e-03	3.10e-03	-8.97e-03	6.82e-03	5.00e-03	3.84e-03	3.27e-03
## 1786	1.95e-02	4.17e-04	-1.10e-02	-9.45e-03	-1.43e-02	-9.29e-03	-2.41e-02
## 1787	-2.94e-03	3.46e-03	-3.82e-03	-3.69e-03	-5.02e-03	4.41e-03	1.93e-03
## 1788	8.17e-03	6.45e-03	-8.05e-03	-9.93e-03	4.25e-03	5.28e-03	-1.34e-02
## 1789	-4.19e-03	1.61e-03	-3.03e-04	-5.01e-04	-3.60e-04	-5.65e-05	1.97e-04
## 1790	-4.19e-03	-4.28e-03	2.56e-03	2.09e-03	1.84e-03	1.62e-03	3.10e-03
## 1791	-1.46e-02	2.47e-03	-1.09e-02	-8.46e-03	2.27e-02	-7.60e-03	-2.61e-02
## 1792	2.09e-02	1.74e-02	7.38e-03	7.51e-03	1.14e-02	-2.54e-02	-1.99e-02
## 1793	-1.57e-04	-2.16e-04	-1.74e-05	6.65e-05	5.27e-05	1.32e-04	-2.25e-05
## 1794	5.31e-03	-2.44e-03	-4.41e-04	-5.93e-04	-3.48e-04	-5.97e-04	-8.88e-04
## 1795	-1.42e-02	1.08e-02	-5.48e-03	2.89e-02	-9.34e-03	-5.94e-03	1.29e-02
## 1796	-5.27e-03	2.57e-02	6.62e-03	8.75e-03	4.29e-03	8.67e-03	2.34e-03
## 1797	-2.18e-02	2.66e-03	1.51e-02	1.06e-02	1.07e-02	7.96e-03	1.76e-02
## 1798	2.30e-03	-1.27e-03	-8.37e-03	-6.11e-03	-7.71e-03	1.04e-02	5.58e-03
## 1799	4.72e-04	-3.81e-03	-5.05e-03	-4.40e-03	-4.04e-03	-3.10e-03	6.37e-03
## 1800	-1.13e-03	-2.83e-03	-2.88e-04	-5.76e-04	-8.67e-04	-1.40e-03	-9.71e-04
## 1801	-4.70e-03	-8.01e-03	3.83e-03	2.87e-03	5.56e-03	-9.28e-03	-4.17e-03
## 1802	1.30e-03	-3.87e-04	-2.14e-05	1.05e-04	9.02e-05	1.30e-04	-4.05e-06
## 1803	1.50e-02	5.06e-03	-9.41e-03	-9.46e-03	2.73e-02	-8.61e-03	-1.68e-02
## 1804	-1.58e-02	3.61e-03	2.44e-02	-8.84e-03	-8.53e-03	-5.98e-03	-1.48e-02
## 1805	-8.68e-03	-3.56e-03	-1.25e-02	-5.05e-03	-1.26e-02	-2.42e-03	-2.20e-02
## 1806	-8.37e-05	3.63e-04	7.15e-05	2.02e-04	2.51e-04	3.15e-04	-5.07e-04
## 1807	1.74e-02	-2.69e-04	1.63e-02	7.88e-03	-3.67e-02	4.17e-03	2.08e-02
## 1808	-2.59e-02	-5.45e-03	1.35e-02	9.22e-03	-2.09e-02	1.88e-02	-7.56e-03
## 1809	-3.81e-03	1.10e-02	4.12e-03	6.44e-03	-2.58e-02	-2.73e-02	-2.11e-02
## 1810	-3.72e-04	-8.54e-04	-8.40e-05	4.19e-04	3.05e-04	6.88e-04	1.65e-04
## 1811	3.02e-03	1.76e-03	-3.44e-04	-7.11e-04	-5.48e-04	-3.45e-04	1.59e-04
## 1812	2.19e-04	-6.34e-03	-1.95e-03	-2.30e-03	-2.04e-03	-2.18e-03	-2.72e-03
## 1813	-5.03e-04	4.42e-03	-2.71e-03	8.20e-03	1.21e-02	8.48e-03	-1.51e-03
## 1814	2.55e-03	4.32e-03	1.22e-02	9.56e-03	8.57e-03	4.90e-03	9.49e-03
## 1815	6.39e-05	4.08e-06	1.30e-04	-2.90e-04	1.12e-04	1.24e-04	1.64e-04
## 1816	-6.20e-03	2.59e-02	7.65e-03	1.15e-02	5.94e-03	8.58e-03	3.61e-03
## 1817	-9.79e-03	-4.81e-03	-1.45e-02	-8.56e-03	-1.59e-02	-4.00e-03	-2.44e-02
## 1818	-1.19e-02	-2.99e-03	-1.82e-02	-1.01e-02	-1.48e-02	-9.20e-03	2.04e-02
## 1819	2.24e-02	5.99e-03	2.70e-02	-1.10e-02	-1.08e-02	-9.11e-03	-1.68e-02

## 1820	3.88e-03	2.64e-03	-4.85e-04	-1.04e-03	-6.62e-04	-5.05e-04	9.39e-05
## 1821	1.51e-02	1.90e-02	-1.57e-02	8.01e-03	3.54e-03	5.86e-03	1.81e-03
## 1822	1.71e-03	1.72e-03	-7.08e-03	9.97e-03	1.33e-02	7.17e-03	1.82e-02
## 1823	-2.24e-03	-9.80e-04	9.74e-03	-1.65e-02	1.09e-02	8.70e-03	-1.19e-02
## 1824	5.01e-03	-2.16e-03	-4.90e-04	-6.48e-04	-5.04e-04	-7.88e-04	-8.85e-04
## 1825	2.34e-02	8.44e-04	1.29e-02	7.59e-03	9.37e-03	5.75e-03	1.92e-02
## 1826	2.65e-05	3.43e-05	-2.24e-06	-1.66e-05	-9.81e-06	-2.42e-05	-5.50e-06
## 1827	1.62e-02	4.23e-03	-1.55e-02	-1.63e-02	3.52e-03	-1.98e-02	1.07e-04
## 1828	1.05e-02	-1.70e-02	-1.99e-02	-9.63e-03	-2.34e-02	-8.76e-03	2.72e-02
## 1829	-2.47e-03	1.28e-02	5.05e-03	-1.54e-02	3.75e-03	8.40e-03	1.15e-04
## 1830	9.80e-03	-4.45e-02	-1.09e-02	-1.49e-02	-8.15e-03	-1.07e-02	-2.77e-03
## 1831	-6.53e-03	2.90e-02	7.75e-03	1.04e-02	5.09e-03	8.94e-03	3.86e-03
## 1832	2.13e-02	1.29e-02	-1.37e-02	-8.21e-03	-1.93e-02	3.14e-02	1.03e-02
## 1833	5.41e-04	3.15e-02	8.65e-03	1.05e-02	8.28e-03	9.26e-03	1.33e-02
## 1834	4.59e-03	1.50e-03	-1.33e-02	9.44e-03	1.54e-02	6.18e-03	2.24e-02
## 1835	1.38e-02	-3.95e-03	-1.41e-03	-9.00e-04	-1.61e-04	1.64e-03	-2.67e-04
## 1836	-9.04e-03	2.40e-02	-6.60e-02	2.13e-02	2.35e-03	1.64e-02	-2.15e-03
## 1837	2.35e-03	-1.05e-03	-1.65e-04	-2.58e-04	-2.42e-04	-5.63e-04	-4.80e-04
## 1838	-6.89e-03	7.82e-03	6.95e-03	-1.33e-02	-1.05e-02	8.45e-03	-1.05e-02
## 1839	3.55e-03	2.16e-03	-5.76e-04	-1.16e-03	-5.76e-04	-5.53e-04	2.52e-05
## 1840	1.60e-03	-1.80e-03	1.74e-03	1.75e-03	1.92e-03	-2.38e-03	3.00e-03
## 1841	-1.80e-03	1.23e-03	-4.55e-03	4.52e-03	-5.90e-03	4.17e-03	3.43e-03
## 1842	-5.95e-04	-2.51e-03	-6.75e-04	-4.41e-04	-4.09e-04	-1.78e-04	-8.29e-04
## 1843	1.85e-03	1.41e-03	-2.34e-04	-7.39e-04	-3.92e-04	-5.60e-04	-6.42e-06
## 1844	-6.53e-04	-1.16e-03	-1.49e-04	-1.09e-04	-1.89e-04	-1.75e-04	-3.90e-04
## 1845	1.14e-02	-4.46e-02	-1.31e-02	-1.59e-02	-7.95e-03	-1.43e-02	-5.99e-03
## 1846	8.27e-03	6.54e-03	-8.89e-03	-1.13e-02	-1.29e-02	4.71e-03	1.77e-03
## 1847	-4.05e-03	-1.10e-02	-1.05e-02	-1.01e-02	-1.37e-02	-1.15e-02	-1.95e-02
## 1848	9.67e-03	-4.56e-02	-1.27e-02	-1.96e-02	-1.03e-02	-1.69e-02	-5.39e-03
## 1849	9.14e-03	-4.70e-02	-1.30e-02	-2.02e-02	-9.74e-03	-1.70e-02	-5.31e-03
## 1850	-6.55e-03	1.69e-03	3.16e-02	-5.12e-03	2.97e-02	-8.74e-03	-1.72e-02
## 1851	-2.26e-04	-2.11e-04	1.16e-05	2.97e-05	1.98e-05	6.22e-05	3.55e-05
## 1852	2.45e-02	-3.00e-02	3.58e-02	4.27e-02	-1.30e-02	-1.91e-02	-2.14e-03
## 1853	6.46e-03	-6.62e-03	-8.35e-03	2.49e-03	5.56e-03	3.65e-03	-5.06e-03
## 1854	2.35e-02	1.15e-02	-1.73e-02	3.48e-02	-1.23e-02	-1.16e-02	-1.66e-02
## 1855	4.03e-02	1.83e-03	2.21e-02	-1.99e-02	-2.65e-02	-1.71e-02	-3.96e-02
## 1856	3.04e-03	1.85e-03	-3.80e-04	-8.92e-04	-4.42e-04	-3.72e-04	-6.20e-05
## 1857	9.06e-03	-4.64e-02	-1.30e-02	-2.01e-02	-9.63e-03	-1.66e-02	-6.11e-03
## 1858	-1.74e-03	-4.86e-03	-1.08e-02	6.81e-03	-1.27e-02	-1.68e-02	-1.46e-02
## 1859	1.39e-02	-4.84e-03	-1.94e-03	-1.50e-03	-8.76e-04	-1.07e-03	-1.57e-03
## 1860	-9.12e-03	2.28e-02	7.91e-03	1.07e-02	-1.46e-02	1.07e-02	1.25e-02
## 1861	5.73e-03	3.44e-03	-1.52e-02	1.01e-02	2.15e-02	1.28e-02	-8.55e-03
## 1862	1.04e-03	-2.97e-03	8.48e-03	-4.47e-03	8.77e-03	-4.58e-03	-1.15e-03
## 1863	1.41e-02	7.04e-03	2.63e-02	-6.25e-03	-9.98e-03	-7.68e-03	2.30e-02
## 1864	-5.34e-03	2.58e-02	6.68e-03	8.81e-03	4.34e-03	8.73e-03	2.42e-03
## 1865	-4.06e-03	1.42e-03	-2.43e-04	-4.49e-04	-2.76e-04	-7.98e-06	1.91e-04
## 1866	-5.79e-03	2.91e-02	7.66e-03	9.97e-03	4.74e-03	9.49e-03	4.07e-03
## 1867	5.58e-03	-7.55e-03	-9.69e-03	-1.61e-02	1.11e-02	7.95e-03	1.62e-02
## 1868	8.91e-04	8.90e-04	-7.77e-05	-4.31e-04	-2.65e-04	-4.50e-04	-1.02e-05
## 1869	4.80e-03	-5.08e-03	2.37e-03	2.51e-03	3.19e-03	-7.05e-03	4.94e-03

## 1870	2.89e-03	1.94e-03	-2.66e-03	-2.13e-03	3.83e-03	-1.60e-03	-2.55e-03
## 1871	3.11e-05	-2.21e-04	-4.62e-05	-1.55e-04	-1.06e-05	-9.88e-05	1.63e-05
## 1872	4.92e-03	7.56e-03	1.85e-02	1.19e-02	2.24e-02	1.46e-02	-5.52e-03
## 1873	-5.17e-03	-4.58e-03	3.56e-03	3.30e-03	2.35e-03	1.97e-03	4.65e-03
## 1874	-4.39e-04	-8.76e-03	-2.37e-03	-4.09e-03	-3.04e-03	-3.14e-03	-3.13e-03
## 1875	1.41e-02	6.18e-04	-8.35e-03	-6.00e-03	-6.67e-03	-5.57e-03	-1.31e-02
## 1876	-1.14e-02	1.60e-03	-3.80e-03	-1.26e-03	-5.77e-03	-2.56e-03	-1.43e-02
## 1877	1.41e-03	-6.04e-03	-1.61e-02	-1.91e-02	8.18e-03	8.69e-03	8.87e-03
## 1878	-6.29e-03	1.18e-02	7.01e-03	-1.38e-02	6.19e-03	7.73e-03	7.40e-03
## 1879	-1.52e-02	3.29e-02	2.36e-02	3.77e-02	-2.19e-02	4.20e-02	3.12e-02
## 1880	-2.38e-03	4.31e-03	-5.04e-03	-4.22e-03	2.73e-03	4.79e-03	8.93e-04
## 1881	-3.30e-03	8.90e-04	-9.27e-03	-9.03e-03	4.72e-03	-9.61e-03	5.05e-03
## 1882	6.04e-03	-5.32e-03	-7.71e-03	2.77e-03	5.33e-03	3.44e-03	-5.09e-03
## 1883	-1.75e-02	-3.89e-03	-1.30e-02	-1.09e-02	-1.00e-02	-6.62e-03	-1.47e-02
## 1884	-4.02e-03	9.91e-03	-8.74e-03	7.57e-03	-9.66e-03	7.69e-03	3.34e-03
## 1885	2.82e-03	4.47e-03	-2.04e-02	9.82e-03	7.39e-03	8.80e-03	7.02e-03
## 1886	1.94e-03	2.82e-02	5.88e-03	1.02e-02	9.84e-03	1.04e-02	7.54e-03
## 1887	9.63e-03	-4.49e-02	-1.13e-02	-1.55e-02	-7.80e-03	-1.07e-02	-3.25e-03
## 1888	4.48e-03	1.60e-03	-3.60e-02	3.17e-03	1.62e-02	9.68e-03	-2.80e-02
## 1889	2.06e-02	9.80e-03	-2.06e-02	-2.17e-02	5.18e-03	8.77e-03	7.00e-03
## 1890	-3.37e-03	9.03e-03	1.10e-02	7.14e-03	1.36e-02	8.16e-03	-1.55e-02
## 1891	-2.47e-03	-2.81e-03	1.74e-03	1.96e-03	-5.05e-03	1.34e-03	2.43e-03
## 1892	4.40e-03	3.63e-04	-3.69e-03	-3.46e-03	-4.69e-03	-4.22e-03	8.12e-04
## 1893	2.13e-02	-4.31e-02	3.72e-02	-1.74e-02	-1.04e-02	-1.04e-02	-3.20e-03
## 1894	1.45e-02	-3.01e-04	-6.70e-03	-4.49e-03	-9.44e-03	-3.60e-03	-1.76e-02
## 1895	-2.14e-02	-1.45e-02	-2.87e-02	7.68e-03	-2.80e-02	1.11e-02	3.01e-02
## 1896	-3.50e-04	-1.29e-03	-1.90e-04	6.14e-04	4.67e-04	1.12e-03	2.77e-04
## 1897	-6.79e-04	-3.00e-03	-5.98e-04	-2.47e-04	-2.96e-04	1.27e-04	-8.20e-04
## 1898	-3.49e-03	-3.24e-03	2.34e-03	2.63e-03	1.89e-03	1.68e-03	2.78e-03
## 1899	-2.64e-02	-7.48e-03	1.01e-02	1.77e-03	2.06e-02	1.10e-02	-1.98e-02
## 1900	-1.21e-02	1.61e-02	2.12e-02	-2.48e-02	-3.12e-02	4.46e-02	-4.41e-02
## 1901	8.69e-03	-3.68e-03	-7.94e-04	-1.75e-03	-1.43e-03	-1.63e-03	-1.29e-03
## 1902	-2.07e-04	-3.65e-04	-5.53e-03	6.32e-03	4.80e-03	-6.41e-03	3.52e-03
## 1903	-2.56e-03	-5.04e-04	-2.25e-02	-2.27e-02	8.36e-03	-1.90e-02	-2.04e-02
## 1904	2.65e-03	1.90e-03	-1.78e-04	-4.83e-04	-4.00e-04	-4.52e-04	2.91e-04
## 1905	-5.36e-04	-2.95e-03	-5.14e-04	1.03e-05	-1.59e-04	1.28e-04	-3.54e-04
## 1906	3.55e-03	4.66e-03	-1.98e-02	1.13e-02	7.61e-03	9.33e-03	7.78e-03
## 1907	-4.46e-04	2.56e-03	4.63e-05	8.22e-04	5.14e-04	1.12e-03	1.22e-03
## 1908	-7.82e-04	-1.25e-03	-8.80e-05	-2.57e-04	-2.24e-04	-3.00e-04	-2.44e-04
## 1909	1.79e-03	1.08e-03	-4.41e-03	9.82e-03	-6.94e-03	1.02e-02	-5.99e-03
## 1910	2.64e-02	1.82e-02	6.07e-03	9.86e-03	7.99e-03	-2.59e-02	-2.94e-02
## 1911	-5.33e-03	1.17e-02	6.87e-03	8.40e-03	4.75e-03	-1.49e-02	3.34e-03
## 1912	-1.37e-02	7.72e-03	2.32e-02	-1.85e-02	3.46e-02	-1.44e-02	-2.60e-02
## 1913	-2.69e-03	-3.18e-03	2.20e-03	2.34e-03	1.48e-03	2.08e-03	3.07e-03
## 1914	-2.30e-03	3.32e-03	3.89e-03	-5.80e-03	2.96e-03	-7.19e-03	9.75e-04
## 1915	7.48e-03	-3.87e-02	-1.13e-02	-1.85e-02	4.27e-02	-1.78e-02	-8.96e-03
## 1916	-1.73e-03	-6.42e-03	-1.46e-03	-2.90e-03	-2.07e-03	-3.04e-03	-2.44e-03
## 1917	-8.90e-04	-1.64e-03	7.47e-04	-1.87e-03	5.69e-04	6.85e-04	6.12e-04
## 1918	1.72e-02	2.49e-02	8.04e-03	9.04e-03	7.55e-03	7.39e-03	-2.37e-02
## 1919	6.77e-04	7.88e-04	-1.26e-05	-3.07e-04	-2.32e-04	-3.81e-04	-9.76e-06

## 1920	1.41e-02	3.95e-03	1.68e-02	9.73e-03	1.64e-02	5.36e-03	-2.67e-02
## 1921	1.35e-03	2.56e-03	2.05e-03	2.37e-03	-1.26e-03	-1.17e-03	-1.66e-03
## 1922	-9.13e-03	-5.02e-04	-2.60e-02	-1.38e-02	2.04e-02	-1.54e-02	7.39e-03
## 1923	-1.06e-02	1.67e-02	-3.15e-02	-2.02e-02	1.82e-02	3.65e-02	4.98e-03
## 1924	1.01e-02	2.95e-02	4.22e-03	1.13e-02	1.22e-02	1.61e-02	9.83e-03
## 1925	-2.35e-02	-3.85e-03	1.15e-02	7.89e-03	1.54e-02	8.99e-03	3.54e-02
## 1926	-3.21e-04	-8.69e-03	-2.42e-03	-4.16e-03	-3.18e-03	-3.25e-03	-3.09e-03
## 1927	3.32e-03	-7.50e-03	-6.71e-03	1.10e-02	-5.04e-03	-1.10e-02	-9.87e-04
## 1928	8.61e-05	-6.69e-03	-1.94e-03	-2.33e-03	-2.03e-03	-2.22e-03	-2.65e-03
## 1929	-1.15e-03	-4.00e-03	-9.20e-04	-1.37e-03	-9.77e-04	-5.27e-04	-9.54e-04
## 1930	1.50e-02	2.02e-02	2.84e-02	3.35e-02	-7.00e-03	-9.67e-03	-1.19e-02
## 1931	-8.93e-04	-1.30e-03	-1.22e-04	-3.73e-04	-3.11e-04	-3.48e-04	-4.19e-04
## 1932	7.16e-04	-4.89e-04	7.49e-04	6.67e-04	-7.15e-04	8.51e-04	-3.52e-04
## 1933	-4.11e-04	-8.14e-04	-3.73e-05	4.90e-04	2.96e-04	7.14e-04	1.68e-04
## 1934	-1.04e-04	-6.86e-03	-1.76e-03	-2.11e-03	-2.08e-03	-2.17e-03	-2.60e-03
## 1935	-1.96e-05	-8.28e-03	-1.86e-03	-3.34e-03	-3.13e-03	-2.80e-03	-2.20e-03
## 1936	-3.71e-03	-1.88e-03	2.70e-03	2.33e-03	3.92e-03	3.22e-03	-2.18e-03
## 1937	-5.64e-03	2.77e-02	5.94e-03	9.78e-03	8.60e-03	1.04e-02	1.10e-02
## 1938	7.09e-04	7.42e-04	3.71e-05	-1.69e-04	-1.60e-04	-3.09e-04	1.12e-04
## 1939	2.79e-02	3.14e-02	6.72e-03	8.49e-03	3.79e-03	7.99e-03	2.50e-03
## 1940	-5.91e-03	-1.82e-02	-1.90e-02	-2.21e-02	-1.53e-02	-1.74e-02	-1.40e-02
## 1941	3.89e-03	2.40e-03	-7.29e-04	-1.31e-03	-7.49e-04	-6.92e-04	-2.12e-05
## 1942	4.09e-03	1.63e-03	1.69e-02	1.01e-02	-1.31e-02	8.63e-03	-1.04e-02
## 1943	6.53e-04	-1.41e-03	-1.06e-03	4.56e-03	-2.47e-03	-3.42e-03	4.68e-03
## 1944	1.42e-02	1.33e-03	-7.15e-03	-6.52e-03	-1.05e-02	-6.87e-03	-2.03e-02
## 1945	1.25e-04	-2.83e-04	1.48e-03	-4.38e-04	1.72e-03	-4.16e-04	-4.15e-05
## 1946	-3.43e-03	-2.83e-03	1.59e-02	-2.37e-02	-3.24e-02	-1.83e-02	2.75e-02
## 1947	-5.47e-03	1.75e-02	6.04e-03	8.96e-03	-1.82e-02	7.53e-03	3.83e-03
## 1948	1.67e-02	-1.73e-02	1.40e-02	1.09e-02	-2.45e-02	-3.40e-02	3.15e-02
## 1949	1.45e-02	7.21e-03	2.53e-02	-7.70e-03	-6.57e-03	-6.89e-03	-1.45e-02
## 1950	-1.40e-02	3.27e-04	-6.03e-03	-3.45e-03	-4.60e-03	-2.89e-03	-1.05e-02
## 1951	5.25e-03	4.32e-03	1.93e-02	1.04e-02	1.97e-02	1.01e-02	-7.95e-03
## 1952	1.60e-04	-6.25e-04	-4.34e-04	-1.54e-03	-9.08e-04	3.85e-03	-1.20e-03
## 1953	6.61e-03	8.31e-03	4.74e-03	-6.98e-03	2.84e-03	3.71e-03	4.41e-04
## 1954	1.54e-02	-9.97e-03	-2.38e-02	8.37e-03	-2.91e-02	7.71e-03	1.68e-02
## 1955	3.86e-03	-2.88e-03	-1.36e-02	1.10e-02	7.07e-03	-1.63e-02	5.69e-03
## 1956	9.12e-03	-1.07e-02	-1.15e-02	1.10e-02	-1.47e-02	-1.87e-02	1.23e-02
## 1957	6.48e-03	6.42e-03	-6.36e-03	-6.50e-03	3.23e-03	5.67e-03	1.26e-03
## 1958	-1.96e-02	-1.44e-02	1.30e-02	-2.91e-02	-1.66e-02	1.90e-02	-8.40e-03
## 1959	-1.95e-02	-7.69e-05	1.25e-02	1.15e-02	1.14e-02	8.83e-03	1.59e-02
## 1960	-1.83e-04	2.36e-04	-1.68e-04	-1.80e-04	1.33e-04	2.07e-04	6.55e-05
## 1961	1.65e-02	-3.50e-02	-1.99e-02	4.32e-02	-1.14e-02	-2.21e-02	-2.38e-03
## 1962	1.69e-02	2.10e-02	-1.87e-02	8.02e-03	4.24e-03	4.45e-03	2.52e-04
## 1963	-3.95e-02	-1.89e-02	3.24e-02	3.63e-02	3.93e-02	3.67e-02	-4.47e-02
## 1964	-1.90e-02	-1.16e-03	-8.59e-03	1.11e-02	-7.66e-03	1.44e-02	-1.95e-03
## 1965	-1.03e-03	7.46e-04	3.64e-03	-3.21e-03	-1.90e-03	5.42e-03	-2.25e-03
## 1966	1.49e-02	9.01e-04	-8.16e-03	-4.41e-03	-9.19e-03	-5.47e-03	1.70e-02
## 1967	-1.17e-03	-3.68e-03	-7.12e-04	-1.08e-03	-8.33e-04	-3.55e-04	-1.03e-03
## 1968	1.47e-02	2.84e-03	1.53e-02	1.23e-02	1.66e-02	8.46e-03	2.92e-02
## 1969	5.26e-03	-4.36e-03	-6.55e-03	2.41e-03	1.76e-03	1.53e-03	2.31e-03

##	1970	-1.39e-02	-1.16e-03	-9.06e-03	-5.63e-03	-7.00e-03	-3.37e-03	-1.30e-02
##	1971	-4.64e-04	-8.89e-04	-1.61e-04	2.28e-04	2.23e-04	5.97e-04	-1.50e-05
##	1972	-7.66e-03	1.23e-03	-1.35e-03	1.81e-03	-4.15e-03	-1.47e-04	7.08e-03
##	1973	1.34e-02	-2.91e-03	-2.57e-02	6.26e-03	1.52e-02	5.29e-03	-2.76e-02
##	1974	1.45e-03	-2.04e-03	1.27e-03	-2.52e-03	1.21e-03	9.05e-04	1.84e-03
##	1975	1.02e-04	1.00e-04	-6.87e-06	-1.63e-05	-1.03e-05	-3.11e-05	-5.56e-06
##	1976	2.51e-02	-1.77e-02	-3.94e-02	4.18e-03	-3.76e-02	8.75e-03	3.38e-02
##	1977	-1.01e-02	1.29e-02	-3.60e-02	-2.25e-02	1.96e-02	4.05e-02	8.83e-03
##	1978	-4.44e-04	-4.54e-03	-9.00e-04	-1.21e-03	-1.48e-03	-1.63e-03	-1.60e-03
##	1979	1.23e-02	7.15e-03	6.26e-03	-1.11e-02	1.02e-02	-9.87e-03	-1.06e-02
##	1980	-1.38e-02	6.57e-03	2.32e-02	-5.81e-03	-1.03e-02	-5.43e-03	-2.16e-02
##	1981	-5.81e-03	-1.06e-02	3.42e-02	-2.39e-02	-1.52e-02	-1.71e-02	-1.26e-02
##	1982	3.12e-04	9.99e-06	-8.09e-04	4.15e-03	4.40e-03	-2.01e-03	5.33e-03
##	1983	2.54e-02	1.28e-02	2.61e-02	-1.17e-02	2.93e-02	-1.32e-02	2.30e-02
##	1984	-7.25e-03	1.66e-02	1.86e-02	3.84e-02	1.72e-02	-3.00e-02	1.14e-02
##	1985	-3.97e-04	-1.25e-03	5.95e-03	-4.72e-03	6.99e-03	-3.98e-03	-6.25e-03
##	1986	-1.01e-02	-1.39e-03	-7.56e-03	-1.66e-03	-7.07e-03	-1.60e-03	1.69e-02
##	1987	6.84e-03	9.83e-03	-7.29e-03	6.20e-03	-6.04e-03	7.36e-03	-6.21e-03
##	1988	-2.14e-02	-7.14e-03	-2.86e-02	7.34e-03	1.28e-02	9.45e-03	-2.67e-02
##	1989	9.86e-03	-4.38e-02	-1.33e-02	-1.78e-02	-7.83e-03	-1.45e-02	-7.70e-03
##	1990	-7.21e-04	-2.33e-03	-5.11e-04	-3.38e-04	-3.10e-04	-1.48e-04	-6.89e-04
##	1991	1.33e-02	-7.01e-04	-7.24e-03	-3.91e-03	-5.19e-03	-2.26e-03	-1.03e-02
##	1992	6.68e-03	-7.00e-03	-8.90e-03	2.56e-03	4.11e-03	2.97e-03	-9.31e-03
##	1993	4.95e-04	-5.70e-05	9.36e-03	8.10e-03	-8.58e-04	-3.52e-03	1.36e-03
##	1994	-4.68e-03	-9.95e-03	-9.04e-03	-9.25e-03	-1.78e-02	-1.29e-02	2.21e-02
##	1995	-1.41e-02	-2.85e-03	-1.37e-02	-8.39e-03	-9.35e-03	-5.60e-03	-1.58e-02
##	1996	-2.19e-02	-3.98e-03	1.30e-02	1.01e-02	-3.33e-02	6.85e-03	1.87e-02
##	1997	-2.62e-04	-6.18e-03	-1.58e-03	-1.95e-03	-1.97e-03	-2.12e-03	-2.52e-03
##	1998	-2.07e-04	-1.53e-04	1.18e-03	-7.87e-04	1.42e-03	-7.12e-04	-1.28e-03
##	1999	5.06e-02	-1.45e-02	-4.22e-02	-3.47e-02	1.04e-02	-4.57e-02	-2.66e-03
##	2000	-1.38e-02	2.85e-03	-1.18e-02	-5.10e-03	2.38e-02	-7.26e-03	1.77e-02
##	2001	-9.12e-03	-7.11e-03	1.92e-02	-2.79e-02	-3.91e-02	-2.83e-02	7.76e-03
##	2002	-3.96e-02	-4.68e-02	-9.90e-03	-1.56e-02	-6.93e-03	-1.22e-02	-1.98e-03
##	2003	1.26e-02	2.06e-03	-5.74e-03	-3.22e-03	-8.16e-03	-5.05e-03	-1.82e-02
##	2004	-1.87e-02	1.48e-02	-9.59e-03	-8.56e-03	2.69e-02	3.03e-02	-1.83e-02
##	2005	-5.07e-03	-4.33e-03	3.23e-03	3.24e-03	4.11e-03	2.84e-03	7.22e-03
##	2006	-1.42e-02	7.88e-04	-7.41e-03	-4.26e-03	-5.74e-03	-3.54e-03	-1.14e-02
##	2007	3.00e-03	1.42e-03	2.97e-03	-2.98e-03	-2.49e-03	-3.17e-03	-2.86e-03
##	2008	-1.50e-02	2.47e-02	2.36e-02	4.00e-02	3.09e-02	-1.93e-02	2.97e-02
##	2009	-4.11e-04	-9.11e-04	-5.58e-05	1.52e-05	-1.11e-04	-2.65e-05	-2.15e-04
##	2010	-2.78e-03	3.91e-03	-1.03e-02	7.61e-03	-1.15e-02	-1.07e-02	3.26e-03
##	2011	1.41e-02	2.26e-02	7.97e-03	1.00e-02	4.77e-03	5.93e-03	3.23e-03
##	2012	-1.33e-02	3.10e-05	-7.60e-03	-5.77e-03	-1.01e-02	-5.27e-03	-1.94e-02
##	2013	2.45e-04	2.71e-04	2.01e-05	-6.61e-05	-8.26e-05	-1.08e-04	2.12e-05
##	2014	8.40e-03	-4.22e-02	-1.14e-02	-1.50e-02	-6.63e-03	-1.38e-02	-5.79e-03
##	2015	-4.05e-03	-5.40e-03	1.50e-02	-3.79e-02	1.19e-02	-4.04e-02	4.59e-03
##	2016	-4.84e-03	5.84e-03	-5.22e-03	-6.10e-03	5.79e-03	6.39e-03	-5.79e-03
##	2017	2.32e-03	1.36e-03	4.04e-04	6.46e-04	7.77e-05	4.21e-04	-1.23e-04
##	2018	-2.36e-02	-8.42e-03	-3.00e-02	8.98e-03	1.50e-02	1.02e-02	2.96e-02
##	2019	-1.16e-02	3.48e-03	1.94e-02	-2.52e-03	-4.08e-03	-1.49e-04	-8.58e-03

##	2020	-2.19e-02	-4.15e-03	1.19e-02	1.09e-02	-2.05e-02	1.98e-02	-8.38e-03
##	2021	-3.07e-05	7.02e-04	-7.48e-06	3.46e-04	-4.34e-05	2.14e-04	-1.79e-04
##	2022	1.55e-04	-8.45e-04	-1.90e-03	7.35e-03	1.05e-02	-6.42e-03	-1.54e-03
##	2023	-1.05e-03	-2.33e-03	-4.25e-04	-1.69e-04	-2.12e-04	-2.75e-04	-6.10e-04
##	2024	-5.24e-04	-1.10e-03	-1.54e-04	4.25e-04	3.28e-04	9.34e-04	2.53e-05
##	2025	6.20e-02	1.24e-02	1.56e-02	3.20e-02	-5.02e-02	-4.33e-02	-5.84e-02
##	2026	1.98e-02	8.63e-03	-1.83e-02	-1.68e-02	3.14e-03	8.20e-03	-1.53e-04
##	2027	3.10e-03	1.08e-02	1.07e-02	1.29e-02	8.83e-03	9.42e-03	7.98e-03
##	2028	1.87e-02	1.24e-04	-9.82e-03	-6.60e-03	-1.62e-02	-8.55e-03	1.26e-02
##	2029	1.17e-05	2.77e-02	8.24e-03	1.37e-02	1.07e-02	1.07e-02	9.82e-03
##	2030	-1.44e-03	1.62e-03	-2.07e-03	-1.96e-03	-2.69e-03	2.36e-03	9.47e-04
##	2031	-4.16e-03	5.33e-03	-6.71e-03	-7.54e-03	3.66e-03	5.10e-03	3.90e-03
##	2032	2.48e-02	2.81e-03	1.09e-02	7.25e-03	1.05e-02	8.10e-04	1.69e-02
##	2033	-2.51e-02	1.81e-03	1.39e-02	7.60e-03	9.83e-03	4.27e-03	2.03e-02
##	2034	2.32e-02	-5.24e-04	-1.48e-02	-8.26e-03	-1.79e-02	-1.01e-02	9.47e-03
##	2035	-1.61e-02	4.00e-03	2.48e-02	-8.49e-03	-8.92e-03	-6.07e-03	-1.50e-02
##	2036	-4.40e-03	-4.16e-03	3.22e-03	2.92e-03	1.81e-03	1.93e-03	4.10e-03
##	2037	-3.73e-04	-1.47e-03	-3.54e-04	4.06e-04	4.29e-04	1.23e-03	2.54e-05
##	2038	1.22e-02	6.75e-03	-1.19e-02	7.39e-03	-1.43e-02	-1.52e-02	2.03e-03
##	2039	-2.27e-02	3.49e-03	1.41e-02	1.04e-02	1.14e-02	5.17e-03	1.55e-02
##	2040	-3.55e-04	-3.36e-03	-9.27e-04	-4.97e-04	-3.98e-04	1.11e-04	-9.31e-04
##	2041	4.06e-04	-1.22e-03	-1.06e-03	5.93e-03	-4.83e-04	-2.12e-03	6.52e-04
##	2042	4.40e-03	1.08e-02	1.07e-02	1.29e-02	8.52e-03	1.04e-02	7.83e-03
##	2043	-5.07e-03	1.00e-02	4.43e-03	-3.44e-02	-2.73e-02	1.46e-02	-2.43e-02
##	2044	1.84e-02	5.39e-03	-9.16e-03	-1.90e-03	1.75e-02	-5.88e-03	9.00e-03
##	2045	1.29e-03	-6.53e-04	-4.44e-03	8.28e-03	-9.14e-03	5.45e-03	9.70e-03
##	2046	1.06e-03	1.77e-03	1.67e-03	1.54e-03	2.08e-03	1.76e-03	-2.52e-03
##	2047	2.77e-03	1.59e-03	-4.37e-04	-9.64e-04	-4.05e-04	-4.38e-04	-8.54e-05
##	2048	7.69e-03	-8.52e-03	1.68e-02	1.01e-02	-1.22e-02	-2.18e-02	-4.92e-03
##	2049	-1.33e-02	7.42e-03	2.46e-02	-1.90e-02	3.52e-02	-1.36e-02	-2.68e-02
##	2050	-3.37e-02	-3.95e-02	-8.87e-03	-1.12e-02	-4.43e-03	-9.91e-03	-3.38e-03
##	2051	7.75e-03	-1.59e-02	1.36e-02	-1.81e-02	-1.01e-02	-1.64e-02	-6.07e-03
##	2052	4.66e-03	2.52e-04	-9.21e-03	1.02e-02	9.54e-03	6.24e-03	1.02e-02
##	2053	-3.75e-02	-1.26e-02	-1.32e-02	4.20e-02	-1.93e-02	3.92e-02	3.62e-02
##	2054	-5.90e-03	-4.85e-03	4.25e-03	3.89e-03	2.83e-03	2.36e-03	5.60e-03
##	2055	1.11e-02	-6.35e-03	-1.77e-02	8.57e-03	-2.12e-02	8.54e-03	-1.67e-02
##	2056	-4.84e-03	-4.62e-03	3.09e-03	2.62e-03	2.06e-03	1.91e-03	3.74e-03
##	2057	1.00e-02	-4.43e-02	-1.46e-02	-2.33e-02	4.67e-02	-1.95e-02	-1.04e-02
##	2058	4.66e-04	-1.75e-04	1.43e-05	-2.11e-05	-5.01e-06	-6.74e-07	-2.61e-05
##	2059	-1.83e-03	1.59e-03	2.18e-03	-1.84e-03	2.54e-03	-1.65e-03	-1.85e-03
##	2060	-3.26e-04	-6.53e-04	-4.71e-05	2.04e-05	-4.61e-05	-4.72e-05	-1.64e-04
##	2061	1.12e-02	4.72e-03	1.71e-02	1.13e-02	1.59e-02	9.24e-03	-2.09e-02
##	2062	4.31e-04	-1.46e-04	1.05e-05	-7.05e-06	-6.60e-06	-1.43e-05	6.44e-06
##	2063	8.14e-04	1.19e-03	-6.12e-03	9.02e-03	-5.68e-03	1.03e-02	-3.02e-03
##	2064	5.72e-03	-1.12e-02	-6.92e-03	-1.08e-02	1.02e-02	-1.27e-02	-1.03e-02
##	2065	1.08e-02	1.23e-02	-4.41e-03	2.74e-02	-8.97e-03	-6.74e-03	1.17e-02
##	2066	-3.77e-02	-3.41e-02	3.73e-02	4.39e-02	-1.39e-02	-2.30e-02	-2.42e-03
##	2067	2.38e-04	1.08e-04	-3.69e-04	2.48e-03	2.52e-03	-1.01e-03	-7.24e-04
##	2068	1.06e-04	2.08e-04	1.50e-05	7.75e-06	2.44e-05	1.85e-05	5.96e-05
##	2069	-6.07e-04	-5.34e-03	-1.38e-03	-1.87e-03	-1.70e-03	-2.13e-03	-2.25e-03

## 2070	3.69e-02	3.60e-02	2.08e-02	3.72e-02	-3.23e-02	3.72e-02	1.59e-02
## 2071	4.00e-03	2.36e-03	2.11e-02	8.59e-03	-1.49e-02	9.50e-03	-7.09e-03
## 2072	-4.28e-03	1.29e-02	5.58e-03	9.96e-03	8.32e-03	-1.08e-02	8.85e-03
## 2073	1.58e-02	-3.14e-04	-1.02e-02	-9.99e-03	-9.10e-03	-7.60e-03	-1.46e-02
## 2074	-3.87e-03	8.56e-03	-1.07e-02	-9.46e-03	4.39e-03	8.85e-03	2.88e-03
## 2075	7.21e-04	-3.01e-03	-2.32e-03	-8.07e-03	1.06e-02	7.26e-03	-3.01e-03
## 2076	6.01e-04	1.26e-03	-6.81e-04	-9.35e-04	-5.78e-04	1.40e-03	-8.38e-04
## 2077	-2.04e-02	-2.77e-03	1.50e-02	1.17e-02	-2.56e-02	8.96e-03	1.94e-02
## 2078	1.18e-02	-5.58e-03	-1.51e-03	-2.31e-03	-2.42e-03	-3.14e-03	-2.47e-03
## 2079	3.20e-04	2.68e-02	7.45e-03	1.26e-02	1.08e-02	1.02e-02	9.64e-03
## 2080	1.71e-02	7.19e-04	-1.16e-02	-1.17e-02	-1.01e-02	-8.96e-03	-1.61e-02
## 2081	-8.23e-03	-3.05e-03	-1.11e-02	-2.75e-03	-1.37e-02	-3.14e-03	1.14e-02
## 2082	2.24e-02	-1.13e-03	-1.53e-02	-1.20e-02	-1.63e-02	-1.04e-02	2.19e-02
## 2083	-9.95e-03	9.74e-03	3.54e-02	3.88e-02	-1.11e-02	-1.88e-02	-6.37e-03
## 2084	1.00e-02	1.64e-02	6.68e-03	8.99e-03	-1.19e-02	8.20e-03	4.67e-03
## 2085	-1.70e-04	-9.69e-05	-1.26e-03	1.99e-03	-1.25e-03	-1.09e-03	1.32e-03
## 2086	-1.04e-03	7.49e-04	7.39e-03	7.47e-03	5.11e-03	-1.33e-02	4.71e-03
## 2087	1.26e-03	1.15e-03	-1.77e-04	-5.50e-04	-2.57e-04	-5.87e-04	-1.98e-05
## 2088	-5.57e-03	-5.33e-03	4.12e-03	2.86e-03	3.76e-03	3.14e-03	-9.11e-03
## 2089	1.35e-02	-6.55e-03	-1.91e-03	-2.61e-03	-2.53e-03	-3.07e-03	-2.89e-03
## 2090	-8.20e-04	-4.79e-03	-1.07e-03	-1.53e-03	-1.61e-03	-1.98e-03	-2.11e-03
## 2091	1.20e-02	1.94e-03	-5.95e-03	-2.51e-03	-7.34e-03	-4.96e-03	1.71e-02
## 2092	-2.17e-04	2.81e-02	7.82e-03	9.10e-03	8.89e-03	9.02e-03	1.23e-02
## 2093	-2.33e-02	-1.21e-02	9.62e-03	1.89e-03	-3.36e-02	1.19e-02	-1.60e-02
## 2094	2.73e-02	-1.82e-02	8.64e-03	-4.55e-02	1.40e-02	1.00e-02	2.73e-02
## 2095	8.50e-03	-4.25e-03	1.50e-02	1.16e-02	1.10e-02	-2.60e-02	1.43e-02
## 2096	3.53e-04	3.39e-03	1.15e-02	8.63e-03	-2.58e-03	9.10e-03	-9.38e-04
## 2097	-1.83e-02	2.95e-02	-2.91e-02	3.26e-02	2.38e-02	3.17e-02	-4.73e-02
## 2098	1.82e-02	-4.34e-03	1.45e-02	9.56e-03	-3.30e-02	8.09e-03	2.10e-02
## 2099	-2.63e-02	2.69e-03	1.49e-02	8.33e-03	1.15e-02	3.62e-03	1.87e-02
## 2100	-1.15e-02	9.08e-04	-5.59e-03	-2.67e-03	-7.56e-03	-2.95e-03	-1.66e-02
## 2101	-1.61e-02	-1.09e-03	-8.27e-03	-7.34e-03	-7.08e-03	-4.82e-03	-1.21e-02
## 2102	-9.58e-04	1.52e-03	1.01e-03	-8.95e-04	1.03e-03	1.21e-03	9.11e-04
## 2103	1.28e-02	-8.28e-03	-2.27e-02	8.13e-03	-2.36e-02	8.42e-03	2.71e-02
## 2104	-5.18e-03	1.18e-02	5.21e-03	5.98e-03	3.32e-03	4.03e-03	1.45e-03
## 2105	2.65e-03	-8.59e-04	-9.30e-05	9.11e-05	1.95e-04	3.27e-04	-1.13e-04
## 2106	-2.05e-04	-6.34e-03	-1.63e-03	-1.97e-03	-1.91e-03	-2.03e-03	-2.61e-03
## 2107	-1.21e-04	-1.37e-04	1.22e-05	7.61e-05	5.51e-05	9.28e-05	3.50e-05
## 2108	5.53e-03	3.92e-03	3.52e-03	-3.72e-03	3.02e-03	-4.59e-03	1.40e-03
## 2109	5.59e-03	-1.61e-03	-1.07e-02	1.16e-02	-1.13e-02	1.22e-02	2.31e-02
## 2110	-2.36e-03	1.31e-03	-3.88e-03	-4.02e-03	2.16e-03	-4.94e-03	1.03e-03
## 2111	7.29e-05	-1.05e-03	-2.05e-05	-6.05e-04	4.99e-05	-3.07e-04	2.77e-04
## 2112	-3.92e-02	-3.66e-02	-8.19e-03	-1.41e-02	4.23e-02	-1.33e-02	-5.75e-03
## 2113	1.74e-03	2.86e-03	2.59e-03	2.42e-03	1.38e-03	1.81e-03	2.19e-03
## 2114	-2.44e-02	1.44e-03	1.59e-02	1.13e-02	1.59e-02	9.66e-03	3.01e-02
## 2115	-7.05e-04	-1.11e-03	-9.32e-05	-2.45e-04	-2.19e-04	-2.94e-04	-2.37e-04
## 2116	1.40e-03	9.19e-04	-2.81e-04	-6.35e-04	-3.49e-04	-4.61e-04	-1.97e-04
## 2117	5.11e-05	-6.77e-03	-1.94e-03	-2.33e-03	-2.03e-03	-2.23e-03	-2.63e-03
## 2118	2.54e-02	2.19e-02	7.55e-03	1.07e-02	1.46e-02	-2.24e-02	-1.85e-02
## 2119	1.29e-02	-2.68e-03	-2.11e-02	9.90e-03	1.02e-02	6.72e-03	1.56e-02

##	2120	-4.42e-03	-1.46e-02	-1.44e-02	-1.42e-02	-1.20e-02	-1.22e-02	-1.11e-02
##	2121	1.13e-03	3.18e-03	2.23e-03	-1.33e-03	2.43e-03	2.69e-03	-1.33e-03
##	2122	-4.51e-03	2.58e-02	6.67e-03	1.05e-02	5.16e-03	8.95e-03	2.84e-03
##	2123	2.61e-03	1.31e-02	3.48e-02	3.78e-02	4.08e-02	-3.47e-02	-2.24e-02
##	2124	9.07e-03	4.66e-03	-8.79e-03	-1.06e-02	-1.08e-02	5.88e-03	-1.30e-02
##	2125	-1.41e-02	3.04e-04	-6.03e-03	-3.45e-03	-4.59e-03	-2.89e-03	-1.04e-02
##	2126	-1.29e-02	1.24e-02	2.08e-02	3.61e-02	-3.32e-02	-3.10e-02	2.95e-02
##	2127	-1.19e-05	-4.59e-04	1.09e-03	-7.93e-04	-7.61e-04	-6.58e-04	-1.15e-03
##	2128	-6.16e-04	-1.65e-03	-2.37e-04	-2.35e-05	-1.61e-04	-1.30e-04	-3.09e-04
##	2129	1.33e-02	-5.94e-04	-7.25e-03	-3.93e-03	-5.22e-03	-2.28e-03	-1.03e-02
##	2130	7.73e-06	-6.60e-03	-1.78e-03	-2.10e-03	-2.09e-03	-2.15e-03	-2.66e-03
##	2131	3.92e-03	-7.96e-03	-8.20e-03	-1.74e-02	1.56e-02	1.09e-02	-7.56e-03
##	2132	2.09e-02	-8.08e-03	-3.12e-02	7.08e-03	1.32e-02	8.70e-03	-2.76e-02
##	2133	9.27e-03	-2.97e-03	-7.18e-04	-3.27e-04	8.35e-05	9.33e-04	8.90e-05
##	2134	4.12e-03	-3.97e-03	-5.50e-03	1.88e-03	2.85e-03	1.90e-03	-6.03e-03
##	2135	-9.22e-03	3.16e-02	7.14e-03	6.95e-03	1.23e-02	1.28e-02	-2.57e-02
##	2136	-1.21e-02	-4.38e-03	-1.97e-02	-1.55e-02	-1.99e-02	-1.04e-02	-3.18e-02
##	2137	-7.58e-04	-4.19e-03	-7.86e-04	-1.03e-03	-1.15e-03	-1.67e-03	-1.44e-03
##	2138	-3.62e-03	8.46e-03	5.19e-03	-8.34e-03	-9.48e-03	9.72e-03	7.52e-03
##	2139	1.42e-02	2.62e-02	8.05e-03	1.06e-02	-1.15e-02	1.48e-02	-1.17e-02
##	2140	-3.95e-03	1.61e-02	7.08e-03	1.04e-02	5.22e-03	-2.17e-02	4.43e-03
##	2141	-1.67e-02	-3.59e-03	1.12e-02	1.05e-02	-2.80e-02	9.18e-03	1.69e-02
##	2142	1.57e-03	-5.85e-03	-1.91e-03	-4.54e-03	-1.85e-03	-3.69e-03	-8.52e-04
##	2143	-6.55e-04	-4.58e-03	-1.19e-03	-1.64e-03	-1.48e-03	-1.89e-03	-2.11e-03
##	2144	-4.57e-05	-5.11e-03	-1.14e-03	-1.38e-03	-1.66e-03	-1.65e-03	-1.82e-03
##	2145	6.33e-03	3.42e-03	1.91e-02	1.24e-02	-1.18e-02	1.71e-02	-3.00e-03
##	2146	1.84e-02	1.23e-03	1.41e-02	6.92e-03	1.54e-02	7.44e-03	3.06e-02
##	2147	-1.59e-04	6.81e-05	5.59e-06	1.80e-05	6.85e-06	8.06e-06	1.78e-05
##	2148	2.86e-02	3.33e-02	7.50e-03	9.50e-03	3.82e-03	8.47e-03	3.13e-03
##	2149	-2.15e-02	-2.19e-03	1.47e-02	1.09e-02	-2.67e-02	8.50e-03	1.91e-02
##	2150	-2.12e-04	-3.31e-04	1.48e-05	1.89e-04	9.17e-05	2.80e-04	5.04e-05
##	2151	-1.09e-02	-3.33e-03	-1.47e-02	-8.60e-03	-1.47e-02	-6.79e-03	-2.59e-02
##	2152	1.42e-02	1.25e-03	-7.24e-03	-6.61e-03	-1.06e-02	-6.96e-03	-2.04e-02
##	2153	3.64e-03	-1.89e-03	-1.00e-02	1.11e-02	-7.96e-03	1.45e-02	-2.58e-03
##	2154	4.35e-04	4.37e-04	5.69e-04	-3.39e-04	-2.65e-04	-2.30e-04	-2.94e-04
##	2155	6.98e-03	-1.99e-03	-5.50e-04	1.54e-04	2.95e-04	9.80e-04	-3.56e-04
##	2156	8.04e-03	-4.58e-03	3.44e-03	3.39e-03	2.79e-03	1.90e-03	4.41e-03
##	2157	1.39e-02	5.08e-03	-8.39e-03	-6.28e-03	2.63e-02	-6.83e-03	-1.55e-02
##	2158	1.30e-02	-9.07e-03	-2.21e-02	9.66e-03	-2.24e-02	9.60e-03	-1.96e-02
##	2159	-9.57e-03	1.82e-03	-1.05e-02	-2.03e-03	1.78e-02	-4.29e-03	9.51e-03
##	2160	4.20e-03	2.27e-03	2.67e-04	9.94e-04	6.17e-04	8.75e-04	8.34e-04
##	2161	-7.10e-04	-3.04e-03	-6.12e-04	-2.47e-04	-3.45e-04	9.07e-05	-7.82e-04
##	2162	2.19e-03	-6.45e-03	-3.22e-03	-5.72e-03	-5.51e-03	-7.48e-03	7.13e-03
##	2163	-7.82e-03	4.21e-04	-4.12e-03	6.30e-04	-7.39e-03	-7.92e-04	8.18e-03
##	2164	-1.13e-02	-1.75e-03	-6.26e-03	-2.43e-03	-4.60e-03	1.31e-04	-9.26e-03
##	2165	2.97e-03	-2.78e-03	-3.72e-03	1.45e-03	1.08e-03	9.66e-04	1.72e-03
##	2166	-2.53e-03	3.05e-03	4.53e-03	-6.27e-03	-8.47e-03	-6.06e-03	3.15e-03
##	2167	-5.32e-03	2.28e-02	5.59e-03	9.84e-03	-2.46e-02	1.17e-02	1.33e-02
##	2168	-4.62e-03	2.44e-02	6.60e-03	1.04e-02	4.98e-03	8.82e-03	2.17e-03
##	2169	-2.04e-02	-9.47e-03	9.66e-03	8.57e-03	-3.20e-02	1.14e-02	3.34e-02

##	2170	-7.88e-04	-2.44e-03	-4.20e-04	-2.09e-04	-2.32e-04	2.33e-07	-7.22e-04
##	2171	2.90e-02	1.06e-02	-2.40e-02	-2.04e-02	-2.43e-02	3.84e-02	2.55e-02
##	2172	1.74e-03	1.32e-03	-1.28e-04	-1.13e-04	-5.66e-05	-1.08e-04	-4.21e-06
##	2173	-3.26e-04	-8.44e-04	-9.22e-04	-3.19e-03	-1.38e-03	6.48e-03	8.64e-03
##	2174	1.25e-03	1.01e-03	-1.66e-05	-2.96e-04	-3.13e-04	-3.16e-04	9.21e-05
##	2175	-3.86e-04	-3.40e-03	-8.25e-04	-3.28e-04	-3.66e-04	2.61e-04	-9.80e-04
##	2176	-5.76e-03	-7.69e-04	-9.05e-04	4.55e-03	-8.85e-04	-2.39e-03	6.53e-03
##	2177	5.25e-03	4.74e-03	-4.96e-03	5.33e-03	-4.41e-03	-5.09e-03	-4.12e-03
##	2178	2.40e-03	-3.46e-04	1.14e-02	1.01e-02	-2.19e-03	-5.59e-03	1.29e-03
##	2179	-3.85e-03	1.47e-02	6.62e-03	9.80e-03	5.09e-03	-2.07e-02	3.69e-03
##	2180	-1.04e-02	3.30e-03	-2.64e-03	3.64e-04	1.65e-02	-8.15e-04	-1.26e-02
##	2181	-4.23e-02	-3.97e-02	-2.06e-02	3.89e-02	-1.28e-02	-2.02e-02	-3.88e-03
##	2182	1.05e-03	1.02e-03	-5.15e-05	-4.08e-04	-2.77e-04	-4.13e-04	-2.95e-05
##	2183	1.92e-05	-2.29e-04	-1.61e-05	-1.45e-04	1.61e-05	-8.54e-05	5.15e-05
##	2184	6.09e-04	7.58e-04	9.91e-03	1.01e-02	7.47e-03	-1.91e-02	6.95e-03
##	2185	-4.05e-03	1.50e-03	-2.54e-04	-4.67e-04	-3.38e-04	-9.50e-05	1.97e-04
##	2186	-2.14e-03	-4.01e-03	1.91e-03	-4.56e-03	1.12e-03	1.56e-03	1.79e-03
##	2187	8.72e-03	1.69e-03	-2.84e-03	5.23e-04	-5.92e-03	-1.68e-03	7.25e-03
##	2188	3.18e-05	-1.59e-05	2.48e-05	2.66e-05	1.67e-05	1.81e-05	2.47e-05
##	2189	-6.07e-04	-7.76e-04	2.33e-05	-1.47e-04	-1.84e-04	-2.04e-04	-1.09e-04
##	2190	1.20e-02	1.88e-03	-5.93e-03	-2.48e-03	-7.34e-03	-4.96e-03	1.74e-02
##	2191	8.72e-03	-3.27e-03	-8.46e-04	-7.87e-04	-6.37e-04	-1.13e-03	-1.12e-03
##	2192	-9.25e-04	-4.12e-03	-6.62e-04	-8.93e-04	-1.26e-03	-1.76e-03	-1.41e-03
##	2193	2.69e-03	4.75e-03	3.22e-03	3.42e-03	2.98e-03	-4.71e-03	2.76e-03
##	2194	1.58e-02	1.35e-02	7.93e-03	1.17e-02	-1.60e-02	-1.41e-02	8.14e-03
##	2195	-2.98e-04	8.42e-05	-1.01e-05	-3.31e-05	-2.28e-05	-2.02e-05	-8.60e-06
##	2196	-5.09e-03	1.70e-02	-1.39e-02	8.95e-03	7.24e-03	1.04e-02	-1.74e-02
##	2197	-1.78e-03	2.87e-04	-3.30e-03	-2.94e-03	-2.47e-03	-2.17e-03	-3.04e-03
##	2198	1.56e-02	-1.50e-03	-8.40e-03	-4.59e-03	-6.53e-03	-1.81e-03	-1.17e-02
##	2199	1.79e-05	-1.00e-04	-1.96e-05	-6.08e-05	-4.16e-05	-7.48e-05	1.86e-04
##	2200	-4.67e-03	1.76e-02	1.06e-02	3.21e-02	1.30e-02	-4.81e-02	3.64e-03
##	2201	-2.51e-02	-5.47e-03	-2.07e-02	9.16e-03	-1.65e-02	1.54e-02	-7.44e-03
##	2202	-5.60e-03	4.90e-03	2.01e-02	-1.60e-02	2.55e-02	-1.17e-02	-3.91e-02
##	2203	1.43e-02	5.43e-03	-7.56e-03	-3.95e-03	2.13e-02	-6.33e-03	1.54e-02
##	2204	-6.70e-03	3.13e-03	-1.21e-03	1.45e-03	1.01e-02	-4.08e-04	5.13e-03
##	2205	-9.49e-04	-7.67e-03	-2.15e-03	-3.59e-03	-2.53e-03	-3.27e-03	-3.02e-03
##	2206	5.42e-04	4.98e-04	6.50e-03	5.97e-03	-3.01e-04	-2.10e-03	6.39e-04
##	2207	5.14e-03	-4.55e-03	1.60e-02	-1.70e-02	-8.50e-03	1.50e-02	-3.73e-03
##	2208	-4.65e-04	-3.07e-03	-7.84e-04	-4.27e-04	-3.49e-04	6.97e-05	-8.55e-04
##	2209	6.82e-03	-1.78e-03	-3.72e-04	4.96e-04	3.64e-04	9.56e-04	4.55e-05
##	2210	1.78e-02	6.80e-03	2.36e-02	-6.59e-03	-1.13e-02	-7.73e-03	-2.27e-02
##	2211	8.93e-05	8.98e-05	-2.61e-04	1.68e-04	1.42e-04	1.54e-04	-3.22e-04
##	2212	2.07e-03	-8.49e-03	1.31e-02	-1.10e-02	-5.11e-03	-1.14e-02	-3.71e-03
##	2213	-4.47e-03	-3.84e-03	2.95e-03	2.36e-03	2.01e-03	1.68e-03	3.48e-03
##	2214	5.86e-03	-4.76e-03	-7.42e-03	2.13e-03	1.57e-03	1.26e-03	2.24e-03
##	2215	-2.78e-02	3.94e-04	1.38e-02	5.83e-03	2.15e-02	7.87e-03	-1.83e-02
##	2216	6.16e-03	-4.49e-03	3.02e-03	3.15e-03	-8.49e-03	2.19e-03	4.28e-03
##	2217	1.00e-02	-7.07e-03	5.59e-03	2.31e-03	8.10e-03	4.56e-03	-8.03e-03
##	2218	9.62e-03	-2.31e-03	1.84e-02	9.21e-03	-1.83e-02	1.17e-02	-6.85e-03
##	2219	-1.33e-02	3.73e-03	2.29e-02	-8.50e-03	-1.39e-02	-8.15e-03	-2.54e-02

##	2220	2.07e-02	4.14e-03	2.31e-02	-7.01e-03	-8.83e-03	-3.25e-03	-1.39e-02
##	2221	-2.90e-04	5.63e-03	-1.47e-02	8.73e-03	1.02e-02	1.10e-02	-1.75e-02
##	2222	5.09e-04	-3.46e-04	3.97e-03	-2.42e-03	4.38e-03	-2.85e-03	3.39e-03
##	2223	-2.94e-04	-3.68e-04	-1.78e-05	-8.50e-05	-9.14e-05	-1.36e-04	-8.06e-05
##	2224	-2.73e-04	4.53e-04	-1.69e-03	8.28e-03	1.18e-02	-5.19e-03	-3.82e-04
##	2225	-2.02e-02	7.95e-04	1.23e-02	1.20e-02	1.20e-02	8.19e-03	1.77e-02
##	2226	6.89e-04	6.04e-04	-6.77e-05	-3.10e-04	-1.97e-04	-2.97e-04	-9.42e-05
##	2227	1.79e-02	-5.87e-04	-1.16e-02	-8.23e-03	-8.75e-03	-6.94e-03	-1.54e-02
##	2228	5.54e-04	6.29e-04	-1.80e-05	-2.76e-04	-1.98e-04	-3.36e-04	-2.78e-05
##	2229	-1.50e-03	7.92e-04	-1.79e-03	-2.18e-03	1.57e-03	-2.40e-03	-3.39e-03
##	2230	6.81e-03	7.15e-03	-5.79e-03	7.10e-03	4.43e-03	-4.58e-03	3.35e-03
##	2231	7.19e-03	5.57e-03	-6.68e-03	-7.43e-03	-7.84e-03	7.93e-03	-9.66e-03
##	2232	-2.58e-02	1.63e-03	1.45e-02	7.60e-03	1.07e-02	4.34e-03	2.04e-02
##	2233	-3.48e-05	1.45e-03	-1.46e-02	9.75e-03	-1.33e-02	1.18e-02	1.55e-02
##	2234	-2.13e-02	-2.30e-02	9.64e-03	5.27e-03	2.05e-02	-4.68e-02	-1.75e-02
##	2235	1.03e-03	7.89e-05	-3.71e-03	1.32e-03	-3.54e-03	2.18e-03	-2.54e-03
##	2236	-1.97e-03	-2.27e-03	1.46e-03	1.90e-03	1.31e-03	1.57e-03	1.99e-03
##	2237	7.05e-04	-2.41e-04	3.20e-05	1.52e-05	8.35e-06	1.85e-05	6.44e-06
##	2238	3.10e-03	-1.33e-03	-1.89e-04	-2.23e-04	-2.67e-04	-5.22e-04	-4.14e-04
##	2239	2.92e-04	3.39e-03	-7.88e-03	1.01e-02	1.92e-02	8.03e-03	-7.08e-03
##	2240	-4.69e-02	-1.97e-02	3.98e-02	3.59e-02	-2.08e-02	3.99e-02	-1.10e-02
##	2241	1.30e-04	3.36e-04	5.67e-03	5.23e-03	3.94e-05	-1.75e-03	6.48e-04
##	2242	-1.56e-02	1.49e-02	-2.80e-03	2.80e-02	1.93e-02	-5.16e-03	1.06e-02
##	2243	2.88e-04	3.05e-04	1.03e-07	-1.03e-04	-7.80e-05	-1.66e-04	3.15e-05
##	2244	1.20e-02	1.13e-02	6.41e-03	-1.31e-02	3.27e-03	5.55e-03	1.04e-03
##	2245	-5.59e-03	1.59e-02	6.76e-03	9.86e-03	1.19e-02	-2.10e-02	-1.80e-02
##	2246	-7.24e-04	-2.71e-03	-5.12e-04	-2.39e-04	-2.55e-04	6.23e-05	-8.01e-04
##	2247	-7.17e-03	2.37e-02	5.41e-03	5.17e-03	-2.62e-02	1.21e-02	-2.21e-02
##	2248	1.79e-03	1.87e-03	-1.28e-04	-9.80e-05	1.67e-04	5.05e-04	5.36e-04
##	2249	7.97e-03	-5.04e-03	4.03e-03	3.62e-03	4.12e-03	3.92e-03	9.13e-03
##	2250	-2.95e-05	1.57e-04	5.46e-05	1.24e-04	1.13e-04	1.62e-04	-2.78e-04
##	2251	-3.13e-03	1.36e-02	6.67e-03	-1.44e-02	4.24e-03	9.56e-03	1.97e-03
##	2252	-9.21e-04	4.10e-04	-3.81e-03	-2.62e-03	-4.21e-03	-2.73e-03	1.47e-03
##	2253	2.64e-03	4.17e-03	3.40e-03	3.69e-03	-2.04e-03	-2.70e-03	-2.33e-03
##	2254	2.47e-04	-4.14e-04	-3.01e-04	2.70e-04	3.89e-04	-3.66e-04	-1.36e-04
##	2255	-6.01e-04	-1.68e-03	-2.59e-04	6.32e-04	5.33e-04	1.48e-03	1.64e-04
##	2256	1.62e-02	1.91e-02	-1.20e-02	-1.41e-02	3.07e-02	3.50e-02	-2.06e-02
##	2257	9.64e-03	2.08e-02	8.97e-03	8.40e-03	4.98e-03	4.96e-03	3.30e-03
##	2258	1.23e-02	1.52e-03	-6.49e-03	-3.12e-03	-7.42e-03	-5.21e-03	1.68e-02
##	2259	1.44e-02	4.47e-02	3.34e-02	3.75e-02	3.07e-02	3.38e-02	-2.64e-02
##	2260	1.84e-04	-9.97e-04	-2.50e-04	-6.95e-04	-1.09e-04	-3.95e-04	2.27e-05
##	2261	-1.49e-02	2.03e-02	2.22e-02	-2.68e-03	1.79e-02	2.52e-02	7.55e-03
##	2262	-1.37e-02	-8.86e-03	1.16e-02	-1.04e-02	-4.18e-03	-9.21e-03	-2.47e-03
##	2263	2.33e-05	-1.66e-04	-3.06e-05	-1.14e-04	-8.66e-06	-7.40e-05	1.25e-05
##	2264	-6.37e-04	-7.31e-04	-1.52e-05	1.34e-05	5.98e-05	2.64e-04	-3.05e-05
##	2265	1.53e-02	-8.58e-04	-1.00e-02	-9.89e-03	-8.82e-03	-7.41e-03	-1.46e-02
##	2266	1.11e-02	4.29e-03	-5.01e-03	-9.84e-04	1.81e-02	-2.86e-03	1.35e-02
##	2267	-3.16e-02	4.39e-03	2.06e-02	8.67e-03	2.23e-02	9.57e-03	-1.20e-02
##	2268	-4.14e-03	2.16e-02	6.84e-03	9.42e-03	-2.61e-02	9.83e-03	5.74e-03
##	2269	-7.42e-04	-1.54e-03	-2.91e-04	-1.96e-04	-1.12e-04	-2.37e-04	-4.78e-04

##	2270	2.38e-02	2.95e-02	-1.82e-02	3.61e-02	-2.37e-02	3.41e-02	1.39e-02
##	2271	-1.51e-02	-7.40e-05	-7.14e-03	-4.92e-03	-5.22e-03	-3.00e-03	-1.21e-02
##	2272	7.75e-03	-8.28e-03	1.68e-02	1.07e-02	-1.29e-02	-2.73e-02	-7.22e-03
##	2273	-9.39e-03	2.28e-02	1.64e-02	-2.80e-02	1.89e-02	3.97e-02	7.90e-03
##	2274	-5.48e-03	1.75e-02	7.01e-03	-2.29e-02	3.30e-03	7.32e-03	-4.52e-04
##	2275	1.74e-03	-6.63e-04	-3.86e-06	-3.49e-04	-9.10e-05	-3.86e-04	-2.63e-04
##	2276	2.65e-02	-2.00e-02	1.14e-02	1.47e-03	2.11e-02	-5.73e-02	-2.20e-02
##	2277	-3.17e-02	-3.27e-02	-9.05e-03	-9.75e-03	3.60e-02	-1.27e-02	-1.79e-02
##	2278	-1.54e-03	-7.80e-03	-3.92e-02	-1.96e-02	1.81e-02	-1.73e-02	7.82e-03
##	2279	1.37e-02	4.61e-04	-8.25e-03	-5.95e-03	-6.54e-03	-5.39e-03	-1.33e-02
##	2280	-2.38e-03	9.27e-03	5.57e-03	-1.41e-02	-1.83e-02	9.31e-03	2.99e-03
##	2281	-1.29e-02	1.46e-02	-3.51e-02	3.72e-02	2.72e-02	-2.35e-02	-4.44e-02
##	2282	-6.46e-03	1.31e-02	5.79e-03	7.62e-03	-2.37e-02	-2.74e-02	1.28e-02
##	2283	-1.77e-03	8.40e-03	1.25e-02	-4.29e-02	5.89e-03	2.75e-02	-7.65e-04
##	2284	-2.17e-02	-1.06e-02	-3.69e-02	6.18e-03	1.29e-02	9.86e-03	-3.10e-02
##	2285	-1.10e-04	2.64e-04	-1.14e-03	2.65e-04	1.33e-05	2.35e-04	-7.82e-05
##	2286	-3.21e-03	-3.18e-03	-9.62e-03	-6.59e-03	2.55e-02	-1.33e-02	2.10e-02
##	2287	-1.17e-02	9.16e-04	-5.03e-03	-1.52e-03	-5.67e-03	-3.01e-03	1.48e-02
##	2288	-2.02e-03	-1.24e-03	1.50e-03	1.16e-03	9.77e-04	7.78e-04	1.41e-03
##	2289	-2.13e-03	-4.29e-03	1.89e-03	-5.08e-03	1.04e-03	1.58e-03	1.83e-03
##	2290	-1.22e-02	1.02e-02	2.04e-02	-2.26e-04	1.71e-02	-4.95e-03	8.24e-03
##	2291	-5.94e-03	-1.40e-02	-1.41e-02	-1.38e-02	-1.13e-02	-1.33e-02	-1.07e-02
##	2292	-6.58e-03	2.98e-02	7.29e-03	1.00e-02	5.47e-03	7.14e-03	1.89e-03
##	2293	-1.11e-02	1.79e-02	1.88e-02	-3.70e-02	1.24e-02	3.04e-02	3.33e-03
##	2294	6.09e-04	3.67e-03	8.50e-03	7.64e-03	-4.00e-03	6.99e-03	8.78e-03
##	2295	7.22e-04	-1.19e-03	7.76e-04	5.40e-04	-8.04e-04	-1.29e-03	-4.01e-04
##	2296	-1.23e-02	1.35e-02	2.11e-02	3.56e-02	-3.83e-02	-3.21e-02	1.37e-02
##	2297	2.40e-02	-1.61e-02	1.19e-02	8.90e-03	1.66e-02	-4.72e-02	3.39e-02
##	2298	-3.09e-03	-3.12e-03	1.88e-03	2.15e-03	1.57e-03	1.37e-03	2.16e-03
##	2299	6.48e-03	-2.99e-02	-1.18e-02	4.10e-02	-6.65e-03	-1.85e-02	-7.69e-04
##	2300	-1.01e-02	-2.05e-03	-2.21e-03	-5.55e-03	9.26e-03	7.56e-03	-1.80e-03
##	2301	1.15e-02	-4.48e-03	-2.14e-02	7.32e-03	1.79e-02	9.19e-03	-1.26e-02
##	2302	-2.12e-02	7.63e-05	1.32e-02	9.87e-03	9.88e-03	8.54e-03	1.93e-02
##	2303	-4.44e-03	1.15e-02	-1.59e-02	1.09e-02	8.41e-03	-1.38e-02	-1.75e-02
##	2304	-4.26e-03	-1.45e-03	-7.10e-04	-2.11e-03	-8.41e-04	3.55e-03	-3.63e-04
##	2305	2.16e-03	1.77e-03	1.21e-02	1.06e-02	1.26e-02	-6.99e-03	-4.33e-03
##	2306	5.92e-04	1.24e-03	1.18e-03	1.40e-03	7.42e-04	8.39e-04	9.73e-04
##	2307	-1.64e-02	-1.35e-02	1.45e-02	-1.53e-02	-8.53e-03	-1.58e-02	-4.52e-03
##	2308	-7.26e-04	-2.62e-03	-5.46e-04	-3.29e-04	-2.79e-04	-5.13e-05	-6.94e-04
##	2309	6.84e-03	-6.12e-03	1.51e-02	1.17e-02	-8.47e-03	-1.56e-02	-1.49e-03
##	2310	-3.00e-03	-3.16e-03	1.80e-03	2.13e-03	1.51e-03	1.31e-03	2.36e-03
##	2311	1.09e-02	1.31e-02	7.13e-03	8.12e-03	9.88e-03	-1.13e-02	-9.42e-03
##	2312	-1.80e-04	-6.60e-03	-1.81e-03	-2.25e-03	-1.97e-03	-2.25e-03	-2.53e-03
##	2313	3.57e-04	-9.33e-05	1.12e-05	4.37e-05	2.21e-05	2.71e-05	7.43e-06
##	2314	-3.07e-05	7.60e-05	5.74e-05	1.57e-04	1.06e-04	-5.64e-04	1.68e-04
##	2315	-2.37e-02	-2.27e-03	1.26e-02	8.93e-03	2.10e-02	1.14e-02	-1.45e-02
##	2316	-2.42e-03	-1.65e-03	1.82e-03	1.85e-03	1.40e-03	1.17e-03	1.83e-03
##	2317	1.76e-03	-8.87e-04	-6.82e-03	8.83e-03	-1.18e-02	7.12e-03	-1.16e-02
##	2318	1.24e-03	1.11e-03	-2.12e-04	-5.74e-04	-2.89e-04	-6.17e-04	-5.48e-05
##	2319	-1.24e-02	3.55e-03	-1.25e-02	-4.71e-03	2.00e-02	-9.20e-03	9.81e-03

##	2320	-1.63e-02	1.24e-02	-1.09e-02	-7.17e-03	2.77e-02	3.66e-02	-1.62e-02
##	2321	-5.75e-04	-7.38e-03	-1.59e-03	-2.77e-03	-2.73e-03	-2.90e-03	-2.22e-03
##	2322	2.92e-04	-1.06e-03	-7.54e-04	4.14e-03	-5.22e-04	-2.36e-03	-7.31e-05
##	2323	-2.82e-02	-3.68e-03	1.65e-02	7.00e-03	-2.91e-02	7.03e-03	-2.36e-02
##	2324	9.72e-03	-2.00e-03	1.79e-02	8.45e-03	-2.04e-02	8.79e-03	-1.18e-02
##	2325	2.41e-03	-1.68e-03	-3.88e-03	9.23e-03	1.00e-02	-7.61e-03	1.22e-02
##	2326	1.46e-02	1.75e-02	-1.58e-02	8.45e-03	6.80e-03	6.64e-03	7.96e-03
##	2327	1.25e-02	-5.08e-03	-1.13e-03	-2.10e-03	-1.36e-03	-1.83e-03	-1.11e-03
##	2328	-4.54e-03	6.11e-03	4.91e-03	-5.87e-03	-5.91e-03	6.30e-03	-7.73e-03
##	2329	-1.40e-03	-6.63e-04	1.14e-03	1.10e-03	-9.34e-04	1.78e-03	-3.14e-04
##	2330	1.93e-02	1.83e-03	1.48e-02	2.89e-03	1.56e-02	2.10e-03	-3.42e-02
##	2331	-3.56e-03	1.09e-02	6.13e-03	-2.03e-02	-2.37e-02	1.02e-02	3.20e-03
##	2332	2.28e-02	-7.11e-04	-1.44e-02	-1.04e-02	-1.15e-02	-7.50e-03	-1.73e-02
##	2333	-5.80e-03	1.31e-03	1.92e-02	-1.72e-02	1.76e-02	-2.22e-02	8.69e-03
##	2334	3.77e-03	2.65e-03	-3.79e-04	-9.50e-04	-5.73e-04	-4.28e-04	1.72e-04
##	2335	-8.76e-03	-8.41e-04	-7.00e-03	-6.41e-04	-9.55e-03	-2.27e-03	9.83e-03
##	2336	-8.77e-04	-1.22e-04	4.83e-03	-5.02e-03	-4.71e-03	5.89e-03	6.09e-03
##	2337	-1.29e-04	7.65e-04	1.54e-04	4.00e-04	-3.56e-05	2.76e-04	-3.50e-05
##	2338	1.18e-02	-1.87e-02	1.42e-02	-2.33e-02	1.84e-02	-2.29e-02	-1.10e-02
##	2339	-7.18e-03	2.99e-02	8.37e-03	1.10e-02	5.41e-03	9.14e-03	4.68e-03
##	2340	1.64e-03	-2.58e-03	6.57e-03	-6.44e-03	-7.56e-03	-6.16e-03	6.27e-03
##	2341	-3.94e-04	-7.28e-03	-1.44e-03	-2.67e-03	-2.63e-03	-2.30e-03	-2.40e-03
##	2342	1.49e-05	1.77e-03	-1.23e-03	6.92e-03	-1.81e-03	7.00e-03	1.01e-02
##	2343	1.15e-02	-3.90e-03	-1.27e-03	-7.97e-04	-8.08e-04	-7.33e-04	-1.03e-03
##	2344	-5.46e-04	-5.39e-04	2.63e-03	-3.22e-03	-3.78e-03	1.96e-03	1.28e-03
##	2345	-2.42e-04	3.32e-04	3.44e-04	-3.57e-03	8.06e-04	1.25e-03	-3.28e-03
##	2346	2.74e-02	-1.25e-03	1.16e-02	3.54e-03	1.29e-02	6.91e-03	-3.50e-02
##	2347	3.59e-03	-2.31e-03	3.48e-03	1.88e-03	3.99e-03	2.02e-03	-3.31e-03
##	2348	-6.57e-04	-7.73e-03	-2.07e-03	-3.64e-03	-2.72e-03	-2.92e-03	-3.08e-03
##	2349	-2.34e-02	-3.63e-03	1.09e-02	6.15e-03	1.52e-02	9.35e-03	3.35e-02
##	2350	-3.62e-04	-9.79e-04	-1.16e-04	4.78e-04	3.53e-04	8.17e-04	1.91e-04
##	2351	4.75e-03	-6.35e-03	3.10e-03	2.66e-03	-4.33e-03	-6.50e-03	-2.51e-03
##	2352	-7.17e-03	1.61e-02	6.79e-03	6.72e-03	3.74e-03	4.83e-03	2.27e-03
##	2353	-2.73e-04	-3.78e-04	2.59e-04	2.67e-04	3.02e-04	-4.25e-04	-3.39e-04
##	2354	1.11e-04	1.25e-04	6.30e-06	7.47e-06	1.32e-05	3.81e-05	4.24e-05
##	2355	1.23e-02	5.17e-03	-1.26e-02	-1.48e-02	-1.42e-02	6.65e-03	-1.77e-02
##	2356	2.59e-03	1.88e-03	-3.22e-04	-8.41e-04	-5.38e-04	-5.71e-04	-3.43e-05
##	2357	9.05e-03	-4.83e-02	-1.50e-02	-2.28e-02	-9.92e-03	-1.82e-02	-7.91e-03
##	2358	-1.41e-03	-1.81e-04	7.81e-03	-1.36e-02	7.10e-03	6.05e-03	8.51e-03
##	2359	-5.52e-03	2.79e-02	7.23e-03	9.48e-03	4.53e-03	9.15e-03	3.36e-03
##	2360	2.08e-02	-1.14e-02	-3.10e-02	7.09e-03	-3.52e-02	6.12e-03	1.78e-02
##	2361	1.84e-02	-1.63e-02	1.26e-02	7.86e-03	-2.64e-02	-3.85e-02	-2.38e-02
##	2362	1.33e-02	-6.65e-04	-7.25e-03	-3.92e-03	-5.20e-03	-2.27e-03	-1.03e-02
##	2363	1.18e-02	6.31e-03	-5.76e-03	-2.55e-03	2.13e-02	-6.06e-03	1.57e-02
##	2364	9.68e-06	-3.32e-04	-1.26e-05	-1.93e-04	2.47e-05	-1.17e-04	7.44e-05
##	2365	1.05e-04	-2.11e-04	6.25e-04	-1.85e-04	-9.70e-05	-1.80e-04	7.69e-04
##	2366	4.73e-05	-2.35e-04	-6.55e-05	-1.71e-04	-2.23e-05	-1.07e-04	-1.90e-06
##	2367	2.27e-02	-1.09e-02	-3.90e-03	-6.51e-03	-5.15e-03	-5.64e-03	-4.60e-03
##	2368	-4.99e-03	-4.60e-03	3.28e-03	2.79e-03	2.15e-03	2.00e-03	4.04e-03
##	2369	1.66e-04	-2.60e-04	-1.85e-04	-2.19e-04	-1.34e-04	1.89e-04	-1.01e-04

##	2370	1.20e-04	-6.28e-03	-1.88e-03	-2.25e-03	-2.00e-03	-2.16e-03	-2.66e-03
##	2371	-6.25e-04	-2.85e-04	-4.34e-05	-2.01e-04	-4.57e-06	-1.50e-04	8.44e-06
##	2372	-6.72e-03	2.18e-02	-2.02e-02	9.79e-03	9.05e-03	1.37e-02	-2.31e-02
##	2373	-2.75e-03	3.56e-03	-3.86e-03	-4.35e-03	1.70e-03	3.02e-03	7.18e-04
##	2374	3.09e-02	-5.42e-03	-2.21e-02	-1.61e-02	-1.56e-02	-9.99e-03	-2.22e-02
##	2375	-1.05e-02	9.01e-03	2.31e-02	-6.90e-03	1.90e-02	-8.26e-03	1.21e-02
##	2376	3.07e-03	-5.74e-03	-6.14e-03	8.57e-03	1.32e-02	-1.42e-02	-4.07e-03
##	2377	-4.93e-04	-3.04e-03	-7.79e-04	-4.35e-04	-3.61e-04	3.54e-05	-8.56e-04
##	2378	6.83e-04	-3.00e-03	-4.55e-03	-3.82e-03	3.63e-03	-4.41e-03	2.10e-03
##	2379	4.96e-04	9.34e-03	1.10e-02	1.05e-02	7.83e-03	7.63e-03	8.14e-03
##	2380	5.60e-03	1.32e-03	1.90e-02	9.27e-03	-1.97e-02	6.52e-03	2.85e-02
##	2381	4.51e-03	5.02e-03	-1.76e-02	1.19e-02	7.34e-03	9.66e-03	6.36e-03
##	2382	-4.43e-03	9.52e-03	-6.13e-03	6.10e-03	2.97e-03	3.82e-03	1.77e-03
##	2383	2.92e-02	-2.18e-02	-4.62e-02	1.68e-03	-3.60e-02	1.04e-02	-1.99e-02
##	2384	-6.96e-03	3.08e-02	6.67e-03	8.92e-03	8.25e-03	1.11e-02	1.31e-02
##	2385	-2.84e-03	-3.31e-03	-5.24e-03	2.28e-03	1.80e-03	2.40e-03	2.66e-03
##	2386	-5.33e-04	-2.59e-03	-3.99e-04	1.05e-04	-1.77e-04	1.44e-04	-4.50e-04
##	2387	2.88e-02	3.28e-02	6.63e-03	6.14e-03	6.63e-03	8.75e-03	-3.60e-02
##	2388	1.92e-02	-6.32e-03	1.45e-02	5.71e-03	-3.27e-02	9.42e-03	-2.49e-02
##	2389	-1.54e-02	1.24e-02	-2.16e-02	3.38e-02	2.01e-02	-2.38e-02	8.28e-03
##	2390	1.06e-03	2.75e-03	-3.62e-03	7.95e-03	7.58e-03	6.30e-03	8.19e-03
##	2391	1.10e-02	3.88e-03	1.87e-02	1.11e-02	-2.34e-02	1.28e-02	-1.83e-02
##	2392	6.86e-03	-6.50e-03	-1.36e-02	-1.82e-02	1.56e-02	1.12e-02	1.88e-02
##	2393	1.00e-02	2.88e-03	-3.38e-03	-1.24e-04	-7.99e-03	-4.24e-03	9.57e-03
##	2394	4.42e-03	5.22e-03	-2.09e-02	1.17e-02	7.72e-03	9.74e-03	8.27e-03
##	2395	2.75e-03	2.70e-03	9.13e-03	6.29e-03	-2.34e-02	1.26e-02	-1.90e-02
##	2396	-1.13e-02	-2.49e-02	8.99e-03	-2.24e-02	-1.94e-02	-2.23e-02	2.07e-02
##	2397	-4.52e-03	1.07e-02	-1.69e-02	8.73e-03	3.93e-03	-2.08e-02	2.54e-03
##	2398	-5.60e-05	-5.21e-03	-1.17e-03	-1.41e-03	-1.68e-03	-1.68e-03	-1.83e-03
##	2399	4.40e-03	-1.63e-03	2.39e-03	3.01e-03	2.30e-03	2.53e-03	3.33e-03
##	2400	6.31e-03	-6.02e-03	-9.65e-03	-1.48e-02	1.25e-02	1.19e-02	-1.21e-02
##	2401	1.36e-02	6.28e-03	-6.49e-03	-2.83e-03	1.87e-02	-6.92e-03	7.81e-03
##	2402	1.17e-02	7.35e-03	2.05e-02	-1.40e-03	-9.04e-03	-5.46e-03	9.80e-03
##	2403	1.51e-02	3.32e-06	-8.89e-03	-6.88e-03	-7.25e-03	-5.21e-03	-1.36e-02
##	2404	5.19e-04	4.23e-04	-7.33e-05	-2.59e-04	-1.41e-04	-2.28e-04	-8.25e-05
##	2405	8.29e-04	-5.77e-03	-1.31e-02	8.84e-03	-9.32e-03	-1.17e-02	-7.07e-03
##	2406	6.95e-03	6.23e-04	-1.29e-02	1.20e-02	1.08e-02	6.49e-03	1.26e-02
##	2407	-1.09e-04	-1.05e-04	-1.42e-04	8.77e-05	6.70e-05	5.38e-05	7.38e-05
##	2408	1.54e-03	-1.91e-03	3.61e-02	-4.29e-02	-3.12e-02	4.40e-02	-2.31e-02
##	2409	2.44e-03	-4.62e-03	5.35e-03	-6.59e-03	-6.00e-03	-4.74e-03	1.05e-02
##	2410	-1.56e-03	-3.46e-03	-6.02e-04	-9.30e-04	-5.82e-04	-5.85e-04	-8.90e-04
##	2411	-7.39e-03	-4.38e-03	-1.69e-02	-6.46e-03	-1.81e-02	-5.55e-03	1.14e-02
##	2412	1.40e-02	-2.11e-03	1.54e-02	8.93e-03	-1.99e-02	1.78e-02	-7.78e-03
##	2413	3.50e-03	-3.47e-03	-1.43e-02	1.03e-02	7.42e-03	-1.69e-02	5.45e-03
##	2414	1.36e-02	-8.61e-03	-2.42e-02	8.50e-03	-3.14e-02	5.49e-03	1.80e-02
##	2415	-2.58e-03	8.02e-03	4.54e-03	8.14e-03	-9.54e-03	-7.64e-03	3.83e-03
##	2416	4.46e-03	-1.23e-03	8.11e-03	-1.96e-02	9.51e-03	1.04e-02	-2.28e-02
##	2417	-3.39e-03	3.12e-03	7.76e-03	5.67e-03	-1.06e-02	5.14e-03	9.49e-03
##	2418	-2.43e-02	5.82e-04	1.27e-02	6.32e-03	9.64e-03	3.80e-03	1.88e-02
##	2419	-8.01e-04	-2.61e-03	-4.56e-04	-1.92e-04	-2.96e-04	1.04e-05	-6.94e-04

##	2420	-6.60e-03	1.57e-02	1.42e-02	2.92e-02	9.53e-03	-5.47e-02	1.67e-03
##	2421	-1.56e-03	-6.32e-03	-1.43e-03	-3.05e-03	-2.46e-03	-3.05e-03	-2.45e-03
##	2422	1.92e-03	-9.75e-06	-1.86e-02	9.34e-03	-2.17e-02	8.63e-03	7.86e-03
##	2423	-5.69e-03	-1.19e-02	-1.15e-02	-1.34e-02	-1.66e-02	-1.46e-02	-2.08e-02
##	2424	-1.23e-02	3.43e-03	-1.92e-02	-8.93e-03	2.18e-02	-1.31e-02	9.56e-03
##	2425	-9.87e-03	-3.65e-03	-4.00e-03	-6.89e-03	-6.29e-03	5.88e-03	6.66e-03
##	2426	-3.41e-03	7.41e-03	4.52e-03	-5.12e-03	-6.76e-03	8.02e-03	3.63e-03
##	2427	-4.34e-03	-1.47e-02	-1.23e-02	-9.91e-03	-9.17e-03	-7.86e-03	-8.08e-03
##	2428	5.63e-03	-2.27e-03	-3.91e-04	-1.04e-03	-5.98e-04	-2.01e-03	-1.36e-03
##	2429	3.88e-03	-8.34e-03	6.79e-03	-1.21e-02	-1.07e-02	-1.02e-02	1.28e-02
##	2430	-2.21e-04	-5.39e-03	-1.17e-03	-1.22e-03	-1.64e-03	-1.90e-03	-1.83e-03
##	2431	-6.32e-03	2.06e-02	7.68e-03	8.13e-03	-2.28e-02	1.04e-02	-2.35e-02
##	2432	-2.05e-02	-7.26e-03	1.45e-02	-2.70e-02	9.11e-03	6.27e-03	1.09e-02
##	2433	-2.70e-03	5.12e-03	-1.50e-02	-1.35e-02	-1.73e-02	8.79e-03	1.67e-03
##	2434	-1.84e-02	2.41e-02	-6.44e-03	3.24e-02	-1.23e-02	2.85e-02	1.49e-02
##	2435	-5.20e-04	-1.69e-03	-2.50e-04	-3.67e-05	-8.48e-05	-2.39e-05	-3.72e-04
##	2436	-1.40e-03	-4.22e-03	-6.84e-04	-1.67e-03	-1.55e-03	-2.17e-03	-1.49e-03
##	2437	-2.56e-02	2.50e-04	1.29e-02	7.08e-03	1.60e-02	6.65e-03	-3.39e-02
##	2438	-9.93e-03	9.71e-05	-4.43e-03	1.34e-04	-4.97e-03	-5.45e-04	1.47e-02
##	2439	1.07e-05	-3.98e-05	-2.90e-05	-1.02e-04	-1.24e-05	3.73e-04	6.33e-06
##	2440	-9.37e-03	2.71e-03	1.95e-02	-3.38e-03	-1.42e-02	-4.92e-03	1.22e-02
##	2441	-1.50e-02	-5.25e-03	1.27e-02	-1.65e-02	9.22e-03	8.52e-03	1.12e-02
##	2442	-1.40e-02	5.52e-03	2.26e-02	-4.27e-03	-9.35e-03	-5.64e-03	2.11e-02
##	2443	-1.98e-02	-6.60e-03	1.21e-02	8.56e-03	-3.56e-02	9.27e-03	2.11e-02
##	2444	-1.04e-02	7.77e-03	1.85e-02	5.81e-04	1.62e-02	-2.64e-03	8.86e-03
##	2445	-6.40e-03	2.00e-02	6.86e-03	7.54e-03	-2.25e-02	9.65e-03	-2.38e-02
##	2446	1.46e-05	-1.73e-04	6.52e-04	-1.62e-04	5.25e-06	-1.13e-04	7.08e-05
##	2447	-1.69e-02	1.70e-02	2.68e-02	3.34e-02	-2.85e-02	-2.36e-02	1.36e-02
##	2448	-1.23e-02	-2.12e-03	-9.18e-03	-3.77e-03	-6.18e-03	-1.11e-03	-1.08e-02
##	2449	2.56e-02	2.69e-03	1.30e-02	4.95e-03	8.42e-03	9.53e-04	1.86e-02
##	2450	-2.26e-03	7.18e-04	-9.55e-05	-1.61e-04	-9.80e-05	-4.61e-05	1.80e-04
##	2451	1.42e-02	1.92e-02	2.68e-02	-7.33e-03	-1.14e-02	3.13e-02	-2.33e-02
##	2452	1.90e-04	-5.08e-05	3.09e-07	1.68e-05	1.06e-05	1.23e-05	9.87e-07
##	2453	-1.92e-02	3.46e-04	-7.15e-03	1.02e-02	-8.98e-03	1.02e-02	-8.25e-03
##	2454	3.47e-03	-2.25e-03	1.59e-02	-1.63e-02	-6.17e-03	1.66e-02	-2.76e-03
##	2455	-7.30e-04	-8.13e-03	-2.14e-03	-3.82e-03	-2.89e-03	-3.12e-03	-3.01e-03
##	2456	8.06e-04	6.50e-04	-8.06e-05	-3.70e-04	-1.75e-04	-3.06e-04	-6.55e-05
##	2457	1.55e-03	1.64e-03	3.21e-05	1.62e-04	2.53e-04	5.17e-04	6.67e-04
##	2458	-1.78e-03	-9.81e-04	-1.87e-02	-1.73e-02	5.56e-03	-1.63e-02	6.94e-03
##	2459	2.30e-02	-3.25e-03	1.09e-02	4.63e-03	1.58e-02	5.89e-03	3.34e-02
##	2460	-1.28e-02	2.31e-04	-6.32e-03	-3.92e-03	-4.61e-03	-3.07e-03	-1.05e-02
##	2461	-4.97e-03	-9.36e-03	-1.03e-02	-9.33e-03	-1.39e-02	-1.26e-02	-1.91e-02
##	2462	1.83e-03	1.27e-03	-2.40e-04	-6.43e-04	-3.77e-04	-4.25e-04	-1.60e-04
##	2463	5.01e-03	-7.57e-04	1.51e-02	1.17e-02	1.76e-02	-1.46e-02	-2.58e-03
##	2464	-5.46e-03	-1.49e-03	3.13e-02	-5.12e-03	-1.47e-02	-1.11e-02	2.30e-02
##	2465	-8.56e-04	-1.88e-03	-2.68e-04	-1.50e-04	-2.51e-04	-1.45e-04	-5.46e-04
##	2466	3.65e-04	-1.38e-04	1.31e-05	-1.18e-05	6.71e-06	-1.31e-05	-1.52e-05
##	2467	-7.92e-03	1.59e-04	2.05e-02	-1.43e-02	-2.82e-02	-1.46e-02	1.43e-02
##	2468	-5.58e-03	-4.50e-03	4.16e-03	2.57e-03	5.21e-03	3.65e-03	-4.78e-03
##	2469	-4.02e-04	-5.19e-03	-1.07e-03	-1.16e-03	-1.57e-03	-1.90e-03	-1.75e-03

##	2470	7.71e-03	-6.23e-03	-1.58e-02	9.34e-03	-1.61e-02	1.22e-02	-7.20e-03
##	2471	-1.67e-03	-1.17e-03	-5.44e-04	-5.73e-04	-4.26e-04	-4.93e-04	2.33e-03
##	2472	4.81e-03	-2.91e-03	2.61e-03	2.64e-03	1.84e-03	1.49e-03	2.76e-03
##	2473	-2.00e-02	-1.93e-02	1.03e-02	-4.49e-02	1.38e-02	1.17e-02	2.89e-02
##	2474	-4.84e-03	2.50e-02	6.85e-03	1.04e-02	5.20e-03	8.69e-03	2.87e-03
##	2475	-1.09e-03	-9.64e-04	8.99e-04	7.44e-04	-1.47e-03	7.43e-04	-1.38e-03
##	2476	-2.99e-03	-9.58e-03	-2.78e-02	-1.15e-02	-2.84e-02	-9.59e-03	1.38e-02
##	2477	7.48e-04	-2.54e-04	-2.07e-05	-4.74e-05	4.14e-05	-1.16e-04	-1.20e-04
##	2478	-6.63e-03	2.88e-02	7.79e-03	1.04e-02	5.09e-03	8.84e-03	3.84e-03
##	2479	-1.24e-02	2.28e-02	2.15e-02	3.94e-02	2.95e-02	-1.43e-02	2.75e-02
##	2480	-6.71e-04	-4.83e-03	-9.57e-04	-1.19e-03	-1.36e-03	-1.89e-03	-1.54e-03
##	2481	-1.50e-02	3.24e-03	-9.95e-03	-6.22e-03	2.68e-02	-5.58e-03	-1.57e-02
##	2482	1.14e-02	-4.20e-03	1.60e-02	1.51e-02	1.83e-02	-2.40e-02	2.96e-02
##	2483	-1.65e-03	8.15e-04	-4.94e-03	-4.30e-03	2.13e-03	-5.20e-03	4.02e-04
##	2484	1.75e-02	-3.11e-02	-2.32e-02	-2.79e-02	4.88e-02	4.69e-02	-1.52e-02
##	2485	-2.66e-03	-1.50e-03	2.01e-03	2.12e-03	2.64e-03	2.48e-03	-3.33e-03
##	2486	6.50e-03	6.96e-04	1.44e-02	1.47e-02	1.98e-02	-1.01e-02	-6.22e-04
##	2487	-1.21e-03	-2.48e-03	-3.62e-04	-7.12e-04	-6.99e-04	-1.34e-03	-1.11e-03
##	2488	-6.94e-03	2.01e-02	-1.32e-02	4.04e-02	-2.24e-02	3.56e-02	2.80e-02
##	2489	2.56e-02	-1.16e-02	-4.29e-02	4.92e-03	1.41e-02	6.08e-03	3.31e-02
##	2490	-1.41e-02	-6.25e-03	-2.18e-02	-1.69e-02	-1.65e-02	-1.01e-02	-2.05e-02
##	2491	-1.54e-03	-2.47e-03	-2.98e-04	-6.49e-04	-4.58e-04	-6.14e-04	-6.29e-04
##	2492	-4.07e-04	-8.45e-04	-1.28e-04	2.06e-04	2.38e-04	5.65e-04	-3.92e-05
##	2493	-4.15e-04	-6.07e-03	-1.69e-03	-1.91e-03	-1.81e-03	-2.42e-03	-2.51e-03
##	2494	-4.27e-03	7.44e-03	-1.07e-02	7.03e-03	3.68e-03	-1.31e-02	2.13e-03
##	2495	-1.52e-03	2.03e-03	-2.38e-03	-2.24e-03	-2.63e-03	3.12e-03	-3.50e-03
##	2496	-2.27e-04	2.40e-04	2.94e-04	-2.00e-04	3.55e-04	-1.99e-04	-2.42e-04
##	2497	3.22e-03	2.07e-03	-3.93e-04	-8.89e-04	-4.87e-04	-3.69e-04	-5.71e-05
##	2498	-3.19e-04	1.63e-04	-7.24e-06	2.51e-05	2.71e-05	7.39e-05	6.65e-05
##	2499	2.31e-04	3.47e-04	1.03e-05	-1.23e-06	1.80e-05	5.36e-05	7.89e-05
##	2500	1.51e-02	1.30e-02	-1.00e-02	3.16e-02	-7.67e-03	-8.87e-03	-1.29e-02
##	2501	-1.08e-03	-2.00e-03	-1.47e-04	-3.38e-04	-3.69e-04	-3.47e-04	-3.87e-04
##	2502	-7.54e-04	2.49e-04	-1.74e-05	2.35e-05	-3.92e-05	1.47e-04	1.44e-04
##	2503	-2.19e-04	8.09e-05	-3.73e-06	1.41e-05	-1.28e-06	1.53e-05	1.09e-05
##	2504	9.60e-04	-1.74e-03	-1.81e-03	7.76e-03	-9.12e-04	-3.02e-03	8.54e-04
##	2505	-6.01e-04	2.52e-04	-2.94e-05	2.12e-05	-1.37e-05	3.15e-05	3.81e-05
##	2506	-1.45e-02	-2.24e-04	-5.89e-03	-3.38e-03	-4.34e-03	-2.75e-03	-1.03e-02
##	2507	-1.84e-02	-8.23e-03	1.24e-02	-1.94e-02	-1.32e-02	1.28e-02	2.13e-02
##	2508	-3.17e-03	2.66e-03	4.30e-03	-7.24e-03	-7.41e-03	-6.29e-03	6.21e-03
##	2509	1.31e-03	1.03e-03	-1.23e-04	-5.20e-04	-2.97e-04	-4.28e-04	-7.95e-05
##	2510	-1.10e-02	2.98e-03	2.11e-02	-4.07e-03	-1.01e-02	-2.92e-03	-1.94e-02
##	2511	5.66e-04	-2.36e-03	-6.81e-04	-1.64e-03	-3.42e-04	-9.20e-04	3.06e-05
##	2512	-7.77e-03	1.67e-06	-5.49e-03	-2.05e-04	-8.01e-03	-1.83e-03	8.12e-03
##	2513	1.42e-02	3.45e-04	-7.21e-03	-3.49e-03	-5.66e-03	-2.26e-03	-1.02e-02
##	2514	1.72e-02	-9.06e-03	-3.12e-02	4.24e-03	1.92e-02	9.72e-03	-1.77e-02
##	2515	2.92e-02	-1.20e-02	9.29e-03	1.58e-03	-4.42e-02	7.03e-03	-3.19e-02
##	2516	-8.43e-04	5.60e-04	-1.48e-03	-1.02e-03	-9.39e-04	-6.10e-04	-1.07e-03
##	2517	-8.03e-03	-4.42e-03	-1.54e-02	-6.74e-03	-1.50e-02	-3.59e-03	-2.44e-02
##	2518	6.53e-03	8.31e-03	6.06e-03	6.35e-03	-5.68e-03	-6.97e-03	-4.86e-03
##	2519	1.02e-03	8.97e-04	-1.04e-04	-4.47e-04	-2.54e-04	-4.02e-04	-4.79e-05

##	2520	3.73e-03	2.52e-03	-6.50e-04	-1.12e-03	-5.78e-04	-8.05e-04	7.07e-05
##	2521	-1.58e-04	5.58e-04	2.10e-04	4.66e-04	-1.62e-03	5.56e-04	-1.81e-03
##	2522	-8.45e-04	2.80e-02	8.51e-03	1.01e-02	8.91e-03	9.54e-03	1.18e-02
##	2523	-1.30e-02	1.48e-04	-6.19e-03	-2.87e-03	-7.53e-03	-3.74e-03	-1.72e-02
##	2524	1.58e-02	1.63e-03	-9.01e-03	-4.60e-03	-9.71e-03	-6.75e-03	1.95e-02
##	2525	2.83e-02	-4.39e-02	-2.82e-02	4.16e-02	4.04e-02	-3.73e-02	-2.86e-02
##	2526	-2.03e-02	-2.68e-02	1.04e-02	5.93e-03	-2.99e-02	-4.09e-02	-1.27e-02
##	2527	-9.27e-05	3.61e-05	-1.25e-06	5.29e-06	9.24e-07	6.80e-06	6.77e-06
##	2528	-2.22e-02	-7.81e-03	1.67e-02	1.17e-02	-9.99e-03	-1.91e-02	-3.33e-03
##	2529	-1.13e-03	1.05e-03	2.74e-03	-2.01e-03	3.61e-03	3.53e-03	-1.61e-03
##	2530	4.03e-04	-2.65e-03	-6.58e-04	-1.72e-03	-1.02e-03	-1.96e-03	4.62e-03
##	2531	-8.51e-04	-1.00e-03	7.19e-04	9.64e-04	5.52e-04	7.44e-04	9.55e-04
##	2532	-5.75e-02	2.47e-02	6.23e-03	6.74e-03	4.08e-03	5.15e-03	9.62e-03
##	2533	-4.28e-04	2.10e-03	3.76e-04	1.16e-03	-7.55e-05	6.77e-04	-5.05e-06
##	2534	-7.27e-04	3.53e-03	8.14e-03	9.94e-03	1.02e-02	-7.60e-03	-8.53e-03
##	2535	-2.50e-03	8.43e-04	-2.37e-04	-3.99e-04	-2.40e-04	-1.42e-04	-1.58e-05
##	2536	9.83e-05	-3.75e-04	-1.00e-04	-2.80e-04	-5.90e-05	-1.64e-04	-7.59e-06
##	2537	-9.79e-04	4.60e-04	2.44e-03	-1.84e-03	-1.09e-03	3.09e-03	-1.08e-03
##	2538	-6.82e-03	1.28e-02	7.98e-03	9.19e-03	1.03e-02	-9.66e-03	-7.81e-03
##	2539	-1.70e-02	1.16e-02	-7.18e-03	3.22e-02	-1.30e-02	-8.13e-03	1.55e-02
##	2540	2.17e-02	1.39e-02	5.00e-03	-2.18e-02	-1.74e-02	1.51e-02	-1.77e-02
##	2541	1.89e-03	-1.30e-03	-2.43e-03	1.49e-03	1.79e-03	1.58e-03	2.54e-03
##	2542	-5.68e-03	4.61e-03	7.06e-03	-1.56e-02	9.09e-03	-1.38e-02	-1.39e-02
##	2543	3.40e-05	1.53e-04	3.47e-04	2.46e-04	-4.40e-04	2.98e-04	-2.92e-04
##	2544	-2.48e-02	1.15e-03	1.39e-02	7.19e-03	1.03e-02	4.21e-03	1.77e-02
##	2545	4.21e-05	-6.56e-03	-1.91e-03	-2.30e-03	-2.02e-03	-2.22e-03	-2.64e-03
##	2546	1.42e-03	9.79e-04	-2.05e-04	-5.90e-04	-2.84e-04	-4.06e-04	-1.19e-04
##	2547	-6.21e-04	-5.04e-03	-1.20e-03	-1.57e-03	-1.48e-03	-1.74e-03	-2.32e-03
##	2548	4.29e-03	-1.91e-03	-1.66e-04	-3.14e-04	-2.38e-04	-7.61e-04	-5.93e-04
##	2549	-4.98e-04	-7.40e-03	-2.59e-03	-3.96e-03	-2.80e-03	-4.43e-03	-4.22e-03
##	2550	-6.45e-03	2.11e-02	7.75e-03	9.17e-03	-2.28e-02	8.63e-03	5.15e-03
##	2551	-5.22e-03	1.55e-02	6.97e-03	-2.40e-02	6.29e-03	1.10e-02	-2.88e-02
##	2552	7.78e-03	-7.61e-03	1.42e-02	-1.94e-02	-1.80e-02	7.83e-03	1.32e-02
##	2553	-5.07e-03	2.57e-02	7.04e-03	1.08e-02	5.42e-03	9.02e-03	3.21e-03
##	2554	-8.07e-04	-1.44e-03	-1.96e-04	-1.47e-04	-2.35e-04	-2.28e-04	-4.48e-04
##	2555	2.45e-05	-2.42e-04	-2.81e-05	-1.61e-04	6.67e-06	-9.89e-05	4.40e-05
##	2556	-1.49e-02	1.87e-02	2.51e-02	3.96e-02	-2.27e-02	-1.65e-02	-3.27e-02
##	2557	1.75e-04	-3.41e-04	-3.02e-04	-9.43e-04	-6.45e-04	2.46e-03	-7.54e-04
##	2558	-8.47e-04	8.74e-04	2.15e-03	2.48e-03	2.94e-03	-1.32e-03	-8.75e-04
##	2559	-1.20e-02	8.15e-03	2.21e-02	-3.77e-03	1.87e-02	-6.06e-03	1.08e-02
##	2560	-3.47e-02	-2.30e-02	-1.17e-02	-1.54e-02	2.78e-02	2.95e-02	2.30e-02
##	2561	9.08e-03	-2.76e-03	-5.80e-04	-1.47e-04	3.93e-05	9.64e-04	6.16e-05
##	2562	-4.10e-03	-3.45e-03	2.72e-03	2.19e-03	1.77e-03	1.50e-03	3.20e-03
##	2563	-7.42e-03	4.26e-03	1.80e-02	-2.15e-02	2.67e-02	-1.90e-02	2.34e-02
##	2564	-3.36e-04	-7.07e-04	-7.69e-05	3.31e-04	2.32e-04	5.34e-04	1.12e-04
##	2565	-2.71e-03	9.17e-04	-1.85e-04	-2.85e-04	-2.67e-04	-1.40e-05	1.92e-04
##	2566	-1.05e-02	-1.22e-03	-1.25e-02	-4.67e-03	-1.64e-02	-6.95e-03	1.14e-02
##	2567	-1.51e-02	-2.58e-03	1.35e-02	1.30e-02	-3.82e-03	-7.18e-03	1.79e-03
##	2568	-2.67e-03	1.00e-03	-1.28e-04	-2.35e-04	-2.45e-04	1.47e-06	2.41e-04
##	2569	7.48e-03	-3.60e-02	-7.51e-03	-1.02e-02	-9.15e-03	-1.26e-02	-1.51e-02

##	2570	-7.27e-03	-3.11e-03	-1.56e-02	-4.60e-03	-1.78e-02	-5.82e-03	1.20e-02
##	2571	-9.55e-04	-2.85e-03	-5.50e-04	-9.15e-04	-9.19e-04	-1.32e-03	-1.41e-03
##	2572	-1.47e-02	-8.54e-03	-4.78e-03	9.72e-03	-5.16e-03	-1.09e-02	-1.08e-03
##	2573	-9.53e-03	1.91e-03	-2.20e-03	6.10e-04	-5.44e-03	-2.18e-03	7.46e-03
##	2574	2.55e-02	1.57e-02	-1.76e-02	-9.96e-03	2.08e-02	3.57e-02	8.80e-03
##	2575	7.68e-04	7.54e-04	3.05e-06	-1.90e-04	-1.83e-04	-3.14e-04	7.63e-05
##	2576	1.40e-02	-1.02e-02	1.91e-02	9.18e-03	2.20e-02	-4.06e-02	-1.21e-02
##	2577	-5.10e-04	-5.54e-03	-1.43e-03	-1.87e-03	-1.58e-03	-1.93e-03	-2.37e-03
##	2578	2.55e-02	-1.94e-02	-3.97e-02	3.14e-03	-3.53e-02	1.13e-02	-1.59e-02
##	2579	2.10e-03	-2.07e-03	-2.62e-03	1.42e-03	1.58e-03	1.32e-03	2.89e-03
##	2580	-3.63e-03	3.74e-03	-3.59e-03	-4.68e-03	2.80e-03	3.24e-03	-6.94e-03
##	2581	-9.90e-05	-1.02e-04	1.65e-06	4.26e-05	2.93e-05	6.63e-05	-7.93e-07
##	2582	-9.01e-04	-1.92e-03	-2.29e-04	-4.58e-04	-6.78e-04	-1.11e-03	-7.65e-04
##	2583	-3.97e-04	-1.06e-03	-1.04e-04	-2.60e-05	-1.08e-04	-1.67e-05	-2.41e-04
##	2584	-3.46e-03	1.30e-02	6.16e-03	9.97e-03	5.03e-03	-1.56e-02	2.86e-03
##	2585	-1.10e-02	-5.52e-04	-5.40e-03	-1.79e-03	-3.83e-03	-3.27e-04	-8.42e-03
##	2586	-2.19e-02	-8.89e-03	-2.35e-02	8.88e-03	-2.25e-02	7.22e-03	2.40e-02
##	2587	3.52e-03	7.57e-04	-9.59e-03	1.07e-02	1.76e-02	9.82e-03	-6.09e-03
##	2588	-5.36e-04	-5.34e-03	-1.33e-03	-1.74e-03	-1.81e-03	-2.07e-03	-2.35e-03
##	2589	2.80e-03	1.95e-03	-4.70e-04	-1.03e-03	-6.05e-04	-6.94e-04	-2.42e-05
##	2590	7.29e-04	-1.28e-03	-1.59e-03	6.03e-03	-7.18e-04	-2.63e-03	3.65e-04
##	2591	3.89e-04	9.87e-04	8.02e-04	8.49e-04	-2.73e-04	-3.74e-04	-3.21e-04
##	2592	-6.27e-03	1.74e-02	-1.39e-02	8.99e-03	7.26e-03	1.04e-02	-1.72e-02
##	2593	5.10e-04	-2.38e-03	-1.63e-03	-5.07e-03	-1.84e-03	7.19e-03	-9.44e-04
##	2594	-2.04e-02	-6.01e-03	1.30e-02	9.58e-03	-3.58e-02	9.82e-03	2.16e-02
##	2595	6.95e-03	-4.33e-03	4.15e-03	3.42e-03	4.52e-03	2.75e-03	-8.51e-03
##	2596	-1.92e-02	7.16e-04	1.24e-02	1.22e-02	1.10e-02	9.31e-03	1.76e-02
##	2597	8.05e-05	-1.79e-04	-1.78e-04	1.41e-03	-2.48e-04	-5.27e-04	1.88e-03
##	2598	1.09e-03	-3.02e-03	-1.90e-03	8.63e-03	-1.99e-03	-5.62e-03	6.54e-04
##	2599	5.60e-06	-3.69e-05	-2.65e-06	-2.40e-05	-2.68e-07	-1.27e-05	6.13e-06
##	2600	1.38e-02	-4.39e-03	1.52e-02	8.65e-03	-2.10e-02	1.22e-02	-1.14e-02
##	2601	-1.06e-03	-2.46e-03	-4.12e-04	5.56e-05	2.02e-04	1.53e-03	2.48e-04
##	2602	1.30e-02	-1.48e-02	-2.03e-02	-2.82e-02	1.71e-02	1.19e-02	-1.46e-02
##	2603	1.33e-02	-3.72e-04	-6.96e-03	-3.45e-03	-5.27e-03	-2.07e-03	-1.03e-02
##	2604	-1.04e-02	1.83e-02	-2.13e-02	3.65e-02	-1.72e-02	4.17e-02	-1.37e-02
##	2605	-5.96e-03	5.26e-03	1.79e-02	-1.86e-02	1.95e-02	-2.03e-02	8.72e-03
##	2606	1.09e-03	-1.30e-02	-2.57e-02	-2.74e-02	4.41e-02	-2.01e-02	-1.88e-02
##	2607	1.86e-02	-7.33e-04	-1.14e-02	-8.40e-03	-9.25e-03	-6.18e-03	-1.57e-02
##	2608	2.09e-02	1.03e-02	-2.13e-02	9.14e-03	1.06e-02	-2.15e-02	-1.81e-02
##	2609	-1.51e-02	4.73e-03	2.15e-02	-3.82e-03	-3.95e-03	-3.15e-03	-1.00e-02
##	2610	-7.30e-03	1.80e-02	-5.91e-02	2.65e-02	-5.38e-02	3.52e-02	-6.49e-02
##	2611	-3.06e-03	-2.99e-03	1.99e-03	2.42e-03	1.61e-03	1.25e-03	2.72e-03
##	2612	1.17e-02	-4.60e-02	-1.42e-02	-1.84e-02	-8.86e-03	-1.52e-02	-6.72e-03
##	2613	1.33e-05	2.67e-02	7.68e-03	1.28e-02	1.10e-02	1.04e-02	1.01e-02
##	2614	-5.65e-04	-1.38e-03	-1.66e-04	-1.13e-05	-1.05e-04	-1.01e-04	-2.70e-04
##	2615	-1.30e-02	2.03e-02	2.21e-02	-7.41e-03	2.00e-02	3.38e-02	1.02e-02
##	2616	-2.81e-03	1.89e-03	5.23e-03	-1.39e-02	-1.40e-02	-1.26e-02	-1.66e-02
##	2617	3.00e-03	-3.17e-03	1.70e-03	-3.71e-03	1.15e-03	1.33e-03	1.45e-03
##	2618	1.50e-02	2.92e-02	9.59e-03	1.07e-02	6.90e-03	8.06e-03	5.54e-03
##	2619	2.28e-02	-1.32e-02	1.16e-02	-3.29e-02	8.81e-03	9.63e-03	1.38e-02

##	2620	1.81e-02	7.21e-03	-1.67e-02	9.31e-03	-2.00e-02	-1.92e-02	5.51e-03
##	2621	3.94e-03	-5.46e-03	-6.56e-03	-1.24e-02	8.26e-03	6.88e-03	8.80e-03
##	2622	-8.83e-04	-9.99e-04	-3.15e-03	-3.30e-03	-3.01e-03	3.80e-03	3.73e-03
##	2623	3.80e-03	-1.12e-03	-1.48e-04	1.61e-04	1.91e-04	4.40e-04	-1.55e-04
##	2624	-1.17e-02	-3.05e-02	-2.71e-02	-2.98e-02	7.54e-03	-3.12e-02	1.24e-02
##	2625	1.66e-02	3.64e-04	-1.03e-02	-9.84e-03	-9.70e-03	-7.77e-03	-1.47e-02
##	2626	7.32e-04	-9.65e-04	4.56e-03	-1.80e-03	4.12e-03	-2.34e-03	4.00e-03
##	2627	-8.42e-03	3.61e-03	-2.16e-03	1.66e-03	1.28e-02	-7.15e-04	6.81e-03
##	2628	-3.29e-03	6.02e-03	-3.12e-03	4.27e-03	-3.09e-03	5.00e-03	4.40e-03
##	2629	7.56e-04	-2.90e-03	-1.07e-03	-2.74e-03	5.06e-03	-3.18e-03	-2.78e-03
##	2630	1.30e-02	1.21e-02	-7.25e-03	-5.21e-03	-1.02e-02	2.95e-02	1.85e-02
##	2631	-8.45e-04	2.58e-04	-9.96e-06	-3.83e-05	-4.12e-05	-2.92e-05	3.95e-05
##	2632	2.09e-04	-1.87e-03	-5.07e-04	-1.74e-03	-2.53e-04	-1.40e-03	-1.06e-04
##	2633	-3.68e-06	-4.16e-04	1.17e-03	-6.09e-04	-9.27e-04	-6.85e-04	1.07e-03
##	2634	4.67e-02	2.47e-02	2.08e-02	-3.24e-02	1.54e-02	2.92e-02	4.10e-03
##	2635	-3.91e-02	-3.30e-02	-1.53e-02	4.20e-02	-7.43e-03	-1.58e-02	-1.38e-03
##	2636	-1.67e-02	-2.12e-02	-2.10e-02	9.34e-03	-2.00e-02	-2.62e-02	2.50e-02
##	2637	-2.52e-03	2.14e-03	-1.45e-02	-1.30e-02	3.77e-03	-1.54e-02	-2.58e-04
##	2638	3.74e-02	-2.67e-04	-2.74e-02	-1.84e-02	2.54e-02	-1.63e-02	-4.18e-02
##	2639	-1.22e-02	-3.88e-03	-1.57e-02	-8.86e-03	-1.47e-02	-7.74e-03	-2.64e-02
##	2640	-5.89e-03	6.01e-04	3.61e-02	-1.55e-02	4.22e-02	-1.61e-02	-1.26e-02
##	2641	-9.01e-05	-6.33e-03	-1.67e-03	-1.97e-03	-1.85e-03	-1.91e-03	-2.72e-03
##	2642	-1.30e-03	1.42e-03	-1.06e-03	1.74e-03	-7.17e-04	-6.67e-04	-7.50e-04
##	2643	-1.62e-04	-8.59e-03	-2.38e-03	-4.06e-03	-3.49e-03	-3.33e-03	-3.14e-03
##	2644	1.23e-02	9.34e-03	6.40e-03	-1.35e-02	-1.58e-02	6.38e-03	2.08e-03
##	2645	-1.50e-03	5.00e-04	-4.08e-05	-1.21e-04	-1.22e-04	-2.60e-05	9.99e-05
##	2646	1.95e-02	-1.71e-02	1.26e-02	-3.42e-02	-3.22e-02	9.67e-03	1.56e-02
##	2647	2.08e-02	3.86e-04	-1.23e-02	-5.39e-03	-1.63e-02	-9.20e-03	1.06e-02
##	2648	-5.75e-03	2.85e-02	5.96e-03	1.00e-02	8.92e-03	1.08e-02	1.17e-02
##	2649	6.99e-03	-7.57e-03	-8.75e-03	2.12e-03	-1.01e-02	2.00e-03	4.07e-03
##	2650	1.04e-02	2.88e-03	-3.41e-03	-4.60e-04	-8.13e-03	-3.68e-03	8.15e-03
##	2651	-1.70e-02	5.51e-03	2.36e-02	-5.32e-03	-7.99e-03	-5.57e-03	2.01e-02
##	2652	-3.85e-03	7.96e-03	4.45e-03	6.38e-03	5.27e-03	-5.78e-03	5.36e-03
##	2653	1.68e-02	1.57e-02	8.18e-03	-2.03e-02	7.09e-03	8.93e-03	8.24e-03
##	2654	-3.44e-04	-6.96e-04	-5.34e-05	4.06e-04	2.32e-04	5.95e-04	1.08e-04
##	2655	-1.17e-03	-1.27e-03	-1.70e-03	8.18e-04	5.87e-04	5.19e-04	9.10e-04
##	2656	-4.85e-03	1.20e-02	7.09e-03	-1.50e-02	3.85e-03	8.44e-03	2.15e-03
##	2657	2.88e-04	6.37e-04	6.77e-04	6.21e-04	8.70e-04	6.54e-04	-1.01e-03
##	2658	-6.21e-03	-2.09e-03	-6.58e-03	-4.14e-03	2.39e-02	-1.21e-02	1.85e-02
##	2659	2.22e-03	-5.05e-03	-4.52e-03	-9.43e-03	-4.28e-03	1.08e-02	-2.44e-03
##	2660	1.70e-03	-2.20e-03	-3.23e-03	-6.87e-03	8.54e-03	7.56e-03	-5.96e-03
##	2661	-1.55e-02	-1.51e-02	-1.29e-02	-1.65e-02	1.39e-02	-1.71e-02	1.80e-02
##	2662	2.51e-03	-2.82e-03	1.58e-03	-3.48e-03	1.22e-03	1.09e-03	1.27e-03
##	2663	-2.50e-04	1.57e-03	1.12e-04	7.57e-04	-1.60e-04	4.33e-04	-1.75e-04
##	2664	-1.12e-03	2.87e-02	6.76e-03	7.72e-03	9.11e-03	8.50e-03	9.86e-03
##	2665	-1.69e-02	1.83e-02	2.56e-02	3.35e-02	-1.17e-02	-9.18e-03	-2.16e-02
##	2666	3.69e-03	-4.97e-03	1.22e-02	-7.84e-03	1.10e-02	-8.98e-03	-6.34e-03
##	2667	2.15e-03	-3.46e-03	-3.94e-03	8.65e-03	1.23e-02	-1.03e-02	-3.04e-03
##	2668	-6.20e-04	-1.57e-03	-2.65e-04	-2.01e-04	-1.31e-04	-9.04e-05	-5.03e-04
##	2669	-1.36e-02	1.28e-02	-1.13e-02	3.35e-02	-1.54e-02	-9.72e-03	1.41e-02

##	2670	-8.59e-04	-7.38e-03	-2.31e-03	-3.72e-03	-2.92e-03	-4.57e-03	-4.05e-03
##	2671	4.17e-04	3.92e-04	-3.26e-05	-1.93e-04	-1.25e-04	-1.96e-04	-6.63e-05
##	2672	-8.99e-04	-1.93e-03	-2.51e-04	-1.36e-04	-2.36e-04	-1.34e-04	-5.29e-04
##	2673	1.57e-02	3.13e-04	-9.74e-03	-7.21e-03	-7.37e-03	-6.28e-03	-1.37e-02
##	2674	-7.32e-04	-1.71e-03	-3.01e-04	-2.27e-04	-2.23e-04	-1.79e-04	-5.13e-04
##	2675	-1.40e-02	-3.13e-04	-6.80e-03	-4.14e-03	-5.51e-03	-2.60e-03	-1.12e-02
##	2676	9.65e-03	-5.43e-03	4.13e-03	3.04e-03	2.44e-03	1.80e-03	5.21e-03
##	2677	-5.00e-05	-2.07e-04	5.43e-04	-3.42e-04	-4.40e-04	-3.71e-04	4.77e-04
##	2678	-3.64e-02	-4.39e-02	-1.02e-02	-1.54e-02	-7.34e-03	-1.20e-02	-4.10e-03
##	2679	-1.78e-02	9.89e-03	-9.49e-03	3.00e-02	-6.15e-03	-6.44e-03	-1.13e-02
##	2680	6.24e-04	-1.39e-03	-1.87e-03	7.18e-03	1.02e-02	-5.52e-03	-9.52e-04
##	2681	-1.06e-06	4.32e-06	3.66e-06	1.10e-05	5.99e-06	-3.74e-05	1.18e-05
##	2682	-1.28e-02	1.78e-03	-9.91e-03	-4.16e-03	2.60e-02	-2.35e-03	-1.39e-02
##	2683	-1.67e-02	-1.14e-02	1.30e-02	1.20e-02	-1.51e-02	-2.21e-02	2.44e-02
##	2684	-1.60e-02	5.13e-03	2.41e-02	-4.37e-03	-5.35e-03	-2.96e-03	-1.10e-02
##	2685	-5.04e-05	-2.20e-03	-3.14e-04	-1.82e-03	-6.49e-05	-1.48e-03	1.84e-04
##	2686	1.53e-02	5.94e-04	-7.93e-03	-2.92e-03	-8.36e-03	-2.73e-03	1.76e-02
##	2687	-4.98e-03	1.64e-02	6.14e-03	-1.85e-02	8.44e-03	1.41e-02	9.75e-03
##	2688	-5.25e-03	1.24e-02	6.76e-03	-1.43e-02	3.55e-03	7.45e-03	1.18e-03
##	2689	3.26e-03	2.37e-03	-1.63e-04	-5.06e-04	-4.28e-04	-4.50e-04	5.28e-04
##	2690	-4.57e-04	-4.69e-03	-1.01e-03	-1.18e-03	-1.24e-03	-1.65e-03	-1.69e-03
##	2691	1.61e-03	5.10e-04	-1.42e-03	-1.45e-03	-1.48e-03	-1.43e-03	1.69e-03
##	2692	6.14e-04	6.33e-04	-3.03e-03	1.42e-03	2.15e-03	1.76e-03	-2.33e-03
##	2693	-5.06e-03	-4.87e-03	3.59e-03	3.13e-03	2.23e-03	2.15e-03	4.85e-03
##	2694	5.98e-05	-6.44e-03	-1.88e-03	-2.26e-03	-1.99e-03	-2.18e-03	-2.63e-03
##	2695	1.21e-02	-1.35e-02	-2.01e-02	9.76e-03	1.58e-02	-3.61e-02	-2.20e-02
##	2696	-2.88e-04	8.24e-03	8.70e-03	9.22e-03	6.50e-03	6.13e-03	4.73e-03
##	2697	1.22e-03	1.36e-03	-1.24e-05	-2.25e-05	1.91e-04	4.09e-04	4.17e-04
##	2698	-4.40e-03	2.47e-02	6.36e-03	1.01e-02	5.01e-03	8.68e-03	2.37e-03
##	2699	-3.28e-02	-3.85e-02	-8.58e-03	-1.09e-02	-4.23e-03	-9.57e-03	-3.92e-03
##	2700	-3.33e-03	6.38e-03	3.41e-03	4.21e-03	-3.26e-03	3.93e-03	4.02e-03
##	2701	-2.77e-03	1.04e-03	-2.19e-04	-3.11e-04	-3.23e-04	-4.23e-05	1.93e-04
##	2702	1.60e-02	5.27e-03	-9.27e-03	-9.37e-03	2.71e-02	-7.85e-03	-1.74e-02
##	2703	1.08e-02	1.71e-02	-4.48e-03	-2.02e-03	1.91e-02	2.57e-02	8.78e-03
##	2704	-1.06e-02	8.58e-03	-5.56e-03	2.62e-02	-8.49e-03	-3.30e-03	1.14e-02
##	2705	-2.43e-03	2.06e-04	-2.06e-02	4.95e-03	-1.83e-02	7.23e-03	-1.65e-02
##	2706	-9.66e-04	-2.12e-03	-3.43e-04	-1.43e-04	-1.19e-04	-1.90e-04	-5.93e-04
##	2707	2.89e-02	-4.77e-03	-1.96e-02	-1.47e-02	-2.61e-02	-1.97e-02	7.80e-03
##	2708	3.95e-03	4.34e-04	8.27e-03	-1.67e-02	6.99e-03	9.33e-03	3.91e-03
##	2709	-4.89e-05	-8.97e-03	-2.63e-03	-4.40e-03	-3.44e-03	-3.43e-03	-3.11e-03
##	2710	2.70e-03	-9.66e-04	1.15e-02	1.09e-02	-4.24e-03	-6.65e-03	1.74e-02
##	2711	9.77e-03	-6.13e-03	-1.45e-03	-3.57e-03	-2.70e-03	-4.00e-03	-2.94e-03
##	2712	-6.61e-03	2.24e-02	7.33e-03	1.01e-02	5.26e-03	7.01e-03	2.97e-03
##	2713	-4.62e-03	-5.14e-03	2.55e-03	2.15e-03	1.64e-03	1.49e-03	3.75e-03
##	2714	3.04e-04	1.36e-03	1.52e-03	1.38e-03	1.72e-03	1.31e-03	-1.47e-03
##	2715	-1.03e-03	1.20e-03	1.17e-03	-8.54e-04	1.42e-03	-7.38e-04	-9.21e-04
##	2716	-3.54e-02	-4.76e-02	-1.37e-02	-1.82e-02	-9.56e-03	-1.34e-02	-5.21e-03
##	2717	1.48e-02	1.41e-04	-6.86e-03	-2.42e-03	-8.41e-03	-2.71e-03	-1.74e-02
##	2718	1.04e-04	1.27e-04	3.16e-06	-5.99e-05	-3.74e-05	-7.50e-05	-1.26e-05
##	2719	-9.52e-04	-4.65e-03	-1.04e-03	-1.54e-03	-1.33e-03	-1.83e-03	-1.97e-03

## 2720	1.58e-03	1.81e-03	-1.80e-05	1.82e-05	1.60e-04	5.00e-04	5.07e-04
## 2721	4.08e-03	1.07e-02	1.02e-02	1.21e-02	8.87e-03	1.01e-02	6.81e-03
## 2722	-1.56e-04	-2.34e-04	7.68e-06	1.11e-04	6.73e-05	1.73e-04	4.01e-05
## 2723	-1.06e-02	2.71e-03	-3.07e-03	6.33e-04	-7.11e-03	-2.83e-03	9.00e-03
## 2724	1.31e-03	-5.85e-03	-1.38e-02	-1.45e-02	-9.95e-03	1.39e-02	-1.01e-02
## 2725	-1.13e-02	1.24e-03	-4.04e-03	-1.63e-03	-5.68e-03	-2.70e-03	-1.42e-02
## 2726	4.68e-03	-6.27e-03	-8.83e-03	1.13e-02	1.80e-02	-1.38e-02	-3.42e-03
## 2727	2.31e-03	-5.24e-03	-3.89e-03	-8.30e-03	-4.50e-03	7.39e-03	-3.69e-03
## 2728	-2.23e-04	-5.32e-03	-9.73e-04	-1.16e-03	-1.53e-03	-1.43e-03	-1.85e-03
## 2729	-7.29e-03	3.23e-02	7.46e-03	8.69e-03	8.08e-03	1.06e-02	-3.36e-02
## 2730	-5.12e-04	-5.79e-03	-1.53e-03	-2.01e-03	-1.81e-03	-2.20e-03	-2.35e-03
## 2731	5.46e-03	6.39e-03	1.68e-02	8.81e-03	1.05e-02	3.37e-03	1.26e-02
## 2732	2.42e-03	2.86e-03	-9.46e-03	1.07e-02	1.43e-02	5.61e-03	1.82e-02
## 2733	1.63e-03	-1.53e-03	1.23e-02	8.98e-03	-2.83e-03	-7.45e-03	-6.94e-05
## 2734	-1.82e-03	2.80e-03	2.08e-03	-1.68e-03	-1.35e-03	3.59e-03	-1.65e-03
## 2735	1.00e-03	6.76e-04	1.20e-02	1.00e-02	1.37e-02	-7.68e-03	-1.11e-03
## 2736	8.49e-03	-4.77e-02	-1.28e-02	-2.01e-02	-9.33e-03	-1.67e-02	-5.29e-03
## 2737	1.06e-02	1.59e-03	-3.68e-03	6.02e-04	-7.35e-03	-2.07e-03	8.90e-03
## 2738	-6.63e-03	-4.56e-03	4.93e-03	3.22e-03	6.16e-03	3.91e-03	-4.46e-03
## 2739	-1.16e-03	-6.58e-04	-1.51e-04	-3.89e-04	-2.86e-05	-2.19e-04	8.52e-05
## 2740	-1.58e-02	-3.15e-03	1.30e-02	1.24e-02	-4.40e-03	-8.32e-03	4.97e-04
## 2741	-8.42e-03	5.51e-04	-3.02e-03	4.42e-04	-4.11e-03	9.49e-05	1.21e-02
## 2742	-1.43e-04	-1.47e-04	2.05e-05	9.69e-05	5.89e-05	1.07e-04	3.84e-05
## 2743	-3.55e-04	-7.88e-03	-2.28e-03	-3.97e-03	-3.18e-03	-3.31e-03	-3.03e-03
## 2744	-4.70e-03	-7.77e-03	-7.84e-03	-5.02e-03	-1.43e-02	-1.12e-02	2.05e-02
## 2745	1.12e-02	1.80e-02	7.93e-03	9.30e-03	-9.70e-03	1.15e-02	-9.15e-03
## 2746	-3.46e-04	-5.25e-03	-1.55e-03	-1.84e-03	-1.23e-03	-1.73e-04	-1.18e-03
## 2747	1.18e-03	1.05e-02	1.12e-02	1.11e-02	7.60e-03	7.88e-03	8.25e-03
## 2748	-3.41e-03	2.08e-02	-3.06e-02	3.65e-02	-2.57e-02	4.90e-02	-1.54e-02
## 2749	-1.10e-02	1.58e-03	-2.88e-03	-1.00e-03	-7.29e-03	-3.22e-03	8.37e-03
## 2750	5.28e-03	-1.03e-02	7.30e-03	-1.39e-02	-1.56e-02	-1.48e-02	6.16e-03
## 2751	-1.06e-03	-2.23e-03	-4.30e-04	-7.72e-04	-7.01e-04	-1.33e-03	-1.04e-03
## 2752	4.40e-04	2.72e-02	6.98e-03	8.35e-03	8.23e-03	8.59e-03	1.03e-02
## 2753	3.97e-04	-2.42e-04	3.35e-03	-1.43e-03	-1.64e-03	2.51e-03	2.68e-03
## 2754	-1.86e-04	-6.30e-03	-1.74e-03	-2.18e-03	-1.92e-03	-2.20e-03	-2.51e-03
## 2755	-5.83e-05	-6.21e-03	-1.74e-03	-2.09e-03	-1.67e-03	-1.85e-03	-2.70e-03
## 2756	-1.37e-03	-3.48e-03	-5.86e-04	-1.05e-03	-6.58e-04	-4.38e-04	-8.27e-04
## 2757	-2.02e-03	-1.19e-02	-1.04e-02	-7.35e-03	-1.20e-02	-7.58e-03	-1.68e-02
## 2758	-1.50e-02	-6.42e-03	1.15e-02	1.32e-02	-6.69e-03	-1.03e-02	-1.44e-03
## 2759	-5.77e-03	-1.77e-03	-1.73e-03	-3.15e-03	3.70e-03	3.11e-03	3.55e-03
## 2760	5.26e-03	3.11e-04	-4.38e-03	-3.85e-03	-5.40e-03	-4.84e-03	8.25e-04
## 2761	-2.17e-02	1.05e-03	1.43e-02	1.01e-02	1.07e-02	8.30e-03	1.83e-02
## 2762	1.18e-03	-5.16e-03	-1.58e-03	-4.02e-03	-1.48e-03	-3.55e-03	-5.66e-04
## 2763	6.33e-03	-6.05e-03	1.36e-02	1.07e-02	-1.36e-02	-1.75e-02	1.35e-02
## 2764	-6.19e-04	-2.97e-03	-6.36e-04	-2.58e-04	-3.60e-04	1.01e-04	-8.20e-04
## 2765	5.05e-03	3.18e-02	7.09e-03	9.72e-03	9.18e-03	1.13e-02	1.44e-02
## 2766	-1.25e-02	5.25e-04	-7.48e-03	-2.27e-03	-1.12e-02	-4.59e-03	1.05e-02
## 2767	-4.45e-03	1.04e-02	5.90e-03	-1.90e-02	-1.97e-02	9.85e-03	9.55e-03
## 2768	-4.85e-03	-5.57e-03	3.37e-03	2.44e-03	-7.55e-03	3.08e-03	7.64e-03
## 2769	1.12e-03	5.08e-03	8.17e-03	9.24e-03	-1.73e-02	7.20e-03	6.74e-03

##	2770	-3.33e-03	1.37e-02	6.17e-03	1.02e-02	5.30e-03	-1.69e-02	3.29e-03
##	2771	-3.47e-02	-3.79e-02	-3.58e-02	3.72e-02	-2.70e-02	4.87e-02	-1.29e-02
##	2772	2.08e-02	4.42e-03	2.47e-02	-6.82e-03	-8.76e-03	-3.20e-03	-1.32e-02
##	2773	-4.69e-04	-5.70e-03	-1.51e-03	-1.97e-03	-1.71e-03	-2.07e-03	-2.40e-03
##	2774	-1.93e-02	-9.40e-04	-2.35e-02	1.36e-02	1.24e-02	1.43e-02	1.90e-02
##	2775	-1.25e-02	6.92e-04	-6.35e-03	-1.97e-03	-7.01e-03	-3.58e-03	1.65e-02
##	2776	1.39e-02	-6.59e-03	4.39e-02	3.60e-02	4.19e-02	3.09e-02	5.63e-02
##	2777	5.05e-03	-7.17e-03	-2.62e-02	8.08e-03	1.16e-02	-3.11e-02	1.52e-02
##	2778	5.13e-03	3.02e-03	4.07e-03	-4.25e-03	-3.15e-03	-2.64e-03	-3.29e-03
##	2779	7.74e-03	-9.81e-03	-1.35e-02	-2.11e-02	1.30e-02	8.97e-03	1.85e-02
##	2780	1.25e-02	1.93e-02	-6.56e-03	-4.18e-03	2.14e-02	2.79e-02	9.49e-03
##	2781	1.20e-02	-1.06e-02	-1.67e-02	1.42e-02	-9.04e-03	-1.28e-02	-2.60e-03
##	2782	-2.30e-03	4.70e-03	-4.70e-03	-3.79e-03	2.76e-03	5.00e-03	1.47e-03
##	2783	-2.85e-03	9.11e-04	-3.00e-04	-4.27e-04	-2.73e-04	-6.21e-05	-9.30e-05
##	2784	6.40e-04	-7.99e-04	-1.18e-03	-2.83e-03	3.89e-03	3.87e-03	3.95e-03
##	2785	1.75e-02	-4.27e-03	1.50e-02	6.67e-03	-3.08e-02	9.36e-03	-2.40e-02
##	2786	-1.40e-02	2.66e-02	1.84e-02	2.86e-02	-5.39e-02	1.98e-02	6.60e-03
##	2787	-1.44e-03	1.97e-03	1.55e-03	-1.37e-03	-9.48e-04	2.44e-03	-1.16e-03
##	2788	-4.63e-03	1.63e-02	-1.49e-02	8.83e-03	3.97e-03	7.01e-03	1.43e-03
##	2789	2.50e-02	-1.55e-02	1.13e-02	-4.25e-02	8.00e-03	8.15e-03	1.48e-02
##	2790	-3.63e-03	6.02e-03	-8.24e-03	-7.84e-03	3.01e-03	5.47e-03	5.54e-04
##	2791	-1.17e-02	-1.74e-03	-7.13e-03	-2.94e-03	-4.55e-03	-6.64e-04	-9.35e-03
##	2792	3.91e-03	-3.24e-03	1.53e-02	-1.67e-02	1.23e-02	8.27e-03	-1.38e-02
##	2793	-1.02e-02	5.11e-03	-2.18e-03	9.28e-04	1.37e-02	-2.95e-03	6.40e-03
##	2794	1.35e-02	6.45e-03	-6.15e-03	-1.67e-03	1.81e-02	-7.10e-03	8.31e-03
##	2795	9.41e-04	1.38e-03	6.72e-05	8.16e-05	2.14e-04	2.80e-04	4.50e-04
##	2796	-9.68e-04	-3.98e-03	-5.83e-04	-8.28e-04	-1.19e-03	-1.70e-03	-1.34e-03
##	2797	1.24e-03	-1.93e-03	-2.73e-03	9.58e-03	1.27e-02	-7.45e-03	-6.70e-04
##	2798	-1.15e-02	1.31e-02	-1.43e-02	-5.89e-03	1.83e-02	3.36e-02	8.85e-03
##	2799	-4.54e-04	-5.22e-04	-3.47e-05	-1.41e-05	1.43e-05	1.55e-04	-5.50e-05
##	2800	-3.31e-03	-2.42e-02	-2.05e-02	-2.77e-02	-2.33e-02	-2.64e-02	-1.69e-02
##	2801	5.76e-03	-5.22e-03	4.53e-03	2.42e-03	-6.94e-03	3.72e-03	-3.47e-03
##	2802	2.60e-03	3.50e-03	-2.64e-03	-2.97e-03	-2.03e-03	4.93e-03	-2.43e-03
##	2803	-2.28e-04	-2.69e-03	-5.15e-04	-8.55e-05	-3.32e-04	2.46e-04	-5.06e-04
##	2804	-2.01e-02	-2.10e-02	9.64e-03	-4.32e-02	1.93e-02	1.34e-02	-1.86e-02
##	2805	-8.61e-04	1.44e-03	-1.44e-02	8.22e-03	-1.74e-02	5.46e-03	5.63e-03
##	2806	9.41e-04	-1.10e-03	1.38e-02	9.70e-03	-3.54e-03	-1.02e-02	-5.44e-04
##	2807	2.91e-04	2.71e-04	-2.81e-05	-1.62e-04	-8.51e-05	-1.61e-04	-4.00e-05
##	2808	-5.32e-03	7.13e-03	1.39e-02	-3.74e-02	-5.40e-02	3.40e-02	5.74e-03
##	2809	-1.75e-03	5.36e-04	-2.68e-05	-7.39e-05	-7.07e-05	-2.59e-05	1.14e-04
##	2810	7.59e-04	1.21e-03	2.07e-03	1.70e-03	-3.91e-03	1.84e-03	3.51e-03
##	2811	1.20e-02	1.70e-02	-7.19e-03	-4.93e-03	2.46e-02	2.95e-02	1.79e-02
##	2812	5.27e-05	-5.30e-04	-4.64e-04	-1.98e-03	-3.25e-04	5.18e-03	1.02e-04
##	2813	2.28e-04	2.07e-04	-6.05e-06	-8.08e-05	-7.31e-05	-9.84e-05	3.71e-06
##	2814	2.87e-02	1.47e-02	-2.02e-02	3.68e-02	-2.60e-02	-1.78e-02	1.71e-02
##	2815	-2.78e-03	8.50e-03	-1.58e-02	-1.42e-02	3.54e-03	8.45e-03	1.00e-04
##	2816	1.32e-03	-6.36e-04	-1.03e-04	-1.76e-04	-1.31e-04	-2.47e-04	-3.05e-04
##	2817	-1.12e-02	-7.32e-04	-4.76e-03	-1.53e-03	-3.74e-03	3.87e-04	-8.01e-03
##	2818	-4.72e-02	-3.68e-03	4.04e-02	3.83e-02	4.47e-02	4.57e-02	-3.13e-02
##	2819	-6.63e-04	-7.56e-04	-6.67e-05	-2.41e-05	9.72e-05	1.94e-04	-2.36e-05

## 2820	1.68e-03	1.12e-03	-3.68e-05	-3.42e-04	-2.90e-04	-2.21e-04	1.07e-04
## 2821	1.82e-02	-9.65e-03	-3.05e-03	-5.80e-03	-4.33e-03	-5.48e-03	-3.95e-03
## 2822	-5.48e-03	2.14e-02	6.56e-03	1.07e-02	6.43e-03	9.64e-03	4.01e-03
## 2823	-4.62e-03	2.19e-02	-2.40e-02	9.15e-03	3.74e-03	9.02e-03	2.68e-03
## 2824	-3.28e-04	-1.99e-03	-4.97e-04	5.41e-04	6.09e-04	1.72e-03	1.49e-04
## 2825	1.60e-02	-1.21e-03	-9.08e-03	-4.74e-03	-6.59e-03	-2.67e-03	-1.18e-02
## 2826	3.33e-03	-4.19e-03	2.78e-03	2.00e-03	3.45e-03	-5.72e-03	-2.38e-03
## 2827	-9.97e-03	7.51e-03	1.80e-02	-9.03e-04	1.83e-02	-1.69e-03	1.41e-02
## 2828	6.08e-03	6.52e-03	-5.84e-03	6.10e-03	5.35e-03	-6.25e-03	-8.32e-03
## 2829	3.42e-03	-3.75e-03	2.34e-03	2.09e-03	3.33e-03	-5.17e-03	-2.21e-03
## 2830	-2.64e-04	-4.01e-04	-1.94e-05	2.70e-06	-3.90e-05	-7.56e-05	-7.56e-05
## 2831	1.46e-04	1.29e-04	-1.32e-04	-1.51e-04	1.25e-04	-2.04e-04	4.72e-05
## 2832	6.31e-03	1.81e-05	-1.26e-02	9.68e-03	1.73e-02	9.81e-03	-8.84e-03
## 2833	1.76e-04	2.72e-02	7.17e-03	8.50e-03	8.44e-03	8.72e-03	1.06e-02
## 2834	-2.02e-05	-1.99e-05	8.29e-08	7.48e-06	4.91e-06	1.12e-05	-4.78e-07
## 2835	8.99e-04	9.15e-04	-5.91e-05	-4.27e-04	-2.55e-04	-4.49e-04	1.30e-05
## 2836	-1.02e-02	-1.49e-02	-1.11e-02	-1.20e-02	7.91e-03	-1.59e-02	9.17e-03
## 2837	3.91e-03	1.02e-02	9.89e-03	1.16e-02	8.97e-03	9.85e-03	6.89e-03
## 2838	6.27e-03	-1.21e-02	6.60e-03	-1.72e-02	-1.59e-02	-1.64e-02	1.21e-02
## 2839	1.20e-03	8.55e-04	-1.85e-04	-5.46e-04	-2.75e-04	-4.17e-04	-1.17e-04
## 2840	-9.75e-03	7.82e-03	-2.53e-03	2.25e-02	-5.91e-03	-1.38e-03	1.01e-02
## 2841	-1.66e-02	-2.67e-02	-2.95e-02	8.98e-03	-2.76e-02	-3.38e-02	2.95e-02
## 2842	-6.26e-03	1.72e-02	6.55e-03	-2.73e-02	8.11e-03	1.18e-02	1.10e-02
## 2843	1.23e-02	-2.45e-03	-2.03e-02	1.13e-02	1.05e-02	6.36e-03	1.29e-02
## 2844	-3.88e-03	7.28e-03	5.21e-03	-7.18e-03	-9.33e-03	7.63e-03	3.54e-03
## 2845	-6.62e-04	-5.62e-03	-1.32e-03	-1.76e-03	-1.81e-03	-2.12e-03	-2.31e-03
## 2846	2.77e-03	-1.45e-03	1.86e-02	9.94e-03	1.91e-02	-2.37e-02	-6.31e-03
## 2847	-1.80e-03	-1.47e-03	1.23e-03	1.25e-03	1.02e-03	8.18e-04	1.23e-03
## 2848	4.62e-03	-2.24e-03	2.67e-03	2.68e-03	1.76e-03	1.43e-03	2.81e-03
## 2849	2.67e-03	3.69e-03	1.32e-02	1.03e-02	-1.01e-02	9.04e-03	1.27e-02
## 2850	1.66e-02	1.15e-02	6.59e-03	-1.68e-02	-1.63e-02	1.21e-02	-1.89e-02
## 2851	6.13e-04	5.75e-04	-4.03e-05	-2.92e-04	-1.79e-04	-2.99e-04	-6.39e-05
## 2852	2.86e-02	3.26e-02	6.99e-03	8.79e-03	3.85e-03	8.15e-03	3.02e-03
## 2853	8.58e-04	-1.38e-03	8.94e-04	-1.56e-03	-1.25e-03	6.69e-04	-1.19e-03
## 2854	-1.26e-03	-7.81e-03	-1.92e-03	-3.53e-03	-2.88e-03	-3.63e-03	-2.68e-03
## 2855	-1.42e-03	-1.47e-03	1.22e-03	1.55e-03	9.32e-04	1.19e-03	1.54e-03
## 2856	5.63e-04	3.55e-03	2.04e-02	9.35e-03	-9.66e-03	9.32e-03	-4.59e-03
## 2857	1.21e-02	2.00e-03	-5.70e-03	-3.47e-03	-7.69e-03	-4.93e-03	-1.75e-02
## 2858	1.70e-02	-3.46e-04	-1.00e-02	-7.37e-03	-8.22e-03	-5.51e-03	-1.45e-02
## 2859	-4.57e-03	2.59e-02	6.71e-03	1.06e-02	5.20e-03	8.99e-03	2.90e-03
## 2860	-3.22e-03	8.76e-03	-2.19e-02	7.23e-03	6.21e-03	-2.13e-02	-2.58e-02
## 2861	2.78e-04	-5.91e-04	-5.65e-04	-1.17e-03	-3.01e-04	3.30e-03	-9.57e-05
## 2862	-2.22e-02	-8.93e-03	-3.23e-02	7.94e-03	1.40e-02	9.76e-03	2.89e-02
## 2863	-8.13e-04	-2.04e-03	-2.83e-04	-1.47e-04	-1.78e-04	-3.88e-05	-5.95e-04
## 2864	-2.26e-02	-5.79e-03	-2.33e-02	8.47e-03	1.41e-02	9.82e-03	-2.26e-02
## 2865	1.17e-02	2.52e-03	-4.90e-03	-1.36e-03	-8.89e-03	-4.90e-03	8.56e-03
## 2866	1.60e-03	-4.01e-04	1.18e-02	1.12e-02	-9.43e-04	-5.15e-03	1.60e-03
## 2867	-1.16e-02	-7.17e-05	-8.17e-03	-3.27e-03	-8.89e-03	-3.88e-03	1.68e-02
## 2868	2.04e-04	-5.08e-05	-1.90e-06	1.89e-05	8.22e-06	1.59e-05	-5.77e-06
## 2869	-1.12e-02	5.42e-04	-1.03e-02	-3.11e-03	-1.41e-02	-6.58e-03	1.15e-02

##	2870	2.09e-03	1.41e-03	-1.05e-04	-4.77e-04	-3.58e-04	-3.02e-04	2.11e-04
##	2871	-1.17e-02	-1.14e-03	-1.04e-02	-5.50e-03	-1.17e-02	-4.89e-03	-2.23e-02
##	2872	-1.11e-03	-3.94e-03	-8.83e-04	-1.30e-03	-8.35e-04	-4.28e-04	-1.05e-03
##	2873	-5.85e-03	-3.14e-03	1.66e-02	-2.14e-02	-3.42e-02	-1.93e-02	1.18e-02
##	2874	-2.46e-02	-6.55e-03	1.50e-02	8.14e-03	-2.64e-02	1.06e-02	-2.04e-02
##	2875	-2.25e-03	3.88e-04	1.59e-02	-1.83e-02	1.97e-02	-1.69e-02	1.17e-02
##	2876	-2.37e-02	-2.31e-03	1.28e-02	7.54e-03	1.56e-02	9.66e-03	2.98e-02
##	2877	-3.84e-03	4.88e-03	4.78e-03	-6.75e-03	5.62e-03	-6.69e-03	5.62e-03
##	2878	-8.80e-03	3.03e-02	7.10e-03	6.74e-03	1.15e-02	1.19e-02	-2.45e-02
##	2879	-2.37e-03	7.43e-04	-1.77e-04	-3.06e-04	-1.89e-04	-5.26e-05	-4.97e-05
##	2880	-2.30e-03	-2.83e-03	1.60e-03	2.19e-03	1.43e-03	1.77e-03	2.39e-03
##	2881	4.10e-04	-3.13e-03	-8.00e-04	-2.74e-03	-3.85e-04	-1.94e-03	9.67e-06
##	2882	-1.02e-02	-7.88e-03	9.69e-03	-7.57e-03	-3.83e-03	-7.15e-03	-2.22e-03
##	2883	8.11e-03	-4.21e-02	-1.09e-02	-1.43e-02	-6.69e-03	-1.36e-02	-5.58e-03
##	2884	1.40e-02	-6.31e-04	-8.57e-03	-5.33e-03	-5.57e-03	-3.00e-03	-1.20e-02
##	2885	-5.15e-04	-6.98e-04	-2.23e-03	-2.50e-03	-2.41e-03	3.03e-03	-3.25e-03
##	2886	4.25e-02	-1.05e-02	-3.19e-02	-2.46e-02	-2.26e-02	-1.08e-02	-2.56e-02
##	2887	1.21e-02	1.74e-03	-5.64e-03	-3.40e-03	-7.72e-03	-4.99e-03	-1.77e-02
##	2888	5.11e-05	-6.77e-03	-1.94e-03	-2.33e-03	-2.03e-03	-2.23e-03	-2.63e-03
##	2889	-4.54e-02	-2.75e-02	4.33e-02	4.22e-02	-1.01e-02	-2.02e-02	1.09e-03
##	2890	2.92e-02	-2.48e-02	-4.06e-02	3.33e-02	4.85e-02	3.68e-02	-2.28e-02
##	2891	-1.43e-03	-2.46e-03	-3.65e-04	-6.83e-04	-4.70e-04	-6.06e-04	-7.08e-04
##	2892	-9.62e-04	-4.61e-03	-1.14e-03	-1.55e-03	-1.01e-03	-3.82e-04	-1.09e-03
##	2893	1.43e-03	-5.02e-04	-3.71e-05	4.75e-05	1.01e-04	1.42e-04	-7.00e-05
##	2894	5.42e-03	-1.30e-02	-1.76e-02	-1.58e-02	-1.07e-02	-8.22e-03	-9.19e-03
##	2895	1.43e-03	3.14e-03	3.18e-03	2.96e-03	2.78e-03	2.48e-03	5.28e-03
##	2896	1.46e-02	-1.15e-03	-8.46e-03	-5.45e-03	-5.86e-03	-2.32e-03	-1.20e-02
##	2897	1.62e-04	1.41e-04	-5.00e-04	-1.69e-03	4.28e-03	4.22e-03	-1.62e-03
##	2898	-2.05e-02	-1.29e-02	1.29e-02	-4.01e-02	8.53e-03	6.72e-03	1.34e-02
##	2899	2.93e-03	-2.71e-03	-1.26e-02	1.05e-02	7.02e-03	-1.58e-02	5.91e-03
##	2900	2.64e-02	-4.46e-03	-1.94e-02	-1.67e-02	-1.55e-02	-1.13e-02	-2.09e-02
##	2901	-1.36e-02	-6.18e-03	1.16e-02	1.39e-02	-1.37e-02	-1.62e-02	1.63e-02
##	2902	-3.92e-03	1.50e-02	7.20e-03	1.06e-02	4.75e-03	-1.90e-02	4.44e-03
##	2903	1.86e-02	2.56e-04	-9.90e-03	-4.19e-03	-1.45e-02	-7.19e-03	1.04e-02
##	2904	-1.37e-02	1.14e-02	-8.20e-03	3.18e-02	-1.27e-02	-6.95e-03	1.35e-02
##	2905	-1.35e-03	2.29e-03	-1.79e-03	2.51e-03	1.51e-03	-1.96e-03	9.25e-04
##	2906	4.59e-03	-1.44e-03	-2.92e-05	3.75e-05	5.97e-05	3.45e-04	1.05e-04
##	2907	1.56e-02	5.83e-03	-9.49e-03	-9.68e-03	3.00e-02	-9.13e-03	-1.63e-02
##	2908	1.33e-02	-8.37e-03	-2.66e-02	6.13e-03	-2.77e-02	5.08e-03	2.87e-02
##	2909	-4.78e-05	-3.24e-04	-3.65e-04	-3.35e-04	-1.90e-04	-1.96e-04	-2.62e-04
##	2910	-9.26e-03	2.27e-02	7.83e-03	8.21e-03	1.15e-02	1.23e-02	-1.34e-02
##	2911	1.16e-03	1.91e-03	1.67e-03	1.94e-03	1.10e-03	1.30e-03	1.37e-03
##	2912	-6.16e-04	-4.58e-03	6.15e-03	-9.48e-03	6.07e-03	-1.04e-02	6.42e-03
##	2913	2.00e-03	1.54e-03	-1.59e-04	-1.27e-04	-9.41e-05	-1.27e-04	1.04e-05
##	2914	4.43e-03	-4.00e-04	-3.03e-02	6.00e-03	-2.85e-02	7.81e-03	1.79e-02
##	2915	-2.29e-03	5.07e-03	-7.75e-03	7.85e-03	1.06e-02	9.84e-03	-5.41e-03
##	2916	7.86e-03	-5.22e-03	3.38e-03	2.58e-03	2.02e-03	1.62e-03	4.24e-03
##	2917	-1.03e-02	1.81e-03	-4.00e-03	-1.76e-05	-7.66e-03	-3.15e-03	8.36e-03
##	2918	2.41e-02	1.17e-02	-1.59e-02	3.63e-02	-1.97e-02	-1.32e-02	1.59e-02
##	2919	-1.26e-02	-4.84e-03	1.11e-02	-1.09e-02	-8.50e-03	8.13e-03	-8.77e-03

##	2920	1.82e-02	6.22e-03	2.61e-02	-8.55e-03	-8.51e-03	-7.49e-03	-1.50e-02
##	2921	-1.39e-02	-2.85e-03	1.28e-02	1.18e-02	-3.13e-03	-7.90e-03	8.92e-04
##	2922	1.31e-04	-1.05e-03	-1.39e-04	-6.82e-04	-1.49e-06	-4.24e-04	1.92e-04
##	2923	-2.07e-02	-8.66e-04	1.22e-02	8.79e-03	9.77e-03	8.16e-03	1.92e-02
##	2924	7.03e-03	2.64e-03	6.24e-04	9.85e-04	-7.64e-03	1.57e-03	-8.01e-03
##	2925	1.73e-04	-1.44e-03	-2.12e-03	-1.79e-03	1.97e-03	-2.29e-03	1.37e-03
##	2926	3.67e-03	-9.68e-04	-9.79e-05	2.81e-04	2.15e-04	3.66e-04	1.03e-04
##	2927	1.26e-02	-1.05e-02	-2.45e-02	6.08e-03	-2.41e-02	9.22e-03	-1.25e-02
##	2928	1.65e-03	-3.95e-03	-5.33e-03	1.28e-02	-2.49e-03	-9.13e-03	1.33e-03
##	2929	-1.65e-03	6.70e-04	-5.57e-05	3.43e-05	3.86e-06	5.70e-05	6.90e-05
##	2930	-6.35e-04	-4.21e-03	-8.09e-04	-9.50e-04	-1.15e-03	-1.51e-03	-1.63e-03
##	2931	6.33e-03	-3.14e-03	2.97e-03	3.11e-03	1.97e-03	1.65e-03	3.43e-03
##	2932	1.17e-02	-7.37e-03	-2.05e-02	6.91e-03	-1.96e-02	1.11e-02	-9.93e-03
##	2933	1.78e-03	1.04e-03	-4.27e-03	9.14e-03	-5.96e-03	8.54e-03	1.51e-02
##	2934	2.50e-03	-3.28e-03	-5.30e-03	1.05e-02	1.22e-02	-9.63e-03	1.47e-02
##	2935	1.73e-02	2.26e-02	2.75e-02	-8.84e-03	3.13e-02	3.79e-02	-1.80e-02
##	2936	6.82e-03	-1.39e-03	3.15e-02	-9.93e-03	3.00e-02	-1.36e-02	2.71e-02
##	2937	2.21e-04	-4.37e-04	-5.15e-04	-1.34e-03	-7.82e-04	2.86e-03	-1.07e-03
##	2938	4.60e-04	4.61e-04	1.42e-05	-1.17e-04	-1.05e-04	-2.00e-04	3.82e-05
##	2939	5.78e-03	-1.74e-03	-3.65e-04	-4.74e-04	-1.58e-04	2.06e-04	-1.70e-04
##	2940	4.18e-03	-1.43e-02	-1.65e-02	-1.87e-02	8.63e-03	-1.72e-02	-2.09e-02
##	2941	-1.61e-02	-1.11e-02	1.17e-02	-2.72e-02	9.97e-03	1.02e-02	1.26e-02
##	2942	4.94e-03	-2.03e-03	1.52e-02	1.20e-02	1.04e-02	-1.95e-02	1.36e-02
##	2943	-1.71e-02	-3.91e-03	-8.81e-03	9.28e-03	-1.21e-02	8.72e-03	-9.79e-03
##	2944	-7.67e-03	-2.26e-04	-1.71e-02	-5.78e-03	1.81e-02	-7.24e-03	9.21e-03
##	2945	6.20e-04	-4.99e-04	-8.23e-04	6.06e-04	9.02e-04	7.01e-04	-4.42e-04
##	2946	-3.21e-04	-8.61e-03	-2.47e-03	-4.19e-03	-3.23e-03	-3.33e-03	-3.16e-03
##	2947	-3.98e-03	6.10e-03	5.35e-03	-1.00e-02	7.13e-03	-9.39e-03	7.53e-03
##	2948	-1.58e-03	-5.28e-03	-8.19e-04	-1.93e-03	-1.94e-03	-2.53e-03	-1.73e-03
##	2949	-1.33e-02	1.15e-02	2.28e-02	-4.47e-03	2.02e-02	-8.39e-03	9.32e-03
##	2950	-1.58e-02	-1.88e-03	-9.23e-03	-8.04e-03	-7.56e-03	-5.02e-03	-1.30e-02
##	2951	-1.09e-02	1.83e-03	-3.39e-03	4.10e-04	-7.17e-03	-2.86e-03	8.89e-03
##	2952	-1.98e-02	-4.85e-03	-1.14e-02	8.44e-03	-1.15e-02	1.10e-02	-5.55e-03
##	2953	2.62e-02	-7.91e-03	-3.77e-02	7.70e-03	7.83e-03	6.10e-03	1.86e-02
##	2954	-5.67e-05	-6.24e-03	-1.67e-03	-1.96e-03	-1.85e-03	-1.90e-03	-2.73e-03
##	2955	1.14e-02	-1.90e-02	-1.39e-02	-1.77e-02	1.21e-02	-2.01e-02	-1.56e-02
##	2956	-1.36e-02	1.17e-02	-9.96e-03	3.23e-02	-1.37e-02	-8.46e-03	1.34e-02
##	2957	-3.36e-03	9.40e-03	-1.56e-02	8.48e-03	3.89e-03	-1.71e-02	2.56e-03
##	2958	-7.31e-03	-1.58e-03	-1.89e-02	-2.22e-02	-1.54e-02	3.89e-02	-1.67e-02
##	2959	7.58e-03	-3.38e-03	-4.05e-04	-1.02e-03	-9.19e-04	-1.16e-03	-7.57e-04
##	2960	1.08e-02	6.37e-03	5.14e-03	-8.76e-03	4.52e-03	-9.59e-03	2.37e-03
##	2961	-1.22e-02	-4.24e-03	-3.31e-02	-2.52e-02	3.30e-02	-1.71e-02	-3.06e-02
##	2962	7.46e-04	1.18e-02	1.18e-02	5.45e-03	1.77e-02	9.74e-03	-2.51e-02
##	2963	8.73e-04	-2.40e-03	-1.12e-03	-1.65e-03	-3.65e-04	-1.16e-03	-1.33e-04
##	2964	-1.81e-02	-1.75e-02	-3.66e-02	7.71e-03	-3.22e-02	1.11e-02	3.04e-02
##	2965	1.13e-04	-2.74e-04	1.02e-03	-2.43e-04	-2.44e-06	-1.95e-04	8.40e-05
##	2966	1.43e-02	-1.05e-03	-7.92e-03	-4.09e-03	-5.77e-03	-2.28e-03	-1.12e-02
##	2967	-2.98e-03	-1.99e-03	2.20e-03	1.73e-03	1.48e-03	1.21e-03	2.21e-03
##	2968	7.23e-04	1.30e-03	1.15e-03	1.33e-03	7.33e-04	9.03e-04	8.27e-04
##	2969	5.07e-02	5.46e-03	1.55e-02	-2.78e-02	2.00e-02	-2.82e-02	6.51e-03

##	2970	-1.72e-02	2.01e-02	2.69e-02	3.74e-02	-1.58e-02	-1.19e-02	-2.55e-02
##	2971	-3.98e-03	1.54e-02	5.81e-03	1.06e-02	8.89e-03	-2.11e-02	1.10e-02
##	2972	1.43e-02	-7.47e-03	-2.09e-03	-4.09e-03	-3.60e-03	-4.20e-03	-3.19e-03
##	2973	1.19e-04	-8.61e-03	-2.66e-03	-4.35e-03	-3.45e-03	-3.39e-03	-3.23e-03
##	2974	-1.54e-02	-1.70e-02	-1.70e-02	1.10e-02	-2.08e-02	-2.42e-02	1.64e-02
##	2975	-3.18e-03	4.83e-03	3.42e-03	3.79e-03	-4.50e-03	-4.63e-03	2.06e-03
##	2976	-2.65e-03	9.18e-04	-2.01e-04	-2.54e-04	-2.01e-04	-1.13e-04	1.86e-04
##	2977	2.73e-03	2.03e-03	-2.37e-04	-5.43e-04	-5.05e-04	-5.66e-04	2.80e-04
##	2978	-5.94e-04	-7.95e-04	-2.09e-05	-1.54e-04	-1.48e-04	-2.29e-04	-1.38e-04
##	2979	-5.32e-03	-5.14e-03	3.31e-03	2.82e-03	2.16e-03	1.98e-03	4.29e-03
##	2980	9.14e-03	-3.41e-03	-8.21e-04	-7.53e-04	-5.81e-04	-1.07e-03	-1.07e-03
##	2981	8.89e-03	-1.51e-02	-1.12e-02	-1.37e-02	-7.10e-03	-8.49e-03	-2.58e-03
##	2982	-1.26e-02	6.05e-03	1.06e-02	1.04e-02	9.25e-03	9.34e-03	1.09e-02
##	2983	-6.44e-06	-6.69e-06	6.24e-07	4.12e-06	2.31e-06	4.49e-06	1.27e-06
##	2984	1.59e-04	-8.42e-04	-8.15e-04	-2.57e-03	-5.13e-04	5.81e-03	1.77e-05
##	2985	2.70e-04	-7.59e-03	-1.93e-03	-3.26e-03	-3.12e-03	-2.72e-03	-2.43e-03
##	2986	-4.47e-03	-1.19e-02	-1.12e-02	-9.90e-03	-1.37e-02	-1.20e-02	-2.01e-02
##	2987	-1.94e-02	-8.15e-03	1.52e-02	1.14e-02	-1.46e-02	-2.42e-02	-1.35e-02
##	2988	3.62e-03	-2.80e-03	-1.38e-02	9.82e-03	6.85e-03	-1.64e-02	4.96e-03
##	2989	-3.07e-04	-3.33e-03	-6.82e-04	-1.05e-05	-1.83e-04	2.59e-04	-4.05e-04
##	2990	1.59e-04	3.13e-04	5.87e-04	5.21e-04	-7.19e-04	5.92e-04	-4.86e-04
##	2991	3.63e-03	9.60e-03	1.00e-02	1.19e-02	9.03e-03	1.02e-02	6.45e-03
##	2992	1.96e-02	1.26e-02	7.37e-03	-1.98e-02	-2.33e-02	8.95e-03	3.01e-03
##	2993	-1.77e-03	-6.88e-03	1.54e-02	-1.95e-02	-2.93e-02	-1.16e-02	2.86e-02
##	2994	-1.89e-02	-9.03e-03	-3.36e-02	8.22e-03	8.48e-03	7.98e-03	1.69e-02
##	2995	-8.98e-04	-4.16e-03	-7.19e-04	-1.00e-03	-1.18e-03	-1.76e-03	-1.34e-03
##	2996	-1.31e-02	9.90e-05	-7.54e-03	-2.61e-03	-7.94e-03	-4.15e-03	1.78e-02
##	2997	-4.34e-04	-5.99e-03	-1.58e-03	-2.06e-03	-1.84e-03	-2.20e-03	-2.39e-03
##	2998	-3.44e-03	2.63e-03	4.73e-03	-7.37e-03	-5.88e-03	-5.42e-03	-6.43e-03
##	2999	-1.87e-02	9.37e-03	-2.09e-02	-1.67e-02	-1.46e-02	4.10e-02	-2.31e-02
##	3000	1.23e-02	2.30e-03	-5.20e-03	-3.70e-03	-1.13e-02	-5.96e-03	1.01e-02
##	3001	-2.66e-03	-7.84e-03	-2.06e-03	-5.14e-03	-3.91e-03	-5.99e-03	-4.01e-03
##	3002	-1.18e-02	-2.10e-03	-8.59e-03	-3.52e-03	-5.74e-03	-9.49e-04	-1.06e-02
##	3003	2.75e-02	1.86e-03	2.36e-02	-1.13e-02	-1.17e-02	-5.95e-03	-1.67e-02
##	3004	-6.26e-04	-3.17e-03	-6.95e-04	-2.84e-04	-3.81e-04	1.14e-04	-8.38e-04
##	3005	2.30e-02	-1.08e-02	-4.26e-03	-6.93e-03	-5.27e-03	-5.89e-03	-4.64e-03
##	3006	9.62e-03	-4.54e-03	1.73e-02	-2.52e-02	1.01e-02	6.26e-03	1.34e-02
##	3007	-4.27e-04	-9.89e-04	-5.13e-05	6.10e-04	3.83e-04	9.23e-04	2.31e-04
##	3008	-2.01e-03	-1.71e-03	1.56e-03	1.18e-03	-2.01e-03	1.46e-03	-1.30e-03
##	3009	1.74e-02	3.00e-02	9.61e-03	9.59e-03	1.38e-02	1.43e-02	-1.69e-02
##	3010	7.94e-03	1.90e-03	1.89e-02	7.96e-03	-2.24e-02	6.20e-03	-1.92e-02
##	3011	2.97e-03	-1.61e-03	1.90e-03	1.76e-03	1.37e-03	9.45e-04	1.70e-03
##	3012	8.66e-03	-3.65e-02	-8.36e-03	-1.08e-02	-9.98e-03	-1.32e-02	-1.55e-02
##	3013	-2.52e-03	2.63e-03	-6.93e-03	-5.47e-03	3.76e-03	-6.18e-03	2.65e-03
##	3014	1.91e-04	-6.20e-05	1.88e-07	-1.19e-05	5.72e-06	-2.65e-05	-3.03e-05
##	3015	1.61e-02	-3.19e-02	4.08e-02	-3.72e-02	-1.80e-02	4.89e-02	-1.11e-02
##	3016	3.87e-04	-1.23e-03	3.19e-03	-2.90e-03	3.00e-03	-3.55e-03	2.02e-03
##	3017	-1.43e-04	-6.20e-03	-1.75e-03	-2.17e-03	-1.93e-03	-2.19e-03	-2.53e-03
##	3018	-3.08e-05	-6.45e-03	-1.75e-03	-2.07e-03	-2.07e-03	-2.14e-03	-2.65e-03
##	3019	-5.26e-03	-4.94e-03	3.45e-03	2.93e-03	2.29e-03	2.13e-03	4.34e-03

##	3020	-2.93e-04	-5.12e-03	-1.03e-03	-1.33e-03	-1.60e-03	-1.68e-03	-1.70e-03
##	3021	-2.10e-03	6.66e-04	-1.72e-04	-2.86e-04	-1.86e-04	-6.62e-05	-7.23e-05
##	3022	-1.19e-02	-8.95e-04	-9.10e-03	-4.06e-03	-9.25e-03	-4.27e-03	1.78e-02
##	3023	-7.52e-04	-8.34e-03	-2.12e-03	-3.87e-03	-3.34e-03	-3.42e-03	-2.93e-03
##	3024	-1.55e-02	3.70e-02	4.00e-02	4.06e-02	4.46e-02	4.00e-02	-1.25e-02
##	3025	-3.64e-02	-5.93e-02	-1.85e-02	-2.45e-02	-1.42e-02	-2.20e-02	-1.14e-02
##	3026	1.20e-02	1.89e-03	-5.93e-03	-2.48e-03	-7.34e-03	-4.96e-03	1.74e-02
##	3027	3.85e-02	-9.37e-03	-2.70e-02	-1.68e-02	-1.79e-02	-6.96e-03	-2.27e-02
##	3028	-3.58e-04	-7.98e-04	-1.37e-04	1.89e-04	2.17e-04	5.42e-04	-5.85e-05
##	3029	1.97e-04	-1.36e-03	-1.12e-03	-3.22e-03	-6.92e-04	7.26e-03	-6.71e-05
##	3030	-1.46e-02	9.55e-04	-4.95e-03	-2.80e-03	-7.28e-03	-3.86e-03	1.80e-02
##	3031	-2.63e-02	5.16e-03	1.69e-02	1.02e-02	1.17e-02	4.34e-03	1.71e-02
##	3032	-3.61e-04	-8.65e-04	1.54e-03	-1.45e-03	-1.25e-03	-1.37e-03	-1.73e-03
##	3033	-6.27e-04	-1.33e-03	-1.85e-04	-1.53e-04	-1.14e-04	-1.11e-04	-4.03e-04
##	3034	2.70e-04	-1.68e-03	-3.82e-03	-1.09e-02	1.51e-02	1.03e-02	-3.94e-03
##	3035	-2.97e-04	-3.94e-04	-4.32e-04	-5.71e-04	-2.66e-04	-4.43e-04	-3.76e-04
##	3036	-3.08e-03	8.65e-03	9.64e-03	-5.29e-02	3.14e-03	2.08e-02	-5.79e-03
##	3037	-4.11e-03	1.98e-02	-2.12e-02	9.36e-03	3.42e-03	8.80e-03	2.97e-03
##	3038	4.07e-03	-9.88e-03	3.67e-02	-2.60e-02	-1.90e-02	-1.74e-02	-1.13e-02
##	3039	-4.67e-03	-8.43e-03	-1.22e-02	-1.01e-02	3.28e-02	-9.55e-03	-1.08e-02
##	3040	8.43e-03	-4.21e-02	-1.15e-02	-1.50e-02	-6.65e-03	-1.38e-02	-5.84e-03
##	3041	-6.09e-03	9.99e-03	-7.23e-03	6.69e-03	-7.50e-03	7.20e-03	7.39e-03
##	3042	1.83e-03	-1.75e-03	1.24e-02	9.36e-03	-3.25e-03	-8.45e-03	-5.32e-04
##	3043	3.13e-02	5.28e-03	2.77e-02	-1.71e-02	-2.23e-02	-1.36e-02	-3.22e-02
##	3044	-4.85e-03	2.53e-02	6.94e-03	1.08e-02	5.13e-03	8.99e-03	2.63e-03
##	3045	6.32e-04	2.84e-02	7.52e-03	9.00e-03	8.78e-03	9.23e-03	1.21e-02
##	3046	1.49e-02	1.27e-02	-8.66e-03	-7.27e-03	-1.18e-02	2.99e-02	-2.35e-02
##	3047	-5.17e-03	-4.97e-03	3.27e-03	2.70e-03	2.23e-03	1.95e-03	4.39e-03
##	3048	1.21e-02	1.33e-02	7.23e-03	-1.42e-02	3.86e-03	5.68e-03	1.40e-03
##	3049	7.47e-04	-7.75e-05	8.39e-03	7.23e-03	-8.47e-04	-3.31e-03	1.05e-03
##	3050	6.40e-04	-1.40e-03	-1.47e-03	7.86e-03	1.02e-02	-5.26e-03	-4.22e-04
##	3051	-1.22e-02	-1.06e-02	-3.23e-02	-2.54e-02	-2.23e-02	-1.44e-02	-2.73e-02
##	3052	1.43e-03	1.59e-03	1.59e-03	-1.09e-03	1.66e-03	-1.01e-03	-1.88e-03
##	3053	-5.68e-04	-1.47e-03	-2.24e-04	-5.10e-05	-1.49e-04	-1.42e-04	-3.18e-04
##	3054	-3.70e-02	-4.82e-02	-1.71e-02	-2.32e-02	4.18e-02	-2.42e-02	-1.60e-02
##	3055	2.35e-04	-7.19e-05	1.07e-05	3.11e-06	-4.44e-06	-4.61e-06	2.04e-06
##	3056	4.66e-04	6.75e-03	9.08e-03	8.95e-03	-1.57e-02	1.23e-02	-1.74e-02
##	3057	-1.03e-02	8.34e-03	1.97e-02	-8.07e-04	1.74e-02	-4.22e-03	9.22e-03
##	3058	1.35e-03	-1.17e-03	8.51e-03	9.54e-03	-1.64e-02	-2.07e-02	6.91e-03
##	3059	1.16e-02	-1.86e-03	1.84e-02	8.27e-03	-2.09e-02	1.24e-02	-9.17e-03
##	3060	-2.13e-02	2.91e-03	1.51e-02	1.09e-02	1.04e-02	8.17e-03	1.66e-02
##	3061	-5.89e-03	2.92e-02	7.74e-03	1.00e-02	4.82e-03	9.56e-03	4.18e-03
##	3062	2.24e-02	2.46e-03	1.49e-02	9.45e-03	1.01e-02	6.62e-03	2.07e-02
##	3063	1.43e-02	7.48e-03	2.47e-02	-4.11e-03	-9.15e-03	-6.21e-03	-1.99e-02
##	3064	3.64e-03	-4.94e-03	-7.74e-03	-1.25e-02	1.32e-02	1.11e-02	1.66e-02
##	3065	-8.70e-04	-8.06e-03	-2.01e-03	-3.75e-03	-3.25e-03	-3.39e-03	-2.89e-03
##	3066	4.74e-03	-1.31e-02	-1.64e-02	-1.57e-02	9.44e-03	-1.58e-02	9.61e-03
##	3067	2.13e-03	9.90e-04	-1.72e-03	-1.61e-03	-1.26e-03	-9.94e-04	-1.33e-03
##	3068	-1.08e-03	-4.93e-04	8.45e-04	8.58e-04	1.04e-03	9.59e-04	-1.25e-03
##	3069	-1.09e-03	-1.29e-03	-4.95e-03	-5.67e-03	-3.44e-03	7.93e-03	-3.71e-03

## 3070	9.59e-03	7.30e-03	-9.13e-03	-9.94e-03	2.77e-03	5.00e-03	7.99e-04
## 3071	1.92e-05	7.65e-04	-2.98e-03	8.38e-03	-2.89e-03	9.56e-03	-6.85e-04
## 3072	8.98e-03	-2.35e-02	4.20e-02	3.80e-02	-1.06e-02	-2.37e-02	-1.29e-03
## 3073	1.24e-04	-2.27e-04	-1.45e-04	1.17e-04	1.72e-04	-2.33e-04	-9.29e-05
## 3074	-8.95e-03	2.72e-04	-3.55e-03	1.41e-04	-4.02e-03	-4.72e-04	1.27e-02
## 3075	7.28e-03	-2.54e-02	3.72e-02	-5.94e-03	-1.14e-02	-1.34e-02	3.17e-02
## 3076	4.51e-03	1.08e-02	9.83e-03	1.17e-02	8.83e-03	9.88e-03	6.96e-03
## 3077	1.46e-02	7.96e-04	-7.97e-03	-5.86e-03	-1.06e-02	-7.23e-03	2.21e-02
## 3078	4.24e-04	3.78e-04	3.88e-04	-3.08e-04	3.21e-04	-4.10e-04	1.44e-04
## 3079	-7.16e-04	3.35e-04	1.45e-05	4.62e-05	6.22e-05	1.57e-04	1.27e-04
## 3080	-7.85e-04	-5.06e-03	-1.35e-03	-1.73e-03	-1.16e-03	-3.42e-04	-1.06e-03
## 3081	-1.23e-02	1.06e-02	2.02e-02	1.41e-03	1.63e-02	-3.49e-03	8.71e-03
## 3082	1.96e-02	-2.03e-02	1.24e-02	8.39e-03	-2.76e-02	-3.73e-02	3.20e-02
## 3083	-1.13e-02	5.40e-04	-6.60e-03	-2.52e-03	-6.91e-03	-3.80e-03	1.50e-02
## 3084	4.35e-04	-4.45e-04	-6.00e-04	3.22e-04	2.63e-04	2.00e-04	3.25e-04
## 3085	5.14e-03	-3.13e-03	3.22e-03	3.22e-03	2.51e-03	1.61e-03	3.76e-03
## 3086	6.60e-03	-3.70e-02	-7.74e-03	-8.73e-03	-8.31e-03	-1.26e-02	4.02e-02
## 3087	-7.21e-04	-3.55e-03	-8.04e-04	-2.58e-04	-9.28e-05	1.37e-04	-9.32e-04
## 3088	-5.82e-03	-1.49e-02	-1.44e-02	-1.43e-02	-1.09e-02	-1.33e-02	-1.10e-02
## 3089	-2.73e-03	5.47e-03	-5.76e-03	5.78e-03	3.24e-03	-5.79e-03	2.49e-03
## 3090	-6.23e-03	1.40e-02	-9.65e-03	7.07e-03	6.06e-03	8.21e-03	-1.35e-02
## 3091	-2.01e-02	-6.97e-03	1.08e-02	9.20e-03	-2.82e-02	1.11e-02	3.06e-02
## 3092	-1.17e-03	-1.57e-04	-1.57e-03	2.94e-03	-9.10e-04	-1.50e-03	-8.30e-04
## 3093	8.29e-05	-5.79e-03	-1.28e-03	-1.50e-03	-1.77e-03	-1.70e-03	-1.88e-03
## 3094	2.65e-02	7.79e-03	2.47e-02	-1.05e-02	3.14e-02	-6.41e-03	-2.01e-02
## 3095	-7.93e-04	-2.75e-03	-5.14e-04	-2.23e-04	-3.27e-04	8.08e-06	-7.31e-04
## 3096	4.71e-03	-2.91e-03	-1.02e-02	9.30e-03	-1.41e-02	8.34e-03	-1.24e-02
## 3097	3.73e-03	-2.56e-03	1.33e-02	-1.34e-02	8.30e-03	6.52e-03	8.78e-03
## 3098	6.70e-03	-1.76e-02	-1.77e-02	3.65e-02	-1.42e-02	4.25e-02	-3.97e-03
## 3099	2.12e-03	2.43e-02	8.08e-03	1.59e-02	1.15e-02	1.54e-02	1.25e-02
## 3100	2.31e-02	3.05e-03	1.33e-02	4.95e-03	8.99e-03	1.06e-03	1.79e-02
## 3101	-3.53e-03	8.30e-03	4.67e-03	6.63e-03	3.71e-03	-1.01e-02	1.70e-03
## 3102	9.40e-04	8.32e-04	-3.64e-05	-2.79e-04	-1.95e-04	-3.77e-04	1.15e-04
## 3103	-2.37e-05	1.96e-04	3.31e-05	1.30e-04	6.57e-06	8.27e-05	-1.18e-05
## 3104	-1.17e-02	-1.06e-02	-6.01e-03	-9.12e-03	1.26e-02	-7.67e-03	-2.94e-03
## 3105	1.69e-03	-6.85e-04	-1.89e-05	-1.24e-04	7.00e-06	3.74e-05	-8.63e-05
## 3106	1.53e-04	-6.25e-03	-1.80e-03	-2.08e-03	-2.10e-03	-2.11e-03	-2.74e-03
## 3107	-1.29e-03	-1.30e-02	1.05e-02	-4.61e-02	7.96e-03	-5.40e-02	-4.43e-03
## 3108	-1.07e-05	9.45e-05	2.80e-05	7.68e-05	-2.80e-04	8.59e-05	-3.01e-04
## 3109	1.09e-02	3.23e-03	1.83e-02	7.87e-03	2.21e-02	9.80e-03	-1.23e-02
## 3110	-3.84e-03	9.28e-03	4.32e-03	7.80e-03	-1.87e-02	-2.06e-02	-1.76e-02
## 3111	-1.72e-02	9.69e-03	2.49e-02	-6.15e-03	2.93e-02	-5.94e-03	-1.50e-02
## 3112	-1.77e-02	-8.41e-04	-1.05e-02	1.13e-02	-1.02e-02	1.11e-02	1.97e-02
## 3113	7.12e-04	-2.30e-03	-2.15e-03	7.84e-03	-2.51e-03	-7.26e-03	-4.30e-04
## 3114	-2.36e-04	-4.04e-04	-5.74e-05	-5.96e-05	-5.46e-05	-7.50e-05	-1.45e-04
## 3115	-8.25e-03	-3.59e-03	-1.37e-02	-5.08e-03	-1.21e-02	-2.89e-03	1.99e-02
## 3116	1.43e-04	-5.49e-05	3.97e-06	-6.06e-06	9.74e-07	-7.52e-06	-7.77e-06
## 3117	1.31e-02	-3.41e-02	-1.57e-02	-1.91e-02	-1.67e-02	4.42e-02	4.91e-02
## 3118	7.01e-04	6.52e-04	4.19e-05	1.61e-04	1.35e-04	4.37e-04	3.07e-04
## 3119	-2.15e-02	1.13e-03	1.45e-02	1.02e-02	1.08e-02	8.31e-03	1.72e-02

##	3120	8.23e-03	-6.11e-03	3.14e-03	2.30e-03	-1.23e-02	1.83e-03	4.73e-03
##	3121	4.83e-05	-5.99e-03	-1.81e-03	-2.18e-03	-1.97e-03	-2.16e-03	-2.63e-03
##	3122	1.11e-03	-4.62e-03	-5.74e-03	-5.36e-03	3.52e-03	-7.14e-03	1.94e-03
##	3123	-7.04e-04	-8.33e-03	3.25e-02	-1.81e-02	-1.28e-02	-1.43e-02	-1.13e-02
##	3124	-1.96e-04	-5.19e-03	-1.05e-03	-1.30e-03	-1.44e-03	-1.46e-03	-1.80e-03
##	3125	6.09e-04	7.59e-04	-3.09e-03	7.74e-03	-4.72e-03	7.77e-03	-4.68e-03
##	3126	-3.64e-03	4.24e-03	4.31e-03	-7.90e-03	7.55e-03	-6.60e-03	-8.14e-03
##	3127	-3.86e-03	-4.29e-03	3.29e-03	2.80e-03	3.18e-03	3.44e-03	-6.11e-03
##	3128	-1.65e-02	-1.36e-02	1.17e-02	1.09e-02	1.04e-02	-3.91e-02	1.91e-02
##	3129	-1.10e-03	-8.08e-04	-2.16e-03	2.91e-03	-2.09e-03	-2.90e-03	3.59e-03
##	3130	-6.78e-04	-1.75e-03	-2.19e-04	-3.88e-04	-5.13e-04	-8.28e-04	-7.35e-04
##	3131	-1.04e-02	6.93e-03	-1.79e-02	-8.21e-03	-2.05e-02	3.51e-02	1.15e-02
##	3132	2.08e-02	-1.86e-03	-1.42e-02	-1.03e-02	-9.96e-03	-7.87e-03	-1.69e-02
##	3133	7.00e-03	-1.03e-02	-1.08e-02	1.13e-02	-8.41e-03	-1.42e-02	-2.37e-03
##	3134	8.75e-03	-4.21e-02	-1.16e-02	-1.51e-02	-6.86e-03	-1.41e-02	-5.46e-03
##	3135	-9.36e-03	1.76e-05	-1.87e-02	-2.46e-02	-1.89e-02	4.10e-02	-1.34e-02
##	3136	-1.90e-02	-3.80e-03	1.32e-02	1.19e-02	-2.69e-02	1.02e-02	1.90e-02
##	3137	1.21e-02	2.19e-02	2.56e-02	-2.74e-03	2.29e-02	3.00e-02	-2.04e-02
##	3138	-6.03e-04	2.81e-02	8.33e-03	9.92e-03	8.72e-03	9.43e-03	1.15e-02
##	3139	2.17e-02	6.80e-03	-2.08e-02	7.21e-03	-2.15e-02	-2.15e-02	-2.26e-02
##	3140	-6.27e-05	-5.81e-03	-1.74e-03	-2.13e-03	-1.93e-03	-2.16e-03	-2.58e-03
##	3141	1.63e-02	7.48e-03	2.46e-02	-7.57e-03	-7.51e-03	-7.03e-03	-1.36e-02
##	3142	1.29e-02	1.84e-02	2.50e-02	-4.98e-03	-1.25e-02	2.84e-02	1.06e-02
##	3143	-2.08e-02	-2.04e-02	1.24e-02	-3.49e-02	-2.18e-02	1.49e-02	-1.30e-02
##	3144	-1.30e-02	-2.87e-03	1.11e-02	-1.05e-02	8.00e-03	7.02e-03	7.91e-03
##	3145	-3.39e-03	1.09e-02	5.37e-03	9.78e-03	-1.80e-02	-1.81e-02	1.11e-02
##	3146	1.86e-03	1.05e-02	1.10e-02	1.02e-02	8.06e-03	8.60e-03	7.97e-03
##	3147	-1.55e-02	-8.12e-03	1.25e-02	-2.17e-02	9.86e-03	9.36e-03	1.29e-02
##	3148	-1.42e-02	-1.71e-02	1.18e-02	-1.61e-02	-1.21e-02	-1.39e-02	2.16e-02
##	3149	1.43e-02	1.31e-02	6.35e-03	-1.35e-02	3.80e-03	6.77e-03	4.35e-04
##	3150	-1.94e-02	-4.84e-03	-3.16e-02	9.31e-03	9.10e-03	5.07e-03	1.33e-02
##	3151	-5.00e-04	-1.29e-03	-1.46e-04	-4.26e-05	-1.90e-04	-7.33e-05	-2.72e-04
##	3152	-9.35e-04	-4.14e-03	-9.41e-04	-1.39e-03	-1.50e-03	-1.93e-03	-1.95e-03
##	3153	1.12e-02	-5.02e-02	-1.47e-02	-2.14e-02	-1.09e-02	-1.73e-02	-6.12e-03
##	3154	1.35e-02	-4.20e-02	-1.45e-02	-1.76e-02	4.51e-02	-1.57e-02	-1.03e-02
##	3155	3.05e-02	-4.75e-03	7.64e-03	-6.19e-03	1.89e-02	1.60e-03	-2.83e-02
##	3156	1.74e-03	3.46e-03	3.39e-03	2.23e-03	4.07e-03	3.27e-03	-5.13e-03
##	3157	-5.57e-04	-2.72e-03	-6.48e-04	-3.70e-04	-3.17e-04	-1.67e-07	-7.85e-04
##	3158	2.35e-02	3.03e-02	7.17e-03	7.59e-03	1.19e-02	1.01e-02	-2.31e-02
##	3159	9.26e-03	-8.03e-04	-2.00e-02	9.90e-03	1.62e-02	6.02e-03	2.37e-02
##	3160	-2.38e-02	-1.17e-02	-2.28e-02	7.64e-03	-2.03e-02	1.32e-02	-9.25e-03
##	3161	-6.92e-04	-1.75e-03	-2.32e-04	-1.91e-05	-1.58e-04	-1.44e-04	-2.91e-04
##	3162	-3.73e-03	1.04e-02	5.11e-03	8.15e-03	4.62e-03	-1.34e-02	2.09e-03
##	3163	3.97e-03	-2.60e-03	2.80e-03	2.18e-03	2.78e-03	1.89e-03	-5.34e-03
##	3164	-1.18e-03	-1.66e-03	-1.55e-04	-5.03e-04	-4.86e-04	-5.09e-04	-4.92e-04
##	3165	-1.32e-03	1.54e-03	-1.53e-03	1.93e-03	-1.74e-03	-1.66e-03	-2.12e-03
##	3166	1.30e-02	-1.27e-03	-2.32e-02	1.14e-02	2.21e-02	1.61e-02	-1.04e-02
##	3167	-1.15e-03	-2.01e-03	-2.12e-04	4.16e-05	2.01e-04	1.04e-03	6.60e-05
##	3168	2.26e-02	7.15e-03	2.34e-02	-7.86e-03	-1.79e-02	-1.16e-02	1.14e-02
##	3169	-8.74e-04	-2.64e-03	-6.07e-04	-2.32e-04	-2.69e-04	-2.16e-04	-7.53e-04

##	3170	-4.55e-03	8.76e-03	9.80e-03	7.94e-03	1.29e-02	9.73e-03	-8.86e-03
##	3171	2.16e-02	-4.39e-04	-1.09e-02	-7.23e-03	-1.43e-02	-4.73e-03	-2.24e-02
##	3172	1.34e-03	-3.64e-04	1.05e-06	9.93e-05	9.45e-05	6.49e-05	-2.52e-05
##	3173	1.06e-03	8.38e-04	-4.17e-03	1.88e-03	1.94e-03	1.97e-03	3.14e-03
##	3174	4.48e-02	8.68e-03	-3.71e-02	3.76e-02	-3.32e-02	-2.40e-02	3.48e-02
##	3175	-1.06e-03	-1.56e-03	-1.70e-04	3.21e-05	7.93e-05	7.96e-04	5.89e-05
##	3176	-1.07e-04	-6.36e-03	-1.69e-03	-2.03e-03	-2.04e-03	-2.14e-03	-2.61e-03
##	3177	-1.56e-03	-1.25e-03	1.23e-03	1.06e-03	1.25e-03	9.73e-04	-2.44e-03
##	3178	-1.71e-02	1.89e-04	1.40e-02	1.31e-02	1.87e-02	-8.81e-03	-3.93e-04
##	3179	-2.43e-03	-1.08e-02	-9.45e-03	-5.71e-03	-1.09e-02	-6.47e-03	2.82e-02
##	3180	-6.76e-04	-1.25e-03	6.17e-04	-1.32e-03	4.59e-04	5.55e-04	5.68e-04
##	3181	-4.64e-03	-1.73e-02	-1.43e-02	-1.49e-02	-1.20e-02	-1.04e-02	-8.69e-03
##	3182	2.05e-03	1.48e-03	-3.09e-04	-7.95e-04	-4.40e-04	-5.63e-04	-7.05e-05
##	3183	-1.95e-02	-7.23e-03	-1.60e-02	9.56e-03	-1.90e-02	9.94e-03	-1.45e-02
##	3184	9.58e-03	-3.07e-02	-1.45e-02	3.92e-02	-7.82e-03	-1.93e-02	-2.46e-03
##	3185	-7.54e-04	-4.43e-03	-8.20e-04	-1.01e-03	-1.39e-03	-1.84e-03	-1.56e-03
##	3186	-3.26e-04	1.83e-04	9.29e-04	1.08e-03	-2.84e-04	-5.06e-04	-2.89e-04
##	3187	2.40e-03	5.28e-03	-2.27e-02	8.04e-03	7.12e-03	6.20e-03	4.89e-03
##	3188	5.27e-04	5.17e-04	3.58e-05	5.31e-05	4.48e-06	-6.83e-05	8.41e-05
##	3189	-3.16e-04	-1.20e-03	-1.52e-04	7.05e-04	4.37e-04	1.17e-03	2.43e-04
##	3190	5.77e-03	-1.37e-03	3.25e-02	-1.39e-02	2.76e-02	-1.48e-02	2.75e-02
##	3191	-1.71e-02	-1.14e-02	-2.68e-02	1.12e-02	-2.97e-02	9.97e-03	1.73e-02
##	3192	-3.56e-04	-3.75e-03	-8.97e-04	-3.11e-04	-3.84e-04	3.59e-04	-8.99e-04
##	3193	1.77e-02	-4.20e-02	3.81e-02	-2.02e-02	-2.46e-02	-2.84e-02	3.11e-02
##	3194	7.66e-03	-4.81e-03	-1.68e-02	1.05e-02	-1.27e-02	1.58e-02	-5.06e-03
##	3195	-2.62e-03	9.42e-04	-1.87e-04	-2.52e-04	-2.28e-04	-1.69e-04	2.00e-04
##	3196	-9.02e-03	7.47e-03	2.16e-02	-1.33e-02	2.14e-02	-1.59e-02	1.05e-02
##	3197	5.41e-03	7.97e-03	-5.10e-03	6.59e-03	7.27e-03	-4.04e-03	-4.30e-03
##	3198	-6.60e-03	3.00e-02	6.08e-03	8.15e-03	8.16e-03	1.07e-02	1.28e-02
##	3199	-5.20e-03	-5.26e-03	3.57e-03	3.15e-03	2.21e-03	2.15e-03	5.02e-03
##	3200	-7.43e-04	-1.40e-03	-8.31e-05	-2.89e-04	-2.81e-04	-2.13e-04	-2.85e-04
##	3201	-9.18e-06	2.31e-04	4.54e-06	1.15e-04	-9.16e-06	7.35e-05	-5.71e-05
##	3202	-2.88e-04	-6.12e-03	-1.59e-03	-1.96e-03	-1.99e-03	-2.16e-03	-2.54e-03
##	3203	-4.87e-04	-8.09e-03	-2.15e-03	-3.72e-03	-3.08e-03	-3.04e-03	-3.20e-03
##	3204	7.66e-03	1.19e-02	-8.89e-03	7.06e-03	-9.06e-03	7.75e-03	8.34e-03
##	3205	-9.89e-03	1.87e-03	-2.17e-03	6.81e-04	-5.49e-03	-2.19e-03	7.80e-03
##	3206	2.52e-03	-2.71e-03	-3.27e-03	1.56e-03	-2.98e-03	2.18e-03	3.61e-03
##	3207	-7.44e-04	-2.56e-03	-4.71e-04	-2.29e-04	-2.50e-04	2.38e-05	-7.69e-04
##	3208	-1.83e-02	-5.11e-03	-1.36e-02	9.99e-03	-1.84e-02	7.69e-03	1.47e-02
##	3209	-3.62e-04	-4.73e-06	4.64e-03	-4.62e-03	-5.76e-03	5.40e-03	3.42e-03
##	3210	4.35e-03	3.35e-03	-1.11e-02	1.08e-02	1.18e-02	8.12e-03	1.32e-02
##	3211	8.10e-03	-2.21e-04	-1.51e-02	1.08e-02	1.10e-02	6.39e-03	1.45e-02
##	3212	8.50e-03	-4.14e-02	-1.35e-02	-2.23e-02	4.37e-02	-1.86e-02	-1.11e-02
##	3213	-2.47e-04	-8.75e-03	-2.36e-03	-4.08e-03	-3.48e-03	-3.34e-03	-3.08e-03
##	3214	-5.15e-03	3.08e-04	-1.44e-03	4.17e-03	-2.49e-03	3.54e-03	4.05e-03
##	3215	4.96e-03	-1.15e-03	-1.64e-04	4.20e-04	2.24e-04	5.67e-04	8.22e-05
##	3216	-3.44e-03	-4.99e-03	-6.59e-03	1.95e-03	2.35e-03	2.20e-03	-6.61e-03
##	3217	5.04e-03	1.16e-04	9.79e-03	1.11e-02	8.59e-03	-2.31e-02	7.98e-03
##	3218	-4.86e-03	2.30e-02	6.34e-03	9.82e-03	5.18e-03	8.54e-03	2.14e-03
##	3219	3.67e-03	4.10e-03	-1.91e-02	1.06e-02	8.17e-03	8.69e-03	5.35e-03

##	3220	-3.23e-02	-2.06e-02	-5.98e-03	-7.16e-03	-1.23e-02	3.38e-02	2.70e-02
##	3221	-7.56e-03	1.57e-02	7.28e-03	-2.82e-02	1.07e-02	1.30e-02	-2.31e-02
##	3222	-3.74e-04	-6.30e-03	-1.67e-03	-2.14e-03	-1.88e-03	-2.23e-03	-2.43e-03
##	3223	-8.09e-03	2.79e-02	8.63e-03	9.17e-03	7.85e-03	9.66e-03	-2.71e-02
##	3224	3.87e-03	-7.20e-04	-8.53e-03	1.11e-02	-7.68e-03	1.36e-02	-1.63e-03
##	3225	-1.08e-02	1.19e-03	-4.92e-03	-6.32e-04	-8.32e-03	-3.62e-03	9.17e-03
##	3226	2.22e-03	1.49e-03	-2.61e-04	-7.34e-04	-3.94e-04	-4.35e-04	-9.42e-05
##	3227	-2.39e-03	-2.02e-03	-1.54e-02	-1.45e-02	-1.28e-02	-1.23e-02	-1.32e-02
##	3228	-1.34e-03	2.53e-03	-2.32e-03	-1.87e-03	1.44e-03	2.39e-03	6.70e-04
##	3229	3.56e-03	7.56e-03	1.05e-02	8.73e-03	-2.95e-02	7.48e-03	9.75e-03
##	3230	-2.85e-04	-3.86e-04	3.37e-06	2.27e-04	1.29e-04	2.86e-04	6.88e-05
##	3231	2.00e-04	1.47e-03	1.47e-03	1.33e-03	1.82e-03	1.68e-03	-1.11e-03
##	3232	1.87e-02	1.97e-02	-1.89e-02	9.11e-03	4.26e-03	6.88e-03	1.50e-03
##	3233	1.51e-03	1.16e-03	-1.23e-04	-1.15e-04	-7.21e-05	-1.28e-04	-3.59e-05
##	3234	-3.03e-05	-4.10e-05	4.19e-07	2.08e-05	1.31e-05	2.70e-05	3.16e-06
##	3235	-4.62e-03	1.39e-02	6.92e-03	9.15e-03	4.72e-03	-1.78e-02	3.62e-03
##	3236	-8.03e-03	1.27e-02	1.86e-02	3.23e-02	-4.85e-02	-3.84e-02	1.39e-02
##	3237	-4.22e-04	2.81e-02	8.20e-03	9.81e-03	8.58e-03	9.34e-03	1.12e-02
##	3238	-2.86e-04	-1.33e-03	-1.41e-04	5.92e-04	3.99e-04	1.22e-03	2.67e-04
##	3239	2.07e-03	3.47e-03	-2.27e-02	8.60e-03	1.05e-02	9.62e-03	1.47e-02
##	3240	2.16e-02	1.58e-02	6.45e-03	-2.22e-02	3.30e-03	8.14e-03	2.21e-04
##	3241	2.70e-02	2.86e-02	3.02e-02	-2.62e-02	3.61e-02	4.31e-02	-2.96e-02
##	3242	8.13e-03	-4.10e-02	-9.73e-03	-1.36e-02	-1.18e-02	-1.55e-02	4.31e-02
##	3243	5.40e-05	-7.43e-04	-4.20e-04	4.73e-03	-9.17e-05	-1.38e-03	7.04e-04
##	3244	-8.60e-03	-8.69e-06	-4.87e-03	-9.84e-04	-6.43e-03	-4.35e-04	-1.38e-02
##	3245	-5.10e-03	1.57e-02	-1.87e-02	9.60e-03	-2.29e-02	8.62e-03	5.23e-03
##	3246	-1.24e-03	-5.03e-03	-1.35e-03	-1.65e-03	-9.53e-04	-6.95e-04	-9.11e-04
##	3247	-1.04e-02	1.67e-02	2.11e-02	3.65e-02	-2.07e-02	-1.10e-02	1.69e-02
##	3248	1.31e-02	7.32e-03	6.67e-03	-9.63e-03	5.60e-03	-1.08e-02	4.29e-03
##	3249	1.11e-02	-1.37e-02	1.59e-02	-2.88e-02	-1.79e-02	1.24e-02	-9.56e-03
##	3250	-2.79e-02	-1.79e-02	-3.69e-02	2.07e-03	-3.16e-02	9.40e-03	-1.63e-02
##	3251	7.30e-04	-4.83e-03	-1.77e-03	-5.49e-03	1.01e-02	-6.06e-03	-1.72e-03
##	3252	4.52e-03	-1.67e-03	3.31e-03	3.18e-03	2.73e-03	2.85e-03	4.05e-03
##	3253	-2.33e-02	-7.53e-03	-2.90e-02	5.89e-03	1.85e-02	1.12e-02	-1.55e-02
##	3254	4.78e-03	1.09e-02	1.06e-02	1.04e-02	8.47e-03	1.01e-02	7.90e-03
##	3255	-1.98e-02	8.04e-04	1.31e-02	1.24e-02	1.14e-02	9.31e-03	1.68e-02
##	3256	2.90e-02	2.01e-02	2.76e-02	-2.04e-02	-1.81e-02	4.39e-02	-2.43e-02
##	3257	5.55e-03	-3.06e-03	2.88e-03	2.73e-03	2.28e-03	1.59e-03	3.12e-03
##	3258	-1.59e-02	1.38e-06	-2.04e-02	-1.46e-02	2.82e-02	-1.21e-02	2.32e-02
##	3259	-7.26e-03	-4.23e-03	-3.08e-03	6.54e-03	-5.04e-03	-6.92e-03	6.32e-03
##	3260	-1.79e-02	-1.97e-02	1.38e-02	1.07e-02	-2.77e-02	-3.34e-02	-1.86e-02
##	3261	2.84e-02	-3.70e-03	-2.08e-02	-1.56e-02	-1.44e-02	-9.85e-03	-2.27e-02
##	3262	3.96e-03	2.46e-03	-6.71e-04	-1.27e-03	-6.89e-04	-6.24e-04	6.07e-05
##	3263	-1.52e-05	-2.10e-05	-7.14e-07	9.26e-08	-2.26e-06	-4.73e-06	-4.31e-06
##	3264	1.48e-02	1.53e-02	6.91e-03	-1.48e-02	1.07e-02	1.22e-02	-1.35e-02
##	3265	8.20e-05	-4.12e-05	-3.61e-06	-1.06e-05	-8.59e-06	-1.93e-05	-1.88e-05
##	3266	3.06e-02	-2.24e-02	9.69e-03	3.40e-03	2.05e-02	-5.34e-02	-1.93e-02
##	3267	-8.44e-03	4.46e-03	1.67e-02	7.31e-04	-7.30e-03	-9.73e-04	8.85e-03
##	3268	-1.68e-02	1.10e-02	-7.02e-03	2.85e-02	-5.16e-03	-5.28e-03	-1.02e-02
##	3269	3.05e-02	-5.99e-03	-2.25e-02	-1.90e-02	-1.73e-02	-1.23e-02	-2.16e-02

##	3270	-1.87e-02	-1.78e-02	-1.64e-02	9.84e-03	-1.45e-02	-2.24e-02	-6.22e-03
##	3271	-7.53e-04	-1.29e-03	-1.88e-04	5.42e-04	4.97e-04	9.87e-04	1.32e-04
##	3272	1.33e-02	1.38e-03	-6.54e-03	-3.98e-03	-8.47e-03	-5.46e-03	-1.88e-02
##	3273	-5.92e-04	-2.47e-03	-4.42e-04	-4.05e-05	-2.08e-04	-3.39e-05	-3.94e-04
##	3274	3.09e-04	6.20e-04	-2.89e-04	5.79e-04	6.07e-04	-2.80e-04	-2.93e-04
##	3275	-1.65e-03	2.44e-03	2.68e-03	-2.28e-03	2.50e-03	-2.94e-03	1.48e-03
##	3276	2.38e-03	-3.24e-03	2.58e-03	1.82e-03	2.92e-03	-4.21e-03	-1.63e-03
##	3277	-1.85e-02	3.69e-03	-8.26e-03	1.21e-02	1.84e-02	1.57e-02	-1.64e-03
##	3278	2.05e-03	2.15e-04	-5.38e-03	8.42e-03	-3.98e-03	9.51e-03	-2.28e-03
##	3279	5.82e-04	5.78e-04	-3.99e-05	8.68e-05	1.26e-04	2.21e-04	1.22e-04
##	3280	1.01e-02	4.51e-03	1.81e-02	9.08e-03	1.53e-02	8.41e-03	-2.07e-02
##	3281	4.99e-03	-3.99e-03	3.27e-03	2.67e-03	-6.33e-03	2.64e-03	-5.40e-03
##	3282	-7.88e-03	-3.27e-03	-1.36e-02	-3.75e-03	-1.57e-02	-4.97e-03	1.08e-02
##	3283	-1.47e-02	8.30e-03	-1.32e-02	-1.08e-02	-2.10e-02	2.66e-02	6.37e-03
##	3284	-5.46e-04	-9.99e-04	-5.85e-06	6.08e-04	3.90e-04	8.66e-04	2.73e-04
##	3285	8.88e-03	-1.59e-03	-1.48e-02	9.42e-03	1.25e-02	8.40e-03	-1.79e-02
##	3286	5.04e-03	-3.27e-03	8.32e-03	-1.75e-02	-1.94e-02	1.09e-02	5.92e-03
##	3287	-2.22e-03	3.12e-03	3.79e-03	-4.58e-03	2.72e-03	-6.34e-03	1.25e-03
##	3288	5.05e-03	7.51e-04	-3.18e-02	6.26e-03	1.56e-02	1.32e-02	-2.37e-02
##	3289	2.94e-02	2.56e-02	-3.18e-02	6.96e-03	6.33e-03	9.02e-03	1.07e-02
##	3290	1.49e-02	-7.25e-04	-9.84e-03	-8.24e-03	-7.07e-03	-5.83e-03	-1.50e-02
##	3291	-6.20e-03	-5.91e-03	3.72e-03	2.68e-03	4.52e-03	3.07e-03	9.17e-03
##	3292	-6.38e-03	1.79e-02	7.18e-03	8.13e-03	-1.91e-02	7.52e-03	3.99e-03
##	3293	3.03e-03	2.20e-03	2.55e-03	-2.21e-03	-1.65e-03	-1.48e-03	-2.18e-03
##	3294	-1.78e-04	-6.28e-03	-1.65e-03	-2.00e-03	-2.02e-03	-2.14e-03	-2.58e-03
##	3295	5.72e-04	-3.57e-03	-6.79e-04	-2.56e-03	-7.28e-04	-2.07e-03	-1.89e-04
##	3296	-6.55e-04	-1.20e-03	-9.28e-05	4.06e-05	-1.44e-04	-1.60e-04	-2.27e-04
##	3297	1.33e-02	-7.65e-04	-7.24e-03	-3.90e-03	-5.17e-03	-2.25e-03	-1.02e-02
##	3298	-1.44e-02	7.11e-03	2.51e-02	-9.09e-03	1.98e-02	-1.74e-02	8.58e-03
##	3299	-1.95e-02	5.86e-03	2.76e-02	-7.75e-03	-7.09e-03	-5.49e-03	-1.11e-02
##	3300	1.31e-04	-1.02e-03	-1.70e-03	8.09e-03	-7.12e-04	-4.60e-03	7.50e-04
##	3301	9.85e-03	5.65e-03	1.82e-02	8.22e-03	2.21e-02	7.71e-03	-1.44e-02
##	3302	-1.57e-02	-1.90e-02	-2.65e-02	1.24e-02	9.63e-03	-3.48e-02	1.78e-02
##	3303	2.70e-03	4.03e-03	-2.43e-03	3.87e-03	3.91e-03	-1.86e-03	-2.06e-03
##	3304	8.60e-03	-1.99e-03	-6.52e-04	3.23e-04	4.50e-04	9.69e-04	-6.88e-05
##	3305	-7.43e-04	-1.87e-03	-2.82e-04	-1.56e-04	-1.92e-04	-6.49e-05	-5.92e-04
##	3306	1.28e-02	-1.52e-04	-6.12e-03	-3.22e-03	-7.94e-03	-3.25e-03	1.94e-02
##	3307	-8.66e-04	-3.14e-03	-1.04e-02	-1.40e-02	6.51e-03	6.79e-03	-1.62e-02
##	3308	7.22e-05	-6.72e-03	-1.94e-03	-2.33e-03	-2.03e-03	-2.22e-03	-2.64e-03
##	3309	1.39e-04	-6.26e-03	-1.88e-03	-2.22e-03	-1.91e-03	-2.06e-03	-2.72e-03
##	3310	-1.39e-02	-1.22e-03	-9.53e-03	1.18e-02	-1.16e-02	1.09e-02	1.31e-02
##	3311	1.20e-03	-3.68e-03	-3.86e-03	7.79e-03	-3.25e-03	-9.16e-03	-1.61e-03
##	3312	1.07e-03	-3.63e-03	-9.70e-03	-9.70e-03	-8.66e-03	8.94e-03	-1.18e-02
##	3313	3.76e-03	-2.54e-03	2.78e-03	2.60e-03	-4.60e-03	3.18e-03	5.91e-03
##	3314	-6.93e-03	-1.04e-02	-1.60e-02	-1.88e-02	3.79e-02	-1.72e-02	-1.46e-02
##	3315	6.40e-03	-1.89e-02	-6.12e-03	3.87e-02	-1.19e-02	-1.59e-02	3.13e-02
##	3316	-8.22e-03	1.61e-02	6.54e-03	-2.45e-02	7.12e-03	7.09e-03	7.05e-03
##	3317	-8.82e-04	2.47e-04	-5.08e-05	-9.52e-05	-8.28e-05	-2.70e-05	1.48e-05
##	3318	-9.79e-03	-3.49e-04	-4.87e-03	-9.44e-04	-5.84e-03	-8.39e-04	-1.35e-02
##	3319	-9.01e-04	-3.38e-03	-4.44e-04	-7.77e-04	-1.17e-03	-1.43e-03	-1.24e-03

##	3320	-1.81e-02	-6.01e-03	1.14e-02	1.15e-02	-3.38e-02	1.05e-02	2.03e-02
##	3321	-1.18e-02	1.40e-03	-4.34e-03	-1.56e-03	-6.25e-03	-2.82e-03	-1.51e-02
##	3322	2.31e-02	-2.72e-02	3.81e-02	-2.78e-02	3.91e-02	4.03e-02	4.84e-02
##	3323	1.02e-03	1.02e-03	-3.47e-03	8.45e-03	-3.95e-03	7.65e-03	1.28e-02
##	3324	-2.13e-02	-3.45e-04	1.31e-02	9.80e-03	9.92e-03	8.65e-03	1.98e-02
##	3325	-5.69e-03	1.45e-02	7.56e-03	1.00e-02	5.29e-03	-1.82e-02	4.18e-03
##	3326	-7.87e-03	-1.90e-03	-2.18e-02	-7.67e-03	2.05e-02	-9.49e-03	1.12e-02
##	3327	8.96e-03	-4.57e-02	-1.25e-02	-1.93e-02	-9.82e-03	-1.63e-02	-6.19e-03
##	3328	-1.64e-04	-5.12e-04	-5.49e-05	1.75e-04	1.28e-04	3.81e-04	3.61e-06
##	3329	-1.09e-02	8.43e-03	2.07e-02	-1.03e-02	2.04e-02	-1.45e-02	9.21e-03
##	3330	1.51e-02	-7.22e-03	-2.47e-03	-3.48e-03	-2.82e-03	-3.82e-03	-3.57e-03
##	3331	1.31e-03	9.16e-04	-1.96e-04	-5.57e-04	-2.76e-04	-3.94e-04	-1.28e-04
##	3332	2.35e-02	1.40e-03	1.39e-02	8.73e-03	9.67e-03	6.43e-03	2.00e-02
##	3333	1.69e-02	1.79e-02	-1.09e-02	-9.03e-03	2.48e-02	3.17e-02	-2.91e-02
##	3334	-5.45e-03	-4.94e-03	3.45e-03	2.78e-03	2.42e-03	2.00e-03	4.41e-03
##	3335	-1.06e-02	-2.54e-05	-4.42e-03	4.28e-05	-4.84e-03	-6.43e-04	1.57e-02
##	3336	-7.63e-03	1.80e-02	6.95e-03	7.22e-03	3.91e-03	3.58e-03	1.42e-03
##	3337	-5.97e-04	-3.90e-03	-8.59e-03	-9.66e-03	-6.17e-03	1.01e-02	-6.76e-03
##	3338	-7.15e-04	-2.52e-03	-4.60e-04	-2.28e-04	-2.12e-04	5.23e-05	-7.83e-04
##	3339	-1.49e-02	-1.54e-03	-8.95e-03	-5.38e-03	-6.28e-03	-3.93e-03	-1.26e-02
##	3340	7.14e-04	1.55e-03	-3.26e-03	7.93e-03	-3.48e-03	8.84e-03	-1.25e-03
##	3341	2.88e-02	-8.09e-04	9.53e-03	1.93e-04	1.34e-02	1.00e-03	3.42e-02
##	3342	-3.69e-04	-5.39e-04	-8.10e-06	2.63e-04	1.89e-04	3.66e-04	1.19e-04
##	3343	-2.32e-04	2.41e-03	-3.77e-03	1.03e-02	-4.65e-03	1.13e-02	-1.44e-03
##	3344	-1.10e-02	4.65e-03	-4.34e-03	-4.11e-04	1.58e-02	-3.87e-03	7.49e-03
##	3345	7.80e-03	-4.28e-02	-1.08e-02	-1.42e-02	-6.51e-03	-1.36e-02	-5.14e-03
##	3346	1.07e-02	-2.64e-02	4.02e-02	-2.43e-02	-1.08e-02	4.55e-02	-7.32e-03
##	3347	-1.11e-02	9.76e-04	-3.69e-03	-1.46e-03	-5.24e-03	-2.47e-03	-1.37e-02
##	3348	-2.31e-02	-9.92e-03	-3.27e-02	7.27e-03	1.48e-02	8.51e-03	2.87e-02
##	3349	-4.19e-04	-9.29e-04	2.53e-03	-2.32e-03	2.93e-03	-2.59e-03	2.67e-03
##	3350	3.70e-05	-3.35e-05	-5.82e-05	4.02e-04	-1.02e-04	-1.55e-04	3.70e-04
##	3351	-3.63e-02	-4.62e-02	-1.26e-02	-1.90e-02	-8.38e-03	-1.28e-02	-6.51e-03
##	3352	6.75e-03	-3.54e-02	-9.24e-03	-1.64e-02	3.83e-02	-1.86e-02	-2.07e-02
##	3353	-2.02e-03	3.21e-03	3.49e-03	-5.17e-03	2.56e-03	-6.51e-03	7.96e-04
##	3354	-1.28e-03	-6.79e-03	-1.69e-03	-3.38e-03	-2.77e-03	-3.27e-03	-2.61e-03
##	3355	1.62e-02	5.50e-03	-9.39e-03	-4.43e-03	2.51e-02	-8.03e-03	1.92e-02
##	3356	2.72e-03	3.04e-03	-2.76e-03	3.26e-03	-3.43e-03	-4.61e-03	2.80e-03
##	3357	6.20e-03	-1.97e-02	4.07e-02	3.99e-02	-5.94e-03	-1.92e-02	-4.23e-04
##	3358	-9.97e-04	-6.87e-04	-3.56e-03	4.12e-03	-2.04e-03	-2.82e-03	-2.01e-03
##	3359	-1.49e-02	1.60e-02	-1.01e-02	3.34e-02	2.09e-02	-9.65e-03	1.21e-02
##	3360	-4.79e-04	-9.85e-04	-1.84e-04	2.56e-04	2.54e-04	6.84e-04	-8.23e-06
##	3361	-2.35e-02	-1.05e-04	1.52e-02	1.06e-02	-1.51e-02	1.69e-02	-5.21e-03
##	3362	1.55e-03	7.73e-04	-1.28e-03	-1.26e-03	-9.40e-04	-7.16e-04	-1.11e-03
##	3363	6.42e-03	-1.07e-03	-1.18e-02	1.18e-02	-1.28e-02	1.32e-02	2.38e-02
##	3364	2.41e-02	2.05e-02	7.96e-03	-2.79e-02	3.31e-03	6.60e-03	-3.57e-04
##	3365	-8.98e-04	-3.99e-03	-6.90e-03	-8.65e-03	-7.99e-03	4.96e-03	6.04e-03
##	3366	3.41e-03	2.79e-02	6.15e-03	1.11e-02	1.15e-02	1.28e-02	9.03e-03
##	3367	3.71e-03	-7.42e-03	-9.28e-03	8.94e-03	1.73e-02	-2.16e-02	-7.26e-03
##	3368	-1.08e-02	-1.12e-03	-5.25e-03	-2.00e-03	-3.41e-03	-3.48e-04	-8.12e-03
##	3369	7.64e-03	-2.33e-02	4.05e-02	3.89e-02	-7.21e-03	-1.55e-02	1.88e-03

##	3370	3.76e-03	2.41e-03	-5.75e-04	-1.18e-03	-6.20e-04	-5.81e-04	1.02e-04
##	3371	-1.99e-04	-7.53e-03	-1.79e-03	-2.95e-03	-2.98e-03	-3.03e-03	-2.29e-03
##	3372	-2.06e-03	7.55e-04	-1.76e-05	-9.89e-05	-1.62e-04	2.79e-05	1.60e-04
##	3373	7.75e-03	-5.05e-03	3.83e-03	3.04e-03	2.22e-03	1.91e-03	4.53e-03
##	3374	5.60e-05	-6.21e-03	-1.74e-03	-2.04e-03	-2.07e-03	-2.11e-03	-2.69e-03
##	3375	-6.65e-03	1.19e-03	-1.35e-03	1.51e-03	-4.20e-03	8.17e-05	6.23e-03
##	3376	-3.10e-03	2.04e-03	3.94e-03	-4.86e-03	-3.82e-03	-3.52e-03	-4.20e-03
##	3377	-3.75e-03	1.35e-03	-3.76e-04	-5.40e-04	-3.88e-04	-1.05e-04	2.86e-05
##	3378	-1.35e-02	-3.70e-04	-7.37e-03	-4.52e-03	-5.92e-03	-2.80e-03	-1.18e-02
##	3379	1.59e-02	4.61e-03	-1.05e-02	-8.71e-03	2.91e-02	-7.57e-03	-1.81e-02
##	3380	-1.03e-02	1.57e-03	-5.04e-03	-5.80e-04	-8.67e-03	-3.71e-03	8.48e-03
##	3381	2.35e-03	2.48e-03	2.55e-03	-2.30e-03	2.48e-03	-2.63e-03	2.28e-03
##	3382	-4.54e-04	-6.17e-03	-1.49e-03	-1.90e-03	-1.92e-03	-2.14e-03	-2.43e-03
##	3383	-2.39e-03	2.85e-03	2.58e-03	-2.66e-03	-3.49e-03	1.97e-03	9.49e-04
##	3384	-2.12e-02	-4.54e-04	1.27e-02	9.20e-03	1.00e-02	8.36e-03	2.05e-02
##	3385	3.61e-04	4.38e-04	3.84e-05	5.03e-05	3.89e-05	1.34e-04	1.49e-04
##	3386	5.10e-05	-6.01e-03	-1.82e-03	-2.19e-03	-1.97e-03	-2.17e-03	-2.64e-03
##	3387	-4.82e-03	1.08e-02	4.78e-03	5.54e-03	3.15e-03	4.23e-03	2.63e-03
##	3388	5.05e-04	-1.69e-04	1.15e-02	9.65e-03	-5.19e-04	-4.15e-03	1.76e-03
##	3389	9.84e-03	8.17e-03	-9.22e-03	-8.10e-03	4.39e-03	7.63e-03	1.69e-03
##	3390	1.89e-03	-4.00e-03	-2.97e-03	-5.43e-03	-5.46e-03	4.49e-03	5.03e-03
##	3391	-7.73e-03	-1.75e-03	-2.27e-03	-4.08e-03	7.66e-03	6.56e-03	-1.77e-03
##	3392	-1.96e-03	-1.94e-03	1.35e-03	1.53e-03	1.01e-03	9.31e-04	1.57e-03
##	3393	1.71e-03	-3.91e-03	-3.22e-03	-6.20e-03	-4.61e-03	8.08e-03	1.18e-02
##	3394	7.63e-03	9.82e-03	6.14e-03	7.53e-03	-5.22e-03	-5.07e-03	-4.89e-03
##	3395	1.77e-02	8.40e-04	1.34e-02	8.22e-03	1.51e-02	8.34e-03	-2.72e-02
##	3396	3.44e-04	3.14e-04	-1.42e-06	4.19e-06	-6.76e-06	-6.62e-05	3.99e-05
##	3397	-1.37e-02	5.75e-03	2.14e-02	-1.80e-03	-5.99e-03	-3.22e-03	-1.52e-02
##	3398	-3.58e-04	-6.26e-03	-1.53e-03	-1.89e-03	-1.77e-03	-1.93e-03	-2.58e-03
##	3399	-1.37e-03	2.37e-03	-2.13e-03	-1.73e-03	1.45e-03	2.54e-03	6.80e-04
##	3400	1.67e-03	-4.60e-03	8.99e-03	-5.49e-03	6.05e-03	-8.47e-03	6.43e-03
##	3401	-9.63e-04	-1.88e-03	-1.93e-04	-1.04e-04	-2.00e-04	-1.32e-04	-4.70e-04
##	3402	-4.27e-04	-2.54e-04	-1.44e-06	-6.56e-05	-3.43e-06	-9.12e-05	-7.44e-05
##	3403	9.64e-03	-3.87e-02	4.00e-02	-2.11e-02	-9.50e-03	-1.79e-02	-3.70e-03
##	3404	3.61e-04	-2.77e-03	-8.94e-04	-2.63e-03	-5.05e-04	-2.16e-03	-1.29e-04
##	3405	8.30e-03	-4.25e-02	-9.80e-03	-1.39e-02	-1.23e-02	-1.63e-02	4.72e-02
##	3406	-4.12e-03	-1.51e-03	1.69e-02	-1.15e-02	-2.68e-02	-1.03e-02	1.19e-02
##	3407	-1.00e-03	2.71e-03	-5.84e-03	-3.24e-03	3.68e-03	-3.13e-03	2.33e-03
##	3408	-2.45e-02	1.31e-03	1.60e-02	8.89e-03	1.90e-02	1.07e-02	-1.14e-02
##	3409	-1.31e-04	-5.42e-04	1.71e-03	-9.52e-04	-1.35e-03	-1.02e-03	1.52e-03
##	3410	-3.66e-03	-2.34e-02	-4.60e-02	-3.35e-02	-3.87e-02	-2.87e-02	2.24e-02
##	3411	-5.68e-03	1.49e-02	6.65e-03	-2.60e-02	9.32e-03	1.21e-02	-2.12e-02
##	3412	-3.20e-03	7.20e-03	-1.20e-02	9.09e-03	4.36e-03	-1.30e-02	2.56e-03
##	3413	3.83e-03	-7.87e-03	-6.61e-03	-1.22e-02	-6.43e-03	9.27e-03	-4.85e-03
##	3414	-3.57e-03	3.71e-05	-2.83e-04	3.29e-03	3.43e-03	-1.19e-03	-5.96e-04
##	3415	1.62e-02	9.27e-03	-1.64e-02	-1.90e-02	5.19e-03	8.11e-03	-2.41e-02
##	3416	-1.69e-04	1.32e-03	1.66e-04	5.90e-04	6.87e-04	8.40e-04	-2.60e-03
##	3417	7.42e-05	7.49e-05	-2.43e-04	1.62e-04	8.64e-05	1.02e-04	1.06e-04
##	3418	7.04e-03	-3.29e-02	-1.54e-02	3.65e-02	-1.03e-02	-2.29e-02	-4.27e-03
##	3419	1.36e-02	2.34e-03	-6.07e-03	-1.66e-03	-1.06e-02	-5.74e-03	1.00e-02

##	3420	-1.98e-02	5.35e-03	1.52e-02	1.41e-02	1.28e-02	1.21e-02	1.74e-02
##	3421	1.41e-02	5.73e-04	-8.34e-03	-5.99e-03	-6.65e-03	-5.57e-03	-1.31e-02
##	3422	1.87e-02	3.74e-04	1.47e-02	4.75e-03	2.13e-02	8.59e-03	-1.76e-02
##	3423	-9.94e-03	1.40e-02	-2.88e-02	4.14e-02	2.85e-02	-1.32e-02	2.96e-02
##	3424	7.65e-04	9.76e-04	7.75e-06	-2.01e-05	1.03e-04	2.20e-04	2.82e-04
##	3425	-7.14e-03	-3.43e-03	-2.91e-03	-4.16e-03	-3.34e-03	6.67e-03	8.64e-03
##	3426	-1.09e-02	4.29e-03	-9.25e-03	-2.92e-03	1.75e-02	-6.56e-03	7.76e-03
##	3427	-1.92e-03	-2.22e-03	1.20e-03	1.51e-03	8.61e-04	8.47e-04	1.54e-03
##	3428	2.71e-03	-4.86e-03	-4.67e-03	-9.52e-03	-4.57e-03	1.02e-02	-2.69e-03
##	3429	-2.77e-03	6.49e-03	5.65e-03	-8.95e-03	4.93e-03	-9.05e-03	3.13e-03
##	3430	-2.17e-02	-1.64e-03	1.29e-02	9.19e-03	1.05e-02	8.55e-03	1.96e-02
##	3431	-1.14e-03	-3.25e-03	-6.55e-04	-1.05e-03	-6.65e-04	-4.32e-04	-9.55e-04
##	3432	9.19e-03	1.57e-02	-9.66e-03	8.42e-03	5.12e-03	7.62e-03	3.49e-03
##	3433	-1.06e-02	6.14e-04	-6.92e-03	-1.64e-03	-1.10e-02	-4.17e-03	9.58e-03
##	3434	3.25e-03	-1.36e-02	1.02e-02	-3.86e-02	6.46e-03	-4.54e-02	1.01e-04
##	3435	-3.07e-03	-2.81e-03	2.09e-03	2.27e-03	1.77e-03	1.50e-03	2.45e-03
##	3436	-2.96e-03	4.04e-03	-5.10e-03	-4.64e-03	-6.61e-03	5.48e-03	2.44e-03
##	3437	-1.97e-02	-1.58e-02	1.37e-02	8.31e-03	-1.75e-02	-2.71e-02	-7.86e-03
##	3438	-1.19e-02	-1.28e-02	-7.71e-03	-1.14e-02	-7.98e-03	-1.10e-02	-8.62e-03
##	3439	-8.34e-05	1.38e-04	5.89e-03	-7.17e-03	-8.07e-03	7.29e-03	4.60e-03
##	3440	6.42e-03	-6.07e-03	-1.14e-02	1.16e-02	1.84e-02	-1.67e-02	-4.71e-03
##	3441	3.17e-03	-5.25e-03	-5.18e-03	-1.03e-02	-5.18e-03	1.13e-02	-2.97e-03
##	3442	6.62e-03	2.06e-03	-1.14e-02	1.28e-02	1.21e-02	1.07e-02	1.35e-02
##	3443	9.59e-03	-2.85e-02	-1.28e-02	-2.28e-02	-1.84e-02	4.04e-02	-2.28e-02
##	3444	3.80e-03	-2.86e-04	-7.36e-03	1.13e-02	-9.69e-03	1.17e-02	-7.52e-03
##	3445	-8.97e-05	2.13e-03	-4.70e-03	9.73e-03	-4.80e-03	1.05e-02	-1.80e-03
##	3446	-1.89e-02	6.55e-03	1.40e-02	1.03e-02	1.11e-02	7.04e-03	1.19e-02
##	3447	-5.54e-03	2.89e-02	7.46e-03	9.78e-03	4.58e-03	9.32e-03	3.80e-03
##	3448	5.76e-04	4.92e-03	1.45e-02	9.77e-03	-4.25e-03	1.08e-02	-9.05e-04
##	3449	-1.86e-04	1.99e-03	-1.74e-02	9.11e-03	-2.24e-02	5.86e-03	8.08e-03
##	3450	9.97e-03	3.02e-03	-3.48e-03	-3.19e-04	-7.86e-03	-4.16e-03	8.46e-03
##	3451	-4.76e-04	-5.99e-04	-7.78e-04	4.02e-04	2.87e-04	2.48e-04	3.59e-04
##	3452	1.36e-05	-8.50e-03	-2.45e-03	-4.08e-03	-3.53e-03	-3.30e-03	-3.23e-03
##	3453	2.25e-02	5.54e-04	-1.32e-02	-6.04e-03	-1.71e-02	-9.87e-03	1.26e-02
##	3454	6.66e-03	-1.78e-03	-1.46e-04	2.38e-05	-1.02e-05	4.86e-04	2.61e-04
##	3455	-1.89e-02	-8.17e-03	1.53e-02	1.03e-02	-9.09e-03	-1.77e-02	-3.31e-03
##	3456	-4.77e-04	5.87e-04	-4.93e-04	-4.96e-04	3.38e-04	4.71e-04	1.22e-04
##	3457	-1.20e-02	7.10e-04	-5.12e-03	-2.06e-03	-6.78e-03	-3.11e-03	-1.61e-02
##	3458	1.07e-02	-7.75e-03	1.69e-02	-2.81e-02	1.42e-02	1.03e-02	-2.08e-02
##	3459	-2.21e-02	-4.17e-03	-1.96e-02	9.70e-03	1.44e-02	8.78e-03	2.31e-02
##	3460	-6.31e-03	2.76e-02	7.77e-03	9.77e-03	4.89e-03	9.19e-03	3.84e-03
##	3461	-1.46e-03	5.91e-04	-9.44e-05	5.48e-06	-1.14e-05	6.13e-05	7.55e-06
##	3462	1.03e-02	1.77e-03	-3.62e-03	4.63e-04	-7.11e-03	-2.02e-03	7.96e-03
##	3463	-3.72e-05	-5.63e-03	-1.38e-03	-1.47e-03	-1.63e-03	-1.96e-03	-1.87e-03
##	3464	-3.18e-02	-1.16e-03	1.53e-02	3.17e-03	2.21e-02	7.86e-03	-1.95e-02
##	3465	-4.80e-03	1.28e-02	6.84e-03	-1.62e-02	4.07e-03	8.39e-03	2.13e-03
##	3466	-9.48e-04	-1.68e-03	-1.53e-04	-9.75e-05	-1.89e-04	-1.68e-04	-4.22e-04
##	3467	4.02e-03	-1.66e-03	-1.06e-02	9.77e-03	-1.10e-02	9.26e-03	-6.97e-03
##	3468	-1.18e-02	1.68e-02	-2.45e-02	-1.45e-02	1.87e-02	3.58e-02	7.65e-03
##	3469	1.69e-03	-3.29e-03	-4.34e-03	-1.03e-02	7.77e-03	4.69e-03	7.89e-03

## 3470	-4.00e-04	-3.22e-03	-5.57e-04	1.60e-04	-2.13e-04	3.04e-04	-4.00e-04
## 3471	3.75e-04	1.26e-03	1.69e-02	-1.38e-02	1.76e-02	1.13e-02	-4.29e-03
## 3472	1.84e-02	3.36e-03	1.52e-02	9.67e-03	1.01e-02	6.47e-03	1.81e-02
## 3473	1.88e-02	1.37e-02	6.86e-03	-2.10e-02	-1.65e-02	1.47e-02	-1.58e-02
## 3474	9.37e-03	-4.34e-02	-1.23e-02	-1.57e-02	-7.07e-03	-1.42e-02	-6.05e-03
## 3475	2.91e-03	1.88e-03	-1.80e-04	-5.47e-04	-5.26e-04	-2.95e-04	2.47e-04
## 3476	2.44e-02	2.99e-02	7.43e-03	1.11e-02	5.14e-03	8.54e-03	2.73e-03
## 3477	-7.00e-03	2.20e-02	7.36e-03	8.34e-03	4.46e-03	7.22e-03	2.60e-03
## 3478	-1.56e-02	-7.90e-03	-2.12e-02	1.07e-02	-2.46e-02	8.93e-03	1.43e-02
## 3479	-2.32e-02	-6.45e-03	1.57e-02	-2.70e-02	1.44e-02	7.47e-03	2.08e-02
## 3480	-1.55e-02	2.74e-04	-6.29e-03	-3.53e-03	-4.77e-03	-3.01e-03	-1.04e-02
## 3481	4.26e-03	-4.08e-03	-6.61e-03	-9.94e-03	1.06e-02	9.83e-03	-9.54e-03
## 3482	1.79e-03	1.45e-03	-2.56e-04	-7.48e-04	-4.53e-04	-6.30e-04	-2.82e-05
## 3483	2.58e-02	3.09e-02	6.17e-03	9.18e-03	8.52e-03	9.11e-03	1.13e-02
## 3484	1.34e-02	4.63e-04	-1.31e-02	-1.30e-02	-1.03e-02	-9.83e-03	-1.05e-02
## 3485	1.09e-02	-3.87e-02	-1.39e-02	-1.81e-02	4.41e-02	-1.66e-02	-1.16e-02
## 3486	-3.36e-03	3.83e-03	-4.28e-03	4.74e-03	-4.44e-03	-4.33e-03	-5.57e-03
## 3487	4.68e-03	5.33e-03	-1.94e-02	1.14e-02	7.75e-03	9.66e-03	5.72e-03
## 3488	-6.46e-03	2.64e-02	7.51e-03	9.54e-03	5.03e-03	9.31e-03	3.47e-03
## 3489	-1.29e-02	8.92e-04	-8.05e-03	-3.85e-03	-8.23e-03	-4.21e-03	1.75e-02
## 3490	-1.12e-02	-4.45e-04	-4.86e-03	-1.46e-03	-3.46e-03	-1.59e-04	-7.95e-03
## 3491	-1.46e-02	-6.79e-03	1.15e-02	-1.81e-02	9.14e-03	8.63e-03	9.44e-03
## 3492	-2.53e-02	2.02e-03	1.33e-02	7.57e-03	1.02e-02	3.14e-03	1.89e-02
## 3493	3.65e-02	1.07e-02	-2.99e-02	3.72e-02	-1.99e-02	-1.77e-02	-2.35e-02
## 3494	4.11e-04	2.72e-02	7.00e-03	8.37e-03	8.25e-03	8.61e-03	1.03e-02
## 3495	2.66e-03	7.40e-04	-6.74e-03	1.09e-02	-8.01e-03	1.08e-02	1.94e-02
## 3496	-4.03e-04	-4.43e-04	-5.73e-04	2.68e-04	3.34e-04	2.43e-04	4.73e-04
## 3497	-9.35e-04	-1.32e-03	8.11e-03	-1.39e-02	-8.88e-03	1.15e-02	-8.37e-03
## 3498	1.52e-03	-1.79e-03	-3.21e-03	8.56e-03	1.23e-02	-7.59e-03	-1.43e-03
## 3499	3.53e-03	2.48e-03	-4.54e-04	-1.03e-03	-6.71e-04	-6.00e-04	8.50e-05
## 3500	3.24e-03	1.03e-02	1.06e-02	1.01e-02	8.14e-03	9.20e-03	7.67e-03
## 3501	1.80e-02	-1.58e-02	1.30e-02	-3.27e-02	-3.02e-02	9.49e-03	1.59e-02
## 3502	-4.96e-05	-6.25e-03	-1.81e-03	-2.21e-03	-1.97e-03	-2.20e-03	-2.59e-03
## 3503	5.85e-05	-2.98e-04	-6.18e-05	-2.04e-04	-2.94e-05	-1.14e-04	6.22e-06
## 3504	-5.52e-03	2.89e-02	7.45e-03	9.77e-03	4.56e-03	9.31e-03	3.77e-03
## 3505	2.32e-02	1.40e-03	1.38e-02	8.64e-03	9.55e-03	6.25e-03	1.98e-02
## 3506	5.35e-04	-1.53e-04	-1.29e-05	1.47e-05	1.88e-05	2.71e-05	-2.82e-05
## 3507	4.59e-03	-2.14e-03	-4.41e-04	-1.06e-03	-5.73e-04	-1.54e-03	-1.32e-03
## 3508	-7.38e-04	-4.57e-03	-8.12e-04	-1.04e-03	-1.04e-03	-1.53e-03	-1.52e-03
## 3509	1.24e-03	-3.10e-03	7.58e-03	-3.33e-03	-8.20e-04	-2.31e-03	6.39e-04
## 3510	-4.22e-03	7.58e-03	-1.39e-02	-1.43e-02	3.13e-03	7.30e-03	4.39e-04
## 3511	8.45e-03	-4.41e-02	-1.12e-02	-1.47e-02	-6.76e-03	-1.40e-02	-4.45e-03
## 3512	6.73e-02	4.69e-02	1.08e-02	3.07e-02	8.97e-03	2.58e-02	4.71e-03
## 3513	1.87e-04	-6.43e-03	-1.95e-03	-2.30e-03	-2.04e-03	-2.19e-03	-2.70e-03
## 3514	8.58e-03	6.66e-03	1.98e-02	7.82e-03	1.61e-02	5.37e-03	-2.34e-02
## 3515	-9.84e-04	-5.04e-03	-1.24e-03	-1.59e-03	-1.57e-03	-2.34e-03	-2.16e-03
## 3516	1.60e-03	-2.34e-03	1.59e-03	1.33e-03	-1.40e-03	-2.11e-03	-6.24e-04
## 3517	-2.19e-04	-3.98e-04	-3.87e-05	-1.11e-05	-3.68e-05	-6.10e-05	-9.59e-05
## 3518	-3.25e-04	1.53e-03	3.55e-04	8.87e-04	-9.45e-06	6.58e-04	1.76e-05
## 3519	-9.84e-03	-1.84e-04	-5.48e-03	-1.20e-03	-6.46e-03	-1.05e-03	-1.42e-02

##	3520	-7.86e-03	3.53e-03	1.90e-02	-1.32e-02	2.59e-02	-1.02e-02	2.31e-02
##	3521	9.93e-03	-3.88e-02	-1.09e-02	-1.50e-02	4.20e-02	-1.23e-02	-5.99e-03
##	3522	-1.42e-02	7.78e-04	-6.13e-03	-3.63e-03	-5.32e-03	-2.51e-03	-1.05e-02
##	3523	4.02e-03	2.90e-02	7.59e-03	1.45e-02	1.18e-02	1.33e-02	1.12e-02
##	3524	-2.33e-02	-6.32e-03	1.11e-02	5.57e-03	-4.17e-02	3.94e-03	2.13e-02
##	3525	2.33e-02	1.39e-02	7.14e-03	8.11e-03	-2.38e-02	-2.41e-02	-2.50e-02
##	3526	-6.48e-04	-2.50e-03	-5.18e-04	-2.60e-04	-2.87e-04	1.08e-05	-8.22e-04
##	3527	1.14e-02	-3.55e-02	-1.09e-02	-1.30e-02	3.79e-02	-1.65e-02	-2.05e-02
##	3528	-8.78e-04	-4.77e-03	-1.14e-03	-1.46e-03	-1.18e-03	-2.65e-04	-1.06e-03
##	3529	4.46e-02	3.90e-02	2.10e-02	3.30e-02	-4.79e-02	2.78e-02	1.15e-02
##	3530	9.82e-04	-1.69e-03	-1.83e-03	6.64e-03	-9.69e-04	-2.98e-03	7.78e-04
##	3531	2.81e-02	-8.35e-03	-3.97e-02	6.79e-03	6.92e-03	5.61e-03	1.78e-02
##	3532	-3.25e-03	9.14e-03	-7.51e-03	6.81e-03	-8.46e-03	6.34e-03	3.30e-03
##	3533	8.96e-03	4.43e-03	3.04e-04	1.21e-03	7.49e-04	1.43e-03	1.92e-03
##	3534	1.06e-02	-4.52e-02	-1.32e-02	-1.61e-02	-7.93e-03	-1.46e-02	-6.35e-03
##	3535	4.64e-03	2.43e-03	2.61e-04	1.16e-03	5.38e-05	6.68e-04	-3.29e-04
##	3536	-1.65e-03	2.06e-04	7.19e-03	-1.03e-02	6.82e-03	5.82e-03	-1.32e-02
##	3537	8.71e-04	-7.23e-03	-7.31e-03	-7.12e-03	-6.48e-03	-6.36e-03	8.04e-03
##	3538	-3.36e-04	2.38e-03	4.54e-04	9.68e-04	3.42e-04	1.14e-03	-5.89e-03
##	3539	-1.64e-02	8.89e-03	2.64e-02	-1.25e-02	2.75e-02	-1.20e-02	2.47e-02
##	3540	6.11e-03	5.45e-03	2.04e-02	1.01e-02	2.08e-02	1.10e-02	-9.01e-03
##	3541	-3.66e-03	-5.25e-03	-6.54e-03	2.51e-03	1.62e-03	1.86e-03	3.16e-03
##	3542	-2.52e-03	-2.80e-03	2.08e-03	2.24e-03	1.30e-03	1.90e-03	2.75e-03
##	3543	3.45e-04	-1.27e-03	4.26e-03	-1.61e-03	4.14e-03	-2.22e-03	4.54e-03
##	3544	5.82e-03	-3.19e-03	3.60e-03	2.41e-03	5.06e-03	2.86e-03	-5.24e-03
##	3545	2.72e-02	1.19e-02	-2.01e-02	-1.27e-02	-2.49e-02	3.34e-02	9.98e-03
##	3546	1.28e-02	1.77e-03	-6.85e-03	-4.75e-03	-8.21e-03	-5.88e-03	-1.98e-02
##	3547	2.58e-04	-9.63e-04	-7.68e-04	-1.97e-03	-1.02e-03	4.91e-03	5.79e-03
##	3548	-2.35e-03	8.36e-04	6.56e-05	-2.68e-05	-7.52e-05	-5.71e-05	2.97e-04
##	3549	-2.12e-02	4.84e-04	1.50e-02	1.19e-02	1.01e-02	9.28e-03	2.04e-02
##	3550	-1.27e-02	-9.18e-04	-1.06e-02	-4.41e-03	-1.02e-02	-5.46e-03	1.90e-02
##	3551	-3.72e-04	-2.76e-03	-5.73e-04	-4.34e-05	-2.21e-04	9.78e-05	-4.60e-04
##	3552	1.24e-04	-1.05e-02	-1.92e-02	-2.59e-02	-1.75e-02	9.41e-03	-1.77e-02
##	3553	1.15e-02	5.13e-03	1.39e-02	1.15e-02	2.09e-02	1.43e-02	-9.14e-03
##	3554	-2.67e-04	-4.39e-04	-6.52e-05	9.03e-05	1.01e-04	2.41e-04	-3.94e-05
##	3555	-4.84e-03	2.42e-02	6.58e-03	9.96e-03	4.87e-03	8.14e-03	2.52e-03
##	3556	-1.71e-02	9.36e-03	-1.82e-02	-1.39e-02	-1.38e-02	3.91e-02	-2.07e-02
##	3557	-1.09e-02	4.51e-03	1.87e-02	-3.50e-05	-5.11e-03	-6.11e-04	-1.26e-02
##	3558	1.34e-02	-1.07e-02	1.57e-02	-3.83e-02	1.51e-02	6.75e-03	2.43e-02
##	3559	1.36e-03	2.79e-03	-4.21e-03	9.33e-03	1.09e-02	8.32e-03	1.32e-02
##	3560	7.79e-03	-3.37e-02	3.76e-02	-1.44e-02	-6.20e-03	-1.44e-02	-4.14e-03
##	3561	4.82e-03	4.54e-03	-4.25e-03	5.05e-03	-4.04e-03	-4.39e-03	-3.65e-03
##	3562	2.02e-02	2.12e-02	2.77e-02	-1.25e-02	-1.59e-02	3.60e-02	-2.99e-02
##	3563	-1.99e-02	-2.07e-02	-2.57e-02	7.92e-03	1.81e-02	-3.16e-02	-1.33e-02
##	3564	-6.95e-04	-2.79e-03	-6.53e-04	-4.01e-04	-3.45e-04	-8.64e-05	-7.69e-04
##	3565	-4.43e-04	-8.43e-04	-6.28e-05	3.97e-04	2.90e-04	6.18e-04	1.77e-04
##	3566	-9.22e-03	1.90e-02	8.52e-03	8.50e-03	-1.74e-02	9.02e-03	1.18e-02
##	3567	-2.80e-02	4.50e-03	1.78e-02	9.27e-03	1.66e-02	6.96e-03	2.79e-02
##	3568	-1.45e-03	-4.66e-03	-7.24e-04	-1.71e-03	-1.69e-03	-2.23e-03	-1.67e-03
##	3569	-1.42e-04	-8.82e-03	-2.42e-03	-4.12e-03	-3.52e-03	-3.34e-03	-3.12e-03

##	3570	-3.12e-03	2.00e-04	9.88e-03	7.34e-03	1.14e-02	-1.54e-02	-8.98e-03
##	3571	8.46e-05	-4.72e-05	-1.79e-06	-1.61e-05	-1.67e-05	-2.88e-05	-1.85e-05
##	3572	2.29e-02	-3.73e-02	3.77e-02	-3.56e-02	-3.07e-02	3.65e-02	-3.45e-02
##	3573	-3.99e-03	5.71e-03	-6.82e-03	-7.39e-03	4.00e-03	5.37e-03	-1.14e-02
##	3574	8.57e-03	4.85e-04	1.69e-02	1.16e-02	-2.15e-02	7.70e-03	1.88e-02
##	3575	6.10e-03	-1.85e-02	-9.46e-03	-1.27e-02	3.43e-02	3.53e-02	2.72e-02
##	3576	7.11e-03	-4.68e-03	4.69e-03	3.01e-03	4.77e-03	2.81e-03	8.96e-03
##	3577	-2.35e-02	-2.69e-03	1.26e-02	6.18e-03	1.42e-02	9.92e-03	-3.11e-02
##	3578	-2.77e-04	-2.59e-03	-7.44e-03	7.56e-03	-5.02e-03	-7.04e-03	-4.23e-03
##	3579	-1.86e-02	-1.24e-02	1.26e-02	-3.35e-02	9.78e-03	9.39e-03	1.51e-02
##	3580	-1.52e-02	-8.90e-03	1.29e-02	-1.36e-02	1.44e-02	-1.51e-02	-1.18e-02
##	3581	-1.39e-02	2.63e-02	-1.93e-02	3.63e-02	4.11e-02	3.89e-02	-1.54e-02
##	3582	-9.69e-03	5.04e-03	1.77e-02	1.48e-03	-6.53e-03	-1.08e-03	9.98e-03
##	3583	2.67e-02	1.82e-02	-3.00e-02	5.93e-03	-2.89e-02	8.61e-03	1.21e-02
##	3584	1.34e-02	2.09e-02	7.10e-03	8.49e-03	7.36e-03	6.47e-03	8.30e-03
##	3585	-1.08e-03	-1.47e-03	-1.69e-04	-4.15e-04	-3.08e-04	-4.80e-04	-4.54e-04
##	3586	1.48e-02	3.54e-02	2.95e-02	3.29e-02	-9.57e-03	3.46e-02	-1.51e-02
##	3587	8.86e-03	-4.18e-02	-1.16e-02	-1.51e-02	-6.93e-03	-1.41e-02	-5.63e-03
##	3588	1.64e-02	-6.23e-04	-1.05e-02	-7.48e-03	-7.88e-03	-6.30e-03	-1.48e-02
##	3589	3.50e-03	3.57e-03	-2.27e-02	1.06e-02	1.17e-02	1.09e-02	1.44e-02
##	3590	1.45e-02	2.04e-05	-7.72e-03	-4.11e-03	-5.72e-03	-2.51e-03	-1.04e-02
##	3591	7.28e-03	-2.28e-02	4.29e-02	3.85e-02	-9.50e-03	-2.28e-02	-3.04e-04
##	3592	-2.33e-02	-1.30e-02	1.48e-02	9.24e-03	2.11e-02	-3.27e-02	-1.05e-02
##	3593	-7.05e-03	3.01e-02	7.64e-03	1.03e-02	5.79e-03	7.40e-03	2.35e-03
##	3594	3.90e-03	5.37e-04	-3.13e-03	-3.23e-03	-3.85e-03	-3.85e-03	-5.03e-03
##	3595	-1.04e-02	4.22e-03	2.18e-02	-1.70e-02	3.45e-02	-8.22e-03	-2.60e-02
##	3596	-2.31e-04	-3.88e-04	-2.38e-05	-8.22e-05	-1.20e-04	-2.22e-04	-1.59e-04
##	3597	9.40e-03	4.79e-03	-9.09e-03	-1.03e-02	-1.24e-02	5.74e-03	1.46e-03
##	3598	9.10e-03	-4.64e-02	-1.26e-02	-1.95e-02	-9.83e-03	-1.64e-02	-6.00e-03
##	3599	-8.05e-04	-2.08e-03	-3.08e-04	-5.41e-04	-6.46e-04	-1.08e-03	-8.13e-04
##	3600	-6.27e-03	1.45e-02	-1.19e-02	7.15e-03	3.58e-03	5.68e-03	2.00e-03
##	3601	-2.22e-04	5.07e-03	1.67e-02	1.13e-02	-4.07e-03	1.24e-02	9.12e-05
##	3602	-2.17e-03	5.07e-03	4.44e-03	-5.52e-03	4.28e-03	-6.19e-03	2.28e-03
##	3603	-1.35e-02	-8.17e-03	-2.43e-02	-1.87e-02	-1.80e-02	-1.10e-02	-2.22e-02
##	3604	2.51e-03	6.96e-04	-6.11e-03	1.03e-02	-6.05e-03	1.27e-02	-1.88e-03
##	3605	-1.16e-02	5.72e-03	-5.00e-03	-4.62e-04	1.68e-02	-4.90e-03	8.33e-03
##	3606	-1.45e-02	-3.98e-03	-8.01e-03	1.16e-02	1.67e-02	-7.77e-03	-1.35e-03
##	3607	1.72e-02	3.24e-03	1.48e-02	8.99e-03	1.01e-02	6.07e-03	1.73e-02
##	3608	-4.75e-03	6.77e-03	1.05e-02	7.13e-03	-1.10e-02	1.02e-02	-9.98e-03
##	3609	5.55e-04	5.30e-04	-1.64e-03	9.61e-04	4.31e-04	6.98e-04	7.03e-04
##	3610	-1.23e-02	8.88e-03	2.31e-02	-5.67e-03	1.97e-02	-6.60e-03	1.08e-02
##	3611	-6.54e-03	-6.82e-04	-1.71e-03	-3.25e-03	5.25e-03	3.95e-03	5.43e-03
##	3612	-1.24e-03	-5.39e-03	-8.83e-03	-3.91e-03	2.42e-02	-8.04e-03	2.03e-02
##	3613	6.83e-03	1.07e-02	-7.10e-03	6.00e-03	3.02e-03	3.45e-03	1.47e-03
##	3614	1.00e-02	-5.87e-03	3.83e-03	2.69e-03	2.42e-03	1.64e-03	5.23e-03
##	3615	1.04e-04	-7.08e-03	-1.58e-02	7.30e-03	-1.64e-02	-2.19e-02	-1.88e-02
##	3616	-5.64e-03	-1.63e-02	-1.62e-02	-1.70e-02	-1.18e-02	-1.37e-02	-1.29e-02
##	3617	-4.97e-03	-5.40e-03	2.79e-03	2.32e-03	1.91e-03	1.68e-03	3.97e-03
##	3618	-2.72e-02	3.88e-03	1.76e-02	1.04e-02	1.27e-02	4.61e-03	1.64e-02
##	3619	1.71e-03	-9.15e-04	-7.21e-03	1.03e-02	-1.15e-02	7.04e-03	2.08e-02

##	3620	2.81e-03	1.73e-03	-2.19e-04	-6.05e-04	-4.44e-04	-2.75e-04	2.43e-04
##	3621	-3.58e-03	6.19e-03	-9.36e-03	6.91e-03	3.33e-03	-1.12e-02	2.30e-03
##	3622	-7.69e-04	-2.88e-03	-5.83e-04	-2.63e-04	-3.66e-04	-1.12e-07	-7.76e-04
##	3623	-2.36e-03	1.75e-03	5.43e-03	-1.85e-02	-1.86e-02	-1.64e-02	-2.10e-02
##	3624	9.74e-03	-2.66e-03	-6.71e-04	-2.96e-04	-5.16e-05	7.86e-04	3.35e-04
##	3625	2.35e-03	3.09e-02	7.17e-03	8.98e-03	8.03e-03	8.96e-03	1.25e-02
##	3626	9.14e-03	-2.85e-02	-1.07e-02	3.84e-02	-6.04e-03	-1.14e-02	-1.21e-04
##	3627	1.59e-02	-1.12e-03	1.57e-02	1.04e-02	-3.17e-02	7.29e-03	2.12e-02
##	3628	-2.56e-02	9.11e-04	1.40e-02	7.62e-03	1.01e-02	4.45e-03	2.01e-02
##	3629	3.29e-05	-2.28e-04	-6.49e-05	-1.76e-04	-1.50e-05	-1.42e-04	-2.82e-05
##	3630	-2.23e-03	7.14e-04	-9.81e-05	-1.92e-04	-1.60e-04	3.63e-05	1.57e-04
##	3631	-4.28e-04	-4.46e-03	-7.93e-04	-1.02e-03	-1.37e-03	-1.39e-03	-1.69e-03
##	3632	2.00e-03	2.88e-02	7.72e-03	9.99e-03	8.93e-03	1.07e-02	1.16e-02
##	3633	1.09e-02	-3.77e-02	3.80e-02	-1.65e-02	-8.38e-03	-1.08e-02	-1.43e-03
##	3634	1.06e-03	6.03e-03	1.98e-02	1.17e-02	-8.19e-03	1.30e-02	-2.80e-03
##	3635	-1.08e-02	7.81e-03	2.21e-02	-4.90e-03	2.28e-02	-4.21e-03	-2.44e-02
##	3636	-3.04e-03	4.64e-03	3.45e-03	4.17e-03	-2.09e-03	-1.94e-03	-2.10e-03
##	3637	1.56e-02	-1.10e-02	-3.00e-02	3.71e-03	-2.80e-02	8.16e-03	-1.56e-02
##	3638	1.39e-04	1.74e-04	1.78e-05	1.68e-05	2.19e-05	5.25e-05	6.65e-05
##	3639	1.60e-03	-4.17e-04	-6.75e-06	1.22e-04	6.38e-05	1.79e-04	1.15e-05
##	3640	-3.19e-04	-5.56e-03	-1.50e-03	-1.87e-03	-1.93e-03	-2.12e-03	-2.51e-03
##	3641	-1.19e-02	-3.60e-03	1.09e-02	1.14e-02	-8.29e-03	-1.03e-02	1.28e-02
##	3642	-2.47e-02	1.90e-03	1.40e-02	7.33e-03	1.02e-02	4.15e-03	1.81e-02
##	3643	4.33e-03	4.07e-03	1.64e-02	1.29e-02	-1.12e-02	1.26e-02	2.52e-02
##	3644	-3.74e-03	1.33e-03	-3.55e-04	-5.26e-04	-3.77e-04	-1.13e-04	4.03e-05
##	3645	2.49e-03	-7.88e-04	-1.51e-05	-4.75e-04	-1.62e-04	-5.47e-04	-3.09e-04
##	3646	-6.50e-05	-3.38e-05	2.31e-06	-7.98e-06	1.05e-07	-1.34e-05	-9.85e-06
##	3647	-4.38e-03	-1.68e-02	-1.45e-02	-1.50e-02	-1.23e-02	-1.06e-02	-8.51e-03
##	3648	-4.29e-04	-4.12e-03	-6.41e-03	-6.38e-03	8.51e-03	-4.19e-03	-4.68e-03
##	3649	-1.94e-02	-8.38e-03	-1.96e-02	1.08e-02	-1.88e-02	1.00e-02	2.39e-02
##	3650	-1.11e-03	-3.03e-03	-5.76e-04	-9.07e-04	-8.45e-04	-1.48e-03	-1.43e-03
##	3651	-4.00e-03	8.71e-03	-4.13e-03	5.19e-03	3.65e-03	4.45e-03	2.16e-03
##	3652	3.66e-03	-1.21e-03	-1.18e-04	-5.72e-05	-2.94e-05	1.93e-04	-7.15e-05
##	3653	-2.92e-03	9.39e-03	5.55e-03	9.14e-03	-1.52e-02	-1.39e-02	3.85e-03
##	3654	6.89e-04	-2.17e-03	-1.69e-03	-3.88e-03	-1.37e-03	6.04e-03	-1.08e-03
##	3655	3.56e-03	-1.36e-03	8.70e-03	1.15e-02	-1.53e-02	-1.43e-02	1.03e-02
##	3656	-1.75e-02	5.75e-03	1.35e-02	1.10e-02	1.63e-02	1.23e-02	-4.40e-03
##	3657	1.19e-02	-5.02e-02	-1.54e-02	-2.22e-02	-1.10e-02	-1.78e-02	-5.91e-03
##	3658	-2.49e-02	-2.90e-03	1.15e-02	3.68e-03	1.93e-02	1.09e-02	-1.91e-02
##	3659	-4.15e-03	1.60e-02	7.22e-03	1.04e-02	5.30e-03	-2.15e-02	4.53e-03
##	3660	3.55e-04	-6.69e-04	-8.10e-04	-2.06e-03	-1.22e-03	4.34e-03	-1.54e-03
##	3661	-8.82e-03	-7.73e-03	-2.85e-02	-1.68e-02	-2.26e-02	-1.24e-02	2.50e-02
##	3662	-2.76e-02	3.81e-03	1.76e-02	1.45e-02	-1.47e-02	2.23e-02	-1.97e-03
##	3663	-5.79e-03	1.23e-02	6.32e-03	-1.28e-02	7.19e-03	1.03e-02	-1.67e-02
##	3664	8.39e-03	-1.59e-02	-1.39e-02	-2.43e-02	-1.40e-02	1.28e-02	-8.23e-03
##	3665	6.76e-03	-3.63e-03	-6.84e-04	-1.24e-03	-1.33e-03	-2.21e-03	-1.76e-03
##	3666	-1.39e-02	-8.77e-05	-6.30e-03	-3.88e-03	-4.50e-03	-3.04e-03	-1.04e-02
##	3667	-2.43e-02	-6.40e-02	-2.70e-02	-2.45e-02	-3.21e-02	-2.85e-02	3.05e-02
##	3668	-9.69e-03	3.18e-03	2.04e-02	-9.56e-03	-2.22e-02	-1.22e-02	1.17e-02
##	3669	9.38e-03	-4.64e-02	-1.31e-02	-2.02e-02	-9.87e-03	-1.69e-02	-5.66e-03

##	3670	-4.35e-05	-6.72e-03	-1.77e-03	-2.10e-03	-2.09e-03	-2.16e-03	-2.63e-03
##	3671	-1.78e-03	1.51e-03	-4.04e-03	-3.42e-03	3.18e-03	-3.22e-03	-5.85e-03
##	3672	4.90e-03	1.27e-03	9.74e-03	1.29e-02	9.23e-03	-2.04e-02	7.71e-03
##	3673	1.75e-02	1.05e-03	-1.68e-02	-1.63e-02	8.46e-03	-1.57e-02	-1.58e-02
##	3674	-4.43e-05	2.77e-02	8.28e-03	1.37e-02	1.08e-02	1.07e-02	9.90e-03
##	3675	-6.47e-03	1.68e-04	-1.59e-02	-1.87e-02	-2.09e-02	3.84e-02	3.69e-02
##	3676	-6.30e-03	-8.48e-04	-1.97e-02	-7.28e-03	1.78e-02	-8.27e-03	8.60e-03
##	3677	1.41e-02	4.44e-04	-8.32e-03	-5.98e-03	-6.60e-03	-5.57e-03	-1.30e-02
##	3678	7.53e-03	-8.47e-03	-8.82e-03	2.82e-03	-8.27e-03	4.64e-03	-4.31e-03
##	3679	8.24e-03	4.56e-03	1.67e-02	1.05e-02	1.11e-02	6.45e-03	1.54e-02
##	3680	-8.00e-04	-2.22e-03	4.99e-03	-5.88e-03	5.44e-03	-5.85e-03	-7.30e-03
##	3681	-1.41e-02	-2.11e-03	-1.01e-02	-6.45e-03	-6.76e-03	-4.40e-03	-1.33e-02
##	3682	2.62e-02	2.05e-02	2.98e-02	-2.03e-02	-3.11e-02	3.02e-02	1.06e-02
##	3683	9.21e-03	-9.82e-04	1.54e-02	9.16e-03	-1.55e-02	1.11e-02	-9.07e-03
##	3684	1.33e-02	-4.89e-04	-7.25e-03	-3.94e-03	-5.25e-03	-2.30e-03	-1.04e-02
##	3685	-2.81e-03	3.59e-03	3.33e-02	-8.34e-03	2.89e-02	-1.61e-02	2.41e-02
##	3686	8.01e-03	1.36e-02	-8.72e-03	7.25e-03	6.36e-03	7.14e-03	-1.27e-02
##	3687	2.83e-02	1.80e-02	-2.94e-02	6.41e-03	-3.05e-02	9.42e-03	-3.17e-02
##	3688	8.23e-03	1.02e-02	5.62e-03	-8.23e-03	5.76e-03	7.68e-03	-1.25e-02
##	3689	-6.92e-03	2.16e-02	-6.47e-02	2.33e-02	4.93e-03	1.68e-02	-4.31e-03
##	3690	1.32e-02	-4.42e-03	-2.40e-02	8.15e-03	1.89e-02	9.70e-03	-1.31e-02
##	3691	9.51e-03	-3.24e-02	-1.44e-02	-2.14e-02	-1.08e-02	4.32e-02	-7.96e-03
##	3692	1.06e-02	-6.05e-03	1.49e-02	-2.20e-02	1.33e-02	9.69e-03	-1.86e-02
##	3693	4.27e-03	-1.25e-03	-7.78e-03	9.17e-03	-1.37e-02	6.51e-03	1.16e-02
##	3694	-3.00e-03	3.80e-03	-5.70e-03	5.64e-03	-4.85e-03	-4.74e-03	5.15e-03
##	3695	5.00e-03	3.14e-02	6.29e-03	1.32e-02	1.28e-02	1.35e-02	1.09e-02
##	3696	3.32e-03	-8.01e-04	-4.95e-05	3.25e-04	2.00e-04	4.12e-04	2.98e-05
##	3697	-1.49e-02	8.13e-03	-1.26e-02	3.26e-02	-7.56e-03	-4.16e-03	-1.10e-02
##	3698	-3.50e-04	-2.68e-03	-4.47e-04	-5.33e-05	-2.93e-04	2.33e-04	-4.41e-04
##	3699	-7.20e-04	-9.39e-04	6.08e-04	7.87e-04	8.89e-04	-1.08e-03	1.25e-03
##	3700	-3.93e-03	-6.48e-03	-6.65e-03	1.71e-03	-5.76e-03	3.38e-03	-3.55e-03
##	3701	1.52e-02	-1.18e-02	1.44e-02	1.11e-02	-2.48e-02	-3.06e-02	1.90e-02
##	3702	3.58e-03	2.52e-03	-4.26e-04	-1.00e-03	-6.39e-04	-5.51e-04	1.15e-04
##	3703	-5.27e-04	-1.46e-03	-2.84e-04	4.09e-04	4.34e-04	1.14e-03	7.91e-05
##	3704	2.64e-02	3.10e-02	6.88e-03	1.07e-02	5.08e-03	8.56e-03	2.96e-03
##	3705	-5.86e-04	-2.63e-03	-4.15e-04	2.64e-05	-1.41e-04	7.91e-05	-3.37e-04
##	3706	4.06e-04	2.62e-04	-3.42e-04	-3.43e-04	4.49e-04	-4.00e-04	4.15e-04
##	3707	-1.26e-03	1.53e-03	1.71e-03	-1.57e-03	1.80e-03	-1.62e-03	-2.80e-03
##	3708	3.45e-02	-6.31e-03	-2.21e-02	-1.19e-02	-2.06e-02	-7.25e-03	-3.14e-02
##	3709	5.37e-03	-5.86e-03	3.55e-03	3.05e-03	5.12e-03	-7.81e-03	-3.58e-03
##	3710	-2.65e-02	1.95e-04	1.24e-02	4.44e-03	1.51e-02	4.88e-03	3.08e-02
##	3711	-1.03e-02	5.67e-03	1.85e-02	-1.06e-03	-8.74e-03	-3.64e-03	8.85e-03
##	3712	-4.85e-03	1.30e-02	5.21e-03	6.82e-03	-1.32e-02	5.72e-03	2.43e-03
##	3713	4.01e-03	-3.62e-03	1.71e-02	-2.00e-02	1.70e-02	1.03e-02	-8.15e-03
##	3714	-4.74e-04	-1.31e-03	-2.83e-04	-2.14e-04	-1.83e-04	-1.30e-04	-5.04e-04
##	3715	-2.48e-03	3.80e-03	3.12e-03	-3.96e-03	-5.31e-03	3.25e-03	9.32e-04
##	3716	5.44e-04	2.73e-02	7.06e-03	8.49e-03	8.43e-03	8.85e-03	1.06e-02
##	3717	8.02e-04	-2.96e-03	-4.03e-03	-3.30e-03	3.37e-03	-3.79e-03	2.16e-03
##	3718	-9.37e-04	-4.30e-03	-6.92e-04	-9.23e-04	-1.30e-03	-1.81e-03	-1.43e-03
##	3719	-8.60e-04	4.45e-04	1.91e-05	6.26e-05	7.45e-05	2.01e-04	1.61e-04

## 3720	1.37e-02	-8.00e-05	-8.55e-03	-6.43e-03	-6.40e-03	-5.57e-03	-1.32e-02
## 3721	-1.67e-02	1.13e-02	-1.04e-02	-7.09e-03	-1.29e-02	3.31e-02	-2.43e-02
## 3722	-8.88e-03	1.91e-03	-2.72e-03	2.24e-04	-5.83e-03	-2.42e-03	6.87e-03
## 3723	-1.38e-03	-6.00e-04	1.12e-03	1.44e-03	1.08e-03	1.14e-03	1.44e-03
## 3724	5.89e-04	5.08e-04	6.76e-07	3.16e-05	-9.61e-06	-6.89e-05	4.77e-05
## 3725	-7.22e-03	5.87e-03	1.90e-02	-1.76e-02	2.04e-02	-1.95e-02	1.01e-02
## 3726	-2.07e-02	-6.39e-04	1.24e-02	8.90e-03	9.82e-03	8.17e-03	1.91e-02
## 3727	9.30e-03	4.40e-03	5.62e-03	-6.68e-03	-7.15e-03	-4.89e-03	-8.85e-03
## 3728	3.26e-04	-5.34e-04	2.92e-03	-1.82e-03	3.17e-03	-1.95e-03	2.31e-03
## 3729	1.46e-04	-7.78e-04	-1.13e-03	6.08e-03	-6.69e-04	-3.18e-03	1.82e-04
## 3730	2.83e-02	-1.89e-03	1.03e-02	2.89e-03	1.32e-02	5.35e-03	-3.62e-02
## 3731	-9.30e-04	-4.94e-03	-1.11e-03	-1.41e-03	-9.52e-04	-1.17e-04	-1.25e-03
## 3732	-3.24e-02	-3.97e-02	-9.66e-03	-1.17e-02	-4.80e-03	-9.91e-03	-4.43e-03
## 3733	-1.40e-04	4.11e-03	8.98e-03	7.41e-03	-1.49e-02	1.01e-02	-1.33e-02
## 3734	8.58e-03	-3.32e-03	-1.00e-03	-1.03e-03	-7.41e-04	-8.37e-04	-1.33e-03
## 3735	-2.22e-02	-1.62e-04	1.45e-02	1.20e-02	1.08e-02	8.59e-03	2.18e-02
## 3736	-2.67e-04	1.64e-03	1.97e-04	7.87e-04	4.11e-04	8.27e-04	-4.34e-03
## 3737	8.62e-03	-1.99e-02	-1.05e-02	-1.68e-02	-1.33e-02	-1.70e-02	-1.22e-02
## 3738	7.98e-03	-3.44e-02	-1.65e-02	3.79e-02	-1.09e-02	-2.39e-02	-3.29e-03
## 3739	-1.58e-02	-7.67e-05	-1.37e-02	1.26e-02	1.16e-02	1.16e-02	1.32e-02
## 3740	1.25e-02	7.83e-03	2.27e-02	-1.09e-03	-9.83e-03	-5.74e-03	1.13e-02
## 3741	1.47e-02	-2.15e-04	-8.53e-03	-6.65e-03	-6.93e-03	-5.07e-03	-1.31e-02
## 3742	2.32e-02	1.24e-02	-2.11e-02	1.01e-02	3.62e-03	-2.37e-02	3.28e-03
## 3743	-4.46e-04	5.90e-04	-5.28e-04	7.41e-04	-3.16e-04	-2.85e-04	-3.87e-04
## 3744	-7.70e-03	1.20e-03	-1.57e-03	1.73e-03	-4.38e-03	-2.32e-04	7.15e-03
## 3745	-5.55e-03	4.72e-03	5.91e-03	-2.10e-02	-1.60e-02	-1.66e-02	-1.58e-02
## 3746	2.71e-03	-9.12e-03	1.14e-02	-9.99e-03	-4.70e-03	-9.87e-03	-2.93e-03
## 3747	1.89e-03	-2.04e-03	-2.59e-03	1.51e-03	2.40e-03	1.46e-03	-1.76e-03
## 3748	5.19e-03	1.09e-03	8.79e-03	1.18e-02	8.66e-03	-1.98e-02	6.88e-03
## 3749	1.07e-04	-6.64e-03	-1.94e-03	-2.32e-03	-2.03e-03	-2.21e-03	-2.66e-03
## 3750	-1.38e-02	7.04e-05	-6.99e-03	-4.09e-03	-5.25e-03	-3.27e-03	-1.13e-02
## 3751	-6.43e-03	-1.47e-02	-1.39e-02	-1.36e-02	-1.09e-02	-1.31e-02	-1.07e-02
## 3752	-1.99e-03	3.44e-03	2.38e-03	3.56e-03	-1.82e-03	-1.49e-03	3.35e-03
## 3753	-3.15e-03	1.23e-02	5.51e-03	-1.49e-02	4.08e-03	8.77e-03	2.11e-04
## 3754	-1.40e-02	5.23e-03	-5.37e-03	-1.17e-03	2.12e-02	-4.29e-03	1.61e-02
## 3755	-1.85e-02	-7.43e-03	1.07e-02	7.63e-03	-3.66e-02	8.99e-03	1.99e-02
## 3756	-8.60e-04	-1.55e-03	8.32e-04	1.01e-03	7.15e-04	-2.00e-03	9.95e-04
## 3757	2.23e-02	2.89e-02	7.62e-03	8.46e-03	3.93e-03	6.92e-03	2.56e-03
## 3758	1.36e-02	1.56e-03	-6.74e-03	-3.21e-03	-8.43e-03	-4.77e-03	1.72e-02
## 3759	1.25e-02	-4.53e-03	-1.50e-03	-1.24e-03	-1.02e-03	-7.32e-04	-1.66e-03
## 3760	1.83e-02	-8.08e-03	-2.83e-03	-3.75e-03	-3.36e-03	-4.12e-03	-3.83e-03
## 3761	7.38e-03	-2.05e-02	-9.99e-03	3.91e-02	4.35e-02	-1.38e-02	-3.20e-03
## 3762	3.55e-05	-5.96e-04	2.27e-03	-6.63e-04	5.85e-05	-4.29e-04	2.26e-04
## 3763	4.60e-03	1.18e-03	-1.00e-02	9.66e-03	9.14e-03	5.32e-03	1.09e-02
## 3764	9.68e-03	-5.55e-03	-7.60e-04	-2.61e-03	-2.48e-03	-3.86e-03	-2.01e-03
## 3765	1.63e-03	1.25e-03	-6.68e-05	-4.07e-04	-3.50e-04	-3.55e-04	1.68e-04
## 3766	1.19e-02	1.83e-03	-5.92e-03	-2.45e-03	-7.33e-03	-4.97e-03	1.77e-02
## 3767	1.13e-02	1.26e-02	-3.99e-03	2.84e-02	-9.48e-03	-6.07e-03	1.20e-02
## 3768	-6.58e-03	-1.73e-02	-1.62e-02	-1.92e-02	-1.40e-02	-1.61e-02	-1.16e-02
## 3769	8.61e-03	1.58e-02	-1.06e-02	7.55e-03	-9.94e-03	9.04e-03	-9.29e-03

##	3770	-9.16e-03	-1.25e-04	-1.70e-02	-5.24e-03	1.95e-02	-7.77e-03	1.04e-02
##	3771	-8.80e-03	2.03e-02	8.28e-03	8.70e-03	8.19e-03	9.18e-03	-1.42e-02
##	3772	1.34e-03	1.22e-03	-1.16e-04	-5.73e-04	-3.30e-04	-5.36e-04	3.26e-05
##	3773	2.36e-02	2.74e-02	6.41e-03	9.81e-03	4.97e-03	8.00e-03	1.83e-03
##	3774	-3.75e-02	-3.38e-02	2.82e-02	2.58e-02	3.08e-02	2.91e-02	5.76e-02
##	3775	8.93e-04	-1.43e-03	-1.10e-03	-1.46e-03	9.21e-04	7.08e-04	-9.18e-04
##	3776	-6.87e-04	-1.77e-03	-3.77e-04	-2.81e-04	-2.79e-04	-2.15e-04	-5.85e-04
##	3777	2.29e-02	4.10e-04	1.44e-02	6.76e-03	1.31e-02	7.99e-03	-2.95e-02
##	3778	1.58e-03	-1.02e-03	-6.10e-03	9.55e-03	-7.61e-03	9.72e-03	-3.28e-03
##	3779	-8.45e-03	1.80e-03	-1.30e-02	-3.32e-03	1.75e-02	-5.92e-03	8.56e-03
##	3780	-1.03e-02	3.25e-03	-4.54e-03	-5.58e-04	1.78e-02	-1.05e-03	-1.58e-02
##	3781	1.26e-02	2.49e-03	1.60e-02	1.08e-02	1.09e-02	6.06e-03	1.76e-02
##	3782	-1.73e-02	-2.22e-03	1.54e-02	1.03e-02	1.54e-02	-1.40e-02	-3.20e-03
##	3783	5.95e-02	4.29e-02	1.75e-02	2.34e-02	3.65e-03	1.37e-02	1.39e-03
##	3784	-3.55e-04	-5.81e-03	-1.59e-03	-2.05e-03	-1.84e-03	-2.18e-03	-2.42e-03
##	3785	1.45e-03	2.47e-02	6.95e-03	3.70e-03	2.27e-03	-1.71e-03	7.54e-03
##	3786	-2.06e-02	2.46e-04	1.28e-02	9.16e-03	9.85e-03	8.04e-03	1.82e-02
##	3787	2.01e-02	-9.98e-04	-1.13e-02	-3.64e-03	-1.40e-02	-5.43e-03	1.02e-02
##	3788	-5.02e-04	-5.88e-03	-1.44e-03	-1.85e-03	-1.89e-03	-2.14e-03	-2.41e-03
##	3789	-4.97e-03	1.63e-02	-2.15e-02	8.46e-03	-2.47e-02	8.40e-03	4.35e-03
##	3790	-2.47e-02	-1.68e-03	1.43e-02	7.08e-03	1.52e-02	9.93e-03	-2.75e-02
##	3791	-3.38e-02	-4.45e-02	-1.20e-02	-1.35e-02	-5.73e-03	-1.07e-02	-3.94e-03
##	3792	9.50e-03	1.05e-02	7.32e-03	-1.20e-02	-8.75e-03	1.05e-02	-9.09e-03
##	3793	9.31e-03	-6.86e-03	1.78e-02	1.02e-02	2.03e-02	-2.74e-02	-8.06e-03
##	3794	-4.84e-02	-1.39e-02	-2.56e-02	3.86e-02	5.15e-02	4.68e-02	-9.45e-03
##	3795	2.42e-04	-5.11e-04	1.57e-03	-4.21e-04	-5.35e-04	-5.38e-04	1.47e-03
##	3796	-1.60e-02	1.44e-02	2.35e-02	-8.51e-03	-9.04e-03	3.74e-02	-1.44e-02
##	3797	1.14e-04	-6.62e-03	-1.94e-03	-2.32e-03	-2.03e-03	-2.21e-03	-2.66e-03
##	3798	-8.33e-03	1.84e-03	1.59e-02	-4.48e-02	-5.17e-02	2.90e-02	1.90e-02
##	3799	2.09e-02	-5.63e-03	-3.01e-02	1.00e-02	9.66e-03	6.84e-03	1.51e-02
##	3800	1.33e-02	-4.94e-05	-6.98e-03	-3.52e-03	-5.37e-03	-2.15e-03	-1.05e-02
##	3801	-2.29e-02	-3.52e-03	-2.66e-02	8.61e-03	9.31e-03	4.85e-03	1.48e-02
##	3802	-1.30e-02	1.03e-02	2.32e-02	-3.15e-03	1.98e-02	-7.49e-03	9.93e-03
##	3803	-1.73e-04	-5.29e-03	-1.19e-03	-1.23e-03	-1.65e-03	-1.89e-03	-1.87e-03
##	3804	-2.22e-05	-3.28e-05	-3.31e-06	-4.29e-06	-4.00e-06	-6.81e-06	-1.12e-05
##	3805	-4.63e-03	2.36e-02	6.76e-03	1.08e-02	5.16e-03	8.22e-03	3.38e-03
##	3806	-1.99e-03	5.69e-03	5.63e-03	-1.59e-02	3.93e-03	-1.68e-02	1.77e-03
##	3807	-1.04e-03	-3.98e-03	-8.95e-04	-1.28e-03	-7.79e-04	-3.53e-04	-1.11e-03
##	3808	2.15e-04	2.14e-03	-1.78e-03	8.13e-03	-1.28e-03	9.57e-03	1.01e-03
##	3809	-3.12e-03	-2.76e-03	2.43e-03	2.72e-03	1.79e-03	1.72e-03	2.85e-03
##	3810	-1.44e-02	-4.32e-04	-6.82e-03	-4.20e-03	-4.77e-03	-3.21e-03	-1.07e-02
##	3811	3.35e-03	4.19e-03	-3.52e-03	-3.64e-03	-3.50e-03	4.89e-03	3.98e-03
##	3812	6.36e-04	4.99e-04	-3.94e-05	-1.91e-04	-1.17e-04	-2.22e-04	1.89e-05
##	3813	1.39e-03	-3.70e-03	-2.15e-03	-3.87e-03	9.07e-03	-2.93e-03	-8.23e-04
##	3814	-1.16e-03	1.27e-03	6.51e-03	-8.42e-03	5.38e-03	6.83e-03	3.64e-03
##	3815	8.67e-04	-6.49e-03	-1.93e-03	-6.30e-03	-2.69e-03	-6.87e-03	-2.28e-03
##	3816	-1.15e-02	-9.24e-04	-5.08e-03	-1.79e-03	-3.33e-03	-2.50e-04	-7.82e-03
##	3817	2.75e-02	-1.70e-02	-3.99e-02	4.56e-03	-4.09e-02	7.87e-03	-2.91e-02
##	3818	-5.95e-03	-5.47e-03	4.51e-03	3.16e-03	4.06e-03	3.38e-03	-9.37e-03
##	3819	-6.98e-03	3.03e-02	6.63e-03	8.48e-03	8.26e-03	1.06e-02	1.31e-02

## 3820	1.21e-03	8.82e-04	-1.60e-04	-5.40e-04	-2.58e-04	-4.11e-04	-8.69e-05
## 3821	-3.30e-04	-3.91e-03	-9.49e-04	-3.30e-04	-3.95e-04	3.89e-04	-9.05e-04
## 3822	2.59e-03	1.74e-03	-1.79e-04	-6.01e-04	-4.85e-04	-4.00e-04	3.03e-04
## 3823	-6.90e-03	1.10e-03	1.92e-02	-6.82e-03	-2.05e-02	-6.80e-03	1.23e-02
## 3824	-1.07e-02	6.00e-03	1.84e-02	6.25e-04	-6.70e-03	-2.33e-03	8.93e-03
## 3825	-1.29e-02	5.65e-03	-1.40e-02	3.23e-02	-1.71e-02	-1.13e-02	-2.56e-02
## 3826	6.32e-03	7.75e-03	-6.65e-03	6.25e-03	7.33e-03	-7.30e-03	-6.57e-03
## 3827	2.63e-02	2.35e-02	4.60e-03	5.76e-03	-2.49e-02	1.10e-02	-2.33e-02
## 3828	3.80e-02	-5.26e-02	-3.89e-02	3.89e-02	-4.21e-02	-4.59e-02	3.83e-02
## 3829	-6.84e-04	-1.54e-03	-1.16e-04	1.04e-04	-1.29e-04	-6.78e-05	-2.60e-04
## 3830	-4.88e-04	-7.87e-04	-5.90e-04	-7.42e-04	6.04e-04	6.26e-04	-3.38e-04
## 3831	1.33e-02	2.19e-02	2.65e-02	-6.87e-03	1.85e-02	2.27e-02	6.90e-03
## 3832	1.64e-02	-6.75e-03	1.56e-02	5.43e-03	-2.67e-02	1.18e-02	-1.29e-02
## 3833	-7.91e-04	-4.48e-03	-8.01e-04	-9.95e-04	-1.38e-03	-1.84e-03	-1.53e-03
## 3834	5.11e-04	-1.60e-04	9.63e-06	-1.59e-05	4.19e-05	-7.50e-05	-6.38e-05
## 3835	-1.02e-02	2.15e-03	2.23e-02	-3.33e-03	-1.62e-02	-4.19e-03	1.48e-02
## 3836	1.40e-02	1.80e-03	1.53e-02	8.90e-03	2.19e-02	9.77e-03	-1.50e-02
## 3837	1.51e-02	-1.50e-03	-8.05e-03	-6.47e-03	-7.72e-03	-2.68e-03	-1.18e-02
## 3838	-3.96e-02	-1.53e-02	-2.54e-02	3.92e-02	3.04e-02	2.94e-02	3.10e-02
## 3839	1.44e-02	5.29e-03	-8.53e-03	-6.08e-03	2.82e-02	-6.91e-03	-1.58e-02
## 3840	-6.72e-03	2.58e-02	8.52e-03	1.08e-02	4.91e-03	8.44e-03	4.57e-03
## 3841	-7.73e-04	-7.75e-03	-2.06e-03	-3.70e-03	-2.83e-03	-3.09e-03	-2.99e-03
## 3842	-3.84e-03	1.98e-02	-1.99e-02	1.02e-02	4.26e-03	8.66e-03	1.82e-03
## 3843	-7.95e-03	1.57e-02	1.80e-02	3.19e-02	1.18e-02	-5.15e-02	4.93e-03
## 3844	4.79e-04	-2.44e-04	5.51e-04	4.98e-04	3.68e-04	2.81e-04	4.72e-04
## 3845	-2.48e-04	-2.24e-04	1.36e-05	4.15e-05	1.03e-05	6.88e-05	2.93e-05
## 3846	-1.76e-04	-8.49e-03	-2.44e-03	-4.02e-03	-2.96e-03	-2.97e-03	-3.34e-03
## 3847	6.81e-03	4.34e-03	1.33e-02	1.01e-02	9.71e-03	5.71e-03	1.09e-02
## 3848	5.08e-03	-1.42e-02	-8.12e-03	-1.45e-02	1.40e-02	-1.47e-02	-6.66e-03
## 3849	-1.49e-03	1.80e-03	-1.67e-03	2.01e-03	1.54e-03	-2.39e-03	-2.85e-03
## 3850	1.94e-03	-7.69e-03	-4.47e-03	1.03e-02	-4.94e-03	-1.28e-02	-9.82e-04
## 3851	-4.02e-04	-6.17e-03	-1.58e-03	-2.00e-03	-1.59e-03	-1.89e-03	-2.52e-03
## 3852	-1.59e-03	2.89e-04	-1.91e-03	-2.08e-03	-1.59e-03	-1.45e-03	-1.86e-03
## 3853	3.85e-03	-4.78e-04	-7.68e-03	1.03e-02	-9.75e-03	1.16e-02	-8.63e-03
## 3854	1.28e-03	8.71e-03	1.06e-02	9.97e-03	7.26e-03	8.15e-03	7.28e-03
## 3855	-1.59e-02	-1.14e-02	-1.43e-02	1.40e-02	-8.76e-03	-1.08e-02	-1.90e-04
## 3856	-2.86e-03	8.76e-04	-2.46e-04	-3.90e-04	-2.38e-04	-5.95e-05	-4.87e-05
## 3857	2.27e-02	-1.68e-02	-3.85e-02	1.52e-03	-3.22e-02	8.95e-03	-1.72e-02
## 3858	-1.17e-02	4.53e-03	2.14e-02	-5.42e-03	-1.58e-02	-8.44e-03	1.20e-02
## 3859	1.73e-02	-7.19e-03	-2.37e-03	-2.89e-03	-3.25e-03	-3.39e-03	-3.25e-03
## 3860	6.31e-03	-1.48e-03	-2.03e-04	5.60e-04	3.43e-04	8.22e-04	2.08e-04
## 3861	-6.83e-03	1.53e-02	-1.37e-02	8.99e-03	-9.54e-03	1.43e-02	-8.78e-03
## 3862	2.57e-02	5.70e-03	2.65e-02	-1.48e-02	-1.26e-02	-1.02e-02	-1.96e-02
## 3863	5.14e-03	2.51e-03	-1.25e-02	1.07e-02	1.94e-02	1.32e-02	-6.02e-03
## 3864	-2.48e-03	9.14e-05	6.32e-03	-7.26e-03	-4.51e-03	6.90e-03	-4.55e-03
## 3865	-1.03e-02	5.95e-03	-2.23e-03	1.04e-03	1.41e-02	-3.13e-03	6.89e-03
## 3866	-1.98e-02	-2.29e-02	1.19e-02	1.08e-02	-2.24e-02	-3.42e-02	-8.34e-03
## 3867	1.67e-04	9.78e-05	-1.12e-03	5.39e-04	-1.14e-03	7.48e-04	-7.89e-04
## 3868	-6.14e-03	2.64e-02	7.66e-03	9.52e-03	4.29e-03	8.42e-03	2.96e-03
## 3869	-1.12e-02	1.83e-02	2.07e-02	-1.88e-02	1.62e-02	3.19e-02	4.09e-03

## 3870	1.83e-02	-8.33e-03	-3.21e-02	4.97e-03	2.02e-02	1.05e-02	-1.69e-02
## 3871	-2.40e-03	6.07e-03	-1.83e-02	3.72e-02	2.54e-02	-3.04e-02	2.05e-02
## 3872	-6.57e-05	6.98e-04	4.83e-05	3.82e-04	-1.65e-05	2.35e-04	-1.39e-04
## 3873	9.13e-03	-4.61e-02	-1.25e-02	-1.95e-02	-9.98e-03	-1.67e-02	-5.53e-03
## 3874	1.58e-02	1.26e-02	8.00e-03	9.80e-03	-1.27e-02	-1.43e-02	-1.01e-02
## 3875	-5.56e-03	-6.87e-03	4.34e-03	2.72e-03	-8.43e-03	4.57e-03	-4.15e-03
## 3876	-5.89e-03	2.63e-02	7.19e-03	9.16e-03	4.54e-03	8.75e-03	3.01e-03
## 3877	2.07e-02	-1.21e-02	1.35e-02	-3.66e-02	8.80e-03	8.72e-03	1.45e-02
## 3878	1.91e-02	-1.15e-02	1.45e-02	9.27e-03	1.55e-02	-4.04e-02	-2.47e-02
## 3879	2.59e-02	5.74e-04	1.26e-02	7.77e-03	8.87e-03	5.95e-03	1.99e-02
## 3880	-7.21e-04	-1.38e-03	-2.20e-03	-8.31e-03	1.31e-02	8.98e-03	-2.96e-03
## 3881	1.98e-02	6.00e-03	2.82e-02	-1.26e-02	-1.13e-02	-9.60e-03	-1.62e-02
## 3882	1.42e-02	1.79e-03	-6.90e-03	-6.34e-03	-1.06e-02	-6.91e-03	-2.01e-02
## 3883	-5.27e-04	-2.66e-03	-6.41e-04	-3.87e-04	-2.66e-04	1.68e-05	-8.51e-04
## 3884	-2.67e-03	1.21e-02	7.48e-03	-4.72e-02	8.00e-03	2.95e-02	-1.58e-03
## 3885	5.33e-03	7.68e-03	4.36e-03	-4.96e-03	3.66e-03	4.99e-03	1.56e-03
## 3886	-8.11e-04	-4.74e-03	-1.05e-03	-1.47e-03	-1.45e-03	-1.79e-03	-2.14e-03
## 3887	-7.88e-03	2.57e-02	-2.47e-02	9.25e-03	4.16e-03	7.04e-03	2.34e-03
## 3888	8.06e-05	-6.70e-04	-7.98e-05	-3.21e-04	7.40e-05	-2.30e-04	1.60e-04
## 3889	-2.62e-03	8.86e-04	-5.43e-05	-2.46e-04	-1.90e-04	-1.45e-04	1.14e-04
## 3890	-5.08e-04	-7.94e-04	-2.55e-05	4.50e-05	-8.39e-05	-1.19e-04	-1.44e-04
## 3891	-4.36e-05	3.96e-04	6.71e-06	2.17e-04	-8.24e-06	1.42e-04	-1.08e-04
## 3892	3.30e-03	-1.47e-03	-2.04e-04	-3.37e-04	-3.16e-04	-5.28e-04	-6.35e-04
## 3893	5.39e-03	-1.23e-02	-1.19e-02	-2.35e-02	-1.29e-02	9.69e-03	-9.02e-03
## 3894	-4.93e-04	-8.36e-04	-4.19e-05	4.51e-05	-9.34e-05	-1.12e-04	-1.69e-04
## 3895	2.59e-04	-1.25e-03	-1.05e-03	6.03e-03	-2.17e-04	-2.23e-03	8.45e-04
## 3896	4.93e-03	6.44e-04	9.12e-03	-1.79e-02	7.67e-03	1.08e-02	4.57e-03
## 3897	-1.28e-02	-4.96e-03	-5.98e-03	9.35e-03	8.24e-03	-1.37e-02	9.91e-03
## 3898	-1.10e-03	-3.01e-03	-4.33e-04	-7.50e-04	-9.09e-04	-1.51e-03	-1.02e-03
## 3899	-5.58e-03	-1.29e-02	-1.35e-02	-1.38e-02	-1.62e-02	-1.55e-02	3.62e-02
## 3900	1.41e-02	6.75e-04	-7.29e-03	-5.90e-03	-1.01e-02	-6.22e-03	2.01e-02
## 3901	-1.64e-02	-1.42e-02	1.26e-02	1.11e-02	-2.06e-02	-2.72e-02	-1.66e-02
## 3902	9.89e-04	-5.64e-03	-2.22e-03	-4.95e-03	-1.11e-03	-3.80e-03	-3.59e-04
## 3903	-3.95e-04	-1.17e-03	-2.43e-04	2.65e-04	3.19e-04	8.39e-04	-7.16e-05
## 3904	-9.69e-03	7.32e-03	1.94e-02	-1.34e-02	2.02e-02	-1.71e-02	8.85e-03
## 3905	1.35e-02	-3.74e-02	-1.90e-02	3.99e-02	-1.30e-02	-2.38e-02	-2.28e-03
## 3906	3.98e-04	-1.28e-03	-4.27e-04	-6.95e-04	-1.38e-04	-5.12e-04	6.06e-05
## 3907	-2.94e-03	1.05e-03	-1.32e-04	-2.14e-04	-2.92e-04	2.26e-05	2.23e-04
## 3908	-6.28e-04	-1.14e-03	-1.62e-04	-1.50e-04	-1.58e-04	-1.86e-04	-3.50e-04
## 3909	-1.08e-02	-2.16e-03	9.36e-03	-6.27e-03	-6.17e-03	7.53e-03	8.50e-03
## 3910	-1.86e-02	1.25e-03	1.26e-02	1.30e-02	1.11e-02	8.50e-03	1.86e-02
## 3911	1.50e-02	-1.30e-03	-8.24e-03	-6.37e-03	-7.45e-03	-3.38e-03	-1.13e-02
## 3912	1.98e-02	9.76e-04	-1.14e-02	-5.67e-03	-1.54e-02	-8.25e-03	9.80e-03
## 3913	-1.10e-02	2.26e-03	-3.47e-03	2.75e-04	-7.29e-03	-3.07e-03	9.60e-03
## 3914	3.73e-04	3.13e-04	5.36e-03	4.96e-03	-1.70e-03	-2.40e-03	5.39e-03
## 3915	1.35e-02	6.38e-03	-1.29e-02	-1.24e-02	-1.56e-02	6.93e-03	1.84e-03
## 3916	4.49e-04	7.44e-03	2.02e-02	8.76e-03	1.98e-02	6.74e-03	-8.31e-03
## 3917	1.17e-02	1.86e-03	-5.30e-03	-2.98e-03	-7.58e-03	-4.66e-03	-1.76e-02
## 3918	-1.02e-02	-1.56e-02	-2.96e-02	-2.35e-02	-2.84e-02	-2.09e-02	-4.34e-02
## 3919	8.38e-03	9.04e-03	-8.31e-03	8.73e-03	7.39e-03	-8.63e-03	7.63e-03

##	3920	3.96e-03	6.49e-04	-1.80e-02	9.76e-03	-1.99e-02	9.12e-03	6.85e-03
##	3921	2.60e-03	2.97e-02	8.48e-03	1.38e-02	9.69e-03	1.22e-02	1.05e-02
##	3922	-2.69e-02	-8.88e-03	1.40e-02	6.12e-03	-2.71e-02	1.26e-02	-1.21e-02
##	3923	-4.65e-03	1.03e-02	4.57e-03	5.35e-03	3.31e-03	4.41e-03	2.47e-03
##	3924	9.23e-04	-3.22e-03	7.26e-03	-3.45e-03	-1.34e-03	-3.31e-03	-1.21e-04
##	3925	-4.37e-03	1.79e-03	-1.13e-02	-1.12e-02	5.92e-03	-1.19e-02	6.26e-03
##	3926	-1.28e-02	2.60e-03	-4.80e-03	-1.47e-03	2.21e-02	-9.01e-04	-9.51e-03
##	3927	-4.25e-04	-5.53e-03	-1.46e-03	-1.89e-03	-1.59e-03	-1.92e-03	-2.41e-03
##	3928	2.51e-03	-4.79e-03	-7.58e-03	-5.90e-03	5.58e-03	-6.63e-03	4.08e-03
##	3929	2.64e-03	1.66e-03	-1.77e-04	-5.58e-04	-4.09e-04	-2.60e-04	2.39e-04
##	3930	-2.34e-03	6.02e-04	4.10e-03	-1.68e-02	-1.66e-02	-1.51e-02	7.53e-03
##	3931	-5.03e-04	-8.40e-03	-2.19e-03	-3.80e-03	-3.12e-03	-3.08e-03	-3.19e-03
##	3932	-3.57e-03	1.44e-02	6.49e-03	-1.61e-02	4.57e-03	9.67e-03	1.32e-03
##	3933	1.43e-02	1.08e-03	-8.06e-03	-7.92e-03	-1.08e-02	-7.79e-03	-2.22e-02
##	3934	1.16e-03	8.57e-03	1.00e-02	9.12e-03	7.54e-03	7.89e-03	6.36e-03
##	3935	-8.10e-04	-6.97e-03	-1.47e-03	-2.65e-03	-2.22e-03	-2.62e-03	-2.17e-03
##	3936	7.70e-03	-4.37e-02	-1.07e-02	-1.43e-02	-6.47e-03	-1.39e-02	-4.14e-03
##	3937	-6.09e-03	2.93e-02	6.91e-03	9.62e-03	5.12e-03	6.87e-03	1.41e-03
##	3938	-6.09e-04	-2.73e-03	-4.00e-04	1.39e-04	-2.04e-04	1.28e-04	-3.75e-04
##	3939	-1.28e-02	1.62e-02	-2.06e-02	3.41e-02	-1.87e-02	3.95e-02	-1.14e-02
##	3940	-1.17e-02	2.70e-02	-1.30e-02	3.97e-02	2.91e-02	3.34e-02	2.77e-02
##	3941	-3.13e-03	9.12e-03	5.48e-03	-1.45e-02	-1.81e-02	9.25e-03	2.09e-03
##	3942	-1.54e-02	4.95e-03	1.24e-02	1.04e-02	1.42e-02	1.04e-02	-2.46e-03
##	3943	1.62e-02	1.43e-02	7.66e-03	-1.42e-02	4.34e-03	8.14e-03	2.12e-03
##	3944	-5.47e-03	-6.45e-03	-2.10e-02	-7.79e-03	-2.18e-02	-7.82e-03	1.12e-02
##	3945	-5.12e-03	-4.70e-03	3.52e-03	2.80e-03	3.67e-03	2.81e-03	7.22e-03
##	3946	2.97e-04	-5.56e-04	-5.96e-04	4.07e-03	-3.01e-04	-1.39e-03	3.95e-04
##	3947	1.63e-02	2.85e-03	-9.54e-03	-7.56e-03	2.73e-02	-5.12e-03	-1.46e-02
##	3948	2.07e-02	-3.49e-06	1.32e-02	-6.67e-04	2.16e-02	2.77e-03	-2.27e-02
##	3949	-1.39e-03	9.07e-03	1.12e-02	7.19e-03	1.60e-02	1.01e-02	-1.81e-02
##	3950	-1.13e-02	9.16e-03	1.91e-02	5.02e-04	1.57e-02	-3.20e-03	7.84e-03
##	3951	4.56e-04	5.47e-03	1.36e-02	1.17e-02	-1.57e-03	1.36e-02	1.23e-03
##	3952	-1.46e-02	-1.55e-03	-1.16e-02	-7.23e-03	-8.91e-03	-4.48e-03	-1.42e-02
##	3953	-5.19e-03	8.86e-03	4.84e-03	5.02e-03	-5.09e-03	5.46e-03	5.64e-03
##	3954	-3.94e-03	2.21e-02	5.37e-03	8.29e-03	-2.39e-02	1.07e-02	-2.69e-02
##	3955	4.19e-03	5.19e-03	-2.13e-02	1.02e-02	7.08e-03	9.31e-03	6.58e-03
##	3956	-9.18e-03	-3.37e-04	-4.40e-03	-8.97e-04	-5.81e-03	-3.34e-04	-1.30e-02
##	3957	2.63e-03	1.73e-03	-2.98e-04	-6.41e-04	-4.11e-04	-5.48e-04	2.72e-04
##	3958	4.68e-05	-2.24e-04	7.97e-04	-1.68e-04	1.98e-05	-1.37e-04	8.41e-05
##	3959	3.19e-03	2.89e-04	-1.14e-02	1.19e-02	-1.00e-02	1.42e-02	-3.70e-03
##	3960	-6.94e-05	3.32e-04	7.36e-05	3.14e-04	-1.16e-03	2.57e-04	2.28e-05
##	3961	-8.93e-04	-1.64e-03	-2.89e-04	-1.46e-04	-2.01e-04	-3.09e-04	-5.14e-04
##	3962	3.22e-03	2.02e-03	-2.75e-04	-6.81e-04	-5.40e-04	-3.24e-04	3.16e-04
##	3963	-2.05e-02	-1.03e-03	1.27e-02	1.02e-02	1.00e-02	7.77e-03	1.96e-02
##	3964	-1.92e-04	2.31e-04	2.55e-04	-2.08e-04	2.86e-04	-2.46e-04	2.53e-04
##	3965	-5.86e-02	1.58e-02	3.09e-03	-2.19e-03	-2.72e-03	-7.60e-03	2.70e-03
##	3966	-4.62e-03	7.10e-03	4.96e-03	-7.46e-03	2.77e-03	4.32e-03	8.83e-04
##	3967	-5.71e-04	-4.80e-03	6.53e-03	-7.43e-03	-4.94e-03	-6.04e-03	-4.42e-03
##	3968	1.04e-02	1.03e-02	6.15e-03	-1.13e-02	-8.63e-03	1.02e-02	-9.51e-03
##	3969	-9.48e-03	-1.33e-03	-8.69e-03	-3.02e-03	-9.00e-03	-2.17e-03	-1.76e-02

## 3970	-5.47e-03	-1.50e-02	-1.49e-02	-1.47e-02	-1.12e-02	-1.35e-02	-1.06e-02
## 3971	-2.66e-03	-1.72e-03	-5.75e-04	-1.09e-03	-2.07e-04	-6.34e-04	6.54e-05
## 3972	-2.33e-02	-4.76e-03	9.38e-03	5.30e-03	2.09e-02	1.15e-02	-1.94e-02
## 3973	-6.90e-04	2.69e-04	-3.57e-05	1.85e-06	-9.01e-06	1.21e-05	-2.80e-06
## 3974	-1.30e-02	1.04e-02	2.27e-02	-4.33e-03	2.02e-02	-9.41e-03	9.79e-03
## 3975	2.34e-02	1.62e-03	1.19e-02	6.23e-03	1.63e-02	3.76e-03	3.16e-02
## 3976	-3.24e-03	9.97e-04	-1.75e-04	-3.05e-04	-8.64e-05	-8.29e-05	9.01e-05
## 3977	-6.39e-03	-1.44e-02	-1.40e-02	-1.38e-02	-1.12e-02	-1.34e-02	-1.04e-02
## 3978	-4.01e-03	1.45e-03	-4.67e-04	-6.79e-04	-4.07e-04	-1.64e-04	1.14e-04
## 3979	-5.96e-03	9.47e-03	-1.71e-02	-1.85e-02	3.34e-03	5.67e-03	-8.43e-04
## 3980	-3.00e-04	9.27e-04	2.77e-04	3.92e-04	5.08e-04	6.34e-04	-1.84e-03
## 3981	-1.34e-02	-1.08e-03	-9.53e-03	-6.02e-03	-6.59e-03	-4.27e-03	-1.29e-02
## 3982	2.12e-03	5.80e-04	-1.74e-03	-1.92e-03	-2.00e-03	-1.71e-03	-2.79e-03
## 3983	4.63e-03	-1.50e-03	9.22e-03	-2.34e-02	9.60e-03	1.15e-02	1.29e-02
## 3984	-2.84e-02	-3.93e-03	1.45e-02	5.45e-03	2.22e-02	1.23e-02	-1.56e-02
## 3985	-1.77e-02	1.63e-02	2.49e-02	-4.13e-03	-8.24e-03	2.94e-02	-1.89e-02
## 3986	-1.57e-03	-2.81e-03	1.28e-03	1.36e-03	1.04e-03	-3.70e-03	1.59e-03
## 3987	-6.15e-03	-7.91e-03	3.52e-03	1.76e-03	-8.87e-03	3.87e-03	-5.30e-03
## 3988	-3.24e-03	-6.03e-03	1.71e-02	-1.74e-02	-3.29e-02	-1.87e-02	9.31e-03
## 3989	2.94e-02	1.42e-02	-2.40e-02	3.69e-02	-1.58e-02	-1.61e-02	-2.09e-02
## 3990	-5.47e-04	-8.79e-04	-1.03e-04	2.51e-04	2.49e-04	5.80e-04	3.79e-05
## 3991	-1.89e-03	3.09e-03	-1.17e-03	2.04e-03	1.83e-03	2.08e-03	1.83e-03
## 3992	-1.99e-03	2.96e-03	-3.19e-03	-3.07e-03	1.53e-03	2.36e-03	4.88e-04
## 3993	1.37e-02	-8.62e-04	-7.50e-03	-4.06e-03	-5.32e-03	-2.31e-03	-1.04e-02
## 3994	1.03e-02	1.51e-05	1.99e-02	6.64e-03	-2.26e-02	9.29e-03	-1.14e-02
## 3995	4.41e-03	-5.77e-03	-7.02e-03	1.11e-02	-3.92e-03	-7.38e-03	3.80e-04
## 3996	-4.52e-03	-3.94e-03	2.96e-03	3.02e-03	3.81e-03	2.71e-03	6.63e-03
## 3997	-1.95e-04	-2.04e-04	-1.76e-06	7.63e-05	5.19e-05	1.20e-04	-4.56e-07
## 3998	-5.36e-03	-4.20e-03	4.29e-03	3.57e-03	5.81e-03	4.14e-03	-4.21e-03
## 3999	-5.45e-02	2.49e-02	1.03e-02	1.65e-02	1.27e-02	1.40e-02	1.15e-02
##	dfb.StrM	dfb.Cntr	dfb.PprB	dfb.PymM	dfb.MntC	dfb.TtlC	dfffit
## 1	7.32e-03	7.29e-03	-1.26e-02	-1.31e-03	-1.02e-02	1.84e-02	6.94e-02
## 2	2.84e-03	1.76e-03	3.45e-03	5.65e-03	1.86e-03	-1.18e-03	1.68e-02
## 3	3.92e-04	-2.74e-03	2.54e-02	-2.08e-02	1.63e-02	2.90e-03	-9.12e-02
## 4	2.21e-03	-8.72e-04	2.03e-03	-2.72e-03	2.06e-03	-1.59e-03	1.02e-02
## 5	-1.31e-02	-8.91e-03	8.60e-03	-7.97e-04	-2.06e-02	2.82e-05	-3.88e-02
## 6	7.22e-03	1.66e-04	3.06e-03	-2.64e-03	-6.66e-03	1.52e-02	-3.58e-02
## 7	2.48e-02	-5.33e-03	-6.54e-03	-1.12e-02	1.22e-02	-1.09e-02	7.63e-02
## 8	5.45e-03	-2.27e-03	1.08e-02	9.70e-03	6.18e-04	9.49e-03	4.65e-02
## 9	7.76e-03	1.83e-02	5.14e-03	-9.01e-03	-3.88e-03	1.31e-02	-6.51e-02
## 10	-1.11e-03	1.48e-03	-2.66e-03	2.95e-03	-9.98e-04	7.07e-04	-1.25e-02
## 11	1.61e-03	-4.25e-03	-1.11e-02	1.03e-02	-3.70e-03	2.02e-03	3.77e-02
## 12	-8.03e-06	3.03e-03	5.85e-04	-1.49e-03	-8.75e-04	1.39e-03	5.08e-03
## 13	-1.05e-03	1.00e-04	1.65e-02	-1.55e-03	3.67e-03	8.82e-03	3.77e-02
## 14	1.25e-02	2.76e-02	4.25e-03	2.60e-02	1.23e-02	-4.75e-03	-7.78e-02
## 15	-8.57e-03	-1.84e-02	-7.99e-03	5.93e-03	1.13e-02	-1.87e-02	6.26e-02
## 16	-2.05e-04	-1.09e-03	-2.57e-03	4.45e-05	-1.69e-04	-2.95e-03	-7.22e-03
## 17	-1.32e-04	-5.95e-04	4.48e-04	9.73e-04	1.18e-04	-8.72e-04	2.40e-03
## 18	2.62e-04	1.88e-03	2.59e-03	-1.87e-03	1.00e-03	3.28e-03	9.66e-03
## 19	-1.47e-02	2.63e-02	-2.76e-02	2.16e-02	5.92e-03	-2.29e-04	-1.16e-01

## 20	-2.22e-02	-5.97e-03	-8.69e-03	6.62e-03	1.67e-02	-1.69e-02	7.03e-02
## 21	2.65e-02	-5.69e-03	1.22e-02	1.56e-03	1.86e-02	-1.30e-02	-7.99e-02
## 22	-6.74e-04	1.80e-03	1.96e-03	-6.86e-03	-3.97e-03	3.50e-03	1.31e-02
## 23	1.04e-02	1.96e-02	-1.80e-02	-1.38e-02	4.51e-02	-3.84e-02	-9.06e-02
## 24	6.24e-04	1.16e-03	-7.71e-04	5.81e-06	-5.59e-05	-9.54e-05	3.49e-03
## 25	-3.55e-04	3.49e-03	-1.56e-03	4.79e-04	2.13e-04	8.47e-04	-6.51e-03
## 26	3.99e-04	-5.93e-03	-6.11e-03	-9.81e-03	-4.35e-03	-2.25e-03	2.67e-02
## 27	1.49e-02	2.38e-02	4.75e-03	-1.27e-02	2.42e-03	-7.85e-03	-7.67e-02
## 28	-1.16e-02	-3.90e-03	-2.53e-02	4.21e-03	3.82e-03	-2.81e-02	-1.07e-01
## 29	2.30e-03	-1.44e-03	2.92e-03	-3.35e-04	4.65e-03	-8.87e-04	-1.11e-02
## 30	3.01e-02	1.11e-02	1.39e-02	-2.20e-02	1.77e-02	4.28e-04	-8.90e-02
## 31	1.98e-03	1.36e-03	-8.23e-04	1.89e-04	5.70e-04	1.05e-03	5.07e-03
## 32	-1.99e-02	7.65e-03	-7.20e-03	-1.95e-02	1.87e-02	-4.06e-02	1.16e-01
## 33	7.87e-04	3.99e-06	9.34e-04	1.62e-03	4.46e-04	-9.23e-04	4.90e-03
## 34	-2.40e-03	-4.41e-03	4.12e-03	-1.35e-02	-1.09e-02	9.19e-03	2.31e-02
## 35	2.73e-03	5.33e-03	1.67e-02	-2.69e-02	-1.19e-02	1.56e-02	5.93e-02
## 36	-5.95e-03	-2.05e-03	-3.57e-03	2.43e-03	-2.09e-03	-4.12e-03	-1.25e-02
## 37	-1.34e-02	-7.79e-03	9.50e-03	-8.75e-04	-2.10e-02	2.59e-04	-4.03e-02
## 38	1.50e-02	-1.19e-02	-6.66e-03	-3.48e-03	1.02e-02	5.77e-03	4.63e-02
## 39	1.01e-02	1.25e-02	3.74e-03	-8.62e-03	-2.24e-03	1.24e-02	-5.60e-02
## 40	9.05e-03	2.05e-03	3.35e-03	1.82e-02	-3.56e-03	1.41e-02	-4.44e-02
## 41	3.21e-03	1.19e-02	7.53e-03	8.03e-03	1.99e-03	2.82e-03	3.39e-02
## 42	-1.65e-03	-1.38e-03	1.31e-03	-1.04e-04	7.81e-04	-2.50e-04	-6.00e-03
## 43	-3.63e-04	7.62e-04	1.56e-03	2.61e-03	-2.05e-03	2.30e-03	9.19e-03
## 44	-3.06e-03	-1.66e-03	2.08e-03	-4.91e-05	1.57e-03	6.86e-04	-8.33e-03
## 45	7.87e-03	-9.38e-03	-8.84e-03	3.48e-03	-1.13e-02	-1.49e-02	5.72e-02
## 46	-1.87e-02	-1.49e-02	-5.26e-03	1.05e-02	7.90e-03	4.18e-03	5.80e-02
## 47	1.58e-03	2.31e-03	1.26e-02	9.31e-03	-4.40e-03	4.07e-03	4.14e-02
## 48	-1.76e-02	-6.07e-03	5.37e-03	-8.70e-04	-1.60e-02	6.93e-03	-3.97e-02
## 49	-2.32e-03	3.09e-03	-2.23e-03	-5.02e-04	-2.06e-03	4.90e-04	1.03e-02
## 50	-3.53e-03	-1.61e-03	4.54e-03	-6.17e-04	-8.64e-05	1.43e-03	-1.50e-02
## 51	2.56e-02	-9.43e-03	-2.48e-03	1.04e-02	5.74e-04	1.62e-03	6.73e-02
## 52	1.75e-02	5.38e-03	6.67e-03	1.05e-02	-1.33e-02	2.50e-02	-7.00e-02
## 53	8.35e-03	-1.19e-02	-7.50e-03	-5.67e-03	-1.71e-02	-5.27e-03	5.73e-02
## 54	-9.25e-03	-7.52e-03	4.24e-03	7.97e-03	-8.70e-03	8.38e-03	-4.99e-02
## 55	1.20e-03	6.58e-04	6.92e-04	2.46e-05	7.50e-04	2.87e-04	-3.55e-03
## 56	8.78e-03	-1.13e-03	1.36e-03	-3.11e-03	-2.75e-03	6.56e-03	-3.54e-02
## 57	-2.82e-03	-1.30e-03	-3.75e-03	-7.30e-04	9.37e-05	1.07e-02	3.17e-02
## 58	-8.78e-04	-3.28e-03	-2.26e-03	6.08e-03	-4.37e-03	7.26e-03	2.86e-02
## 59	-5.96e-06	1.41e-03	5.53e-04	-6.70e-04	-3.82e-04	-2.28e-05	3.62e-03
## 60	1.73e-03	4.75e-03	-1.99e-03	1.41e-04	1.18e-05	9.16e-03	1.86e-02
## 61	-6.18e-03	-1.90e-02	-3.86e-03	1.12e-02	-2.64e-03	5.74e-03	5.70e-02
## 62	1.71e-02	-1.35e-02	-2.24e-03	-1.17e-02	-1.73e-03	9.71e-03	4.48e-02
## 63	-1.78e-03	-1.31e-03	-1.50e-03	1.28e-03	-2.47e-03	2.30e-03	-8.36e-03
## 64	4.96e-03	4.23e-03	-7.66e-03	-4.10e-03	-1.12e-03	7.10e-04	2.78e-02
## 65	1.03e-02	4.36e-05	-2.07e-02	-2.15e-03	-1.25e-02	1.27e-02	-4.32e-02
## 66	-2.40e-02	-5.98e-03	-9.33e-03	1.07e-03	-1.37e-02	-1.69e-02	6.49e-02
## 67	1.33e-02	1.02e-02	-6.72e-03	8.09e-03	1.22e-02	2.16e-03	4.16e-02
## 68	-3.69e-03	8.01e-03	4.92e-03	6.30e-03	-5.82e-05	-3.31e-03	2.07e-02
## 69	3.33e-05	-1.49e-03	-1.16e-03	2.98e-03	-8.88e-04	1.99e-03	-7.46e-03

## 70	1.71e-02	-1.28e-03	-1.43e-02	1.88e-02	2.39e-02	-1.33e-02	7.00e-02
## 71	3.29e-03	-2.32e-03	1.06e-02	8.35e-03	-2.44e-03	4.76e-03	3.68e-02
## 72	-2.52e-04	-1.10e-03	-1.68e-03	6.85e-04	-2.84e-04	-1.29e-03	4.12e-03
## 73	6.77e-04	4.89e-03	-2.58e-03	-4.21e-03	-5.39e-04	6.48e-03	2.06e-02
## 74	4.21e-05	-1.64e-04	5.39e-04	4.03e-04	4.77e-05	5.59e-04	-1.48e-03
## 75	-2.28e-02	-7.65e-03	-1.03e-02	-1.91e-02	-7.60e-03	-3.83e-03	5.16e-02
## 76	-2.85e-03	7.82e-04	1.47e-02	6.60e-03	-9.07e-04	4.63e-03	3.79e-02
## 77	-9.12e-03	1.58e-03	6.45e-03	-1.97e-03	-1.78e-04	2.45e-03	2.30e-02
## 78	5.78e-04	-3.53e-03	7.57e-03	7.81e-03	-1.39e-03	-9.59e-04	3.24e-02
## 79	-2.03e-02	-1.03e-02	-6.94e-03	4.31e-03	-1.69e-02	-9.82e-03	5.69e-02
## 80	-7.41e-04	-2.00e-03	-4.38e-03	-1.45e-03	-2.89e-03	-2.04e-03	1.13e-02
## 81	-1.86e-02	-4.50e-03	6.76e-03	-3.90e-04	-1.77e-02	6.39e-03	-5.04e-02
## 82	-1.71e-02	-9.28e-03	1.70e-02	5.16e-04	-3.29e-03	6.65e-04	6.66e-02
## 83	-1.73e-02	-2.81e-03	9.85e-03	2.58e-02	-1.84e-02	5.04e-03	-6.57e-02
## 84	-5.63e-03	-1.79e-02	-3.33e-03	-1.42e-02	-1.17e-06	-3.59e-03	4.59e-02
## 85	-6.68e-06	3.30e-04	-4.63e-04	-4.04e-04	-5.01e-05	-2.41e-04	1.20e-03
## 86	-2.50e-02	3.68e-03	-5.06e-03	-1.69e-02	1.38e-02	-3.66e-02	9.22e-02
## 87	7.30e-03	4.14e-03	-6.21e-03	-9.33e-03	-3.12e-03	1.57e-03	3.09e-02
## 88	-4.55e-05	-1.70e-03	-1.14e-03	3.06e-03	-6.28e-04	1.29e-03	-7.25e-03
## 89	7.27e-06	5.26e-04	-8.07e-04	7.24e-04	6.17e-05	-3.71e-04	1.82e-03
## 90	1.38e-02	-9.63e-03	1.59e-02	1.42e-02	1.56e-04	2.77e-03	5.82e-02
## 91	1.33e-02	-9.36e-03	1.62e-02	-1.63e-02	1.59e-02	-1.46e-03	5.03e-02
## 92	1.75e-02	3.79e-03	2.76e-02	4.07e-04	3.02e-02	-9.78e-03	8.21e-02
## 93	1.10e-03	-7.94e-04	1.79e-03	-3.12e-03	1.78e-03	-7.58e-04	-7.06e-03
## 94	-3.47e-03	-1.51e-02	-2.32e-03	-7.59e-04	-6.85e-03	7.80e-03	3.29e-02
## 95	-6.50e-05	5.74e-03	-1.99e-03	-3.81e-03	-2.06e-03	7.56e-03	1.70e-02
## 96	-1.24e-02	-1.08e-03	1.10e-02	-4.09e-03	-1.78e-02	9.38e-03	-5.77e-02
## 97	-1.74e-03	3.17e-03	3.03e-03	-2.84e-04	1.20e-03	7.55e-04	-1.23e-02
## 98	9.94e-03	2.35e-02	-1.87e-02	-1.60e-02	4.08e-02	-3.20e-02	-8.75e-02
## 99	1.55e-05	-1.49e-03	-1.03e-03	2.47e-03	-6.17e-04	1.64e-03	-6.33e-03
## 100	1.10e-02	6.53e-03	3.49e-03	-6.82e-03	-1.36e-03	1.39e-02	-6.17e-02
## 101	-2.47e-03	-4.67e-03	4.28e-03	3.28e-03	-1.07e-02	9.11e-03	2.15e-02
## 102	-2.09e-03	-5.20e-03	3.43e-03	-2.17e-03	-9.24e-03	8.43e-03	2.02e-02
## 103	2.19e-02	2.83e-03	1.58e-02	-1.36e-02	1.11e-02	-4.87e-04	4.56e-02
## 104	8.16e-03	-2.29e-03	7.98e-03	-4.97e-03	6.72e-04	-4.84e-03	2.98e-02
## 105	-6.58e-03	-3.79e-02	1.52e-02	2.94e-02	9.77e-03	-5.51e-02	-1.25e-01
## 106	7.86e-03	2.90e-03	1.44e-02	9.92e-03	-1.73e-03	2.02e-02	5.40e-02
## 107	-1.97e-03	-2.08e-03	-2.24e-03	4.51e-03	-1.01e-03	6.42e-03	2.02e-02
## 108	5.11e-03	5.08e-03	6.44e-03	9.11e-03	6.86e-03	2.42e-04	3.10e-02
## 109	-6.31e-03	1.00e-02	2.36e-02	2.12e-02	1.47e-02	3.12e-03	5.71e-02
## 110	2.99e-04	6.60e-04	-2.33e-03	2.22e-04	-4.36e-03	9.44e-03	-1.71e-02
## 111	-3.91e-02	3.23e-02	9.36e-03	-1.83e-02	-3.83e-03	-7.37e-03	-1.06e-01
## 112	-1.64e-03	1.79e-03	-1.99e-03	5.02e-04	-2.39e-04	1.01e-03	-9.21e-03
## 113	2.39e-02	-1.26e-02	-4.96e-03	7.69e-03	7.90e-03	-3.02e-04	5.35e-02
## 114	-1.79e-02	4.60e-03	5.78e-03	-1.01e-02	-1.03e-02	-6.91e-03	-6.11e-02
## 115	-2.04e-03	2.74e-03	-2.50e-03	2.92e-03	1.60e-03	-2.29e-03	1.51e-02
## 116	2.11e-02	-2.65e-03	2.43e-02	1.34e-03	3.11e-02	-2.85e-02	8.56e-02
## 117	4.13e-03	9.99e-03	3.73e-03	-6.15e-03	5.50e-03	1.17e-03	2.19e-02
## 118	1.25e-02	3.53e-03	5.58e-03	-3.63e-03	-1.13e-02	1.80e-02	-5.56e-02
## 119	7.36e-06	2.09e-04	8.04e-05	2.12e-04	5.14e-05	-8.79e-05	5.39e-04

## 120	1.32e-02	-1.13e-02	-7.29e-03	-6.36e-03	1.53e-02	-1.03e-02	5.90e-02
## 121	-1.56e-03	6.50e-04	-4.65e-03	-1.42e-03	1.20e-03	1.07e-02	3.97e-02
## 122	-2.27e-03	-5.75e-03	4.41e-03	3.99e-03	-9.34e-03	7.08e-03	2.01e-02
## 123	-1.06e-02	-7.84e-03	7.10e-03	-1.14e-03	-1.41e-02	3.47e-03	-3.70e-02
## 124	1.94e-03	-3.55e-03	8.44e-03	8.72e-03	-3.85e-04	3.21e-03	3.50e-02
## 125	-1.97e-03	-5.97e-03	3.71e-03	3.62e-03	-8.20e-03	7.20e-03	2.09e-02
## 126	1.71e-02	1.92e-02	-7.58e-03	4.13e-03	1.50e-02	-5.15e-04	4.04e-02
## 127	-1.73e-02	3.51e-03	7.46e-03	-7.40e-03	-6.44e-03	1.74e-03	-6.14e-02
## 128	1.11e-04	-1.91e-04	1.16e-03	7.59e-04	9.41e-05	1.63e-03	-3.69e-03
## 129	-2.51e-03	-4.64e-03	4.16e-03	3.21e-03	-1.08e-02	9.06e-03	2.13e-02
## 130	-6.44e-03	-2.64e-03	-3.59e-03	5.71e-03	-2.06e-03	-4.84e-03	3.29e-02
## 131	-3.09e-02	4.60e-03	-8.91e-03	6.03e-03	2.03e-02	-9.08e-03	7.42e-02
## 132	2.94e-02	3.00e-02	1.82e-02	1.42e-02	2.21e-02	1.87e-02	-1.17e-01
## 133	-2.49e-03	-2.54e-03	-2.74e-03	2.62e-03	-2.89e-03	6.80e-04	-1.31e-02
## 134	3.06e-02	-7.19e-03	1.40e-02	2.76e-03	1.26e-02	-2.18e-02	-7.60e-02
## 135	-5.71e-03	-4.45e-03	-2.48e-02	3.32e-03	1.02e-02	-2.28e-02	-7.22e-02
## 136	-4.76e-05	3.77e-03	-3.87e-03	-1.26e-03	-1.65e-03	-1.05e-03	9.83e-03
## 137	1.24e-02	-4.72e-03	-9.64e-03	-2.16e-02	1.62e-02	9.02e-04	5.35e-02
## 138	-3.58e-05	-5.65e-04	-1.42e-03	-4.88e-03	-2.78e-03	5.04e-03	-1.11e-02
## 139	3.39e-05	-5.67e-04	1.37e-03	-1.33e-03	-3.42e-04	1.12e-03	-3.71e-03
## 140	-1.07e-02	-9.92e-03	6.24e-03	-1.21e-02	-1.41e-02	8.49e-04	-4.53e-02
## 141	2.27e-03	-1.19e-03	2.45e-03	-3.13e-04	5.29e-03	-1.51e-03	-1.23e-02
## 142	4.93e-02	1.85e-02	-2.73e-02	-3.30e-03	1.12e-02	1.96e-02	-1.05e-01
## 143	-1.36e-03	1.83e-02	-3.30e-03	-8.70e-03	3.35e-03	1.04e-02	3.85e-02
## 144	6.11e-03	7.75e-04	-3.58e-03	-3.16e-04	4.17e-03	2.67e-03	2.08e-02
## 145	1.03e-04	-2.15e-04	-5.90e-04	7.09e-04	7.32e-05	1.36e-03	-3.47e-03
## 146	2.25e-03	1.20e-03	-7.77e-04	2.21e-06	7.16e-04	1.06e-03	4.53e-03
## 147	-8.10e-04	4.58e-03	2.38e-03	2.69e-03	-5.64e-03	6.80e-03	1.57e-02
## 148	-5.47e-03	-8.87e-03	1.94e-02	2.21e-03	1.50e-02	-2.10e-02	-6.41e-02
## 149	6.38e-03	2.48e-03	6.22e-03	-3.34e-03	-1.15e-03	-1.53e-03	2.61e-02
## 150	-1.90e-02	-1.06e-02	-9.12e-03	1.17e-02	-7.20e-03	-9.69e-03	4.78e-02
## 151	-2.02e-02	-1.06e-02	-9.93e-03	1.61e-03	-1.28e-02	-5.67e-03	5.86e-02
## 152	9.68e-03	-1.02e-03	-1.90e-02	-1.16e-02	-1.37e-02	1.42e-02	-4.27e-02
## 153	-6.25e-04	-1.73e-03	-1.64e-03	-1.31e-04	-2.68e-03	5.93e-03	1.24e-02
## 154	3.35e-03	-1.85e-03	-4.63e-03	-3.93e-03	1.08e-03	9.44e-04	-1.71e-02
## 155	-1.98e-03	-5.99e-03	3.34e-03	3.45e-03	-7.74e-03	6.30e-03	1.91e-02
## 156	-2.57e-02	-1.94e-03	-9.35e-03	-3.07e-02	2.20e-02	-1.72e-03	7.77e-02
## 157	2.92e-02	-3.01e-03	-6.12e-03	-2.99e-02	1.07e-02	-2.34e-03	7.08e-02
## 158	-4.14e-04	1.23e-04	1.24e-03	2.25e-03	-1.29e-03	8.58e-04	7.08e-03
## 159	7.83e-03	1.40e-02	4.17e-03	6.66e-03	2.79e-03	-1.70e-03	2.97e-02
## 160	-5.41e-05	1.01e-02	2.19e-03	-8.43e-03	-4.16e-03	4.41e-03	1.93e-02
## 161	6.66e-04	-3.66e-03	-9.30e-03	1.13e-03	-4.27e-03	-7.77e-04	3.66e-02
## 162	-1.75e-02	5.87e-03	-2.65e-02	-6.86e-03	-2.99e-02	9.71e-03	-7.64e-02
## 163	1.88e-02	1.27e-02	-1.30e-02	1.06e-03	2.90e-02	2.44e-04	5.64e-02
## 164	-1.98e-03	1.88e-03	-1.34e-03	-1.50e-03	-1.15e-03	-1.71e-04	6.39e-03
## 165	-4.51e-04	1.72e-03	1.82e-03	2.79e-03	-2.95e-03	3.70e-03	1.17e-02
## 166	4.33e-05	-4.86e-04	-1.46e-03	-4.79e-03	-2.61e-03	5.69e-03	-1.17e-02
## 167	-1.37e-02	-7.99e-03	8.41e-03	2.63e-02	-1.95e-02	-1.82e-03	-4.88e-02
## 168	2.78e-03	-1.42e-03	3.24e-03	2.98e-03	5.58e-03	-8.42e-04	-1.29e-02
## 169	4.04e-02	4.11e-02	1.38e-02	-2.05e-02	1.40e-02	2.47e-02	-1.33e-01

## 170	-1.63e-03	-6.51e-03	2.96e-03	-5.37e-04	-5.29e-03	2.92e-03	1.43e-02
## 171	8.54e-03	2.84e-04	-5.32e-03	-6.95e-03	7.79e-03	-8.87e-04	2.64e-02
## 172	7.29e-03	3.44e-03	3.59e-03	-3.09e-03	-9.51e-03	2.44e-02	-5.00e-02
## 173	-7.10e-03	2.01e-02	9.18e-03	1.04e-02	2.85e-03	-1.05e-02	4.50e-02
## 174	3.42e-03	-5.89e-03	1.02e-02	2.66e-02	-8.30e-03	-2.06e-02	-9.50e-02
## 175	-3.40e-04	-3.06e-04	1.11e-03	-2.82e-03	-1.03e-03	6.22e-05	5.10e-03
## 176	-2.39e-03	-1.03e-02	4.48e-03	1.37e-03	-6.46e-03	-2.75e-03	2.05e-02
## 177	-1.13e-02	-5.49e-03	5.52e-03	-1.54e-02	-9.94e-03	6.64e-04	-4.48e-02
## 178	-1.38e-02	-3.67e-03	-2.49e-02	2.99e-02	-2.52e-02	6.28e-03	-7.84e-02
## 179	-1.70e-02	-9.55e-03	-5.59e-03	-3.15e-02	1.00e-02	-3.45e-02	9.45e-02
## 180	-2.07e-04	-9.18e-04	-1.11e-03	-1.77e-04	-1.59e-04	-1.34e-03	3.32e-03
## 181	-1.07e-02	-7.06e-03	-2.74e-02	4.59e-02	1.04e-02	-3.09e-02	-1.09e-01
## 182	3.80e-03	3.25e-03	1.38e-02	1.02e-02	-3.89e-03	1.21e-02	4.15e-02
## 183	2.05e-02	-1.71e-03	-2.27e-02	2.39e-02	-1.58e-02	8.26e-03	-5.66e-02
## 184	-6.06e-03	-1.22e-04	5.66e-03	-2.77e-03	-2.29e-03	-2.04e-03	2.23e-02
## 185	-1.78e-02	-5.56e-04	1.10e-02	-4.38e-03	-2.01e-02	1.19e-02	-6.57e-02
## 186	-1.21e-02	-9.85e-03	1.77e-02	2.32e-03	1.33e-02	-3.61e-02	-8.93e-02
## 187	2.53e-03	-2.20e-03	-9.51e-03	1.26e-02	-4.86e-03	6.58e-04	3.97e-02
## 188	7.82e-03	-1.90e-03	1.26e-02	-1.78e-03	-4.16e-04	1.35e-02	4.98e-02
## 189	-6.84e-04	2.07e-03	2.13e-03	-6.44e-04	-3.76e-03	3.54e-03	1.06e-02
## 190	2.06e-03	-7.96e-03	1.02e-02	-2.81e-03	-4.51e-03	2.26e-04	3.12e-02
## 191	-7.13e-03	-8.73e-04	-4.02e-03	-1.19e-03	-2.44e-03	-1.97e-04	1.72e-02
## 192	1.81e-02	-1.82e-03	7.11e-03	-3.13e-03	-1.69e-02	2.15e-02	-6.30e-02
## 193	1.89e-04	2.18e-04	-2.41e-03	4.28e-03	-3.46e-03	7.75e-03	-1.64e-02
## 194	-2.05e-05	-2.14e-04	-3.06e-04	5.38e-06	-2.24e-06	-4.56e-04	-9.59e-04
## 195	1.41e-04	-1.14e-03	-1.63e-03	9.50e-04	-2.01e-03	4.43e-03	-1.08e-02
## 196	2.13e-02	-1.12e-02	-7.64e-03	5.87e-03	1.80e-02	-2.06e-02	6.97e-02
## 197	-2.37e-04	6.13e-03	-5.13e-03	-5.71e-03	-3.52e-03	1.59e-03	1.43e-02
## 198	-2.70e-03	-1.82e-02	-2.07e-03	7.24e-03	-5.28e-03	5.86e-03	3.77e-02
## 199	5.67e-04	1.82e-03	-9.42e-04	-1.70e-03	-2.27e-04	3.69e-03	7.68e-03
## 200	-2.15e-03	-5.13e-03	3.57e-03	2.85e-03	-8.61e-03	8.33e-03	2.20e-02
## 201	-6.52e-03	8.40e-03	-7.77e-03	-5.81e-03	1.79e-02	-1.06e-02	5.95e-02
## 202	1.42e-02	-3.88e-03	-8.64e-03	-1.02e-02	2.10e-02	-1.13e-02	6.04e-02
## 203	3.30e-04	2.12e-03	2.83e-03	1.92e-03	1.23e-03	3.56e-03	9.67e-03
## 204	2.70e-02	-1.21e-03	-9.56e-03	-1.50e-02	2.02e-02	-2.42e-03	7.30e-02
## 205	1.12e-02	-1.03e-02	1.58e-02	-4.52e-03	1.61e-02	4.01e-03	4.04e-02
## 206	1.20e-02	8.30e-03	-6.33e-03	-1.30e-02	1.42e-02	-4.16e-05	4.02e-02
## 207	3.24e-03	-8.76e-04	3.36e-03	-3.75e-04	-1.60e-03	2.51e-03	-1.35e-02
## 208	1.98e-02	-4.87e-03	-2.08e-02	4.62e-05	-2.32e-02	8.69e-03	-5.01e-02
## 209	1.07e-02	1.90e-02	9.17e-03	-7.10e-03	-1.92e-02	3.17e-02	-7.85e-02
## 210	-4.54e-04	-2.19e-03	-1.93e-03	-3.99e-04	-7.42e-04	4.21e-03	1.61e-02
## 211	-5.50e-03	-8.03e-03	1.91e-02	2.14e-02	1.62e-02	-2.18e-02	-6.81e-02
## 212	8.60e-03	4.94e-03	1.55e-02	-2.78e-03	-3.49e-03	2.48e-02	5.70e-02
## 213	1.03e-04	-8.84e-04	-1.27e-03	-4.31e-03	-2.59e-03	4.67e-03	-1.16e-02
## 214	-3.04e-04	-4.08e-04	9.31e-04	2.29e-04	-7.28e-04	6.65e-05	4.46e-03
## 215	-2.74e-02	-2.14e-03	3.64e-02	7.76e-03	1.87e-02	-5.85e-03	8.58e-02
## 216	-7.35e-03	-1.41e-02	-4.02e-03	-6.92e-03	-7.05e-03	-5.21e-03	3.31e-02
## 217	-5.63e-03	-8.00e-04	-3.93e-03	-7.09e-04	-8.03e-03	8.11e-03	-2.32e-02
## 218	-1.92e-03	-7.33e-04	1.09e-03	9.41e-04	-4.34e-04	9.48e-04	-5.19e-03
## 219	3.21e-04	-2.97e-04	3.62e-04	4.07e-04	5.36e-04	-6.72e-05	-1.73e-03

## 220	3.06e-02	5.62e-03	-8.48e-03	-3.60e-02	2.20e-02	-5.74e-03	7.68e-02
## 221	-1.34e-02	-8.08e-03	8.93e-03	-1.16e-03	-2.07e-02	-1.36e-04	-3.97e-02
## 222	1.12e-04	-2.67e-04	-1.60e-03	2.13e-03	-5.39e-04	3.98e-03	-9.33e-03
## 223	-9.77e-04	5.88e-03	-9.31e-03	-2.00e-03	-8.98e-03	9.50e-03	2.28e-02
## 224	-9.08e-03	8.29e-03	-2.60e-02	-2.25e-02	3.80e-03	-8.38e-03	-1.01e-01
## 225	-1.16e-03	3.60e-03	-7.29e-03	-1.01e-02	-7.92e-03	5.80e-03	1.88e-02
## 226	-1.31e-02	1.25e-02	-1.11e-02	1.48e-02	-1.55e-03	-2.21e-04	6.00e-02
## 227	-6.10e-03	-1.10e-03	-6.25e-03	8.84e-03	-3.03e-03	-4.59e-03	2.55e-02
## 228	-1.72e-02	-2.08e-03	-2.53e-02	-1.75e-02	9.83e-03	-7.76e-03	-8.73e-02
## 229	-2.02e-02	-1.32e-02	-6.48e-03	-7.61e-03	1.03e-02	-3.76e-03	6.37e-02
## 230	-1.84e-03	2.25e-03	-1.64e-03	-3.60e-04	-1.51e-03	-1.88e-04	7.20e-03
## 231	-1.62e-03	8.19e-03	-3.30e-03	-9.29e-04	1.98e-03	2.27e-03	2.13e-02
## 232	-8.41e-03	-1.11e-02	-3.65e-03	-1.89e-03	2.48e-03	2.78e-04	2.93e-02
## 233	2.17e-02	-3.94e-03	9.60e-03	-1.37e-02	-2.02e-02	1.63e-02	-5.82e-02
## 234	7.82e-05	-2.42e-04	-2.20e-03	1.98e-04	-3.01e-03	6.93e-03	-1.46e-02
## 235	-2.58e-03	-9.97e-03	4.84e-03	7.52e-04	-7.51e-03	-1.26e-03	2.02e-02
## 236	-1.41e-03	-8.07e-03	1.65e-02	-1.80e-02	1.94e-02	-1.65e-03	-7.70e-02
## 237	1.07e-02	3.06e-02	-1.16e-02	9.79e-03	5.92e-03	1.12e-02	5.17e-02
## 238	1.72e-02	1.69e-03	-1.06e-02	5.98e-03	1.76e-02	-9.04e-04	6.19e-02
## 239	1.11e-02	-3.01e-03	1.98e-03	-2.58e-03	-6.62e-03	1.30e-02	-4.58e-02
## 240	7.95e-05	4.91e-03	8.62e-04	1.83e-03	-8.07e-04	1.72e-03	7.86e-03
## 241	1.60e-03	-1.59e-03	-3.88e-03	2.62e-03	3.26e-03	-2.39e-03	-1.23e-02
## 242	8.56e-05	3.77e-04	6.51e-04	-4.07e-04	5.02e-06	7.48e-04	1.82e-03
## 243	-4.33e-03	-1.28e-03	-3.36e-03	-1.33e-03	-2.74e-03	-6.11e-05	1.48e-02
## 244	-5.88e-03	-1.07e-02	8.63e-03	4.66e-03	4.51e-04	3.10e-03	2.88e-02
## 245	3.82e-03	-7.51e-04	-1.05e-02	2.38e-03	-1.48e-02	-9.03e-04	5.79e-02
## 246	1.42e-02	6.12e-03	2.53e-02	8.00e-04	2.93e-02	-1.01e-02	7.78e-02
## 247	-1.29e-02	2.56e-03	9.34e-03	1.21e-02	-2.30e-03	-2.47e-03	3.65e-02
## 248	-1.24e-02	-5.85e-03	7.41e-03	-3.49e-03	-1.54e-02	6.07e-03	-5.81e-02
## 249	-2.18e-03	-3.51e-03	2.58e-02	-1.91e-02	1.62e-02	-1.12e-02	-8.10e-02
## 250	-1.09e-02	5.89e-03	-7.28e-03	6.53e-03	4.93e-03	-1.76e-03	4.20e-02
## 251	1.38e-02	1.27e-03	-5.05e-03	5.50e-03	5.56e-03	-8.15e-04	3.11e-02
## 252	-1.60e-02	-4.45e-03	-2.26e-02	-5.73e-04	-3.18e-02	-4.87e-06	-5.88e-02
## 253	-1.83e-02	-7.20e-03	-2.63e-02	2.48e-03	1.40e-02	-1.21e-02	-9.91e-02
## 254	-6.98e-03	-9.62e-04	7.89e-03	-3.01e-03	-5.04e-03	-5.56e-03	2.83e-02
## 255	-3.08e-03	-6.53e-03	-1.03e-02	5.18e-03	-1.32e-02	6.80e-03	2.46e-02
## 256	-6.46e-04	9.18e-04	-1.32e-03	1.51e-03	2.65e-04	-9.05e-04	6.88e-03
## 257	5.05e-05	5.20e-04	8.41e-04	-4.98e-05	2.90e-04	5.90e-04	2.28e-03
## 258	-1.56e-03	-2.10e-03	8.12e-03	-1.46e-03	1.08e-03	4.75e-04	1.97e-02
## 259	-5.44e-03	-6.83e-03	1.93e-02	2.02e-02	1.93e-02	-2.31e-02	-8.05e-02
## 260	-2.26e-02	-1.22e-02	-1.07e-02	5.78e-03	-9.66e-03	-5.74e-03	6.95e-02
## 261	2.57e-02	-4.99e-03	1.17e-02	8.99e-04	1.63e-02	-1.14e-02	-7.84e-02
## 262	7.76e-03	-6.15e-04	1.29e-03	-3.26e-03	-3.65e-03	1.83e-02	-4.07e-02
## 263	-1.81e-02	-1.45e-02	-2.76e-03	1.13e-02	-1.68e-03	4.82e-03	5.84e-02
## 264	-7.09e-03	9.98e-03	-5.32e-03	-6.78e-03	1.99e-03	-2.17e-03	2.59e-02
## 265	-2.48e-03	-2.12e-03	1.10e-02	1.23e-02	3.97e-03	-4.46e-03	3.07e-02
## 266	2.72e-03	-1.57e-03	-3.56e-03	-6.32e-03	3.02e-03	-1.38e-04	-1.38e-02
## 267	5.28e-06	-6.62e-05	-4.52e-05	9.70e-05	8.85e-06	6.48e-05	-2.66e-04
## 268	-1.71e-02	-1.20e-02	-6.23e-03	2.34e-02	1.25e-02	-3.14e-02	9.14e-02
## 269	1.49e-03	-2.06e-02	-1.85e-02	-5.72e-02	-2.69e-02	5.92e-02	-1.40e-01

## 270	1.72e-05	-6.20e-05	2.94e-04	-1.21e-05	4.60e-06	4.09e-04	-9.05e-04
## 271	1.07e-02	4.99e-03	3.27e-03	-4.12e-03	-9.14e-03	1.29e-02	-5.83e-02
## 272	-2.06e-03	-3.59e-03	3.62e-03	-2.49e-03	-1.02e-03	1.22e-03	-1.23e-02
## 273	-1.28e-02	-7.24e-03	-2.54e-02	4.63e-02	1.00e-02	-4.29e-02	-1.02e-01
## 274	-1.61e-02	-1.14e-02	3.89e-02	7.87e-03	1.41e-02	-2.95e-02	9.82e-02
## 275	-1.46e-02	-8.04e-03	-2.12e-02	-1.38e-02	-2.98e-02	2.24e-03	-4.89e-02
## 276	-1.28e-02	-1.23e-03	8.04e-03	-3.67e-03	-1.98e-02	2.10e-02	-7.07e-02
## 277	9.33e-03	2.85e-02	4.41e-03	-1.59e-02	1.24e-02	-1.24e-02	-7.79e-02
## 278	-2.61e-02	-5.89e-03	-8.22e-03	-1.75e-02	-1.52e-02	-5.02e-03	5.74e-02
## 279	-1.42e-02	-1.30e-02	-1.03e-02	2.02e-03	-1.09e-02	-6.15e-03	6.62e-02
## 280	1.65e-03	6.58e-04	1.29e-02	-2.02e-02	-5.59e-03	5.21e-03	4.25e-02
## 281	5.59e-04	-1.65e-03	9.33e-03	8.68e-03	-1.98e-03	-1.96e-03	3.52e-02
## 282	2.21e-03	-6.80e-04	1.26e-02	4.82e-04	-2.85e-03	2.78e-03	3.69e-02
## 283	-3.30e-03	-6.80e-03	5.62e-03	4.62e-03	-1.40e-02	9.08e-03	3.41e-02
## 284	5.87e-04	-4.91e-03	2.54e-03	3.96e-03	-4.42e-04	-1.05e-03	1.13e-02
## 285	9.29e-03	1.13e-02	-2.60e-02	-1.96e-02	-2.17e-02	1.47e-02	-6.94e-02
## 286	2.08e-02	3.01e-02	-1.06e-02	-9.34e-03	2.34e-02	6.70e-03	5.91e-02
## 287	3.10e-03	-3.03e-03	-9.96e-03	2.22e-03	-7.26e-03	7.94e-03	3.57e-02
## 288	-1.48e-02	-7.42e-03	-2.19e-02	-1.14e-04	-2.81e-02	1.20e-03	-5.64e-02
## 289	-1.10e-02	-8.76e-03	7.00e-03	-1.91e-03	-1.46e-02	6.35e-03	-5.41e-02
## 290	-5.44e-03	-1.74e-03	2.03e-02	2.03e-02	1.72e-02	-2.01e-02	-7.16e-02
## 291	-1.34e-02	-2.19e-03	5.54e-03	-5.42e-03	-1.18e-02	7.24e-04	-4.78e-02
## 292	1.67e-03	1.13e-03	2.62e-03	4.21e-03	1.02e-03	-2.32e-03	1.26e-02
## 293	1.47e-02	6.94e-03	1.21e-02	1.35e-02	2.39e-02	-9.83e-03	4.85e-02
## 294	-2.33e-02	1.03e-02	-5.92e-03	3.79e-03	1.75e-02	-2.16e-02	9.39e-02
## 295	-2.19e-03	-6.43e-03	3.88e-03	4.06e-03	-7.71e-03	4.46e-03	1.74e-02
## 296	-2.47e-03	-4.67e-03	4.29e-03	3.29e-03	-1.07e-02	9.12e-03	2.16e-02
## 297	3.34e-03	2.22e-03	1.98e-03	1.68e-03	3.78e-03	1.89e-03	8.77e-03
## 298	-1.12e-02	-1.32e-02	-3.29e-03	1.18e-02	-3.00e-03	-7.08e-03	7.35e-02
## 299	-1.42e-02	-1.71e-02	-7.02e-03	6.18e-03	-1.79e-02	-1.65e-03	4.91e-02
## 300	-1.28e-02	-3.81e-03	1.44e-02	-1.62e-02	-2.73e-02	8.51e-03	-6.95e-02
## 301	-1.54e-02	1.33e-02	-8.67e-03	-1.92e-02	-9.90e-03	3.47e-03	5.05e-02
## 302	6.45e-03	-3.54e-03	9.31e-04	-1.34e-03	-3.75e-03	8.57e-03	-2.56e-02
## 303	-2.38e-02	-5.08e-03	-1.20e-02	3.54e-03	2.85e-02	-3.05e-02	8.77e-02
## 304	1.46e-04	-1.41e-04	-4.42e-04	-1.25e-05	-2.00e-04	2.39e-04	-1.64e-03
## 305	1.44e-02	-8.53e-03	-7.19e-03	2.08e-02	1.55e-02	2.21e-04	6.16e-02
## 306	6.37e-06	-1.63e-04	-1.20e-04	-3.49e-04	-6.48e-05	2.75e-04	-8.46e-04
## 307	-1.55e-02	2.44e-03	6.26e-03	-8.24e-03	-1.04e-02	-1.66e-03	-5.64e-02
## 308	-3.88e-03	9.17e-03	5.49e-03	7.54e-03	2.20e-03	-3.32e-03	2.52e-02
## 309	-1.33e-02	-1.44e-02	3.27e-02	8.77e-03	5.61e-03	-4.67e-03	7.57e-02
## 310	-6.71e-03	-1.66e-03	-5.09e-03	-1.66e-03	-7.33e-03	-1.23e-03	2.65e-02
## 311	-3.28e-03	-4.55e-03	-1.00e-02	-1.68e-02	-1.73e-02	1.24e-02	3.09e-02
## 312	-1.99e-02	-1.26e-02	-9.35e-03	5.36e-03	1.72e-02	-1.31e-02	6.20e-02
## 313	-7.11e-04	9.58e-03	8.62e-03	-1.56e-03	6.01e-03	-2.48e-03	2.51e-02
## 314	1.94e-02	1.46e-02	-1.13e-02	3.17e-03	2.21e-02	1.46e-03	7.91e-02
## 315	-1.89e-02	-5.40e-03	5.90e-03	-9.11e-04	-1.65e-02	6.25e-03	-4.19e-02
## 316	-2.24e-03	-1.99e-03	7.75e-03	-1.35e-03	2.51e-03	1.91e-03	2.05e-02
## 317	1.39e-04	-4.31e-04	2.39e-03	7.40e-05	-8.87e-04	3.47e-03	-7.08e-03
## 318	4.20e-02	1.36e-02	-3.84e-02	1.38e-02	1.25e-02	1.95e-02	-1.34e-01
## 319	9.26e-03	5.76e-03	4.16e-03	-5.56e-03	-3.01e-03	8.89e-03	-5.49e-02

## 320	2.67e-02	-1.46e-02	-4.91e-03	-5.97e-03	8.97e-03	-2.96e-04	6.43e-02
## 321	4.51e-02	1.91e-02	-4.65e-02	3.69e-02	5.01e-02	1.07e-02	-1.61e-01
## 322	-4.38e-04	4.55e-04	-8.98e-04	1.14e-03	3.19e-04	-8.54e-04	4.87e-03
## 323	3.35e-03	5.70e-03	-1.31e-02	-1.56e-03	-1.09e-02	1.44e-02	4.31e-02
## 324	2.62e-03	8.51e-03	5.17e-03	6.90e-03	1.83e-03	3.32e-03	2.74e-02
## 325	1.64e-04	-1.47e-04	1.86e-04	2.01e-04	-2.49e-05	1.35e-04	-1.04e-03
## 326	-7.62e-03	-1.92e-02	-2.01e-03	-1.96e-03	-4.00e-03	9.29e-04	4.57e-02
## 327	3.01e-02	-2.81e-03	-7.67e-03	5.28e-03	1.67e-02	-1.49e-02	9.29e-02
## 328	-1.09e-02	-1.00e-02	6.25e-03	-8.62e-04	-1.39e-02	-3.22e-04	-4.12e-02
## 329	1.75e-02	-8.57e-03	-9.00e-03	4.98e-03	-7.56e-03	5.87e-03	7.70e-02
## 330	2.46e-02	3.95e-03	-8.65e-03	-1.22e-02	1.50e-02	-5.85e-03	8.39e-02
## 331	4.53e-05	2.12e-03	-2.38e-03	1.81e-03	-2.71e-04	-1.34e-04	5.17e-03
## 332	-1.16e-03	5.63e-03	-9.36e-03	4.41e-03	-8.86e-03	7.39e-03	2.08e-02
## 333	2.32e-02	8.00e-03	-5.44e-03	-3.25e-03	4.83e-03	3.06e-03	4.41e-02
## 334	-1.14e-02	-6.30e-03	7.28e-03	-2.26e-03	-1.40e-02	2.44e-03	-3.82e-02
## 335	-1.47e-02	-3.93e-03	-1.93e-02	-1.44e-02	-2.21e-02	1.23e-02	-5.52e-02
## 336	5.15e-02	3.62e-02	2.85e-02	3.17e-02	4.43e-02	-9.13e-03	-1.56e-01
## 337	1.96e-03	-5.48e-02	1.17e-02	-1.50e-02	-1.07e-02	-1.02e-02	-9.14e-02
## 338	2.15e-03	-1.61e-03	2.64e-03	-2.67e-03	4.23e-03	-1.00e-03	-1.05e-02
## 339	-1.19e-02	-1.08e-02	-3.61e-03	-7.31e-03	4.28e-03	1.27e-03	5.60e-02
## 340	1.02e-02	4.13e-02	5.56e-03	-1.99e-02	2.14e-02	-2.47e-02	-9.64e-02
## 341	1.40e-03	-6.73e-03	7.84e-03	-8.56e-03	-4.08e-03	-3.28e-04	2.84e-02
## 342	4.61e-03	-1.15e-03	-6.20e-03	-3.11e-04	7.84e-03	-1.83e-03	-2.06e-02
## 343	4.30e-04	-2.23e-03	-7.93e-04	-8.48e-04	-1.05e-03	-1.90e-04	4.48e-03
## 344	1.53e-04	8.91e-04	-4.70e-04	-1.11e-03	-2.78e-04	1.25e-03	-2.87e-03
## 345	-4.30e-04	-9.41e-04	-2.66e-03	-1.11e-03	-1.10e-03	-7.41e-04	6.70e-03
## 346	1.78e-02	1.96e-02	-1.13e-02	2.35e-03	1.52e-02	-4.36e-03	8.18e-02
## 347	8.85e-03	-3.66e-03	3.39e-03	-1.04e-03	-1.19e-02	1.13e-02	-3.37e-02
## 348	2.11e-04	-2.25e-04	-2.12e-03	3.30e-03	-2.56e-03	6.97e-03	-1.43e-02
## 349	-1.92e-02	-8.37e-03	-9.19e-03	3.57e-03	-1.07e-02	3.38e-03	6.83e-02
## 350	-2.79e-03	-4.78e-04	5.43e-03	-3.66e-03	1.18e-03	4.39e-03	1.82e-02
## 351	1.07e-03	1.97e-03	-1.78e-03	-3.95e-04	-1.10e-04	-5.08e-04	5.77e-03
## 352	3.96e-03	9.85e-03	7.18e-03	8.17e-03	3.36e-03	5.29e-03	3.19e-02
## 353	-2.34e-02	9.19e-03	-5.88e-03	4.20e-03	1.79e-02	-2.31e-02	9.37e-02
## 354	-1.34e-02	-2.16e-03	8.69e-03	2.47e-02	-1.47e-02	1.68e-02	-7.12e-02
## 355	-2.07e-02	6.76e-03	1.36e-02	-4.24e-03	1.20e-02	-3.53e-03	-9.93e-02
## 356	2.00e-02	-2.94e-03	6.48e-03	2.41e-02	-1.48e-02	2.47e-03	-5.25e-02
## 357	7.60e-04	-2.09e-03	-1.14e-02	3.04e-03	-1.70e-02	2.31e-03	5.75e-02
## 358	-2.72e-05	8.63e-03	-2.58e-03	4.91e-03	1.37e-03	7.75e-03	2.40e-02
## 359	-1.12e-02	1.66e-02	-2.92e-02	1.61e-02	1.16e-03	-6.20e-03	-1.20e-01
## 360	-6.53e-03	2.61e-03	1.54e-02	5.91e-03	9.30e-03	6.56e-04	4.33e-02
## 361	-2.09e-03	-5.61e-03	3.30e-03	2.98e-03	-7.52e-03	6.44e-03	1.98e-02
## 362	-2.42e-03	1.92e-02	-4.86e-03	-1.13e-02	1.00e-02	2.90e-04	4.11e-02
## 363	1.52e-03	-5.19e-04	2.04e-03	-2.50e-04	6.45e-04	-4.09e-04	8.48e-03
## 364	1.93e-05	1.62e-03	-2.06e-03	1.92e-03	1.29e-04	-1.12e-03	4.94e-03
## 365	1.60e-02	-5.56e-03	-8.80e-03	-2.42e-02	2.05e-02	-1.54e-03	5.96e-02
## 366	8.94e-03	1.66e-03	-2.21e-02	2.29e-02	-1.78e-02	1.84e-02	-5.73e-02
## 367	-2.13e-02	-7.61e-03	-8.70e-03	-1.55e-02	-9.74e-03	4.27e-04	4.51e-02
## 368	-2.51e-03	-4.77e-03	4.21e-03	3.39e-03	-1.11e-02	9.34e-03	2.15e-02
## 369	-5.50e-04	-1.96e-03	-3.03e-03	3.13e-05	-3.32e-03	1.31e-02	3.16e-02

## 370	-7.79e-05	-6.85e-04	7.74e-04	-2.11e-05	3.73e-04	-1.73e-03	-3.85e-03
## 371	-2.42e-04	-5.09e-04	7.85e-04	1.61e-03	-3.46e-04	-2.91e-04	4.18e-03
## 372	-1.42e-02	-5.59e-03	3.86e-03	-1.01e-03	-1.08e-02	8.80e-03	-3.53e-02
## 373	3.57e-03	7.42e-03	2.29e-03	4.09e-03	5.22e-03	5.49e-04	1.81e-02
## 374	-4.65e-03	-1.83e-03	-3.65e-03	-4.80e-04	2.19e-03	3.46e-03	2.61e-02
## 375	-1.15e-02	-1.08e-02	-3.58e-03	-7.50e-03	5.77e-03	5.54e-04	5.65e-02
## 376	-4.99e-03	-1.53e-03	6.93e-03	-1.56e-03	-5.24e-03	-2.53e-03	1.98e-02
## 377	8.71e-03	5.39e-03	1.52e-02	9.55e-03	-2.16e-03	2.38e-02	5.79e-02
## 378	8.59e-03	1.70e-02	4.30e-03	2.18e-02	-4.04e-03	1.69e-02	-6.79e-02
## 379	1.75e-03	-1.40e-03	-2.48e-03	-1.93e-03	1.76e-03	5.84e-04	-8.38e-03
## 380	2.14e-02	1.59e-02	1.90e-02	5.14e-03	2.98e-02	-1.26e-02	6.49e-02
## 381	1.24e-02	3.13e-03	-5.60e-03	-9.47e-03	1.16e-02	-2.96e-03	3.68e-02
## 382	-3.95e-03	-6.03e-03	-2.56e-02	-1.85e-02	6.54e-03	-7.44e-03	-8.27e-02
## 383	3.68e-04	-2.40e-04	5.53e-04	5.36e-04	2.54e-04	3.69e-04	-3.17e-03
## 384	1.73e-02	-5.90e-03	3.97e-03	8.45e-03	-1.11e-02	1.57e-02	-4.51e-02
## 385	-2.16e-04	2.66e-02	-5.04e-03	-1.32e-02	6.72e-03	5.05e-03	4.75e-02
## 386	1.14e-02	2.51e-02	-2.12e-02	-1.97e-02	4.69e-02	-2.28e-02	-1.15e-01
## 387	-2.82e-02	2.37e-02	7.84e-03	-1.88e-02	1.15e-03	-1.19e-02	-9.59e-02
## 388	-6.55e-03	-1.09e-03	-4.68e-03	2.88e-03	3.98e-05	-4.61e-03	2.13e-02
## 389	-1.55e-02	-1.47e-02	-6.86e-03	2.37e-02	5.56e-03	3.90e-03	6.29e-02
## 390	2.62e-03	6.08e-04	1.13e-02	-2.03e-03	-3.99e-03	1.20e-02	4.10e-02
## 391	-1.57e-02	-7.95e-03	-3.52e-03	-2.96e-02	5.34e-03	-2.98e-03	6.96e-02
## 392	-1.81e-02	-1.57e-02	-5.41e-03	-1.79e-02	-2.71e-02	-1.32e-02	6.52e-02
## 393	3.13e-03	8.37e-03	-1.28e-02	-8.36e-04	-1.78e-02	1.69e-02	5.99e-02
## 394	-1.97e-03	-7.04e-03	3.58e-03	4.23e-03	-5.90e-03	2.06e-03	1.55e-02
## 395	-1.32e-02	-1.29e-02	-1.63e-03	1.23e-02	-4.16e-03	6.12e-03	7.07e-02
## 396	1.59e-03	-1.40e-03	1.92e-03	-2.93e-05	3.02e-03	-5.97e-04	-7.58e-03
## 397	-9.62e-03	-2.06e-02	-4.77e-03	-2.02e-02	-5.67e-03	-1.14e-02	7.28e-02
## 398	-1.97e-02	9.85e-03	1.11e-02	1.00e-02	-2.18e-02	-1.36e-03	-7.30e-02
## 399	-1.31e-02	-1.84e-02	-7.30e-03	5.66e-03	-1.36e-02	-7.40e-03	6.81e-02
## 400	-4.05e-04	-2.54e-06	1.32e-03	2.44e-03	-1.26e-03	7.35e-04	7.30e-03
## 401	-3.45e-04	-3.05e-04	9.89e-04	-2.56e-03	-9.99e-04	3.91e-05	4.65e-03
## 402	-6.61e-04	2.31e-03	2.18e-03	-4.29e-03	-4.20e-03	4.28e-03	1.16e-02
## 403	6.67e-03	5.27e-02	7.10e-03	2.21e-03	1.97e-02	-4.46e-02	-1.17e-01
## 404	-2.61e-03	4.33e-03	-4.02e-03	3.62e-03	-1.49e-03	8.66e-04	-1.79e-02
## 405	5.94e-05	7.76e-03	-5.76e-03	3.24e-03	-2.31e-03	2.28e-03	1.31e-02
## 406	1.51e-04	-4.47e-04	2.81e-03	7.20e-05	-9.67e-04	3.94e-03	-8.31e-03
## 407	1.31e-02	-1.13e-03	-4.08e-03	-6.57e-03	1.60e-03	6.86e-03	2.75e-02
## 408	-1.59e-02	-1.06e-02	-4.44e-03	2.52e-02	7.94e-03	-1.08e-02	8.23e-02
## 409	1.00e-02	1.42e-02	3.64e-02	-1.49e-02	5.25e-02	-3.75e-02	-9.12e-02
## 410	1.07e-02	1.42e-02	3.72e-02	-1.41e-02	5.34e-02	-3.74e-02	-9.22e-02
## 411	-7.97e-03	-9.17e-03	4.20e-03	-1.62e-03	-1.03e-02	9.93e-03	-4.33e-02
## 412	-1.09e-03	-1.98e-03	-4.69e-03	-4.91e-03	-3.96e-03	-3.04e-03	1.43e-02
## 413	1.79e-02	-4.22e-03	-8.63e-03	8.61e-03	1.68e-02	2.37e-03	5.81e-02
## 414	1.04e-02	-1.38e-02	-4.67e-03	6.21e-03	2.76e-03	-1.05e-03	3.70e-02
## 415	1.48e-02	-9.68e-03	-4.99e-03	-1.57e-02	8.35e-03	1.19e-02	5.72e-02
## 416	1.14e-02	-3.72e-03	1.99e-02	-2.27e-02	2.02e-02	-1.93e-03	5.68e-02
## 417	-9.40e-04	2.37e-03	-1.33e-03	-1.73e-03	5.38e-04	2.48e-03	8.97e-03
## 418	-2.59e-05	3.59e-03	-4.19e-03	3.74e-03	-1.15e-03	-1.18e-03	1.04e-02
## 419	2.87e-02	1.10e-02	-3.05e-02	-6.15e-03	-2.71e-02	9.85e-03	-8.44e-02

## 420	-1.31e-02	-7.52e-03	6.75e-03	2.25e-02	-1.18e-02	4.44e-03	-5.58e-02
## 421	-4.04e-03	-7.89e-03	-1.24e-02	6.61e-03	-1.95e-02	9.07e-03	3.85e-02
## 422	1.75e-02	8.11e-03	-1.10e-02	-3.34e-02	2.31e-02	4.52e-03	6.20e-02
## 423	-1.06e-02	4.46e-03	1.62e-02	-5.06e-03	1.66e-02	-1.13e-02	5.54e-02
## 424	-4.54e-04	-1.53e-03	1.42e-03	2.90e-03	-6.88e-04	-1.85e-03	7.49e-03
## 425	5.09e-03	-4.29e-03	9.73e-03	-1.68e-02	-2.43e-03	1.23e-03	4.63e-02
## 426	2.70e-03	-1.14e-02	1.18e-02	-8.51e-03	-5.65e-03	9.54e-04	3.84e-02
## 427	-4.29e-03	7.21e-03	-2.80e-03	-1.45e-02	-6.32e-03	6.85e-03	4.80e-02
## 428	-2.85e-02	-1.54e-03	3.29e-02	4.65e-03	3.06e-02	-1.32e-02	8.52e-02
## 429	1.77e-02	2.51e-03	-9.13e-03	-3.01e-02	1.73e-02	2.58e-03	6.23e-02
## 430	-1.54e-03	3.08e-03	-2.98e-03	2.47e-03	4.47e-04	7.74e-04	-1.25e-02
## 431	1.54e-02	9.84e-02	4.16e-02	-5.36e-02	1.26e-02	6.04e-02	-1.64e-01
## 432	9.54e-04	-4.15e-04	1.91e-03	-2.29e-04	-1.96e-05	1.17e-03	-8.11e-03
## 433	2.57e-03	-2.84e-03	8.34e-03	-7.32e-04	-4.57e-03	3.71e-04	3.67e-02
## 434	-5.63e-03	2.81e-06	1.99e-02	4.12e-02	1.80e-02	-2.03e-02	-8.10e-02
## 435	4.28e-08	1.69e-03	-1.90e-03	4.81e-04	-3.27e-04	-4.43e-04	4.34e-03
## 436	1.57e-02	-1.35e-02	-8.28e-03	-6.87e-03	-6.15e-03	-1.53e-03	5.34e-02
## 437	-2.65e-04	-4.51e-04	8.72e-04	-2.12e-03	-6.63e-04	-3.33e-04	4.42e-03
## 438	-1.97e-04	-9.16e-04	9.28e-04	3.11e-06	5.79e-04	-2.64e-03	-4.98e-03
## 439	-1.80e-02	-1.51e-02	-5.55e-03	-1.94e-02	6.57e-03	-1.57e-04	6.48e-02
## 440	5.33e-03	-4.48e-03	1.03e-02	9.04e-03	-2.11e-03	-7.02e-04	4.12e-02
## 441	-1.13e-02	-2.04e-02	-8.92e-03	8.34e-03	1.78e-02	-3.66e-02	8.91e-02
## 442	-9.05e-03	-1.65e-02	2.49e-02	-4.30e-03	-1.52e-03	9.36e-03	6.32e-02
## 443	-1.65e-03	-2.48e-03	-3.92e-03	1.28e-02	-6.98e-05	-3.09e-05	2.72e-02
## 444	-2.34e-02	-9.16e-03	1.22e-02	2.13e-03	-6.50e-03	-2.69e-03	5.04e-02
## 445	-1.67e-02	-1.10e-02	2.24e-02	6.76e-03	1.80e-02	4.10e-03	5.90e-02
## 446	8.54e-03	3.54e-02	4.19e-03	-1.81e-02	1.51e-02	-2.17e-02	-9.02e-02
## 447	-1.45e-02	-7.65e-03	-2.15e-02	-1.43e-02	-2.87e-02	1.30e-03	-4.90e-02
## 448	-4.75e-05	6.83e-04	-1.20e-03	-1.01e-03	-2.96e-04	-7.38e-04	3.14e-03
## 449	-1.52e-02	-5.24e-03	-1.02e-02	4.47e-03	2.37e-02	-2.91e-02	8.74e-02
## 450	6.70e-05	-2.17e-03	-4.53e-03	3.35e-03	-2.52e-03	-5.68e-03	-1.60e-02
## 451	-1.71e-04	-8.90e-04	5.31e-04	1.16e-03	-4.74e-05	-1.20e-03	2.98e-03
## 452	-1.95e-02	-1.19e-02	-9.15e-03	1.31e-02	-1.07e-02	-8.43e-03	5.17e-02
## 453	-5.69e-03	-1.53e-02	-3.07e-03	-6.39e-03	-5.49e-03	-5.68e-03	3.17e-02
## 454	2.22e-02	9.19e-03	8.96e-03	-7.54e-03	-2.16e-02	-9.30e-04	-6.87e-02
## 455	7.40e-06	-1.20e-04	-1.42e-04	-3.99e-04	-7.95e-05	3.89e-04	-9.61e-04
## 456	-1.49e-02	-1.03e-02	-5.10e-03	8.99e-03	4.45e-03	-2.47e-02	7.17e-02
## 457	1.64e-02	2.64e-03	1.17e-02	-1.23e-02	1.16e-02	-4.41e-03	3.96e-02
## 458	-2.95e-03	5.77e-03	4.07e-03	-5.01e-03	-3.01e-05	-2.36e-03	1.68e-02
## 459	-2.38e-03	-5.04e-03	4.22e-03	3.64e-03	-1.07e-02	8.55e-03	2.48e-02
## 460	1.94e-02	1.60e-02	-1.28e-02	1.64e-03	2.73e-02	-7.82e-03	6.86e-02
## 461	-2.09e-03	-5.63e-03	3.14e-03	2.93e-03	-7.28e-03	5.96e-03	1.89e-02
## 462	-2.03e-02	-8.84e-03	-6.61e-03	-1.93e-02	-1.73e-02	-4.46e-03	5.77e-02
## 463	7.93e-03	2.51e-03	-1.85e-02	-2.11e-03	-1.53e-02	2.08e-02	-5.05e-02
## 464	1.06e-02	-2.40e-03	2.31e-03	-2.11e-03	-7.84e-03	1.80e-02	-3.98e-02
## 465	2.32e-04	1.74e-03	-8.07e-04	-1.43e-03	-1.28e-03	3.13e-03	6.92e-03
## 466	-4.15e-03	3.38e-03	-3.42e-03	6.91e-03	4.60e-03	-3.58e-03	2.00e-02
## 467	8.31e-04	7.20e-03	8.90e-03	5.05e-03	1.07e-03	7.04e-03	2.63e-02
## 468	1.18e-02	-5.32e-04	-2.60e-03	5.45e-03	1.71e-03	8.77e-03	2.62e-02
## 469	-1.62e-05	-1.06e-03	-4.74e-04	-1.44e-03	-5.16e-04	7.22e-04	-4.02e-03

## 470	4.58e-02	1.12e-02	-2.77e-02	-2.48e-03	7.42e-03	-8.62e-03	-9.43e-02
## 471	-1.08e-03	3.50e-03	3.85e-03	4.86e-03	-5.99e-03	3.70e-03	2.16e-02
## 472	3.97e-02	-5.22e-03	1.57e-02	1.45e-03	1.69e-02	-8.70e-03	-6.87e-02
## 473	-2.24e-02	-5.88e-03	-1.21e-02	1.79e-02	-1.70e-02	-1.13e-02	7.32e-02
## 474	1.22e-03	-6.09e-03	4.41e-03	5.65e-03	-4.89e-04	-1.24e-03	1.97e-02
## 475	-1.23e-02	-6.96e-03	9.91e-03	-1.42e-03	-2.31e-02	8.64e-03	-5.89e-02
## 476	-1.46e-02	7.14e-04	8.08e-03	-6.44e-03	-1.69e-02	7.82e-03	-5.57e-02
## 477	-1.41e-02	-1.37e-02	-4.94e-03	4.49e-03	-1.35e-02	-3.98e-03	4.93e-02
## 478	8.17e-03	-1.00e-02	-9.28e-03	1.80e-03	-6.17e-03	-1.42e-02	4.66e-02
## 479	9.95e-03	2.18e-03	4.57e-03	-1.94e-03	-1.70e-02	1.97e-02	-5.03e-02
## 480	-1.85e-02	4.02e-03	-2.80e-02	3.39e-02	-3.26e-02	-5.30e-03	-8.08e-02
## 481	1.08e-04	4.03e-03	5.80e-04	1.38e-03	-7.78e-04	2.07e-03	7.03e-03
## 482	4.33e-02	4.75e-02	2.18e-02	3.08e-02	1.02e-02	1.77e-02	-1.39e-01
## 483	-2.78e-02	2.76e-03	-7.30e-03	6.60e-03	1.79e-02	-8.32e-04	7.94e-02
## 484	-2.31e-05	-2.38e-03	-1.14e-03	-3.09e-03	-3.29e-03	6.50e-03	1.36e-02
## 485	-2.06e-02	-1.22e-03	7.28e-03	-2.69e-03	-1.78e-02	1.31e-02	-6.16e-02
## 486	-3.55e-03	8.86e-03	-3.69e-03	2.90e-04	5.27e-03	9.32e-03	2.69e-02
## 487	-2.24e-02	-2.23e-04	-4.48e-03	7.58e-03	1.50e-02	-3.34e-02	8.43e-02
## 488	2.82e-04	-3.88e-04	3.58e-04	4.43e-04	6.36e-04	-2.87e-04	-2.06e-03
## 489	-1.08e-02	-6.76e-03	8.10e-03	-6.00e-04	-1.65e-02	3.55e-03	-4.77e-02
## 490	2.03e-04	1.01e-02	-3.23e-03	-6.29e-03	4.12e-04	8.69e-03	2.52e-02
## 491	9.76e-03	3.22e-03	-1.09e-02	-4.13e-04	-1.51e-02	-9.06e-04	5.97e-02
## 492	-1.28e-02	-5.44e-03	1.25e-02	-1.91e-03	-2.34e-02	8.46e-03	-6.38e-02
## 493	-8.92e-03	-1.66e-04	6.85e-03	-4.80e-03	-4.78e-03	1.78e-04	2.35e-02
## 494	-2.46e-03	-4.68e-03	4.33e-03	3.32e-03	-1.07e-02	9.14e-03	2.17e-02
## 495	3.60e-02	-2.58e-02	2.09e-02	3.77e-02	8.69e-03	2.23e-03	-1.17e-01
## 496	8.50e-04	-4.91e-03	3.64e-03	4.58e-03	-2.51e-04	-2.32e-03	1.55e-02
## 497	1.46e-04	-2.85e-04	-2.18e-03	3.40e-03	-2.51e-03	6.74e-03	-1.45e-02
## 498	-8.76e-03	-7.46e-03	-2.69e-02	2.23e-03	1.35e-02	-2.39e-02	-1.01e-01
## 499	2.40e-02	4.77e-03	8.40e-03	2.41e-02	-1.01e-02	2.79e-02	-7.84e-02
## 500	-4.10e-03	1.00e-03	1.55e-02	-3.94e-03	9.09e-03	-1.20e-02	4.14e-02
## 501	8.70e-03	1.03e-02	-3.97e-03	7.95e-04	5.71e-03	6.54e-03	2.73e-02
## 502	6.13e-04	3.15e-04	-4.00e-04	3.13e-04	1.47e-04	-7.39e-05	-1.64e-03
## 503	6.07e-03	-1.01e-02	-3.65e-03	-5.17e-03	4.00e-03	5.19e-04	2.32e-02
## 504	-7.00e-03	-2.14e-03	4.99e-03	-1.03e-04	3.82e-03	-2.64e-04	-2.06e-02
## 505	1.84e-02	1.41e-03	4.12e-03	-5.77e-03	-4.12e-03	1.64e-02	-5.69e-02
## 506	2.01e-02	-7.15e-04	-1.37e-02	2.23e-02	2.18e-02	-1.14e-02	8.36e-02
## 507	1.04e-02	1.75e-03	4.87e-03	-1.90e-03	-1.53e-02	2.03e-02	-5.50e-02
## 508	-1.53e-02	1.79e-03	9.34e-03	-3.63e-03	-2.19e-02	1.03e-02	-6.51e-02
## 509	-2.45e-03	-4.80e-03	4.39e-03	3.51e-03	-1.10e-02	9.43e-03	2.19e-02
## 510	-1.22e-02	6.08e-03	1.47e-02	-6.42e-03	1.94e-02	-1.38e-02	6.41e-02
## 511	-4.06e-03	-1.88e-02	-3.85e-03	8.09e-03	-4.17e-03	7.79e-03	4.51e-02
## 512	-9.13e-03	-7.73e-03	4.74e-03	-2.30e-03	-8.46e-03	2.82e-03	-4.02e-02
## 513	-5.58e-03	-1.74e-02	-1.20e-03	-1.15e-02	-5.27e-03	7.87e-03	4.31e-02
## 514	1.16e-02	-1.30e-02	-7.51e-03	-4.61e-03	8.15e-03	-1.26e-02	5.00e-02
## 515	9.19e-03	3.59e-02	-3.90e-02	2.91e-02	-5.60e-03	4.88e-03	-9.33e-02
## 516	1.43e-03	9.12e-04	2.34e-03	3.61e-03	1.17e-03	-3.94e-04	1.04e-02
## 517	1.87e-02	1.03e-02	3.10e-02	2.22e-03	2.96e-02	-7.45e-04	7.95e-02
## 518	-1.67e-02	6.09e-03	1.09e-02	2.74e-02	-1.70e-02	1.04e-03	-8.48e-02
## 519	-2.07e-03	-5.75e-03	3.56e-03	-5.94e-03	-7.63e-03	4.71e-03	1.60e-02

## 520	-8.86e-04	-1.57e-03	-2.96e-03	6.63e-03	-1.82e-03	9.74e-03	2.82e-02
## 521	3.76e-03	-4.64e-03	-9.31e-03	6.02e-03	-1.47e-02	3.56e-03	5.79e-02
## 522	-1.19e-02	-1.58e-02	1.74e-02	-1.22e-02	6.62e-03	9.58e-03	4.84e-02
## 523	-1.80e-02	3.89e-03	-2.90e-02	2.81e-02	-2.26e-02	-3.80e-03	-6.60e-02
## 524	8.19e-03	1.28e-02	4.61e-03	-8.55e-03	-9.56e-04	3.43e-03	-5.47e-02
## 525	1.34e-02	4.42e-04	8.40e-03	4.05e-03	8.63e-03	2.73e-03	2.90e-02
## 526	1.44e-04	9.13e-04	-5.74e-04	3.06e-05	-5.98e-04	1.90e-03	4.42e-03
## 527	1.30e-02	-8.87e-04	-3.08e-03	-8.30e-04	3.57e-03	4.24e-03	2.72e-02
## 528	-8.59e-06	-5.12e-04	-1.54e-04	-4.66e-04	-7.95e-05	8.22e-05	-1.26e-03
## 529	1.65e-02	1.29e-02	-3.33e-03	-7.13e-03	1.35e-03	6.17e-03	3.44e-02
## 530	1.18e-04	4.32e-03	-3.74e-03	-1.87e-03	-1.22e-03	1.30e-03	8.48e-03
## 531	1.81e-04	2.44e-04	-2.18e-03	3.44e-04	-3.97e-03	8.26e-03	-1.54e-02
## 532	3.24e-02	1.13e-02	-1.07e-02	7.16e-04	2.85e-02	-1.21e-02	7.38e-02
## 533	7.81e-04	-3.50e-03	-2.26e-03	-2.05e-04	-4.06e-03	1.37e-02	3.46e-02
## 534	1.46e-02	-5.44e-03	4.22e-03	-1.36e-03	-1.05e-02	8.74e-03	-3.46e-02
## 535	3.56e-02	-1.91e-04	-9.64e-03	5.71e-03	1.81e-02	-2.31e-02	8.34e-02
## 536	1.08e-02	-1.28e-02	-3.14e-03	-9.18e-03	4.21e-03	6.31e-03	4.03e-02
## 537	1.80e-03	1.34e-03	-4.59e-03	5.28e-03	-6.75e-04	-1.88e-03	1.58e-02
## 538	-1.72e-03	1.98e-04	-2.13e-03	-3.59e-04	4.77e-04	1.12e-02	3.00e-02
## 539	6.78e-04	-8.59e-04	9.19e-04	1.05e-03	8.63e-04	-3.70e-04	-4.29e-03
## 540	-1.32e-04	-8.21e-04	8.80e-04	1.15e-03	6.16e-04	-2.40e-03	-4.88e-03
## 541	-3.53e-02	-7.20e-04	-1.23e-02	1.80e-02	-1.82e-02	8.68e-04	6.70e-02
## 542	-2.48e-03	-4.79e-03	4.31e-03	3.46e-03	-1.10e-02	9.39e-03	2.17e-02
## 543	-1.75e-02	-3.33e-03	3.92e-03	2.03e-02	-1.02e-02	6.58e-03	-4.56e-02
## 544	-2.55e-02	1.72e-02	2.00e-02	2.00e-02	1.06e-02	-1.07e-03	-1.13e-01
## 545	-1.43e-02	1.25e-02	-8.41e-03	-1.81e-02	1.70e-02	5.59e-03	5.42e-02
## 546	-3.35e-02	1.71e-02	8.82e-03	-3.02e-02	-2.24e-02	3.20e-03	-8.89e-02
## 547	-1.80e-03	-1.68e-03	-1.69e-03	-6.62e-03	-1.79e-03	8.40e-03	2.68e-02
## 548	1.98e-02	5.43e-03	-4.53e-03	-1.13e-02	-1.38e-03	5.28e-03	4.49e-02
## 549	-2.09e-03	-6.43e-03	3.52e-03	3.81e-03	-6.72e-03	3.31e-03	1.58e-02
## 550	6.91e-05	1.77e-03	-1.01e-03	-1.45e-03	-4.55e-04	2.98e-03	6.52e-03
## 551	-9.73e-05	-4.04e-04	3.83e-04	5.14e-04	1.58e-04	-1.03e-03	-2.21e-03
## 552	1.42e-04	-1.58e-03	-1.64e-03	4.23e-03	-1.29e-03	3.27e-03	-1.10e-02
## 553	-4.26e-05	8.26e-03	-6.59e-03	-3.28e-03	-3.71e-03	1.60e-03	1.74e-02
## 554	-1.73e-02	6.23e-03	8.09e-03	2.72e-02	-1.32e-02	1.27e-04	-6.87e-02
## 555	-5.10e-03	-1.54e-03	-2.98e-03	-3.06e-03	-3.08e-03	-1.47e-04	1.35e-02
## 556	-2.38e-03	-4.54e-03	4.24e-03	-1.35e-02	-1.12e-02	9.50e-03	2.33e-02
## 557	1.76e-03	-1.10e-04	1.79e-03	2.35e-03	8.34e-05	-1.12e-03	7.26e-03
## 558	1.66e-02	2.89e-03	2.43e-02	1.57e-03	3.06e-02	5.96e-04	5.20e-02
## 559	3.51e-03	-7.85e-04	-1.15e-02	-8.23e-04	-7.90e-03	6.50e-03	4.09e-02
## 560	-2.24e-03	9.22e-04	-2.84e-03	7.43e-03	1.33e-03	7.60e-03	3.63e-02
## 561	-4.63e-03	-6.13e-03	-1.32e-02	6.60e-03	-2.32e-02	1.04e-02	4.35e-02
## 562	-1.98e-02	-8.22e-03	1.45e-02	-1.10e-02	-7.64e-03	-5.35e-03	5.48e-02
## 563	7.73e-04	1.48e-02	-5.04e-03	-9.11e-04	3.75e-03	1.11e-02	3.47e-02
## 564	1.04e-02	-8.53e-03	1.26e-02	-1.88e-02	-6.87e-03	-3.90e-03	4.76e-02
## 565	5.81e-03	-1.44e-03	5.84e-03	-4.35e-04	3.08e-04	-1.44e-04	-2.04e-02
## 566	-7.40e-03	9.31e-03	1.87e-02	3.76e-03	2.82e-02	-1.67e-02	6.51e-02
## 567	-7.24e-03	-2.99e-03	-5.79e-03	-1.90e-04	2.61e-03	-8.38e-04	-2.34e-02
## 568	8.12e-03	1.31e-02	4.24e-03	-8.64e-03	-1.67e-03	3.12e-03	-5.25e-02
## 569	9.12e-03	1.14e-02	-9.91e-03	-7.44e-03	-1.07e-04	1.29e-03	4.67e-02

## 570	8.25e-05	-6.21e-04	2.06e-03	2.44e-04	-4.30e-04	1.99e-03	-4.96e-03
## 571	1.49e-03	4.12e-03	2.58e-03	-2.63e-03	-1.47e-04	-3.25e-04	1.16e-02
## 572	-1.39e-02	6.76e-03	9.05e-03	-6.59e-03	-7.20e-04	-2.86e-03	3.70e-02
## 573	1.00e-02	-7.53e-03	-4.43e-02	5.35e-03	-9.14e-03	-2.21e-02	-1.00e-01
## 574	-1.11e-02	-1.67e-02	-2.64e-03	1.09e-02	-2.28e-03	-2.24e-02	8.04e-02
## 575	7.86e-04	-8.22e-04	8.22e-04	-1.52e-03	2.99e-04	2.61e-04	-3.84e-03
## 576	2.33e-02	6.91e-03	1.63e-02	-1.62e-02	1.64e-02	-3.23e-03	5.49e-02
## 577	1.83e-02	7.96e-03	-1.21e-02	2.23e-03	2.83e-02	1.00e-05	5.34e-02
## 578	-2.47e-02	-9.30e-03	-6.21e-03	9.00e-03	1.07e-03	-7.30e-03	7.04e-02
## 579	-3.31e-03	-4.70e-03	-1.15e-02	4.51e-03	-1.63e-02	1.11e-02	2.83e-02
## 580	1.17e-02	4.01e-02	-1.86e-02	-2.20e-02	3.96e-02	-2.56e-02	-1.02e-01
## 581	-1.43e-02	-4.42e-03	-2.16e-02	-1.64e-02	-3.45e-02	1.10e-02	-6.55e-02
## 582	-1.39e-02	-3.76e-03	2.98e-03	-1.95e-03	-5.19e-03	1.11e-02	-3.94e-02
## 583	-2.93e-03	-5.61e-03	-1.09e-02	4.38e-03	-1.48e-02	1.11e-02	2.91e-02
## 584	-3.17e-03	-5.11e-03	-1.15e-02	5.02e-03	-1.62e-02	1.10e-02	2.84e-02
## 585	-1.09e-02	-6.06e-03	2.03e-03	-1.10e-03	-6.10e-03	6.86e-03	-3.12e-02
## 586	8.47e-04	1.32e-03	-8.11e-04	-1.92e-04	-1.90e-04	-5.56e-05	3.55e-03
## 587	-5.86e-04	2.78e-03	1.82e-03	2.50e-03	-3.91e-03	5.18e-03	1.37e-02
## 588	-9.09e-04	2.27e-03	-1.31e-03	1.61e-03	2.22e-04	2.63e-03	7.52e-03
## 589	3.84e-03	-1.15e-03	-6.31e-03	-5.52e-03	6.39e-03	-4.13e-03	-2.13e-02
## 590	4.92e-04	1.45e-03	-1.06e-03	7.41e-05	-1.61e-04	3.15e-03	6.76e-03
## 591	-3.53e-04	-1.18e-03	9.72e-04	6.32e-04	-6.23e-04	-1.22e-03	4.74e-03
## 592	1.90e-03	-1.73e-03	-2.28e-03	2.26e-04	2.18e-03	-7.84e-04	-8.68e-03
## 593	1.11e-02	-8.98e-03	-8.53e-03	-5.66e-03	1.17e-02	-9.37e-03	4.86e-02
## 594	3.69e-03	3.42e-03	1.35e-02	9.79e-03	-3.49e-03	1.16e-02	4.08e-02
## 595	-6.98e-03	2.32e-02	2.77e-02	-2.93e-02	2.45e-02	1.93e-02	-1.15e-01
## 596	9.09e-03	1.25e-02	4.63e-03	6.30e-03	4.31e-03	-4.30e-03	3.08e-02
## 597	-2.90e-02	-5.76e-03	1.80e-02	1.38e-02	-6.91e-03	-6.94e-03	6.38e-02
## 598	-1.20e-02	8.10e-03	-5.09e-03	-2.12e-03	6.39e-03	6.45e-03	4.44e-02
## 599	3.07e-05	-5.95e-04	1.78e-03	1.43e-04	-3.50e-04	1.92e-03	-4.79e-03
## 600	1.58e-02	-4.92e-03	-9.69e-03	-1.08e-02	2.15e-02	-3.51e-03	5.61e-02
## 601	-7.83e-04	4.97e-03	2.47e-03	2.71e-03	-5.85e-03	7.29e-03	1.65e-02
## 602	1.03e-02	5.30e-04	-4.41e-03	-6.84e-03	7.85e-03	7.79e-03	3.12e-02
## 603	-2.71e-04	1.28e-02	1.13e-02	5.15e-03	7.39e-03	-1.06e-03	3.12e-02
## 604	-4.63e-03	3.45e-03	-6.98e-03	-1.64e-02	5.19e-03	-7.77e-03	5.00e-02
## 605	1.98e-03	-9.90e-04	-3.89e-03	-2.26e-04	2.75e-03	-1.51e-03	-1.35e-02
## 606	-6.30e-04	9.36e-04	7.59e-04	-3.27e-04	6.04e-05	-3.25e-04	3.31e-03
## 607	-1.05e-06	8.84e-07	-1.82e-06	5.60e-07	-1.02e-06	3.55e-07	-8.23e-06
## 608	-4.36e-04	-1.47e-03	-3.95e-03	2.79e-03	7.56e-05	-5.31e-03	-1.16e-02
## 609	1.04e-02	5.20e-02	-4.78e-02	2.67e-02	2.09e-02	-3.27e-02	-1.29e-01
## 610	-1.05e-02	-9.79e-04	1.99e-02	1.93e-04	8.43e-03	-2.00e-02	-9.81e-02
## 611	-9.75e-03	3.37e-02	-2.56e-02	-3.16e-02	2.82e-03	2.91e-02	-1.33e-01
## 612	2.72e-05	-5.33e-04	-1.58e-03	-5.36e-03	-3.43e-03	5.94e-03	-1.43e-02
## 613	-6.26e-03	7.63e-03	-4.90e-03	-3.27e-03	-3.75e-03	-8.44e-04	5.16e-02
## 614	-2.08e-03	2.00e-03	1.70e-03	-1.83e-03	-2.89e-04	-6.13e-05	7.42e-03
## 615	2.81e-03	-2.91e-03	1.48e-02	1.34e-02	-6.16e-03	4.14e-03	4.59e-02
## 616	8.25e-03	3.80e-03	-1.25e-02	-1.43e-02	-7.62e-03	2.19e-02	5.78e-02
## 617	-3.70e-04	-2.67e-03	-2.36e-03	-3.97e-04	-6.57e-03	1.32e-02	3.56e-02
## 618	5.07e-03	-1.01e-02	-3.00e-03	-5.66e-03	1.46e-03	3.09e-04	2.41e-02
## 619	1.43e-02	8.59e-03	-9.46e-03	-3.36e-02	1.71e-02	-1.26e-02	7.65e-02

## 620	-2.98e-02	4.36e-04	-1.13e-02	-3.03e-02	-1.72e-02	1.92e-02	8.91e-02
## 621	8.20e-03	5.79e-04	-3.94e-03	4.92e-03	3.78e-03	3.50e-03	2.31e-02
## 622	2.52e-02	7.53e-03	-8.02e-03	6.91e-03	1.55e-02	2.57e-03	4.92e-02
## 623	9.25e-05	3.89e-03	7.88e-04	1.75e-03	-5.62e-04	1.21e-03	6.51e-03
## 624	1.20e-02	2.91e-02	-2.15e-02	6.37e-02	5.08e-02	-3.73e-02	-1.10e-01
## 625	-1.10e-02	-1.45e-02	-5.73e-03	7.42e-03	1.44e-02	-1.01e-02	7.05e-02
## 626	1.61e-02	-6.69e-03	2.30e-02	6.04e-03	1.71e-02	-1.16e-02	6.52e-02
## 627	-1.46e-03	-3.96e-04	1.54e-02	-3.30e-04	-3.49e-03	1.03e-02	3.44e-02
## 628	9.19e-04	3.92e-03	5.64e-03	3.20e-03	-2.46e-06	5.76e-03	1.63e-02
## 629	2.83e-02	2.05e-02	-4.00e-02	6.10e-03	-2.22e-03	-1.14e-02	-9.55e-02
## 630	1.06e-02	3.17e-02	3.05e-03	2.49e-02	1.04e-02	5.84e-03	-9.33e-02
## 631	1.03e-03	-7.95e-03	6.00e-03	-6.10e-03	-2.71e-03	-7.10e-04	2.22e-02
## 632	4.29e-03	-7.22e-04	-6.72e-03	-1.09e-04	6.86e-03	-3.50e-03	-2.13e-02
## 633	-7.10e-04	3.08e-03	2.31e-03	3.02e-03	-4.03e-03	4.26e-03	1.30e-02
## 634	-6.91e-03	-7.19e-04	-5.72e-03	-9.47e-03	-1.97e-03	-2.23e-03	3.35e-02
## 635	8.00e-03	4.75e-02	5.94e-03	-2.14e-02	1.91e-02	-3.42e-02	-1.08e-01
## 636	-1.65e-04	2.05e-02	1.39e-02	-1.40e-02	1.63e-02	-2.61e-03	4.60e-02
## 637	-5.84e-03	-3.32e-03	-5.20e-03	-6.26e-04	2.64e-04	1.08e-03	-2.27e-02
## 638	7.69e-03	-7.80e-05	1.11e-02	2.67e-02	9.65e-03	-2.15e-02	-1.08e-01
## 639	1.67e-02	-3.08e-03	5.04e-03	-2.96e-03	-1.10e-02	7.72e-03	-4.42e-02
## 640	1.62e-04	-1.70e-04	-1.60e-03	2.56e-03	-1.10e-03	4.51e-03	-9.77e-03
## 641	-2.76e-02	4.15e-02	-3.71e-02	-1.39e-02	7.57e-03	-7.96e-03	-1.27e-01
## 642	9.43e-03	-3.97e-03	3.76e-03	-5.42e-04	-1.16e-02	1.17e-02	-3.44e-02
## 643	-1.06e-02	7.54e-03	-4.99e-03	-1.29e-02	5.20e-03	3.03e-03	5.17e-02
## 644	-3.52e-03	-9.96e-03	-1.05e-02	-3.27e-04	-1.55e-02	4.52e-03	3.15e-02
## 645	9.23e-03	-6.88e-05	1.53e-03	-3.95e-03	-1.73e-03	6.44e-03	-3.86e-02
## 646	-5.68e-03	-9.12e-03	1.95e-02	-1.68e-02	1.30e-02	-1.93e-02	-6.54e-02
## 647	6.42e-03	-2.08e-03	-4.01e-03	3.39e-03	-3.39e-03	-9.07e-04	1.99e-02
## 648	1.78e-02	-5.55e-03	-1.90e-02	-1.59e-03	-1.13e-02	1.56e-02	-5.10e-02
## 649	1.56e-02	-1.45e-03	2.53e-02	-1.08e-02	2.02e-02	5.95e-03	6.11e-02
## 650	-1.33e-02	-8.23e-03	8.83e-03	2.70e-02	-1.81e-02	-2.77e-03	-4.90e-02
## 651	-1.51e-02	-6.14e-03	9.88e-03	-1.42e-02	-2.02e-02	7.75e-03	-5.04e-02
## 652	-6.55e-06	-2.74e-04	-8.33e-05	-2.49e-04	-5.45e-05	5.63e-05	-6.69e-04
## 653	-3.00e-03	-8.94e-03	5.50e-03	5.99e-03	-1.10e-02	2.79e-03	2.51e-02
## 654	1.19e-02	2.22e-02	-2.19e-02	7.52e-03	5.15e-02	-3.10e-02	-1.08e-01
## 655	-1.65e-02	-7.58e-03	-7.15e-03	-1.50e-02	2.33e-02	-2.72e-02	8.14e-02
## 656	2.88e-03	-1.45e-03	3.71e-03	-7.06e-05	5.38e-03	-1.43e-03	-1.28e-02
## 657	-2.72e-03	-5.98e-04	2.66e-03	-2.90e-03	-2.17e-03	-8.81e-04	9.99e-03
## 658	4.45e-03	-2.43e-02	-1.34e-02	-1.72e-02	3.26e-02	-4.48e-02	-1.08e-01
## 659	-1.17e-03	-5.63e-03	2.14e-03	-4.32e-03	-2.46e-03	-1.25e-03	1.05e-02
## 660	-1.18e-02	-8.34e-03	1.83e-02	-1.61e-02	1.07e-02	-3.30e-02	-8.17e-02
## 661	3.54e-03	-7.11e-04	1.27e-02	1.08e-02	-2.33e-03	8.39e-03	3.76e-02
## 662	-2.48e-03	-4.66e-03	4.24e-03	3.26e-03	-1.07e-02	9.09e-03	2.14e-02
## 663	-3.85e-04	2.81e-04	-2.50e-04	4.30e-04	-6.60e-05	-3.33e-05	1.11e-03
## 664	9.84e-05	-1.29e-03	-1.71e-03	3.96e-03	-1.51e-03	3.63e-03	-1.11e-02
## 665	2.25e-02	7.78e-03	-1.44e-02	2.14e-02	2.94e-02	-1.04e-02	7.38e-02
## 666	-1.48e-02	-7.10e-03	-2.24e-02	-9.04e-05	-2.82e-02	2.19e-05	-4.81e-02
## 667	6.64e-03	-1.35e-02	-7.30e-03	-1.11e-02	1.04e-03	-4.92e-03	4.44e-02
## 668	-7.10e-03	-3.58e-03	-2.48e-02	-1.93e-02	5.76e-03	-2.01e-02	-7.38e-02
## 669	2.20e-04	-1.81e-04	-5.63e-04	3.81e-04	-1.17e-04	3.56e-04	-2.11e-03

## 670	-1.41e-04	-5.45e-04	-7.41e-04	-6.86e-04	-2.07e-04	-5.79e-04	2.00e-03
## 671	2.03e-05	-5.41e-04	-4.73e-04	2.83e-04	-1.15e-04	8.47e-04	-2.76e-03
## 672	-1.01e-02	-8.22e-03	6.52e-03	-1.20e-02	-1.47e-02	4.43e-03	-3.67e-02
## 673	-3.90e-03	-1.03e-02	-9.50e-03	-7.07e-03	-1.49e-02	1.18e-03	2.88e-02
## 674	2.92e-02	3.00e-02	8.27e-03	-1.42e-02	2.00e-02	1.46e-02	-1.15e-01
## 675	7.39e-04	6.53e-03	-2.99e-03	4.46e-03	-1.00e-03	7.45e-03	2.37e-02
## 676	-4.38e-04	-1.17e-03	1.22e-03	-2.17e-03	-1.05e-03	-1.27e-03	5.63e-03
## 677	3.10e-02	-6.19e-03	1.39e-02	2.00e-03	1.35e-02	-2.21e-02	-7.68e-02
## 678	-1.98e-02	1.01e-03	4.39e-02	2.80e-02	3.72e-02	-6.57e-02	1.23e-01
## 679	1.15e-02	-9.91e-03	1.83e-02	-1.39e-02	9.68e-03	4.53e-03	4.58e-02
## 680	2.07e-02	-2.38e-03	-2.12e-02	-3.09e-04	-2.60e-02	8.84e-03	-5.93e-02
## 681	2.12e-04	-2.50e-04	3.23e-04	3.44e-04	2.47e-04	-1.74e-04	-1.49e-03
## 682	7.95e-03	-5.97e-03	-1.04e-02	-1.06e-02	-9.10e-03	-5.17e-03	4.85e-02
## 683	-3.73e-03	6.67e-03	-4.67e-03	-4.14e-03	-5.54e-04	4.90e-04	5.77e-02
## 684	1.92e-02	1.03e-02	2.76e-02	1.84e-02	3.87e-02	-2.68e-03	6.33e-02
## 685	3.96e-03	-7.71e-04	-1.15e-02	-3.94e-04	-7.63e-03	6.73e-03	4.19e-02
## 686	-9.16e-04	-1.97e-03	-3.67e-03	-3.84e-03	-2.77e-03	-2.82e-03	1.11e-02
## 687	-1.26e-03	-6.37e-03	2.10e-02	1.33e-03	2.25e-02	-1.15e-02	-8.89e-02
## 688	4.12e-03	1.42e-03	6.48e-03	9.05e-03	6.89e-03	-4.30e-03	2.72e-02
## 689	-1.50e-02	-1.50e-02	2.02e-02	-1.47e-02	6.73e-03	6.56e-03	5.14e-02
## 690	-3.24e-03	-4.42e-03	-1.18e-02	4.57e-03	-1.66e-02	1.18e-02	2.93e-02
## 691	-9.76e-03	6.12e-04	-4.78e-03	-6.72e-03	-3.80e-03	-3.18e-03	2.25e-02
## 692	1.24e-04	4.90e-04	-3.43e-04	3.14e-04	2.99e-05	4.16e-04	-1.94e-03
## 693	-1.09e-02	-7.74e-03	6.53e-03	1.01e-02	-1.34e-02	1.94e-03	-3.86e-02
## 694	-1.58e-03	4.02e-03	-9.28e-03	6.72e-03	-9.09e-03	2.80e-03	2.68e-02
## 695	-3.01e-03	-4.80e-03	-1.20e-02	5.40e-03	-1.72e-02	1.21e-02	3.47e-02
## 696	9.45e-04	-1.05e-03	1.16e-03	1.32e-03	2.49e-03	-1.26e-03	-6.23e-03
## 697	-9.72e-03	1.47e-03	2.32e-02	1.55e-04	1.56e-02	-1.22e-02	-8.89e-02
## 698	1.98e-02	8.66e-03	-4.50e-03	-1.38e-02	7.52e-03	6.66e-03	5.31e-02
## 699	-4.65e-03	-1.88e-03	5.36e-03	-6.87e-04	5.40e-05	6.45e-05	-1.79e-02
## 700	2.79e-03	2.06e-03	-1.72e-03	-1.66e-03	-1.08e-03	5.75e-04	8.70e-03
## 701	2.41e-02	-1.11e-02	2.61e-02	6.53e-03	1.37e-02	4.40e-04	5.88e-02
## 702	-2.49e-02	-5.89e-03	-7.50e-03	7.74e-03	1.21e-02	4.39e-04	6.26e-02
## 703	-3.14e-03	-4.85e-03	-1.18e-02	5.06e-03	-1.65e-02	1.15e-02	2.93e-02
## 704	1.60e-03	1.48e-03	1.23e-02	9.36e-03	-4.19e-03	3.79e-03	4.01e-02
## 705	-1.70e-02	8.87e-03	1.41e-02	3.27e-02	-2.34e-02	8.33e-03	-8.79e-02
## 706	-2.58e-03	-3.50e-03	4.40e-03	-6.83e-03	-2.05e-03	2.52e-03	-1.64e-02
## 707	-1.10e-02	1.84e-02	-3.81e-03	-2.39e-02	4.01e-03	-1.05e-02	7.73e-02
## 708	1.83e-02	-7.29e-03	-9.26e-03	-7.32e-03	1.54e-02	1.85e-03	5.69e-02
## 709	-1.54e-02	-1.46e-02	1.60e-02	-5.82e-03	-1.30e-02	-9.76e-03	5.02e-02
## 710	1.09e-02	2.01e-02	-1.78e-02	-1.38e-02	4.67e-02	-3.92e-02	-9.17e-02
## 711	2.03e-02	-9.54e-03	-1.04e-02	2.05e-02	2.20e-02	-8.57e-03	6.94e-02
## 712	-6.01e-05	7.99e-04	-1.37e-03	-2.12e-04	-3.15e-04	-1.11e-03	3.72e-03
## 713	1.48e-02	-9.19e-03	-1.20e-02	2.00e-02	2.51e-02	-1.68e-02	7.80e-02
## 714	3.53e-05	-1.78e-04	-8.13e-04	-2.39e-03	-8.48e-04	2.86e-03	-5.77e-03
## 715	1.89e-02	-1.34e-02	-5.55e-03	-4.36e-03	2.07e-03	6.13e-03	5.08e-02
## 716	2.74e-04	-2.22e-04	-7.35e-04	4.87e-04	-1.56e-04	4.37e-04	-2.73e-03
## 717	-2.38e-02	-7.88e-03	-6.14e-03	-2.52e-02	1.00e-02	1.50e-03	6.55e-02
## 718	-1.51e-02	-1.29e-02	-8.99e-03	-9.54e-03	-1.23e-02	-1.81e-03	6.58e-02
## 719	1.44e-02	-1.56e-02	-3.74e-03	2.04e-04	-7.39e-04	1.10e-02	4.83e-02

## 720	-5.94e-04	3.48e-03	1.92e-03	2.46e-03	-4.51e-03	6.30e-03	1.53e-02
## 721	1.33e-05	-9.96e-04	-1.70e-03	8.27e-04	-2.35e-03	4.61e-03	-1.10e-02
## 722	1.58e-02	-3.21e-03	5.15e-03	-2.20e-03	-1.30e-02	8.30e-03	-4.35e-02
## 723	-5.49e-03	-7.43e-03	1.97e-02	1.68e-03	1.54e-02	-2.08e-02	-6.50e-02
## 724	1.05e-02	5.36e-03	1.68e-03	-6.88e-03	1.11e-03	9.05e-04	-4.81e-02
## 725	-3.84e-03	-6.24e-03	-1.21e-02	7.18e-03	-1.99e-02	9.39e-03	4.19e-02
## 726	1.99e-04	7.99e-03	2.04e-03	3.96e-03	-1.83e-03	1.42e-03	1.50e-02
## 727	3.24e-02	4.78e-03	-1.06e-02	2.92e-03	3.09e-02	-1.13e-02	8.07e-02
## 728	-2.07e-02	1.38e-02	-3.23e-02	9.08e-03	-1.64e-02	1.59e-02	-9.76e-02
## 729	6.08e-04	-4.42e-04	4.33e-04	-1.14e-05	3.53e-04	2.46e-05	-2.01e-03
## 730	-3.31e-02	3.05e-02	1.18e-02	-1.60e-02	-1.83e-02	-2.63e-03	-9.94e-02
## 731	-2.37e-03	-5.38e-03	4.16e-03	3.58e-03	-9.44e-03	7.19e-03	1.98e-02
## 732	1.37e-02	-4.39e-03	-8.87e-03	5.20e-03	2.01e-02	-2.24e-03	5.34e-02
## 733	6.61e-04	5.18e-04	4.95e-04	-3.68e-04	6.91e-04	5.38e-04	2.00e-03
## 734	-1.91e-02	-1.19e-02	2.76e-02	-2.35e-02	1.30e-02	-5.69e-03	7.32e-02
## 735	-1.10e-02	-1.62e-02	1.62e-02	-6.96e-03	-3.72e-03	-1.70e-03	5.50e-02
## 736	-4.41e-03	5.70e-03	2.21e-02	-5.40e-03	1.22e-02	-1.34e-02	5.27e-02
## 737	1.32e-03	-2.48e-03	-3.75e-03	-9.58e-07	-3.50e-03	-3.54e-03	-1.47e-02
## 738	1.29e-02	-7.15e-03	-4.45e-03	-1.90e-02	3.00e-03	3.53e-03	5.82e-02
## 739	1.68e-03	-1.45e-03	1.78e-03	1.89e-03	4.84e-03	-1.96e-03	-9.69e-03
## 740	1.56e-03	2.39e-03	-2.13e-03	2.88e-03	2.75e-04	-1.03e-03	7.68e-03
## 741	1.82e-02	2.90e-03	-1.53e-02	2.53e-03	2.85e-02	-1.97e-02	7.76e-02
## 742	1.48e-02	4.09e-03	-2.29e-02	-2.51e-03	-1.51e-02	2.14e-02	-6.23e-02
## 743	-1.65e-05	1.94e-04	-5.47e-04	6.33e-04	-1.21e-06	-5.19e-04	1.50e-03
## 744	2.97e-03	2.96e-03	-1.18e-02	-1.24e-02	-1.15e-02	1.36e-02	4.23e-02
## 745	1.10e-03	6.10e-03	-1.69e-03	5.17e-04	-2.43e-03	8.32e-03	2.00e-02
## 746	7.66e-05	7.62e-04	-4.96e-04	-7.88e-04	-5.51e-04	1.53e-03	3.91e-03
## 747	2.23e-02	8.11e-03	2.99e-02	2.10e-02	3.13e-02	-1.16e-02	8.86e-02
## 748	9.93e-06	-6.83e-04	-3.40e-04	-1.02e-03	-3.13e-04	7.67e-04	-2.60e-03
## 749	1.18e-02	-1.80e-03	-2.84e-03	-4.80e-04	3.19e-03	5.76e-03	2.34e-02
## 750	1.25e-03	-5.30e-03	-7.56e-03	9.92e-03	-3.70e-03	-1.45e-03	3.01e-02
## 751	2.24e-03	-1.97e-03	2.79e-03	-1.60e-05	2.33e-03	-8.39e-04	-1.15e-02
## 752	-1.95e-02	-1.06e-02	-1.06e-02	-7.86e-03	-6.20e-03	-9.37e-03	4.77e-02
## 753	2.32e-02	9.12e-04	2.75e-02	2.24e-03	3.16e-02	-3.12e-02	9.38e-02
## 754	8.25e-03	2.46e-03	2.33e-03	-4.16e-03	-1.19e-03	1.25e-02	-4.11e-02
## 755	2.52e-04	-8.28e-04	-1.92e-03	3.60e-03	-2.20e-03	5.80e-03	-1.29e-02
## 756	-2.40e-03	-5.17e-03	4.31e-03	3.65e-03	-1.04e-02	8.44e-03	2.09e-02
## 757	2.46e-02	1.94e-03	7.41e-03	2.69e-02	-1.89e-02	9.96e-03	-7.65e-02
## 758	-2.50e-03	-1.57e-03	1.31e-03	1.26e-03	-1.56e-03	-1.90e-03	-6.88e-03
## 759	-2.42e-03	-4.69e-03	4.43e-03	3.39e-03	-1.06e-02	9.18e-03	2.19e-02
## 760	1.25e-02	7.45e-03	-2.81e-02	-4.44e-03	-1.91e-02	7.25e-03	-5.94e-02
## 761	-1.34e-02	-8.34e-03	9.12e-03	-1.13e-03	-2.04e-02	5.41e-04	-4.78e-02
## 762	-6.62e-03	-1.43e-03	-5.08e-03	4.68e-03	-1.93e-03	1.90e-04	-2.49e-02
## 763	3.86e-05	-5.15e-04	-1.51e-03	-5.34e-03	-3.12e-03	5.82e-03	-1.23e-02
## 764	1.95e-02	1.20e-03	-1.19e-02	1.58e-02	-7.66e-03	1.38e-02	7.22e-02
## 765	1.46e-02	4.95e-05	-9.31e-03	2.33e-02	1.90e-02	-1.19e-02	6.30e-02
## 766	-6.44e-04	1.59e-03	1.91e-03	-6.57e-03	-3.45e-03	3.12e-03	1.09e-02
## 767	1.25e-02	-1.20e-02	-6.50e-03	5.76e-03	1.33e-02	2.39e-03	4.38e-02
## 768	-1.51e-02	7.79e-03	7.28e-03	8.56e-03	-2.89e-04	-3.56e-03	3.58e-02
## 769	-2.92e-03	-6.48e-03	-9.24e-03	-8.05e-03	-1.31e-02	6.96e-03	2.36e-02

## 770	1.06e-02	2.74e-04	3.26e-03	-2.91e-03	-5.95e-03	8.97e-03	-3.67e-02
## 771	1.02e-02	2.00e-02	-1.83e-02	-1.46e-02	4.58e-02	-3.92e-02	-9.11e-02
## 772	2.03e-02	1.62e-03	1.09e-02	-1.72e-02	-1.88e-02	2.22e-02	-7.21e-02
## 773	4.88e-03	-1.70e-02	9.35e-03	-9.83e-03	-1.92e-02	5.59e-03	-6.89e-02
## 774	2.59e-04	3.60e-03	-1.60e-03	1.46e-04	-1.01e-03	5.25e-03	1.12e-02
## 775	-2.59e-02	-4.45e-04	1.76e-02	1.21e-02	-2.25e-03	7.44e-03	7.24e-02
## 776	-9.73e-03	-8.68e-03	6.05e-03	-1.53e-03	-1.62e-02	1.17e-02	-4.48e-02
## 777	-3.56e-03	-1.89e-03	-3.01e-03	-3.10e-05	1.29e-03	1.69e-03	1.90e-02
## 778	-6.26e-03	-4.86e-03	-2.49e-02	3.14e-03	8.42e-03	-2.20e-02	-7.13e-02
## 779	2.10e-03	-1.44e-03	2.02e-03	-5.53e-05	1.35e-03	-5.42e-04	-1.04e-02
## 780	3.44e-03	-9.50e-04	1.16e-02	9.96e-03	-2.27e-03	1.01e-02	4.14e-02
## 781	4.04e-04	-5.79e-03	-6.25e-03	-3.70e-03	-3.69e-03	-1.04e-03	2.41e-02
## 782	-8.58e-03	4.20e-04	2.03e-02	3.66e-04	1.01e-02	-1.06e-02	-7.61e-02
## 783	-1.63e-04	2.03e-04	2.45e-04	2.35e-04	-1.98e-04	2.77e-04	-1.24e-03
## 784	1.00e-02	-1.13e-02	8.31e-03	-1.55e-02	2.57e-03	6.05e-03	-8.58e-02
## 785	-2.22e-03	-2.59e-03	-2.77e-03	2.62e-03	-1.71e-03	7.13e-08	-1.36e-02
## 786	1.77e-03	-9.50e-03	-5.83e-03	-8.63e-03	-5.60e-03	-2.04e-03	2.95e-02
## 787	-1.32e-02	4.39e-03	1.04e-02	3.15e-03	-5.49e-03	-7.58e-03	4.02e-02
## 788	-6.23e-03	-2.74e-03	-6.11e-03	5.73e-03	2.79e-04	2.80e-03	-2.79e-02
## 789	1.43e-04	-1.28e-04	-3.21e-04	2.51e-05	-2.01e-04	1.95e-04	-1.40e-03
## 790	-2.00e-03	-7.25e-04	-1.05e-03	3.25e-05	-1.30e-03	-3.03e-04	5.24e-03
## 791	2.58e-04	1.01e-02	-7.02e-03	3.19e-03	-3.46e-03	5.36e-03	1.77e-02
## 792	-6.07e-04	-5.51e-04	-3.26e-04	1.99e-04	-1.05e-04	1.26e-04	-1.96e-03
## 793	-1.97e-02	-1.65e-03	2.39e-02	-1.68e-02	-9.78e-03	1.15e-02	7.46e-02
## 794	-2.85e-02	-3.37e-03	-1.12e-02	1.30e-02	-1.01e-02	-8.94e-03	6.39e-02
## 795	1.58e-02	9.91e-03	1.63e-02	-5.46e-03	2.12e-02	8.94e-04	4.71e-02
## 796	-3.27e-03	-1.03e-02	-8.83e-03	-1.30e-02	-1.39e-02	3.05e-03	3.02e-02
## 797	-2.06e-03	-5.27e-03	3.56e-03	-2.20e-03	-9.24e-03	8.53e-03	2.06e-02
## 798	4.63e-03	-9.34e-04	1.08e-02	-1.95e-02	6.89e-03	-3.14e-02	-9.37e-02
## 799	1.32e-02	1.68e-02	-4.54e-03	9.77e-04	8.34e-03	1.15e-02	3.88e-02
## 800	1.05e-02	4.21e-03	3.62e-03	-3.37e-03	-8.96e-03	1.70e-02	-4.83e-02
## 801	-1.58e-04	3.48e-03	-4.09e-03	3.45e-03	-1.19e-03	-1.31e-03	1.00e-02
## 802	2.85e-03	3.61e-03	-1.97e-03	-4.86e-04	-3.57e-04	-6.67e-05	9.85e-03
## 803	-1.85e-02	-5.14e-03	5.75e-03	-1.53e-03	-1.71e-02	1.45e-02	-5.17e-02
## 804	-1.35e-03	2.10e-03	-1.73e-03	-1.86e-03	-2.24e-03	1.86e-03	1.03e-02
## 805	3.85e-03	-7.32e-03	7.56e-03	-5.31e-03	-2.32e-03	5.12e-05	2.79e-02
## 806	2.71e-04	1.34e-03	-1.13e-03	7.45e-05	-1.94e-04	2.52e-03	6.44e-03
## 807	1.27e-02	1.30e-02	2.88e-03	-1.02e-02	-5.05e-04	6.11e-05	-6.27e-02
## 808	-1.26e-02	-9.32e-03	9.24e-03	-6.43e-05	-1.99e-02	2.04e-04	-3.88e-02
## 809	7.39e-03	-4.30e-03	8.59e-03	2.79e-02	1.08e-02	-2.34e-02	-8.96e-02
## 810	1.43e-03	-3.52e-02	2.03e-02	1.05e-03	-5.29e-03	-5.36e-02	-1.46e-01
## 811	1.75e-05	1.71e-03	8.06e-04	6.24e-04	-2.86e-04	-7.01e-04	4.92e-03
## 812	3.61e-03	2.17e-03	4.81e-03	-7.71e-03	4.78e-03	4.18e-04	2.38e-02
## 813	-3.33e-03	-5.20e-03	5.94e-03	-1.60e-02	-1.51e-02	9.94e-03	3.28e-02
## 814	3.10e-02	-3.70e-03	-7.20e-03	2.64e-02	1.57e-02	-4.57e-03	7.06e-02
## 815	1.43e-02	-3.54e-03	6.69e-03	-1.26e-02	-1.68e-02	1.34e-02	-4.67e-02
## 816	-9.35e-04	-2.56e-03	-2.77e-03	-6.30e-03	1.24e-03	3.08e-03	2.25e-02
## 817	9.65e-03	1.32e-02	4.19e-03	-7.40e-03	-7.97e-03	2.87e-02	-6.73e-02
## 818	-5.49e-05	-4.37e-05	3.17e-05	-3.81e-06	-3.93e-05	-2.12e-05	-1.57e-04
## 819	-1.08e-03	-1.96e-02	-2.37e-03	8.10e-03	-6.32e-03	1.34e-02	4.32e-02

## 820	-7.39e-04	1.04e-03	-1.08e-03	-2.92e-04	-5.07e-04	-6.42e-05	3.72e-03
## 821	-4.58e-03	6.70e-03	-5.05e-03	8.26e-03	1.11e-05	2.56e-03	4.16e-02
## 822	1.25e-02	-7.27e-03	-1.06e-02	-1.11e-02	-1.22e-02	-5.18e-03	5.38e-02
## 823	-4.03e-05	6.50e-04	-1.31e-03	-1.29e-04	-1.07e-04	-1.37e-03	3.73e-03
## 824	-2.74e-02	6.75e-03	8.41e-03	1.06e-02	-1.66e-02	1.71e-02	-7.45e-02
## 825	7.62e-03	-3.06e-03	8.58e-04	1.28e-02	-2.71e-03	8.77e-03	-3.39e-02
## 826	-2.69e-03	-9.13e-03	4.99e-03	5.68e-03	-9.95e-03	3.43e-03	2.61e-02
## 827	-6.46e-02	3.98e-03	-4.35e-02	-2.23e-02	-3.56e-02	-2.07e-02	-1.35e-01
## 828	1.38e-02	-1.61e-02	-7.83e-03	4.33e-03	-1.76e-03	-5.12e-03	4.89e-02
## 829	1.30e-02	6.06e-03	-4.45e-02	-2.00e-02	-9.73e-03	-9.34e-03	-1.17e-01
## 830	-1.45e-05	6.99e-04	3.04e-04	-3.49e-04	-1.40e-04	-1.65e-04	1.96e-03
## 831	9.84e-03	1.02e-02	-6.33e-03	-1.40e-04	3.03e-03	1.44e-03	-2.69e-02
## 832	2.29e-02	-1.18e-02	-5.22e-03	8.33e-03	6.42e-03	-4.45e-04	5.78e-02
## 833	-1.54e-02	-6.55e-03	3.96e-03	-1.09e-03	-9.50e-03	4.97e-03	-4.17e-02
## 834	-1.26e-02	-1.40e-02	-3.81e-03	7.14e-03	-3.87e-03	7.15e-03	4.49e-02
## 835	5.00e-03	4.48e-03	-3.32e-03	3.81e-04	4.82e-04	1.89e-04	-1.49e-02
## 836	-5.91e-03	-5.59e-03	-2.39e-02	-1.73e-02	8.32e-03	-2.16e-02	-7.32e-02
## 837	-8.30e-03	-1.25e-02	-5.15e-03	-2.98e-03	-8.56e-03	-4.56e-03	2.74e-02
## 838	4.51e-06	-9.87e-04	-4.54e-04	4.96e-04	-1.74e-04	4.97e-04	-2.71e-03
## 839	3.62e-03	-1.02e-02	5.61e-03	-1.61e-02	5.17e-03	-1.99e-02	-8.10e-02
## 840	5.89e-04	5.16e-03	-2.56e-03	2.59e-04	-4.96e-04	7.80e-03	1.76e-02
## 841	5.94e-03	-1.15e-02	-1.75e-02	6.51e-02	3.46e-02	-3.68e-02	-1.18e-01
## 842	5.57e-03	-2.07e-03	-1.12e-02	-2.11e-02	-4.97e-03	1.11e-02	5.31e-02
## 843	9.25e-03	-4.00e-03	3.68e-03	-5.62e-04	-1.18e-02	1.17e-02	-3.42e-02
## 844	-4.37e-04	1.04e-03	1.68e-03	2.76e-03	-2.30e-03	2.54e-03	1.01e-02
## 845	2.72e-03	-2.11e-03	3.43e-03	3.41e-03	3.57e-03	-3.08e-04	-1.37e-02
## 846	3.98e-03	3.88e-03	4.24e-03	-4.53e-03	2.38e-03	3.88e-03	2.51e-02
## 847	2.18e-03	-1.83e-03	3.12e-03	-2.71e-04	5.47e-03	-2.65e-03	-1.22e-02
## 848	4.09e-03	-6.07e-04	-6.59e-03	-3.32e-04	6.49e-03	-3.13e-03	-2.06e-02
## 849	-2.00e-04	-7.10e-04	6.48e-04	8.91e-04	4.06e-04	-2.06e-03	-3.91e-03
## 850	-1.18e-03	1.35e-03	-1.12e-03	1.90e-03	-7.88e-04	-2.08e-04	5.50e-03
## 851	-3.69e-03	-6.03e-03	6.17e-03	4.86e-03	-1.59e-02	8.84e-03	3.21e-02
## 852	8.37e-03	-6.60e-03	-1.04e-02	5.90e-04	-8.47e-03	-5.11e-03	4.68e-02
## 853	5.12e-05	-6.60e-04	-1.84e-03	3.56e-04	-2.41e-03	5.48e-03	-1.18e-02
## 854	1.30e-03	1.18e-03	1.08e-02	-2.00e-02	1.78e-03	-4.02e-02	-1.15e-01
## 855	3.95e-03	-2.44e-03	-5.49e-03	1.23e-04	4.16e-03	-3.03e-03	-1.92e-02
## 856	-3.79e-03	-5.76e-03	-2.64e-02	2.79e-03	8.32e-03	-8.95e-03	-8.14e-02
## 857	1.03e-03	-4.09e-04	1.01e-03	7.09e-04	8.05e-04	4.23e-04	3.33e-03
## 858	1.08e-03	-4.31e-04	2.07e-03	-1.82e-04	-5.27e-05	1.44e-03	-8.65e-03
## 859	-5.23e-04	1.05e-04	1.39e-03	-2.08e-03	-1.59e-03	4.50e-04	6.16e-03
## 860	-1.43e-03	2.70e-03	2.69e-03	-2.25e-03	2.47e-03	2.15e-03	1.06e-02
## 861	-1.37e-02	-2.94e-03	7.97e-03	-5.40e-03	-1.43e-02	4.55e-03	-6.52e-02
## 862	1.11e-02	-3.58e-03	3.30e-03	-1.53e-03	-1.23e-02	1.78e-02	-4.33e-02
## 863	1.10e-02	3.03e-03	3.04e-03	7.93e-03	-5.13e-03	5.88e-03	-4.13e-02
## 864	-1.96e-02	1.93e-03	1.19e-02	-1.83e-02	-2.66e-02	1.75e-02	-7.59e-02
## 865	6.22e-03	4.30e-03	-3.33e-03	-3.55e-03	3.34e-03	-2.76e-03	2.00e-02
## 866	-3.06e-03	-5.60e-03	-1.13e-02	5.29e-03	-1.53e-02	9.88e-03	2.77e-02
## 867	2.20e-02	-7.44e-03	-3.94e-02	-1.99e-02	-2.67e-02	-2.62e-02	-1.11e-01
## 868	2.24e-04	1.86e-02	-1.10e-02	4.59e-03	-7.49e-03	8.74e-03	3.40e-02
## 869	9.36e-04	3.22e-04	-2.93e-04	-3.12e-04	1.06e-04	5.28e-04	1.74e-03

## 870	-2.08e-03	-3.92e-04	-3.79e-03	-1.50e-03	1.26e-03	5.69e-03	2.84e-02
## 871	2.25e-04	-4.15e-04	-1.97e-03	7.45e-04	-3.38e-03	6.78e-03	-1.57e-02
## 872	2.93e-02	4.40e-02	1.05e-02	-1.92e-02	1.08e-02	1.83e-02	-1.26e-01
## 873	-8.33e-05	1.92e-02	1.41e-02	-1.24e-02	9.40e-03	8.20e-03	4.71e-02
## 874	1.88e-02	5.17e-03	-1.19e-02	-1.75e-02	-1.44e-02	2.20e-02	7.48e-02
## 875	1.24e-02	2.18e-02	-2.87e-02	-5.71e-03	-2.65e-02	3.62e-02	-8.91e-02
## 876	-1.70e-03	-2.40e-03	2.73e-03	-2.86e-03	3.02e-04	-1.44e-03	1.19e-02
## 877	-1.41e-03	1.60e-03	-1.68e-03	-1.51e-03	3.95e-04	3.87e-04	-7.49e-03
## 878	1.05e-03	-7.04e-03	-7.03e-03	-1.41e-02	-9.97e-03	-1.84e-03	3.97e-02
## 879	1.44e-02	1.39e-02	8.83e-03	-4.99e-03	-1.95e-02	4.72e-02	-8.54e-02
## 880	-1.06e-03	8.58e-04	2.71e-03	-3.44e-03	-4.16e-03	1.18e-03	1.42e-02
## 881	1.89e-02	9.15e-04	-2.22e-02	-2.00e-03	-2.26e-02	1.41e-02	-5.99e-02
## 882	2.16e-04	-3.23e-03	-2.44e-03	4.32e-03	-1.66e-03	6.86e-03	1.89e-02
## 883	2.61e-03	-1.21e-03	-3.53e-03	-6.48e-04	2.78e-03	-1.80e-03	1.46e-02
## 884	-3.29e-03	-4.44e-03	-1.17e-02	4.49e-03	-1.66e-02	1.17e-02	2.91e-02
## 885	3.67e-02	6.56e-03	-9.22e-03	4.19e-03	1.79e-02	-1.83e-02	9.55e-02
## 886	-1.13e-02	1.87e-02	-6.41e-03	-2.31e-02	4.44e-03	-2.25e-02	8.18e-02
## 887	-5.27e-03	8.40e-03	2.04e-02	-5.98e-03	1.98e-02	2.96e-03	5.24e-02
## 888	-5.10e-02	5.50e-02	1.34e-02	-2.41e-02	4.06e-03	-1.52e-02	-1.27e-01
## 889	1.11e-02	-1.46e-02	1.17e-02	4.59e-03	1.21e-02	-6.45e-03	4.41e-02
## 890	1.26e-02	3.36e-02	5.45e-03	2.59e-02	9.20e-03	-3.05e-03	-8.38e-02
## 891	2.10e-02	-5.76e-03	-7.43e-03	-7.74e-03	8.16e-03	1.01e-03	6.97e-02
## 892	-1.32e-02	-7.50e-03	-2.41e-02	4.47e-03	6.55e-03	-3.94e-02	-8.96e-02
## 893	1.10e-02	-3.36e-04	-4.03e-03	2.43e-04	8.19e-03	5.19e-03	3.09e-02
## 894	-2.46e-02	-9.72e-03	-7.49e-03	-7.17e-03	8.36e-03	-1.37e-02	6.37e-02
## 895	2.27e-05	1.16e-04	-7.69e-05	-1.14e-04	-5.54e-05	2.33e-04	4.88e-04
## 896	2.22e-04	1.66e-02	1.31e-02	6.16e-03	6.17e-03	6.70e-03	3.59e-02
## 897	1.59e-02	1.24e-02	7.92e-03	2.73e-02	-1.64e-02	2.64e-02	-7.98e-02
## 898	-1.43e-02	-1.27e-02	-4.75e-03	-2.55e-03	-7.96e-04	4.26e-03	4.37e-02
## 899	-2.47e-03	-4.99e-03	4.27e-03	3.53e-03	-1.07e-02	8.82e-03	2.12e-02
## 900	9.42e-03	3.27e-03	-2.15e-02	8.80e-03	-1.03e-02	1.75e-02	-5.00e-02
## 901	1.65e-02	9.47e-03	-2.73e-02	-3.38e-03	-2.17e-02	1.70e-02	-7.38e-02
## 902	-1.64e-03	-8.25e-06	-3.61e-03	-1.07e-03	2.82e-04	5.26e-03	2.61e-02
## 903	2.84e-03	-2.44e-03	-3.78e-03	2.52e-04	1.38e-03	-7.72e-04	-1.51e-02
## 904	6.29e-03	-1.34e-03	1.67e-03	-2.19e-03	-3.31e-03	1.26e-02	-3.27e-02
## 905	1.31e-02	3.35e-03	-1.18e-02	-7.33e-04	-1.27e-02	6.68e-03	5.66e-02
## 906	-1.55e-02	7.45e-03	-7.21e-03	-1.32e-02	-4.00e-03	-2.58e-03	3.71e-02
## 907	-1.96e-03	-5.99e-03	3.26e-03	3.27e-03	-6.99e-03	5.65e-03	1.89e-02
## 908	9.62e-04	3.86e-03	-1.57e-03	3.11e-03	-4.34e-04	6.03e-03	1.36e-02
## 909	-1.09e-02	-7.62e-03	7.61e-03	-2.29e-03	-1.37e-02	6.57e-03	-5.60e-02
## 910	2.70e-02	1.86e-03	3.83e-02	-1.38e-02	1.46e-02	-1.89e-02	9.26e-02
## 911	-1.95e-04	-2.42e-03	-2.16e-03	-4.00e-03	-2.41e-03	9.01e-03	1.86e-02
## 912	-6.71e-04	2.06e-03	1.99e-03	-4.06e-03	-3.82e-03	3.76e-03	1.07e-02
## 913	1.13e-04	-1.32e-04	1.94e-03	1.26e-03	-1.33e-04	2.55e-03	-5.74e-03
## 914	-8.29e-03	-8.81e-03	4.97e-03	-1.26e-03	-7.68e-03	2.92e-03	-3.98e-02
## 915	1.35e-02	-2.53e-03	-9.15e-03	-2.43e-02	1.52e-02	-1.53e-03	6.91e-02
## 916	8.01e-04	-6.27e-04	1.41e-03	1.36e-03	2.40e-04	8.71e-04	-6.82e-03
## 917	2.12e-02	-5.42e-03	-9.63e-03	7.81e-03	1.52e-02	-1.40e-03	6.18e-02
## 918	-6.10e-03	1.32e-02	-8.27e-03	2.14e-02	1.93e-02	-2.32e-02	6.66e-02
## 919	-4.10e-05	-1.67e-04	1.09e-04	-1.61e-04	-6.25e-05	-1.94e-04	5.50e-04

## 920	-2.14e-03	-6.28e-03	3.84e-03	3.88e-03	-7.45e-03	4.42e-03	1.72e-02
## 921	1.90e-02	4.00e-03	-1.06e-02	6.04e-03	2.18e-02	-2.38e-03	6.61e-02
## 922	-4.88e-03	-1.49e-03	-2.49e-03	-8.36e-05	-5.29e-03	-5.07e-04	1.56e-02
## 923	1.17e-02	-3.21e-03	2.14e-02	4.54e-03	2.05e-02	-8.47e-03	6.39e-02
## 924	-5.14e-03	-5.57e-03	3.01e-03	-3.75e-03	-1.49e-03	-2.69e-03	1.29e-02
## 925	-7.76e-03	-8.88e-03	4.43e-03	-1.92e-03	-9.00e-03	9.57e-03	-4.41e-02
## 926	-1.75e-02	-8.97e-04	1.00e-02	-4.66e-03	-2.33e-02	1.60e-02	-6.44e-02
## 927	-1.23e-04	4.26e-03	-1.75e-03	3.14e-05	6.61e-04	5.54e-03	1.50e-02
## 928	-1.03e-02	1.00e-02	1.74e-02	6.15e-03	2.45e-02	-1.61e-03	5.57e-02
## 929	1.30e-02	-6.20e-04	2.28e-02	-2.48e-02	2.25e-02	-3.14e-03	5.80e-02
## 930	9.65e-03	1.59e-02	8.01e-03	-9.03e-03	1.53e-02	-1.02e-05	3.23e-02
## 931	2.60e-04	-3.50e-05	-2.02e-03	8.87e-05	-3.11e-03	7.88e-03	-1.45e-02
## 932	1.35e-02	-5.65e-03	2.82e-03	-1.61e-03	-5.80e-03	6.41e-03	-3.38e-02
## 933	6.41e-03	9.69e-03	-1.04e-02	8.84e-03	1.66e-03	4.85e-03	3.95e-02
## 934	3.45e-02	1.52e-02	-7.27e-03	5.17e-03	1.36e-02	-1.91e-02	1.05e-01
## 935	-1.10e-02	-3.86e-03	1.03e-02	-2.76e-03	-1.76e-02	1.11e-02	-5.47e-02
## 936	-4.65e-04	-2.74e-03	-2.04e-03	-1.15e-04	-3.54e-03	6.94e-03	1.97e-02
## 937	-2.05e-03	-6.66e-03	3.73e-03	4.11e-03	-6.93e-03	3.59e-03	1.64e-02
## 938	-2.95e-04	-6.48e-05	9.85e-04	-3.06e-03	-1.13e-03	9.02e-04	5.91e-03
## 939	5.39e-03	-2.75e-03	1.25e-02	1.07e-05	9.41e-04	8.32e-03	4.99e-02
## 940	-2.34e-02	-3.85e-03	-8.30e-03	-1.11e-02	1.63e-02	2.39e-03	6.01e-02
## 941	1.51e-03	-6.90e-04	-3.80e-03	2.83e-03	-3.54e-04	1.43e-03	-1.44e-02
## 942	-7.67e-03	-1.61e-02	-3.01e-03	-1.12e-02	-4.86e-03	6.12e-03	4.15e-02
## 943	-1.25e-02	-5.98e-03	-2.25e-02	2.62e-02	-1.94e-02	2.39e-03	-5.45e-02
## 944	-2.77e-03	-6.15e-03	-1.07e-02	4.59e-03	-1.32e-02	9.26e-03	2.79e-02
## 945	3.50e-02	-1.14e-02	-6.28e-03	2.88e-02	8.35e-03	-4.69e-03	8.94e-02
## 946	8.88e-03	9.59e-03	2.66e-03	-7.61e-03	3.33e-03	4.63e-03	-5.23e-02
## 947	-1.72e-05	-1.39e-03	-5.07e-04	1.81e-03	3.56e-05	-6.52e-05	-3.71e-03
## 948	-4.87e-03	-8.46e-03	-2.46e-02	-1.67e-02	1.33e-02	-1.97e-02	-8.33e-02
## 949	1.48e-02	4.42e-03	2.56e-02	2.10e-03	3.16e-02	-1.05e-02	6.17e-02
## 950	1.49e-03	-6.15e-03	5.02e-03	5.97e-03	1.46e-06	-1.15e-03	2.00e-02
## 951	2.32e-03	-6.72e-03	5.08e-03	9.94e-04	-1.70e-03	-2.34e-03	2.21e-02
## 952	-1.75e-02	-4.32e-03	-5.36e-03	7.17e-03	1.03e-02	-9.88e-03	6.73e-02
## 953	-6.00e-03	-4.51e-03	-2.53e-02	2.40e-02	1.25e-02	-2.44e-02	-8.85e-02
## 954	1.05e-04	1.18e-04	-1.91e-03	2.73e-03	-1.24e-03	5.07e-03	-1.13e-02
## 955	3.64e-03	-3.02e-03	9.29e-03	-2.71e-04	-2.27e-03	-7.46e-04	3.83e-02
## 956	-1.32e-02	-1.05e-02	8.11e-03	-9.79e-03	-5.93e-03	-8.67e-03	3.23e-02
## 957	2.37e-02	-9.43e-03	-6.06e-03	6.99e-03	1.56e-02	-3.04e-03	6.00e-02
## 958	5.15e-03	2.42e-04	1.38e-02	-2.32e-02	-7.29e-03	1.44e-02	6.48e-02
## 959	-9.76e-04	3.35e-03	-8.17e-03	4.62e-03	-6.10e-03	3.66e-03	1.69e-02
## 960	8.45e-03	-2.78e-03	1.62e-02	-2.28e-02	-1.19e-02	1.50e-03	6.54e-02
## 961	2.98e-04	-2.02e-04	-2.16e-04	2.12e-04	1.40e-04	2.50e-05	-1.05e-03
## 962	-5.68e-03	-9.12e-03	1.95e-02	-1.68e-02	1.30e-02	-1.93e-02	-6.54e-02
## 963	1.49e-02	8.39e-03	-2.63e-02	1.22e-02	-1.94e-02	2.76e-02	-8.40e-02
## 964	1.22e-02	2.80e-02	-1.94e-02	9.89e-03	4.63e-02	-3.21e-02	-8.93e-02
## 965	-2.09e-03	-5.42e-03	3.51e-03	2.98e-03	-8.03e-03	7.45e-03	2.11e-02
## 966	-1.16e-02	-2.75e-03	-6.90e-03	-1.50e-04	5.01e-04	-8.73e-04	-2.89e-02
## 967	7.18e-03	-3.21e-03	1.92e-03	-1.34e-03	-7.69e-03	1.14e-02	-2.76e-02
## 968	1.00e-02	-2.63e-03	-1.96e-02	-5.60e-04	-1.82e-02	1.36e-02	-4.36e-02
## 969	1.50e-02	-1.26e-02	-4.04e-03	-1.24e-02	-1.63e-03	3.68e-03	4.48e-02

## 970	-4.14e-03	-2.52e-03	-2.84e-03	2.85e-03	2.92e-06	3.66e-04	-1.19e-02
## 971	-1.05e-02	2.03e-02	1.50e-02	-1.39e-02	3.69e-03	1.11e-02	-1.12e-01
## 972	-2.11e-04	2.71e-04	-2.10e-04	-2.48e-05	-1.17e-04	8.30e-05	1.09e-03
## 973	-4.61e-03	-2.80e-02	2.37e-02	-3.09e-02	-1.59e-04	-4.65e-02	-1.37e-01
## 974	-1.27e-02	-9.35e-03	9.11e-03	-9.83e-05	-2.02e-02	3.71e-04	-3.88e-02
## 975	1.81e-02	3.96e-03	2.90e-02	3.38e-03	2.79e-02	-1.70e-03	6.16e-02
## 976	5.99e-03	-5.97e-03	6.07e-03	-2.04e-02	1.52e-02	-2.24e-02	-8.67e-02
## 977	1.04e-03	5.27e-05	-2.43e-03	-2.77e-03	-3.53e-05	2.66e-05	8.19e-03
## 978	-2.62e-03	-7.56e-03	-7.33e-03	-1.10e-02	-1.04e-02	3.62e-03	2.13e-02
## 979	-1.55e-05	-9.98e-04	-3.63e-04	-1.14e-03	-2.85e-04	4.08e-04	-2.86e-03
## 980	1.71e-03	2.38e-03	-5.29e-03	2.38e-03	-4.51e-04	3.69e-04	1.69e-02
## 981	1.40e-02	-5.67e-03	4.06e-03	-1.12e-03	-1.14e-02	9.26e-03	-3.42e-02
## 982	3.16e-04	3.97e-04	-2.02e-03	2.91e-03	-1.31e-03	6.14e-03	-1.27e-02
## 983	-1.56e-02	3.48e-03	4.96e-03	2.28e-02	-6.00e-03	-4.08e-04	-6.83e-02
## 984	2.38e-03	-2.09e-03	1.15e-02	-1.81e-02	-5.59e-03	9.64e-03	3.64e-02
## 985	-2.42e-03	-4.37e-03	4.00e-03	-1.33e-02	-1.09e-02	9.10e-03	2.27e-02
## 986	-1.37e-03	-5.84e-03	2.03e-03	2.87e-03	-2.80e-03	8.99e-05	1.16e-02
## 987	-1.37e-04	-2.74e-04	3.51e-04	-4.61e-04	-2.72e-04	-7.76e-05	1.71e-03
## 988	4.27e-03	4.11e-03	2.63e-03	-2.57e-03	4.78e-03	1.68e-03	1.20e-02
## 989	4.33e-05	-4.26e-04	-4.37e-04	1.73e-04	-5.24e-05	8.66e-04	-2.47e-03
## 990	1.82e-05	4.36e-03	1.21e-03	-2.03e-03	-1.43e-03	1.20e-03	9.33e-03
## 991	1.42e-04	8.89e-03	1.88e-03	-4.06e-03	-3.06e-03	3.94e-03	1.72e-02
## 992	5.13e-05	4.48e-03	8.25e-04	-2.17e-03	-1.21e-03	2.19e-03	7.31e-03
## 993	-2.41e-02	2.45e-02	-3.76e-02	9.59e-03	-2.82e-02	9.59e-03	-9.85e-02
## 994	-2.15e-02	8.95e-03	1.10e-02	9.73e-03	-2.39e-02	-9.82e-03	-6.64e-02
## 995	6.97e-03	-3.59e-03	1.10e-03	-1.33e-03	-3.20e-03	8.46e-03	-2.68e-02
## 996	1.09e-04	-1.39e-04	-2.30e-03	3.58e-03	-3.00e-03	7.46e-03	-1.55e-02
## 997	-2.08e-02	-7.36e-03	1.92e-02	-6.43e-04	-6.98e-03	-9.04e-03	5.83e-02
## 998	7.71e-03	1.51e-04	4.39e-03	-2.34e-03	-1.18e-02	1.58e-02	-4.09e-02
## 999	-1.41e-02	-2.70e-04	5.80e-03	-6.84e-03	-1.12e-02	7.71e-04	-5.19e-02
## 1000	1.82e-02	7.52e-03	-1.40e-02	1.95e-02	3.07e-02	-2.94e-04	6.71e-02
## 1001	9.23e-06	3.94e-04	1.31e-04	3.40e-04	3.65e-05	-6.98e-05	9.05e-04
## 1002	-1.92e-03	-6.90e-03	3.30e-03	3.97e-03	-5.25e-03	1.33e-03	1.45e-02
## 1003	-5.60e-03	1.11e-02	-2.79e-03	-2.26e-03	-5.44e-04	1.53e-02	5.81e-02
## 1004	2.02e-02	6.82e-03	6.52e-03	-5.70e-03	-1.47e-02	1.19e-02	-6.11e-02
## 1005	-1.46e-02	-6.91e-03	-2.25e-02	-5.02e-05	-2.78e-02	1.59e-04	-4.80e-02
## 1006	1.58e-02	1.78e-02	7.60e-03	8.56e-03	-5.28e-03	5.80e-03	-7.36e-02
## 1007	-1.43e-03	3.48e-03	-8.72e-03	5.11e-04	-8.99e-03	2.70e-03	2.57e-02
## 1008	1.71e-03	1.40e-03	-1.32e-02	1.05e-02	-6.93e-03	5.02e-03	4.21e-02
## 1009	1.59e-03	-5.50e-04	-2.37e-03	-4.23e-03	-1.81e-03	2.11e-03	-1.11e-02
## 1010	-1.64e-02	-6.91e-03	-6.57e-03	-3.45e-02	2.25e-02	-2.58e-02	8.76e-02
## 1011	1.67e-03	2.48e-03	1.32e-02	-1.12e-03	-5.37e-03	5.27e-03	4.09e-02
## 1012	4.79e-02	2.35e-02	-2.74e-02	-4.36e-03	1.47e-02	2.44e-03	-1.08e-01
## 1013	4.72e-02	-3.10e-02	-2.61e-02	2.17e-02	3.98e-03	-1.65e-02	-1.10e-01
## 1014	4.28e-03	-1.87e-03	3.60e-03	-6.53e-03	2.29e-03	7.61e-04	-1.44e-02
## 1015	-5.13e-04	-1.90e-03	-1.97e-03	-1.74e-03	-1.12e-03	-2.51e-03	6.87e-03
## 1016	-2.50e-02	-2.57e-03	-1.22e-02	-1.00e-03	-8.23e-03	9.94e-03	6.77e-02
## 1017	-2.65e-03	-8.64e-03	-8.34e-03	5.95e-03	-9.27e-03	1.64e-03	2.09e-02
## 1018	1.04e-03	-5.73e-03	3.93e-03	-1.74e-03	-7.00e-05	5.43e-04	1.51e-02
## 1019	1.48e-03	8.90e-04	2.42e-03	3.87e-03	1.40e-03	-1.02e-03	1.19e-02

## 1020	3.00e-02	1.31e-02	-6.95e-03	3.33e-03	2.06e-02	-2.37e-02	9.71e-02
## 1021	-1.52e-02	-1.39e-02	-5.64e-03	1.05e-02	5.82e-03	4.75e-03	6.82e-02
## 1022	1.56e-02	-7.17e-03	-8.52e-03	2.03e-02	2.04e-02	3.59e-03	5.19e-02
## 1023	8.27e-05	4.25e-03	-1.89e-03	-3.19e-03	-9.69e-05	3.19e-03	1.45e-02
## 1024	6.13e-03	-1.55e-03	1.62e-03	-2.05e-03	-3.45e-03	1.26e-02	-3.20e-02
## 1025	1.71e-02	2.01e-03	1.19e-02	-2.48e-03	6.76e-03	4.19e-03	3.63e-02
## 1026	-2.43e-02	7.13e-03	6.74e-03	-6.35e-03	-1.27e-02	3.79e-03	-5.81e-02
## 1027	-2.08e-02	4.27e-03	9.33e-03	-1.71e-02	-1.90e-02	2.27e-02	-8.55e-02
## 1028	1.16e-02	-1.21e-02	-5.64e-03	-1.23e-02	1.11e-02	8.19e-03	4.36e-02
## 1029	-1.39e-02	-1.47e-02	1.31e-02	-1.41e-02	-1.16e-02	-2.62e-03	4.48e-02
## 1030	8.55e-03	-7.95e-04	3.38e-03	-2.24e-03	-4.88e-03	1.31e-02	-4.24e-02
## 1031	1.21e-04	-5.33e-04	-8.60e-04	1.39e-03	-8.46e-05	1.98e-03	-5.12e-03
## 1032	2.76e-03	-1.33e-03	-5.66e-03	4.76e-03	2.93e-03	-3.67e-03	-2.21e-02
## 1033	3.27e-05	-4.08e-04	-6.39e-04	-1.78e-03	-4.67e-04	1.81e-03	-4.36e-03
## 1034	-6.25e-06	-5.11e-05	4.38e-05	6.09e-05	1.64e-05	-1.01e-04	-2.39e-04
## 1035	-1.56e-02	-8.73e-03	2.12e-02	9.59e-04	-8.59e-03	8.06e-04	6.80e-02
## 1036	-8.93e-03	5.20e-03	-5.81e-03	7.78e-03	1.19e-02	9.37e-03	4.48e-02
## 1037	-2.07e-02	1.95e-02	1.65e-02	-1.29e-02	-2.59e-02	6.82e-03	-9.83e-02
## 1038	1.12e-02	1.29e-05	-2.41e-02	1.00e-02	-1.24e-02	7.99e-03	-5.43e-02
## 1039	-8.65e-04	1.48e-03	-5.53e-03	-7.30e-03	-5.14e-03	3.93e-03	1.50e-02
## 1040	1.61e-02	-1.96e-03	2.19e-02	2.83e-03	2.87e-02	3.49e-03	5.58e-02
## 1041	-2.21e-02	1.22e-02	1.28e-02	3.10e-02	-2.43e-02	-1.35e-02	-8.07e-02
## 1042	2.14e-03	4.90e-03	4.34e-03	-9.18e-03	3.47e-04	1.20e-03	2.07e-02
## 1043	-7.54e-03	-2.02e-02	-4.22e-03	-1.88e-02	-2.36e-03	3.86e-03	5.82e-02
## 1044	6.68e-04	-3.90e-04	5.63e-04	-1.06e-04	-3.62e-04	-1.33e-04	2.17e-03
## 1045	4.07e-03	-1.20e-03	-1.18e-02	1.08e-02	-5.99e-03	5.10e-03	4.27e-02
## 1046	-9.17e-04	6.13e-04	-6.18e-03	4.43e-03	-3.55e-03	-6.99e-06	1.28e-02
## 1047	1.04e-02	2.02e-02	-1.82e-02	-1.46e-02	4.64e-02	-3.96e-02	-9.16e-02
## 1048	3.15e-02	1.04e-02	1.51e-02	-2.17e-03	1.88e-02	-1.57e-03	-1.02e-01
## 1049	-2.52e-02	-5.09e-03	-1.13e-02	-1.16e-02	-6.69e-03	1.21e-02	6.74e-02
## 1050	-8.14e-03	-1.19e-05	-6.58e-03	1.41e-02	-9.31e-03	-3.56e-03	3.74e-02
## 1051	3.14e-02	3.17e-03	-2.41e-02	1.26e-03	8.62e-03	-1.36e-02	-9.17e-02
## 1052	1.08e-02	1.30e-02	2.45e-03	2.13e-02	-2.90e-03	-2.81e-03	-6.10e-02
## 1053	-4.32e-04	-6.38e-04	1.24e-03	2.39e-03	-5.49e-04	-1.01e-03	5.94e-03
## 1054	1.80e-02	-4.99e-03	6.45e-03	-1.54e-03	-1.61e-02	5.91e-03	-4.19e-02
## 1055	-2.15e-02	-6.61e-05	9.45e-03	-1.73e-02	-2.07e-02	1.38e-02	-6.36e-02
## 1056	1.09e-02	-1.56e-03	4.46e-03	2.09e-02	-1.23e-02	1.10e-02	-4.93e-02
## 1057	-2.63e-02	9.48e-03	6.04e-03	-6.30e-03	-1.57e-02	1.26e-02	-6.48e-02
## 1058	-6.92e-04	5.68e-05	-4.38e-03	-5.29e-03	-3.15e-03	1.11e-03	1.04e-02
## 1059	5.64e-04	8.13e-03	-2.47e-03	5.30e-03	-2.43e-03	9.45e-03	2.33e-02
## 1060	2.07e-03	-6.86e-03	5.82e-03	-6.88e-03	-1.28e-03	1.41e-03	2.13e-02
## 1061	5.10e-03	-7.52e-03	8.44e-03	-1.38e-02	-5.13e-03	-2.71e-03	3.46e-02
## 1062	2.73e-03	4.45e-03	4.37e-03	5.86e-03	2.41e-03	-2.53e-04	1.98e-02
## 1063	-2.44e-02	6.82e-03	7.63e-03	2.59e-02	-9.26e-03	5.37e-03	-7.20e-02
## 1064	-1.09e-05	-7.75e-04	-3.64e-04	-1.07e-03	-2.75e-04	6.50e-04	-2.73e-03
## 1065	-1.84e-02	-1.28e-02	-9.07e-03	5.36e-03	1.46e-02	-9.59e-03	6.25e-02
## 1066	1.55e-02	2.27e-02	2.83e-03	2.50e-02	8.81e-03	-9.49e-03	-7.85e-02
## 1067	2.38e-03	4.44e-03	5.15e-03	6.59e-03	3.98e-04	-6.95e-04	2.59e-02
## 1068	-1.50e-02	-6.80e-03	-2.39e-02	3.06e-02	-2.64e-02	-2.12e-03	-5.84e-02
## 1069	-2.29e-03	-7.20e-03	1.93e-02	2.14e-02	2.07e-02	-1.20e-02	-7.95e-02

## 1070	-3.83e-03	1.89e-02	1.00e-02	-1.40e-02	3.97e-03	-5.51e-04	4.50e-02
## 1071	8.82e-03	4.74e-04	3.32e-03	1.76e-02	-4.46e-03	1.54e-02	-4.29e-02
## 1072	-2.40e-03	-4.71e-03	4.51e-03	3.44e-03	-1.06e-02	9.22e-03	2.21e-02
## 1073	-8.92e-03	-1.55e-02	-2.51e-03	-8.36e-03	1.08e-03	5.24e-03	3.89e-02
## 1074	-4.66e-04	-1.88e-03	-2.20e-03	-3.76e-04	-1.11e-03	-2.10e-03	6.33e-03
## 1075	1.49e-02	4.07e-02	8.19e-03	2.84e-02	6.03e-03	2.00e-02	-9.61e-02
## 1076	1.28e-02	2.20e-02	-5.11e-03	-3.30e-04	9.32e-03	6.48e-03	4.24e-02
## 1077	1.81e-02	7.65e-03	-1.34e-02	1.71e-03	2.93e-02	9.31e-04	6.49e-02
## 1078	-5.87e-05	2.96e-03	-2.66e-03	-2.86e-03	-9.62e-04	2.23e-04	6.47e-03
## 1079	-8.74e-03	-1.76e-02	-2.98e-03	1.16e-02	-9.82e-03	5.56e-03	6.40e-02
## 1080	1.70e-02	-6.19e-03	6.20e-03	-7.13e-04	-1.66e-02	7.20e-03	-4.03e-02
## 1081	2.11e-04	1.01e-03	-5.72e-04	3.58e-04	-2.49e-05	9.95e-04	-2.89e-03
## 1082	-1.60e-02	-3.10e-03	8.25e-03	-3.72e-03	-1.39e-02	4.10e-03	-5.73e-02
## 1083	1.14e-02	-7.19e-04	-2.39e-02	2.20e-02	-1.05e-02	6.88e-03	-5.69e-02
## 1084	1.13e-02	-1.23e-02	1.55e-02	-1.51e-02	1.49e-02	-3.69e-03	4.87e-02
## 1085	7.22e-03	1.31e-03	1.74e-03	5.45e-03	-1.65e-03	1.22e-02	-3.98e-02
## 1086	1.80e-02	3.52e-03	-9.83e-03	-1.27e-02	1.99e-02	-1.25e-03	5.78e-02
## 1087	-2.87e-03	-2.37e-04	1.05e-02	-8.18e-03	-6.41e-04	3.67e-03	2.71e-02
## 1088	-8.13e-03	2.13e-03	-6.56e-03	-1.21e-02	-7.40e-03	-2.21e-03	3.36e-02
## 1089	-7.43e-03	-3.15e-03	-6.10e-03	-6.07e-04	-3.45e-03	4.11e-03	-3.08e-02
## 1090	4.04e-04	-7.59e-04	-1.42e-03	-1.21e-03	-1.24e-03	-1.75e-03	-5.76e-03
## 1091	5.55e-03	3.57e-04	6.01e-03	-6.37e-03	-3.80e-03	-9.78e-04	2.24e-02
## 1092	3.31e-02	1.25e-02	-1.07e-02	5.89e-04	3.05e-02	-1.38e-02	7.59e-02
## 1093	-1.49e-02	-1.31e-02	1.36e-02	-1.85e-02	-7.11e-03	-1.51e-02	5.52e-02
## 1094	8.92e-03	-2.08e-02	8.97e-03	-6.59e-03	-2.40e-02	3.79e-03	-6.54e-02
## 1095	-5.07e-04	2.66e-04	-4.71e-04	-3.31e-04	-4.42e-04	-2.45e-04	-1.64e-03
## 1096	4.15e-03	-4.16e-03	-1.23e-02	1.33e-02	-7.92e-03	1.28e-03	5.69e-02
## 1097	-3.85e-03	-9.60e-03	-1.04e-02	-9.07e-04	-1.48e-02	3.75e-03	3.25e-02
## 1098	-1.50e-03	-6.37e-03	2.64e-03	-2.21e-04	-4.44e-03	1.87e-03	1.26e-02
## 1099	-7.90e-03	8.70e-04	2.25e-02	-2.14e-02	1.22e-02	3.34e-03	-9.75e-02
## 1100	-2.96e-03	-6.18e-04	-3.39e-03	6.68e-03	2.43e-03	5.02e-03	3.38e-02
## 1101	-7.03e-04	-1.01e-03	-4.17e-03	3.71e-03	-1.56e-03	-2.01e-03	9.68e-03
## 1102	-2.90e-02	5.08e-03	-1.06e-02	4.36e-03	2.44e-02	-6.94e-03	7.81e-02
## 1103	-1.23e-03	9.89e-03	9.15e-03	-6.03e-03	2.21e-03	8.38e-03	2.62e-02
## 1104	1.51e-04	-3.27e-04	-1.35e-03	1.86e-03	-4.67e-04	3.55e-03	-8.00e-03
## 1105	1.17e-04	-3.74e-04	-1.16e-03	1.10e-04	-6.12e-04	3.14e-03	-6.85e-03
## 1106	1.91e-03	-7.30e-03	-6.43e-03	1.12e-02	-3.58e-03	-1.20e-03	3.28e-02
## 1107	-6.68e-04	-8.05e-04	-5.76e-04	6.89e-04	-8.19e-04	7.01e-04	-3.36e-03
## 1108	2.33e-02	9.79e-03	1.20e-02	2.84e-02	-2.15e-02	3.15e-02	-8.86e-02
## 1109	1.85e-03	-1.34e-03	-3.08e-03	-4.84e-03	3.12e-03	-4.66e-04	-1.22e-02
## 1110	-2.34e-02	1.48e-02	1.03e-02	6.02e-03	-1.24e-02	1.23e-04	-7.35e-02
## 1111	-1.60e-02	-1.05e-02	-3.38e-03	-8.03e-03	6.93e-04	-8.68e-03	6.50e-02
## 1112	3.41e-03	9.31e-03	-4.81e-03	-1.54e-03	-1.56e-04	1.45e-03	1.95e-02
## 1113	-1.35e-03	-8.76e-04	-6.49e-03	1.73e-03	-5.33e-03	-2.35e-03	1.63e-02
## 1114	-5.97e-03	2.22e-02	-7.09e-03	-1.60e-03	1.00e-02	7.15e-03	4.45e-02
## 1115	-9.44e-03	-1.70e-02	-3.80e-03	-3.06e-03	-1.87e-03	1.79e-03	4.73e-02
## 1116	1.10e-03	-1.05e-04	-2.46e-03	2.18e-03	-1.36e-03	1.52e-03	-1.08e-02
## 1117	1.54e-02	-1.94e-03	2.20e-02	-1.11e-02	2.45e-02	4.95e-03	4.91e-02
## 1118	-3.68e-03	-2.27e-03	-2.97e-03	-7.13e-04	-5.43e-03	-7.32e-04	1.35e-02
## 1119	1.93e-02	-2.68e-02	1.40e-02	1.49e-02	8.03e-03	-1.17e-02	-8.84e-02

## 1120	2.35e-03	3.07e-03	-5.48e-03	-6.87e-03	-1.31e-03	-1.18e-03	2.03e-02
## 1121	1.06e-03	-3.11e-04	-9.21e-03	-1.94e-02	-1.03e-02	4.74e-03	4.17e-02
## 1122	9.68e-03	1.21e-02	2.00e-03	-9.95e-03	8.76e-03	2.44e-03	-5.95e-02
## 1123	-1.91e-02	-1.45e-03	-2.25e-02	-1.73e-02	-3.00e-02	8.14e-03	-6.35e-02
## 1124	2.36e-03	1.16e-03	-4.81e-03	5.17e-03	2.71e-04	-3.33e-03	1.64e-02
## 1125	-2.53e-03	-8.47e-03	-7.24e-03	2.80e-04	-7.98e-03	3.37e-04	1.79e-02
## 1126	2.77e-02	-1.19e-02	-2.79e-03	-5.06e-03	2.73e-03	7.16e-03	6.83e-02
## 1127	-3.01e-05	2.66e-03	-2.50e-03	-1.24e-03	-9.26e-04	7.20e-04	5.49e-03
## 1128	-1.41e-02	9.29e-03	1.62e-02	3.50e-02	2.90e-02	2.25e-03	-1.03e-01
## 1129	8.08e-03	5.25e-03	2.10e-03	1.67e-02	-2.19e-03	1.97e-02	-5.57e-02
## 1130	-2.19e-03	-5.07e-03	3.17e-03	2.65e-03	-8.41e-03	7.69e-03	2.03e-02
## 1131	1.00e-02	-8.18e-03	1.50e-02	4.28e-03	2.10e-02	-6.75e-03	4.74e-02
## 1132	1.72e-04	1.57e-03	-7.59e-04	-1.30e-03	-1.31e-03	2.91e-03	6.44e-03
## 1133	7.28e-05	-6.28e-04	-1.74e-03	5.63e-04	-2.59e-03	5.34e-03	-1.14e-02
## 1134	9.38e-05	2.45e-04	-1.84e-03	-6.68e-03	-4.25e-03	8.13e-03	-1.57e-02
## 1135	8.29e-03	-6.32e-03	-1.07e-02	-2.24e-02	-1.51e-02	-1.91e-03	6.25e-02
## 1136	-1.22e-03	3.95e-03	3.64e-03	4.63e-03	-6.86e-03	4.28e-03	2.34e-02
## 1137	-7.57e-03	1.30e-02	6.63e-03	-4.21e-03	-6.78e-04	-1.15e-02	3.69e-02
## 1138	-2.87e-03	-6.34e-03	-1.03e-02	4.34e-03	-1.22e-02	8.15e-03	2.73e-02
## 1139	1.86e-02	7.63e-03	-9.96e-03	-1.51e-02	1.84e-02	-2.36e-03	8.63e-02
## 1140	2.16e-03	-3.42e-03	1.43e-02	-7.79e-03	-6.85e-03	6.41e-04	4.58e-02
## 1141	3.05e-02	-7.21e-03	1.39e-02	2.74e-03	1.25e-02	-2.17e-02	-7.59e-02
## 1142	1.20e-02	-8.31e-03	-8.41e-03	-1.74e-02	1.50e-02	2.48e-04	5.25e-02
## 1143	4.10e-03	2.01e-03	4.36e-03	6.22e-03	4.90e-03	-4.52e-04	2.24e-02
## 1144	1.35e-02	4.44e-03	-1.19e-02	5.19e-04	-2.05e-02	3.05e-03	7.02e-02
## 1145	7.58e-03	-3.21e-03	2.08e-03	-1.32e-03	-7.31e-03	1.13e-02	-2.83e-02
## 1146	7.71e-03	4.43e-03	5.80e-03	-1.56e-02	-1.62e-02	1.71e-02	-5.28e-02
## 1147	-2.08e-02	-1.18e-02	-7.31e-03	5.94e-03	-2.65e-03	-4.51e-03	5.35e-02
## 1148	-2.50e-03	-4.66e-03	4.09e-03	-2.58e-03	-1.12e-02	9.32e-03	2.03e-02
## 1149	1.11e-02	-1.05e-03	1.68e-02	1.17e-02	-5.99e-03	4.30e-03	5.18e-02
## 1150	4.61e-03	-6.64e-04	-3.72e-03	6.09e-03	-1.95e-03	-6.46e-04	1.73e-02
## 1151	-7.78e-05	1.48e-03	-2.01e-03	-1.83e-03	-7.83e-04	-6.61e-04	5.20e-03
## 1152	-4.75e-03	-1.85e-03	-3.34e-03	-1.98e-04	1.12e-03	-1.41e-04	-1.24e-02
## 1153	4.21e-05	-1.04e-03	-6.69e-04	-2.00e-03	-6.87e-04	1.63e-03	-4.84e-03
## 1154	2.33e-02	4.38e-03	-2.89e-03	3.95e-06	-2.79e-04	9.62e-03	4.45e-02
## 1155	-1.19e-02	-1.40e-02	-3.73e-03	-6.69e-04	-6.13e-04	3.34e-03	3.82e-02
## 1156	-1.51e-02	-6.59e-03	3.54e-03	-1.47e-03	-9.96e-03	5.55e-03	-4.26e-02
## 1157	-1.70e-02	-6.94e-03	-6.64e-03	7.51e-03	7.70e-03	-9.70e-03	8.53e-02
## 1158	-1.06e-02	-8.35e-03	1.91e-02	-1.55e-02	6.84e-03	-2.41e-02	-9.81e-02
## 1159	2.87e-03	2.22e-03	2.01e-03	1.92e-03	1.52e-03	-5.49e-04	-9.36e-03
## 1160	-1.78e-02	-2.32e-03	3.74e-03	2.16e-02	-9.03e-03	1.27e-02	-5.48e-02
## 1161	2.51e-03	-1.50e-03	1.72e-03	1.46e-03	2.43e-03	-5.01e-04	-8.71e-03
## 1162	-4.91e-04	2.10e-04	1.37e-03	-2.12e-03	-1.73e-03	7.85e-04	6.17e-03
## 1163	8.30e-04	4.11e-04	-1.32e-02	7.51e-04	-1.35e-02	3.23e-03	5.02e-02
## 1164	5.40e-03	1.45e-02	-9.91e-03	-6.26e-03	-4.01e-03	5.26e-03	4.04e-02
## 1165	-6.39e-04	3.56e-03	1.85e-03	2.33e-03	-4.76e-03	6.57e-03	1.54e-02
## 1166	9.39e-03	-2.58e-03	-4.13e-03	3.69e-04	-5.26e-04	-8.18e-03	3.65e-02
## 1167	-4.42e-05	-2.55e-04	2.71e-04	-3.61e-04	5.03e-05	-5.47e-04	-1.39e-03
## 1168	9.99e-03	-7.18e-03	9.79e-03	-1.98e-02	-1.06e-02	-2.20e-02	-1.06e-01
## 1169	-1.68e-02	-1.02e-02	-2.15e-03	1.04e-02	-1.68e-04	-7.96e-03	8.06e-02

## 1170	1.09e-02	1.47e-02	3.69e-02	1.06e-02	5.56e-02	-3.93e-02	-9.21e-02
## 1171	4.04e-03	2.07e-02	-1.14e-02	1.39e-02	-6.31e-03	1.66e-03	5.07e-02
## 1172	1.45e-02	7.32e-04	-1.18e-02	-1.21e-02	1.96e-02	-9.11e-03	6.65e-02
## 1173	9.86e-03	5.42e-03	3.29e-03	7.43e-03	-9.52e-03	3.23e-02	-5.87e-02
## 1174	-3.86e-03	6.86e-03	4.62e-03	7.06e-03	-1.84e-03	-1.07e-03	2.09e-02
## 1175	8.00e-03	1.05e-02	6.11e-03	-4.52e-03	-1.59e-02	2.19e-02	-5.99e-02
## 1176	2.28e-02	-1.51e-02	-2.91e-03	9.47e-03	4.73e-04	-4.02e-03	6.48e-02
## 1177	2.21e-03	5.59e-03	-3.09e-03	-3.58e-03	9.22e-04	1.02e-03	1.21e-02
## 1178	-2.01e-02	9.89e-03	1.35e-02	3.43e-02	2.99e-02	-1.64e-03	-1.02e-01
## 1179	-8.28e-03	-1.68e-02	-5.66e-03	5.50e-03	-5.78e-03	-5.26e-03	4.03e-02
## 1180	-2.53e-03	-1.38e-05	-4.26e-03	7.07e-03	6.48e-03	5.64e-03	3.92e-02
## 1181	2.49e-02	-1.11e-02	-1.20e-02	1.98e-02	1.86e-02	-1.77e-02	7.45e-02
## 1182	3.55e-02	-5.08e-03	1.21e-02	-3.39e-04	1.90e-02	-2.86e-03	-6.57e-02
## 1183	6.44e-04	-5.69e-04	-1.09e-03	-1.06e-03	-4.28e-04	-2.12e-04	4.70e-03
## 1184	2.16e-03	1.16e-02	1.22e-02	-6.62e-03	1.01e-03	1.59e-02	3.71e-02
## 1185	-2.40e-03	5.07e-03	-6.82e-03	7.01e-03	1.12e-02	-2.91e-03	4.65e-02
## 1186	-2.53e-02	1.25e-03	3.01e-02	-1.73e-02	3.22e-02	-2.08e-02	8.39e-02
## 1187	-9.55e-03	1.10e-02	-6.47e-03	7.68e-03	7.38e-03	-6.60e-03	5.29e-02
## 1188	5.78e-04	1.23e-03	-9.96e-04	-2.44e-04	-1.47e-04	-4.54e-04	3.37e-03
## 1189	-1.81e-02	-1.88e-03	4.89e-03	-2.36e-03	-1.09e-02	1.40e-02	-4.41e-02
## 1190	-1.55e-03	3.08e-03	2.67e-03	3.89e-03	1.36e-05	-2.51e-04	1.10e-02
## 1191	1.99e-03	-2.05e-03	1.15e-02	8.90e-04	-3.27e-03	3.07e-03	3.39e-02
## 1192	-3.03e-02	-3.02e-03	-8.64e-03	4.13e-03	-1.78e-02	-6.73e-04	6.48e-02
## 1193	2.50e-03	-1.83e-03	-3.15e-03	-2.44e-03	1.82e-03	-2.10e-04	-1.13e-02
## 1194	-2.74e-03	-7.12e-03	-8.45e-03	-6.67e-03	-1.20e-02	5.26e-03	2.41e-02
## 1195	-1.20e-05	1.42e-03	-1.56e-03	-1.52e-03	-2.86e-04	-3.93e-04	3.82e-03
## 1196	1.32e-02	-4.55e-03	2.16e-02	4.88e-03	2.16e-02	-7.51e-03	6.38e-02
## 1197	-7.20e-03	7.96e-03	-4.60e-03	-4.92e-03	7.04e-03	-6.01e-03	4.95e-02
## 1198	1.72e-03	6.49e-05	-1.01e-02	1.22e-03	-8.87e-03	3.95e-03	3.94e-02
## 1199	1.17e-02	-1.10e-02	8.63e-03	2.84e-02	-1.02e-02	-1.44e-02	-9.94e-02
## 1200	4.49e-06	-1.41e-04	-1.44e-04	-3.87e-04	-7.61e-05	3.47e-04	-9.39e-04
## 1201	6.58e-03	-4.91e-03	1.22e-02	-9.19e-03	1.70e-03	1.17e-02	4.62e-02
## 1202	-1.02e-02	-8.40e-03	6.76e-03	-8.46e-04	-1.42e-02	4.04e-03	-3.61e-02
## 1203	1.90e-02	1.22e-02	-1.28e-02	1.40e-03	2.97e-02	-1.49e-04	5.66e-02
## 1204	-2.00e-02	-1.07e-02	-9.32e-03	-1.12e-02	-1.21e-02	-5.81e-03	6.06e-02
## 1205	-1.73e-02	-6.34e-03	5.43e-03	-6.75e-04	-1.55e-02	6.76e-03	-3.94e-02
## 1206	1.03e-02	2.10e-03	-5.08e-03	5.89e-03	5.78e-03	2.64e-03	2.87e-02
## 1207	-1.72e-02	1.32e-03	1.22e-02	-4.13e-03	-2.54e-02	-2.85e-03	-5.83e-02
## 1208	4.13e-02	1.38e-02	1.59e-02	-4.74e-03	1.72e-02	5.66e-03	-9.39e-02
## 1209	1.78e-02	8.99e-03	-1.24e-02	1.50e-03	2.64e-02	1.84e-03	5.27e-02
## 1210	1.19e-04	1.64e-04	-2.40e-03	4.24e-03	-3.47e-03	7.53e-03	-1.62e-02
## 1211	1.95e-02	3.66e-04	5.00e-03	2.14e-02	-1.08e-02	5.10e-03	-5.07e-02
## 1212	1.83e-02	-3.52e-03	7.28e-03	-1.61e-03	-1.84e-02	6.53e-03	-4.98e-02
## 1213	1.76e-05	-1.42e-03	-1.26e-03	9.34e-04	-1.44e-03	2.83e-03	-8.00e-03
## 1214	-6.72e-04	-2.28e-03	-2.59e-03	-3.25e-04	-1.34e-03	-3.43e-03	8.38e-03
## 1215	-2.31e-02	2.31e-03	4.61e-03	9.30e-03	-8.53e-03	6.70e-03	-5.74e-02
## 1216	-1.06e-02	-1.63e-02	-3.73e-03	-7.89e-04	-1.21e-02	2.68e-03	3.85e-02
## 1217	-2.47e-02	-7.44e-03	1.38e-02	-1.88e-02	-9.31e-03	-2.40e-03	5.13e-02
## 1218	8.50e-03	3.64e-03	-1.34e-02	1.27e-02	-5.51e-03	1.97e-02	5.83e-02
## 1219	-8.33e-03	-1.88e-03	-4.03e-03	-9.13e-03	-1.92e-03	9.30e-04	-2.29e-02

##	1220	-1.05e-02	-7.98e-03	6.25e-03	-1.45e-03	-1.47e-02	3.97e-03	-3.55e-02
##	1221	-6.27e-03	-5.47e-03	2.13e-02	-1.80e-02	1.11e-02	-2.04e-02	-7.79e-02
##	1222	2.14e-02	1.47e-02	1.19e-02	-3.81e-03	1.33e-02	1.23e-04	-9.31e-02
##	1223	1.33e-04	-1.76e-04	-1.66e-03	2.15e-03	-6.36e-04	4.31e-03	-9.74e-03
##	1224	1.18e-02	8.42e-03	1.24e-02	-1.37e-02	1.31e-02	-4.87e-03	4.39e-02
##	1225	-9.28e-03	-1.79e-02	-4.82e-03	2.32e-02	1.02e-03	3.89e-03	6.18e-02
##	1226	3.41e-03	-1.89e-03	-2.49e-03	1.14e-04	9.21e-04	-3.94e-04	-1.13e-02
##	1227	1.67e-02	-1.44e-02	1.86e-02	6.52e-03	7.10e-03	6.19e-04	4.70e-02
##	1228	-1.63e-02	-8.39e-03	8.68e-03	-6.06e-03	-5.74e-03	-2.35e-03	3.52e-02
##	1229	-3.42e-02	1.99e-02	-3.32e-02	-8.34e-03	-2.94e-02	-1.56e-03	-8.73e-02
##	1230	1.88e-04	7.82e-05	-1.81e-03	2.67e-03	-1.15e-03	5.08e-03	-1.10e-02
##	1231	-1.82e-03	-1.43e-03	-2.84e-03	3.10e-03	2.74e-03	2.78e-03	2.19e-02
##	1232	1.69e-02	-4.67e-04	-3.30e-03	1.44e-02	-1.27e-03	5.00e-03	3.69e-02
##	1233	-1.08e-02	-8.01e-03	6.30e-03	-1.29e-03	-1.57e-02	4.38e-03	-3.60e-02
##	1234	-7.08e-04	2.19e-03	1.99e-03	2.79e-03	-3.56e-03	3.37e-03	1.11e-02
##	1235	7.92e-03	-1.62e-03	1.02e-03	-3.04e-03	-3.51e-03	7.23e-03	-3.28e-02
##	1236	8.88e-03	-4.59e-04	-1.05e-02	-1.26e-02	-1.39e-02	4.61e-04	6.04e-02
##	1237	-2.55e-03	-8.67e-03	-8.09e-03	5.78e-03	-8.41e-03	8.35e-04	2.03e-02
##	1238	-2.46e-02	-1.02e-02	-9.62e-03	1.49e-02	-1.15e-02	-4.19e-03	5.01e-02
##	1239	4.28e-03	-6.13e-03	9.33e-03	1.63e-03	5.86e-04	4.65e-03	4.05e-02
##	1240	-6.16e-03	-5.61e-03	-2.47e-02	3.47e-03	8.71e-03	-2.25e-02	-7.11e-02
##	1241	1.32e-02	3.94e-02	-2.27e-02	6.15e-02	4.73e-02	-2.56e-02	-1.09e-01
##	1242	-1.68e-02	-2.35e-03	-4.54e-03	7.57e-03	9.97e-03	-5.96e-03	8.21e-02
##	1243	-1.03e-02	-1.69e-02	-4.44e-03	8.16e-03	-4.04e-04	-2.57e-04	5.12e-02
##	1244	1.50e-02	1.26e-02	1.63e-02	-1.74e-02	1.72e-02	-4.65e-03	5.51e-02
##	1245	-2.45e-02	6.06e-03	-2.61e-02	-3.60e-03	-2.21e-02	1.63e-02	-6.81e-02
##	1246	-6.24e-03	-5.83e-03	-2.39e-02	-1.73e-02	7.15e-03	-2.10e-02	-7.25e-02
##	1247	8.27e-04	7.43e-03	8.66e-03	-5.98e-03	3.45e-03	5.29e-03	2.42e-02
##	1248	-1.34e-02	-7.92e-03	-2.36e-02	-5.01e-04	-2.98e-02	1.05e-02	-5.86e-02
##	1249	-2.50e-03	-4.54e-03	4.04e-03	-2.77e-03	-1.09e-02	9.06e-03	2.02e-02
##	1250	1.88e-02	-4.10e-03	6.77e-03	-1.90e-03	-1.61e-02	6.03e-03	-4.32e-02
##	1251	1.36e-02	8.69e-03	7.89e-03	-6.46e-04	7.23e-03	3.42e-03	2.89e-02
##	1252	-1.49e-02	-9.29e-04	1.94e-02	1.97e-03	8.41e-03	-2.72e-02	-9.32e-02
##	1253	1.57e-03	-7.07e-04	2.57e-03	-3.06e-04	2.93e-03	-1.54e-03	-9.99e-03
##	1254	-1.59e-02	5.43e-03	1.35e-02	5.80e-03	3.74e-03	-5.55e-04	5.19e-02
##	1255	-2.34e-05	-7.19e-04	-3.44e-04	-9.55e-04	-2.57e-04	5.00e-04	-2.33e-03
##	1256	1.12e-02	-1.69e-02	-4.08e-02	8.04e-03	-1.46e-02	-1.17e-02	-1.03e-01
##	1257	1.98e-03	5.31e-03	-1.24e-02	1.17e-02	-8.98e-03	4.59e-03	4.79e-02
##	1258	1.50e-02	-1.88e-03	-1.33e-02	2.80e-03	2.76e-02	-1.68e-02	7.65e-02
##	1259	2.60e-03	2.27e-04	-1.02e-02	1.97e-03	-7.89e-03	3.12e-03	4.63e-02
##	1260	2.94e-02	3.40e-02	3.10e-03	2.23e-02	1.52e-02	-2.91e-02	-1.11e-01
##	1261	3.55e-04	3.37e-03	-1.81e-03	-1.61e-04	2.45e-03	5.44e-03	1.45e-02
##	1262	-3.57e-03	1.37e-04	1.19e-02	-2.32e-03	5.47e-03	6.97e-03	4.26e-02
##	1263	1.59e-02	1.19e-02	-1.25e-02	4.04e-03	2.11e-02	-1.71e-02	9.27e-02
##	1264	-3.03e-04	-1.88e-04	1.58e-04	1.66e-04	1.50e-04	-8.22e-06	-8.22e-04
##	1265	7.58e-03	8.54e-04	1.34e-02	-2.20e-02	7.08e-03	-1.76e-02	-9.68e-02
##	1266	7.86e-08	8.04e-07	1.35e-06	-1.03e-06	3.65e-07	1.08e-06	3.81e-06
##	1267	1.19e-04	-5.46e-04	-1.22e-03	3.70e-04	-6.27e-04	3.08e-03	-7.30e-03
##	1268	3.85e-03	-1.68e-03	-2.53e-03	2.02e-03	-3.26e-05	-3.01e-03	1.26e-02
##	1269	-2.05e-03	-5.66e-03	3.16e-03	3.12e-03	-7.79e-03	6.33e-03	1.88e-02

## 1270	1.12e-02	-1.32e-02	-6.13e-03	8.59e-03	9.52e-04	-4.63e-03	4.99e-02
## 1271	-4.64e-04	9.37e-03	-3.47e-03	-5.90e-03	1.39e-03	1.17e-02	2.72e-02
## 1272	-2.77e-03	-4.55e-03	-3.24e-03	-7.51e-03	-2.99e-03	2.87e-03	-1.89e-02
## 1273	1.09e-04	4.94e-05	-3.27e-05	4.55e-05	1.45e-05	5.57e-05	2.28e-04
## 1274	1.29e-04	-5.15e-05	3.30e-03	-7.89e-05	-1.57e-03	4.87e-03	-9.37e-03
## 1275	-3.72e-03	-2.48e-03	5.56e-03	-2.40e-03	9.18e-04	-3.24e-03	2.28e-02
## 1276	-8.37e-04	1.01e-03	-5.80e-03	-7.27e-03	-4.72e-03	1.50e-03	1.52e-02
## 1277	1.86e-04	1.65e-03	-7.94e-04	-1.36e-03	-1.34e-03	3.02e-03	6.76e-03
## 1278	-7.50e-04	-5.36e-04	-3.84e-03	-4.44e-03	-2.65e-03	-4.96e-04	9.34e-03
## 1279	-2.84e-02	2.15e-03	-1.26e-02	1.50e-02	-1.98e-02	-1.52e-03	6.78e-02
## 1280	7.51e-04	5.88e-03	-2.92e-03	4.55e-03	1.32e-04	8.08e-03	2.01e-02
## 1281	8.56e-06	-1.02e-03	-1.21e-03	-4.17e-03	-2.16e-03	3.93e-03	-9.54e-03
## 1282	8.89e-03	-3.61e-03	2.44e-03	-1.68e-03	-6.43e-03	8.26e-03	-3.88e-02
## 1283	-1.36e-02	1.18e-02	1.43e-02	-1.07e-02	-3.46e-03	-1.08e-02	5.40e-02
## 1284	-9.73e-03	-2.11e-02	-5.29e-03	8.45e-03	1.95e-03	-1.78e-02	6.24e-02
## 1285	8.80e-05	-8.89e-04	-1.22e-03	-3.84e-03	-1.99e-03	4.29e-03	-9.44e-03
## 1286	-2.20e-03	3.89e-03	-3.68e-03	3.53e-03	1.46e-03	3.00e-03	-1.52e-02
## 1287	6.02e-04	-5.93e-04	-8.65e-04	-4.44e-05	9.14e-04	-1.40e-04	-3.13e-03
## 1288	-1.62e-02	7.71e-05	-2.41e-02	-2.17e-03	-3.43e-02	8.34e-03	-7.69e-02
## 1289	5.58e-04	-6.30e-04	-1.03e-03	7.93e-04	7.62e-04	-1.45e-04	-3.32e-03
## 1290	6.54e-04	3.08e-03	-1.47e-03	-2.70e-03	-2.26e-04	4.87e-03	1.12e-02
## 1291	-6.23e-03	-1.46e-03	-2.57e-02	1.94e-03	8.81e-03	-2.13e-02	-7.32e-02
## 1292	1.32e-03	-7.60e-04	1.39e-03	1.32e-03	1.33e-03	-7.35e-04	-6.62e-03
## 1293	2.84e-02	-1.60e-03	3.30e-02	-3.00e-02	1.86e-02	6.73e-04	8.27e-02
## 1294	1.88e-02	8.28e-03	3.09e-02	2.25e-03	3.17e-02	-5.24e-03	6.70e-02
## 1295	-8.50e-03	2.59e-03	8.95e-03	2.53e-03	-6.42e-04	-6.77e-03	4.02e-02
## 1296	-5.99e-03	-2.82e-04	2.05e-02	-2.45e-03	1.72e-02	-1.89e-02	-8.02e-02
## 1297	7.11e-04	2.99e-03	-1.32e-03	1.40e-04	-6.46e-04	4.85e-03	1.05e-02
## 1298	-3.68e-03	-3.75e-03	6.84e-03	-3.34e-04	-2.09e-03	2.61e-03	-2.18e-02
## 1299	-1.45e-03	2.23e-03	-2.32e-03	3.36e-03	-2.80e-04	-9.14e-04	8.67e-03
## 1300	1.86e-04	2.16e-04	-2.43e-03	4.35e-03	-3.42e-03	7.72e-03	-1.66e-02
## 1301	1.68e-02	-3.11e-03	3.06e-03	1.80e-02	-4.17e-03	3.04e-03	-4.81e-02
## 1302	1.09e-02	-9.75e-03	-7.76e-03	-1.62e-02	-1.20e-02	6.80e-04	4.72e-02
## 1303	1.56e-03	3.24e-02	-5.38e-02	2.26e-03	1.28e-02	-5.24e-02	-1.39e-01
## 1304	-6.08e-03	-2.28e-04	-3.91e-03	5.44e-03	-1.44e-03	-3.64e-03	1.55e-02
## 1305	-1.60e-02	-3.36e-03	2.52e-03	-3.12e-03	-7.45e-03	6.09e-03	-4.04e-02
## 1306	-2.04e-02	-4.76e-04	4.63e-03	-4.14e-03	-1.08e-02	4.30e-03	-4.40e-02
## 1307	9.15e-03	8.12e-03	2.53e-03	-8.13e-03	-6.68e-03	1.92e-03	-4.99e-02
## 1308	-1.10e-02	2.06e-03	-7.03e-03	-2.78e-03	-1.56e-04	-2.29e-03	3.69e-02
## 1309	-5.69e-03	-6.86e-04	-2.96e-03	-3.89e-03	-3.05e-03	7.21e-04	1.40e-02
## 1310	9.76e-03	3.70e-02	5.81e-03	-1.57e-02	7.48e-03	4.46e-03	-8.53e-02
## 1311	-3.68e-02	-8.60e-03	1.82e-02	-1.76e-02	-2.97e-02	9.31e-03	-1.07e-01
## 1312	1.41e-04	3.91e-03	7.05e-04	-1.93e-03	-8.84e-04	2.18e-03	7.00e-03
## 1313	-3.13e-03	-5.88e-03	-1.08e-02	4.97e-03	-1.43e-02	8.44e-03	2.59e-02
## 1314	-3.61e-03	-6.45e-03	6.29e-03	5.25e-03	-1.59e-02	8.69e-03	3.19e-02
## 1315	-2.58e-02	-5.13e-03	-1.28e-02	1.27e-03	-9.88e-03	-6.70e-03	5.49e-02
## 1316	1.12e-02	1.94e-02	4.00e-02	-1.40e-02	5.20e-02	-4.00e-02	-1.08e-01
## 1317	-9.25e-03	4.35e-03	1.06e-02	1.25e-02	1.49e-02	-6.06e-03	4.21e-02
## 1318	-2.59e-03	3.64e-03	4.24e-03	3.68e-03	9.81e-04	1.94e-03	-1.51e-02
## 1319	-2.87e-03	-6.61e-03	-8.98e-03	-1.40e-02	-1.41e-02	7.65e-03	2.91e-02

## 1320	2.89e-05	-9.43e-05	4.58e-04	2.98e-04	2.13e-05	6.41e-04	-1.47e-03
## 1321	9.90e-03	2.92e-02	-1.78e-02	-1.74e-02	4.12e-02	-3.60e-02	-1.02e-01
## 1322	-1.06e-02	-1.02e-02	6.52e-03	-6.16e-04	-1.30e-02	-6.72e-04	-4.13e-02
## 1323	5.28e-03	-1.04e-03	-3.65e-03	-5.05e-03	9.03e-04	-2.91e-03	1.99e-02
## 1324	3.16e-03	-3.29e-03	8.77e-03	2.56e-02	6.69e-03	-3.16e-02	-8.99e-02
## 1325	3.79e-03	-8.38e-03	7.15e-03	2.18e-03	-1.75e-03	-1.38e-03	2.88e-02
## 1326	1.87e-04	-1.46e-05	-2.43e-03	3.69e-03	-2.74e-03	7.58e-03	-1.63e-02
## 1327	2.70e-03	3.67e-03	-6.16e-03	-3.15e-03	-3.27e-04	3.08e-04	2.10e-02
## 1328	9.74e-03	8.60e-03	-1.44e-02	1.20e-02	-8.50e-03	2.79e-02	6.55e-02
## 1329	2.56e-04	-4.72e-04	-1.57e-03	2.45e-03	-4.87e-04	4.05e-03	-9.65e-03
## 1330	3.40e-03	-8.28e-04	-4.76e-03	6.93e-03	4.17e-03	-3.67e-03	2.06e-02
## 1331	-1.01e-02	-1.27e-02	1.40e-02	2.59e-03	1.69e-02	-3.34e-02	-8.19e-02
## 1332	-5.44e-03	-8.27e-03	2.00e-02	-1.73e-02	1.42e-02	-1.98e-02	-6.66e-02
## 1333	1.36e-02	-4.48e-04	2.34e-02	-2.49e-02	2.33e-02	-4.38e-03	6.47e-02
## 1334	-5.14e-07	2.19e-04	6.89e-05	-2.37e-04	-2.74e-05	2.24e-05	4.79e-04
## 1335	1.04e-02	1.96e-02	-1.80e-02	-1.38e-02	4.51e-02	-3.84e-02	-9.06e-02
## 1336	8.62e-03	4.44e-02	4.69e-03	2.58e-03	2.66e-02	-3.75e-02	-1.03e-01
## 1337	-1.57e-02	-5.54e-04	1.65e-02	2.09e-02	1.83e-02	-1.21e-02	-8.67e-02
## 1338	2.22e-04	7.88e-03	1.21e-03	2.25e-03	-1.78e-03	3.93e-03	1.22e-02
## 1339	-8.60e-04	-7.32e-04	-7.71e-04	-8.21e-05	-9.07e-04	1.16e-04	3.58e-03
## 1340	-1.62e-03	-7.66e-03	3.26e-03	4.58e-03	-4.08e-03	-4.52e-04	1.58e-02
## 1341	-6.85e-04	2.84e-03	-4.04e-03	-1.42e-03	-2.17e-03	1.61e-02	4.12e-02
## 1342	1.85e-02	4.60e-03	7.95e-03	-4.81e-03	-9.94e-03	1.12e-02	-5.82e-02
## 1343	8.10e-05	8.36e-03	-6.09e-03	3.38e-03	-2.42e-03	2.46e-03	1.40e-02
## 1344	-2.11e-02	-3.24e-03	6.47e-03	-2.31e-03	-1.58e-02	4.30e-03	-5.13e-02
## 1345	-1.36e-02	-1.69e-02	-5.17e-03	7.63e-03	-6.76e-03	-6.86e-03	5.51e-02
## 1346	-2.07e-03	-2.45e-03	-2.04e-03	-4.57e-03	-6.16e-04	1.14e-03	-1.10e-02
## 1347	-2.52e-03	-7.11e-03	-9.03e-03	-1.29e-03	-1.10e-02	6.28e-03	2.28e-02
## 1348	1.09e-03	-8.97e-05	-3.00e-03	2.57e-03	-1.45e-03	9.09e-04	-1.29e-02
## 1349	6.40e-05	3.70e-04	3.57e-04	-2.02e-04	-3.33e-05	4.84e-04	-1.07e-03
## 1350	-2.47e-02	7.40e-03	6.29e-03	-5.35e-03	-1.24e-02	1.05e-02	-6.24e-02
## 1351	-3.06e-03	-6.37e-03	-9.91e-03	-1.68e-03	-1.41e-02	7.90e-03	2.39e-02
## 1352	1.89e-02	8.82e-03	-1.07e-02	-1.54e-02	2.28e-02	-3.50e-03	6.33e-02
## 1353	-6.94e-03	-1.71e-02	-3.67e-03	-1.39e-02	-5.93e-03	2.06e-04	4.70e-02
## 1354	1.72e-02	3.88e-03	2.44e-02	1.76e-02	3.23e-02	3.10e-04	5.58e-02
## 1355	8.79e-03	-1.76e-03	2.48e-03	-2.26e-03	-7.07e-03	1.02e-02	-3.21e-02
## 1356	8.05e-03	-2.23e-03	1.17e-03	-2.55e-03	-2.92e-03	7.28e-03	-3.19e-02
## 1357	-1.11e-02	-6.09e-03	-2.32e-02	-1.22e-03	-2.14e-02	1.26e-02	-5.79e-02
## 1358	-1.33e-02	-8.22e-03	9.21e-03	-7.36e-04	-2.13e-02	8.44e-04	-3.98e-02
## 1359	3.07e-03	-1.41e-03	-5.79e-03	4.06e-03	5.31e-03	-2.01e-03	-1.73e-02
## 1360	2.28e-03	-2.11e-03	-2.92e-03	6.23e-04	8.92e-04	7.09e-04	-1.07e-02
## 1361	4.72e-02	4.47e-02	1.47e-02	2.77e-02	4.18e-03	2.00e-02	-1.38e-01
## 1362	-1.71e-02	-3.20e-03	4.30e-03	-2.77e-03	-1.12e-02	8.20e-03	-4.37e-02
## 1363	1.35e-02	-1.25e-02	-3.29e-03	1.07e-02	4.10e-03	6.18e-03	5.13e-02
## 1364	3.59e-03	-9.46e-04	2.58e-03	1.66e-03	4.03e-03	1.24e-04	1.03e-02
## 1365	9.25e-04	-7.44e-03	-7.63e-03	1.22e-02	-6.81e-03	-3.96e-03	3.57e-02
## 1366	-9.46e-06	4.46e-03	-3.60e-03	-4.01e-03	-1.62e-03	1.06e-03	8.99e-03
## 1367	-1.45e-02	-7.26e-03	3.74e-03	-6.64e-04	-9.40e-03	5.21e-03	-3.96e-02
## 1368	-1.47e-02	-7.56e-03	3.05e-02	2.11e-02	2.11e-02	-1.54e-02	7.23e-02
## 1369	-2.20e-03	-5.04e-03	3.36e-03	2.70e-03	-8.67e-03	8.18e-03	2.13e-02

## 1370	-2.19e-04	2.80e-04	-2.92e-04	4.10e-04	-1.19e-04	-1.51e-04	1.06e-03
## 1371	-1.68e-06	2.54e-04	-3.16e-04	-3.01e-04	-7.32e-05	-1.24e-05	7.28e-04
## 1372	2.18e-02	-2.92e-02	1.67e-02	-1.91e-02	1.10e-02	9.40e-03	-8.17e-02
## 1373	-1.08e-02	-1.42e-03	-6.75e-03	5.68e-03	2.81e-03	-9.55e-04	-2.56e-02
## 1374	5.63e-03	-1.10e-02	-3.15e-03	-6.69e-03	-8.36e-03	1.44e-03	2.97e-02
## 1375	-2.66e-03	-1.36e-03	2.83e-03	1.87e-03	-2.44e-03	3.59e-03	-1.21e-02
## 1376	-1.43e-03	-1.81e-03	-1.96e-03	-5.00e-03	7.71e-04	5.33e-03	1.97e-02
## 1377	1.83e-02	9.43e-03	2.66e-02	1.76e-02	3.75e-02	-2.94e-03	6.12e-02
## 1378	-4.07e-04	-1.52e-03	1.26e-03	2.65e-03	-6.44e-04	-1.69e-03	6.69e-03
## 1379	-3.51e-03	-7.80e-03	1.55e-02	3.61e-02	2.32e-02	-1.71e-02	-7.64e-02
## 1380	-1.81e-02	1.22e-03	1.07e-02	-6.16e-03	-2.23e-02	-4.66e-03	-5.92e-02
## 1381	-2.18e-04	8.01e-03	-4.47e-03	-1.24e-03	4.68e-03	1.36e-03	2.26e-02
## 1382	6.27e-04	-8.49e-04	-1.33e-03	8.86e-05	9.29e-04	-4.47e-04	-4.17e-03
## 1383	3.24e-04	3.38e-04	-1.95e-03	2.92e-03	-1.50e-03	6.29e-03	-1.25e-02
## 1384	1.21e-02	-6.99e-03	-1.06e-02	-9.81e-03	-1.35e-02	2.06e-03	5.47e-02
## 1385	2.07e-02	9.00e-03	4.78e-03	-1.02e-02	7.67e-04	8.31e-03	-6.78e-02
## 1386	8.02e-03	-2.74e-03	-4.86e-03	-4.16e-04	-2.88e-04	9.68e-04	-2.46e-02
## 1387	1.80e-02	-6.92e-03	-8.40e-03	8.48e-03	1.31e-02	-1.05e-02	6.46e-02
## 1388	-1.93e-04	-3.64e-04	5.22e-04	-6.89e-04	-3.69e-04	-1.27e-04	2.51e-03
## 1389	-2.41e-03	-4.83e-03	4.52e-03	3.61e-03	-1.10e-02	9.50e-03	2.22e-02
## 1390	-1.48e-04	-3.19e-03	-2.60e-03	5.65e-03	-9.90e-04	6.40e-03	2.33e-02
## 1391	2.64e-02	-7.96e-03	1.79e-02	-1.49e-02	3.29e-02	2.70e-03	-1.02e-01
## 1392	2.21e-03	-2.09e-04	8.49e-03	1.59e-03	2.88e-03	-3.06e-02	-9.19e-02
## 1393	-2.80e-02	2.91e-03	-1.22e-02	-1.67e-02	2.11e-02	-1.84e-02	8.09e-02
## 1394	1.31e-02	-1.10e-02	-9.59e-03	6.24e-03	1.61e-02	-1.07e-02	5.82e-02
## 1395	-4.82e-04	1.04e-03	1.53e-03	2.51e-03	-2.52e-03	2.75e-03	9.71e-03
## 1396	-2.14e-03	-5.31e-03	3.31e-03	2.83e-03	-8.10e-03	7.32e-03	2.04e-02
## 1397	8.97e-03	-2.34e-03	2.27e-03	7.32e-03	-6.02e-03	1.94e-02	-4.67e-02
## 1398	3.54e-02	8.05e-03	1.61e-02	-2.63e-03	6.27e-03	-1.30e-02	-9.57e-02
## 1399	-2.55e-02	-9.88e-04	-1.07e-02	5.93e-04	-1.65e-02	-1.21e-03	6.18e-02
## 1400	-1.12e-04	1.78e-03	7.20e-04	-1.95e-03	-7.16e-04	-1.61e-04	4.68e-03
## 1401	-1.21e-02	-7.19e-03	-2.01e-02	-8.87e-04	-2.17e-02	5.02e-03	-4.46e-02
## 1402	4.30e-05	-2.07e-04	8.21e-04	7.14e-05	-3.78e-05	8.98e-04	-2.51e-03
## 1403	-1.20e-02	2.40e-02	-1.16e-02	8.68e-03	5.51e-03	2.56e-03	5.15e-02
## 1404	-6.61e-04	-2.56e-03	-2.83e-03	1.30e-04	-3.17e-03	9.55e-03	2.34e-02
## 1405	-1.40e-02	-1.65e-02	-5.74e-03	-1.74e-02	4.94e-03	6.99e-03	6.17e-02
## 1406	6.75e-03	-3.66e-03	1.08e-03	-1.13e-03	-3.28e-03	8.95e-03	-2.57e-02
## 1407	-1.25e-02	-9.26e-03	-3.01e-03	-2.68e-02	1.27e-03	-1.22e-02	7.86e-02
## 1408	-2.61e-02	2.61e-03	7.66e-03	-4.58e-03	-1.46e-02	8.78e-03	-6.08e-02
## 1409	-3.92e-03	-1.93e-03	-2.41e-03	5.80e-06	-3.14e-03	-1.25e-03	-9.38e-03
## 1410	2.50e-02	-1.72e-02	2.13e-02	6.31e-03	1.09e-02	-4.28e-03	5.76e-02
## 1411	-2.15e-03	-6.84e-05	-2.51e-03	-9.73e-04	3.55e-04	6.92e-03	2.27e-02
## 1412	-1.58e-03	3.82e-03	-3.85e-03	-2.29e-04	1.73e-03	-2.02e-03	1.98e-02
## 1413	1.39e-03	-3.94e-04	-8.84e-03	-8.87e-03	-1.32e-02	3.40e-03	5.07e-02
## 1414	-8.78e-03	-1.28e-02	-2.41e-03	-7.81e-03	-2.74e-03	1.21e-02	3.60e-02
## 1415	7.15e-05	-4.99e-04	2.02e-03	-2.18e-03	-7.14e-04	2.28e-03	-5.29e-03
## 1416	-7.28e-03	-1.69e-02	-1.64e-03	9.81e-03	-5.79e-03	1.13e-02	4.87e-02
## 1417	1.57e-02	-4.76e-03	3.17e-03	7.45e-03	-5.38e-03	6.06e-03	-3.91e-02
## 1418	-1.81e-05	-1.64e-04	1.65e-04	-9.87e-06	5.66e-05	-3.43e-04	-8.31e-04
## 1419	7.16e-03	2.39e-03	3.33e-03	-4.03e-03	-6.92e-03	1.47e-02	-4.20e-02

##	1420	-1.04e-05	-4.48e-05	2.90e-05	6.61e-05	7.24e-06	-4.98e-05	1.86e-04
##	1421	-1.79e-02	-1.32e-02	-1.01e-02	3.07e-03	-1.39e-02	-1.52e-02	6.13e-02
##	1422	2.77e-03	-1.09e-03	-1.34e-03	1.96e-03	-9.34e-05	1.25e-03	8.75e-03
##	1423	1.48e-02	-1.20e-02	1.86e-02	6.85e-03	1.38e-02	6.16e-04	5.53e-02
##	1424	-3.85e-03	-8.58e-03	1.60e-02	8.38e-04	1.85e-02	-1.33e-02	-6.50e-02
##	1425	-9.09e-06	3.24e-04	1.67e-04	4.68e-04	2.51e-05	-2.70e-04	1.20e-03
##	1426	-1.04e-03	9.00e-04	3.05e-03	-3.88e-03	-5.10e-03	1.56e-03	1.43e-02
##	1427	7.88e-03	8.31e-04	-4.75e-03	-7.92e-03	-6.13e-03	1.84e-03	2.97e-02
##	1428	-1.19e-03	-5.50e-03	2.21e-03	-4.69e-03	-2.66e-03	-6.83e-04	1.00e-02
##	1429	6.41e-03	-7.39e-03	-9.23e-03	1.08e-02	-7.26e-03	-1.16e-02	4.94e-02
##	1430	9.83e-03	4.33e-03	3.70e-03	-1.48e-02	-1.16e-02	1.92e-02	-5.00e-02
##	1431	-4.47e-03	-1.61e-02	-1.88e-03	-5.50e-04	-1.28e-02	1.10e-02	3.86e-02
##	1432	-1.60e-02	-3.32e-03	4.08e-03	-1.89e-03	-1.07e-02	1.35e-02	-4.00e-02
##	1433	2.58e-03	-6.62e-03	1.26e-02	1.27e-02	-4.43e-03	2.09e-03	3.98e-02
##	1434	5.21e-03	4.01e-03	-7.28e-03	1.04e-02	-5.23e-05	4.00e-04	2.90e-02
##	1435	-1.40e-02	-6.29e-03	7.07e-03	1.02e-02	-1.33e-02	5.08e-03	-5.30e-02
##	1436	-5.63e-04	1.69e-03	1.57e-03	-3.77e-03	-3.41e-03	4.01e-03	1.08e-02
##	1437	-6.84e-03	6.08e-03	-1.90e-03	-1.27e-02	-5.55e-03	9.40e-03	4.79e-02
##	1438	-1.23e-03	-1.60e-03	9.10e-03	4.46e-03	6.30e-03	3.91e-03	2.82e-02
##	1439	6.49e-03	-4.08e-03	-1.24e-02	1.20e-02	-6.32e-03	-1.39e-03	5.35e-02
##	1440	-5.83e-04	1.01e-02	-5.14e-03	3.88e-03	8.25e-03	-3.09e-03	2.90e-02
##	1441	-1.55e-02	-1.24e-02	-6.31e-03	2.56e-02	1.22e-02	-1.99e-02	7.86e-02
##	1442	2.92e-03	4.29e-03	-1.39e-02	-1.03e-03	-1.36e-02	1.16e-02	6.12e-02
##	1443	-1.65e-02	3.53e-03	-2.48e-02	1.45e-02	-3.06e-02	1.21e-02	-7.99e-02
##	1444	-1.77e-03	-6.84e-03	3.28e-03	-2.47e-04	-4.86e-03	1.03e-03	1.32e-02
##	1445	-3.30e-03	-5.55e-03	5.96e-03	-1.55e-02	-1.51e-02	9.69e-03	3.23e-02
##	1446	-2.76e-03	-6.77e-03	-9.80e-03	4.59e-03	-1.19e-02	7.19e-03	2.50e-02
##	1447	9.67e-03	-9.97e-03	1.30e-02	1.29e-02	-8.46e-03	-9.28e-03	5.32e-02
##	1448	-1.46e-02	-1.76e-02	-5.90e-03	-3.32e-03	-9.92e-03	-5.54e-03	5.90e-02
##	1449	-1.40e-02	-9.01e-03	-4.75e-03	6.55e-03	8.67e-03	-6.23e-03	6.00e-02
##	1450	-1.97e-03	-8.77e-03	-6.83e-03	5.21e-03	-5.83e-03	-1.09e-04	1.81e-02
##	1451	-6.24e-03	1.74e-02	-7.04e-03	-1.76e-03	1.01e-02	-5.90e-03	4.06e-02
##	1452	1.13e-02	7.57e-04	2.33e-03	-4.52e-03	-6.87e-03	1.65e-02	-4.66e-02
##	1453	-4.88e-04	4.31e-03	-5.50e-03	9.31e-03	7.36e-03	1.21e-03	4.88e-02
##	1454	1.06e-02	2.00e-02	-1.88e-02	1.24e-02	4.70e-02	-4.01e-02	-9.05e-02
##	1455	2.99e-04	1.28e-02	-3.97e-03	5.70e-03	4.55e-03	6.62e-03	3.04e-02
##	1456	-1.26e-02	-4.70e-03	7.64e-03	-2.71e-03	-1.50e-02	1.79e-02	-5.60e-02
##	1457	2.18e-02	-1.37e-02	2.19e-02	-8.03e-03	1.58e-02	-1.17e-02	6.85e-02
##	1458	-3.85e-04	-6.26e-04	1.19e-03	2.36e-03	-5.64e-04	-9.90e-04	6.40e-03
##	1459	-1.54e-02	-6.35e-03	-2.29e-02	-5.89e-04	-2.93e-02	1.75e-04	-4.91e-02
##	1460	-1.95e-02	-8.07e-03	9.65e-03	9.17e-03	-1.75e-03	-6.31e-03	3.97e-02
##	1461	1.35e-02	4.60e-03	2.40e-02	-1.58e-02	3.05e-02	-9.33e-03	7.06e-02
##	1462	1.26e-03	-4.03e-03	-1.06e-02	8.85e-04	-5.17e-03	3.38e-03	3.50e-02
##	1463	-1.51e-02	8.87e-03	-8.96e-03	1.60e-02	-1.11e-02	-4.33e-03	5.27e-02
##	1464	-6.96e-03	4.19e-04	-3.43e-03	-6.12e-03	5.68e-04	4.66e-03	2.48e-02
##	1465	1.40e-02	2.84e-02	-3.77e-02	2.86e-02	-1.04e-02	6.23e-03	-8.98e-02
##	1466	-2.31e-03	-5.84e-03	3.92e-03	3.77e-03	-8.89e-03	6.14e-03	1.84e-02
##	1467	2.74e-02	-1.32e-02	2.60e-02	-7.49e-03	1.13e-02	-5.40e-03	6.57e-02
##	1468	-1.36e-02	-1.31e-03	8.88e-03	1.06e-02	-1.71e-02	1.76e-03	-5.22e-02
##	1469	8.76e-03	7.14e-03	4.15e-03	-5.82e-03	-3.48e-03	1.00e-02	-4.49e-02

## 1470	-1.37e-02	-1.50e-02	-4.90e-03	-1.51e-02	4.61e-04	3.74e-03	5.27e-02
## 1471	-1.07e-04	6.59e-03	8.47e-03	1.63e-04	1.40e-03	6.37e-03	2.32e-02
## 1472	-2.45e-03	-4.86e-03	4.25e-03	3.37e-03	-1.04e-02	8.61e-03	2.11e-02
## 1473	1.18e-02	7.31e-04	1.33e-02	-2.16e-02	5.20e-04	-3.16e-02	-1.11e-01
## 1474	1.10e-02	1.86e-02	4.52e-03	-1.07e-02	3.96e-03	3.92e-03	-6.34e-02
## 1475	-8.09e-03	2.86e-03	-7.97e-03	6.33e-03	-3.33e-03	-1.85e-03	4.75e-02
## 1476	6.30e-03	3.05e-04	5.62e-03	8.21e-03	6.12e-03	-3.16e-03	2.69e-02
## 1477	1.05e-03	-4.46e-04	2.05e-03	-1.78e-04	-5.69e-05	1.36e-03	-8.57e-03
## 1478	-1.54e-02	4.16e-04	-5.88e-03	7.04e-03	1.70e-02	-2.74e-02	9.45e-02
## 1479	3.84e-04	1.23e-04	2.13e-04	3.98e-05	9.71e-05	7.59e-05	-8.64e-04
## 1480	6.47e-04	9.62e-03	-2.58e-03	5.53e-03	-5.30e-04	1.01e-02	2.79e-02
## 1481	8.62e-03	-1.01e-04	1.17e-03	-3.84e-03	-3.39e-03	6.17e-03	-3.69e-02
## 1482	-4.72e-03	2.90e-03	2.10e-02	2.18e-02	1.68e-02	-2.11e-04	-9.18e-02
## 1483	-1.88e-03	3.81e-03	-3.64e-03	8.97e-03	-2.41e-05	8.17e-03	3.92e-02
## 1484	1.99e-03	3.63e-04	1.03e-02	8.78e-03	-1.48e-03	4.00e-03	3.76e-02
## 1485	1.16e-03	1.54e-03	-4.39e-03	4.57e-03	-2.78e-05	-2.01e-03	1.44e-02
## 1486	6.52e-03	-8.70e-04	-2.75e-03	-4.45e-03	-8.27e-03	1.19e-03	2.43e-02
## 1487	-2.48e-03	-4.79e-03	4.31e-03	3.46e-03	-1.10e-02	9.39e-03	2.17e-02
## 1488	-1.76e-02	-2.18e-03	3.16e-03	-4.09e-03	-3.06e-03	8.50e-03	-5.31e-02
## 1489	1.53e-02	-2.94e-03	-1.27e-02	-2.67e-02	1.98e-02	-1.24e-02	6.99e-02
## 1490	4.71e-03	-2.14e-02	4.57e-02	-2.18e-02	3.76e-02	-3.46e-02	-1.05e-01
## 1491	-8.49e-03	-1.32e-02	1.03e-02	-7.83e-03	1.48e-03	7.18e-06	3.22e-02
## 1492	-3.21e-03	-4.92e-03	-1.09e-02	-2.87e-03	-1.60e-02	1.08e-02	2.69e-02
## 1493	6.14e-03	-9.78e-03	-4.44e-03	-7.86e-03	5.94e-03	1.38e-03	2.97e-02
## 1494	-1.33e-02	-3.99e-03	-2.37e-02	-3.11e-03	-1.69e-02	1.17e-03	-5.36e-02
## 1495	-1.16e-02	-1.61e-02	-2.88e-03	9.86e-03	-7.14e-03	9.07e-03	4.94e-02
## 1496	-1.89e-02	-1.38e-02	-8.89e-03	-5.49e-03	-4.75e-03	-2.03e-03	5.64e-02
## 1497	1.20e-04	5.86e-03	9.62e-04	1.94e-03	-1.10e-03	2.41e-03	9.21e-03
## 1498	2.32e-03	1.41e-03	-5.49e-03	3.90e-03	-1.32e-03	-1.03e-03	2.15e-02
## 1499	-3.18e-03	1.32e-02	-3.53e-03	-1.91e-02	-2.65e-03	1.30e-02	6.27e-02
## 1500	1.83e-02	2.15e-03	-1.04e-02	4.75e-03	2.60e-02	2.39e-03	5.19e-02
## 1501	-8.23e-03	-9.08e-03	4.69e-03	-8.61e-04	-8.69e-03	3.07e-03	-3.58e-02
## 1502	-1.60e-03	2.45e-03	-2.60e-03	-2.46e-03	4.80e-05	-1.15e-03	1.35e-02
## 1503	9.23e-05	-1.33e-03	-9.88e-04	7.11e-04	-8.38e-04	2.23e-03	-6.14e-03
## 1504	-2.27e-02	-7.96e-03	-7.05e-03	-2.48e-02	5.77e-03	-8.86e-03	8.37e-02
## 1505	-2.03e-02	7.12e-04	1.10e-02	-4.45e-03	-2.34e-02	4.26e-03	-5.86e-02
## 1506	7.42e-03	-2.20e-03	-5.58e-03	-4.93e-04	3.27e-03	-2.73e-04	-2.24e-02
## 1507	1.72e-04	-4.80e-04	3.75e-03	2.53e-03	-8.39e-04	4.07e-03	-1.00e-02
## 1508	3.17e-02	-8.31e-04	-8.71e-03	6.07e-03	1.99e-02	-8.86e-03	7.82e-02
## 1509	-1.04e-02	-1.29e-02	1.38e-02	-1.37e-02	1.42e-02	-3.11e-02	-8.09e-02
## 1510	1.79e-04	-7.15e-04	-1.82e-03	7.66e-04	-2.69e-03	5.52e-03	-1.40e-02
## 1511	-1.05e-02	-8.23e-06	-6.06e-03	4.37e-03	-6.11e-03	-1.33e-03	2.88e-02
## 1512	-1.82e-02	-6.48e-03	3.71e-02	6.35e-03	1.63e-02	-1.57e-02	8.13e-02
## 1513	-4.40e-03	2.58e-03	-5.06e-03	8.19e-03	2.84e-03	8.10e-03	4.26e-02
## 1514	-2.26e-03	-5.31e-03	4.29e-03	-7.59e-03	-9.89e-03	7.73e-03	1.99e-02
## 1515	4.27e-02	-1.02e-03	1.90e-02	1.53e-03	1.76e-02	-4.26e-03	-1.02e-01
## 1516	-3.11e-03	-5.35e-03	-1.15e-02	5.35e-03	-1.66e-02	1.08e-02	3.27e-02
## 1517	5.30e-04	-2.05e-04	9.55e-04	5.79e-04	-3.23e-04	-1.07e-03	4.33e-03
## 1518	5.77e-02	3.28e-02	2.42e-02	3.97e-02	3.33e-02	1.97e-02	-1.28e-01
## 1519	2.76e-03	-1.82e-04	1.19e-02	9.68e-03	-3.86e-03	8.98e-03	3.61e-02

##	1520	-2.19e-03	-1.64e-02	-1.54e-03	-8.75e-04	-7.10e-03	8.44e-03	3.22e-02
##	1521	-1.87e-03	-6.20e-03	3.49e-03	3.64e-03	-7.43e-03	6.11e-03	1.92e-02
##	1522	-2.16e-02	3.43e-03	3.85e-02	2.14e-03	3.33e-02	-3.69e-02	9.46e-02
##	1523	1.08e-04	5.57e-04	-2.55e-03	4.39e-03	-4.26e-03	8.82e-03	-1.77e-02
##	1524	-2.69e-02	-4.31e-03	-1.02e-02	2.85e-03	-1.02e-02	4.80e-03	4.97e-02
##	1525	2.01e-04	-1.20e-03	-1.50e-03	3.04e-03	-1.04e-03	3.75e-03	-9.93e-03
##	1526	2.04e-02	9.97e-03	-2.41e-02	1.38e-02	-3.09e-02	2.57e-02	-8.61e-02
##	1527	-2.72e-03	-1.22e-02	-7.62e-03	1.88e-03	-8.77e-03	-2.70e-03	2.41e-02
##	1528	-2.01e-03	-5.81e-03	3.35e-03	-5.44e-03	-7.08e-03	3.96e-03	1.50e-02
##	1529	-2.14e-02	2.88e-03	-2.52e-02	-3.84e-03	-3.10e-02	6.25e-03	-6.64e-02
##	1530	9.51e-05	1.10e-04	-2.22e-03	3.25e-04	-3.53e-03	7.39e-03	-1.50e-02
##	1531	9.87e-05	-5.18e-03	1.20e-02	1.42e-03	-8.83e-03	-8.59e-03	5.35e-02
##	1532	-1.01e-02	-2.56e-03	7.15e-03	5.80e-03	3.31e-03	-1.44e-03	-2.59e-02
##	1533	6.77e-04	-5.50e-04	6.24e-04	-8.27e-04	8.13e-04	-4.25e-04	-3.55e-03
##	1534	1.18e-02	-7.12e-04	-2.17e-02	-2.11e-03	-1.39e-02	2.07e-02	-5.10e-02
##	1535	1.69e-03	-2.82e-03	8.54e-03	-2.81e-04	-1.76e-03	4.59e-03	3.43e-02
##	1536	8.55e-03	-1.17e-02	-3.78e-03	-5.31e-04	5.61e-03	1.89e-03	3.07e-02
##	1537	2.92e-04	-1.49e-04	-2.37e-03	3.92e-03	-3.12e-03	7.92e-03	-1.64e-02
##	1538	2.42e-05	1.59e-03	-1.94e-03	6.26e-04	2.66e-05	-9.27e-04	4.38e-03
##	1539	-1.58e-02	-5.35e-03	-2.31e-02	-1.51e-03	-2.88e-02	4.81e-04	-5.79e-02
##	1540	4.93e-03	-8.09e-03	-9.35e-03	1.31e-02	-5.18e-03	-1.56e-04	4.19e-02
##	1541	6.99e-05	1.28e-02	-3.29e-03	-7.28e-03	-1.20e-06	9.14e-03	2.92e-02
##	1542	1.27e-04	-1.18e-03	-1.48e-03	2.94e-03	-1.32e-03	3.61e-03	-9.34e-03
##	1543	1.10e-03	-3.51e-03	7.69e-03	-2.22e-02	7.36e-03	-3.46e-02	-9.26e-02
##	1544	2.28e-02	-1.36e-02	2.04e-02	4.18e-03	2.14e-02	-3.82e-03	5.94e-02
##	1545	-5.75e-03	-9.16e-03	1.95e-02	-1.68e-02	1.27e-02	-1.91e-02	-6.52e-02
##	1546	2.45e-02	1.16e-02	-1.15e-02	5.87e-03	1.94e-02	-1.80e-02	1.00e-01
##	1547	1.82e-05	7.28e-03	1.76e-03	3.50e-03	-1.85e-03	1.15e-03	1.38e-02
##	1548	-5.74e-03	1.01e-02	7.00e-03	-7.56e-03	-1.45e-03	-2.22e-03	2.74e-02
##	1549	1.41e-02	-1.47e-02	-6.36e-03	-1.27e-02	1.21e-02	6.68e-05	4.77e-02
##	1550	-1.75e-03	-7.32e-03	3.26e-03	4.19e-03	-4.10e-03	-9.86e-05	1.41e-02
##	1551	7.46e-03	-2.24e-03	1.43e-02	3.09e-02	-1.74e-03	-1.90e-02	-1.12e-01
##	1552	-2.32e-02	1.41e-03	-2.57e-02	-1.56e-03	-3.06e-02	2.77e-02	-7.57e-02
##	1553	1.21e-03	-6.00e-03	-9.35e-03	2.09e-03	-6.69e-03	-8.69e-03	4.21e-02
##	1554	1.89e-02	2.02e-03	5.56e-03	7.95e-03	-9.31e-03	1.75e-02	-5.80e-02
##	1555	-2.38e-03	-5.01e-03	4.47e-03	3.66e-03	-1.06e-02	9.03e-03	2.17e-02
##	1556	4.50e-03	-9.58e-04	3.54e-03	-4.81e-03	2.03e-03	-8.63e-04	1.75e-02
##	1557	-1.02e-02	-8.40e-03	6.75e-03	-8.50e-04	-1.42e-02	4.06e-03	-3.61e-02
##	1558	4.93e-03	-6.37e-03	7.65e-03	7.67e-03	1.93e-03	4.70e-03	4.05e-02
##	1559	1.74e-02	1.13e-02	3.00e-02	2.45e-04	2.86e-02	1.46e-04	7.19e-02
##	1560	7.65e-03	-2.81e-03	1.19e-03	-1.90e-03	-3.90e-03	9.13e-03	-3.00e-02
##	1561	1.23e-02	-1.17e-02	-4.85e-03	7.00e-03	7.95e-03	2.90e-03	4.08e-02
##	1562	7.02e-04	-8.52e-04	8.27e-04	8.85e-04	8.45e-04	-5.71e-04	-4.47e-03
##	1563	-2.18e-02	-7.29e-03	-1.07e-02	-1.18e-02	-2.15e-02	-6.21e-03	6.74e-02
##	1564	-1.82e-02	-8.35e-03	-3.95e-03	8.59e-03	1.27e-02	-5.88e-02	1.16e-01
##	1565	3.44e-03	-4.26e-03	1.10e-02	1.22e-03	-4.99e-04	6.62e-03	3.54e-02
##	1566	8.22e-06	3.48e-04	9.03e-05	-3.71e-04	-6.77e-05	1.41e-04	7.60e-04
##	1567	-2.19e-03	-5.06e-03	3.40e-03	2.73e-03	-8.66e-03	8.22e-03	2.14e-02
##	1568	-5.03e-03	-7.28e-03	-2.57e-02	1.64e-03	1.51e-02	-2.13e-02	-8.31e-02
##	1569	-7.15e-03	1.47e-03	-6.06e-03	5.27e-03	8.50e-03	-1.39e-03	3.30e-02

## 1570	-5.39e-04	9.77e-04	1.52e-03	2.41e-03	-2.21e-03	2.41e-03	1.01e-02
## 1571	9.50e-03	5.59e-02	-4.99e-02	-2.04e-02	2.86e-03	-3.35e-02	-1.39e-01
## 1572	2.11e-04	-1.92e-04	-2.19e-04	-2.19e-04	-1.54e-04	-1.50e-04	1.37e-03
## 1573	7.13e-03	-1.08e-02	-3.04e-02	3.16e-02	-3.20e-02	2.12e-02	-9.52e-02
## 1574	-1.91e-02	8.32e-03	1.72e-02	-2.14e-02	1.53e-02	1.47e-03	-8.69e-02
## 1575	1.73e-02	-4.26e-03	4.85e-03	-2.87e-03	-1.10e-02	4.33e-03	-4.89e-02
## 1576	-2.14e-02	1.36e-02	1.65e-02	-1.75e-02	-1.09e-02	-5.66e-03	6.42e-02
## 1577	6.25e-03	-6.55e-03	-9.03e-03	1.20e-02	-2.57e-04	-3.14e-05	4.79e-02
## 1578	2.40e-03	-1.02e-03	2.70e-03	-2.50e-03	-8.09e-04	1.62e-05	1.04e-02
## 1579	2.69e-03	5.15e-04	-1.24e-02	-1.21e-02	-1.48e-02	1.09e-02	5.58e-02
## 1580	-4.18e-03	8.95e-03	-4.08e-03	-5.85e-03	-2.44e-03	-3.21e-03	3.34e-02
## 1581	-5.36e-03	-1.42e-03	5.62e-03	-1.56e-03	-3.44e-03	-1.31e-03	1.91e-02
## 1582	2.06e-04	8.68e-04	-8.22e-04	-1.06e-03	-1.12e-04	2.05e-03	4.75e-03
## 1583	4.27e-06	-3.78e-04	-2.65e-04	6.12e-04	9.94e-06	3.14e-04	-1.59e-03
## 1584	-4.48e-03	5.85e-03	-2.34e-03	9.36e-03	-1.51e-04	6.12e-03	5.25e-02
## 1585	1.31e-02	4.65e-04	-1.03e-02	1.68e-03	-2.13e-02	-7.47e-03	7.60e-02
## 1586	6.58e-05	-6.60e-04	-1.64e-03	-2.45e-03	-2.59e-03	5.24e-03	-1.15e-02
## 1587	-1.86e-03	-6.27e-03	3.53e-03	-5.22e-03	-6.33e-03	3.14e-03	1.48e-02
## 1588	-3.58e-02	2.24e-02	9.76e-03	8.57e-03	-1.51e-02	-1.40e-02	-8.82e-02
## 1589	-2.08e-03	-5.42e-03	3.04e-03	2.94e-03	-8.09e-03	6.75e-03	1.87e-02
## 1590	5.08e-05	-6.55e-04	-1.26e-03	2.25e-03	-5.22e-04	2.48e-03	-8.32e-03
## 1591	-9.76e-03	-1.07e-02	6.55e-03	-7.97e-04	-1.41e-02	7.18e-03	-5.08e-02
## 1592	1.97e-02	1.26e-02	-1.30e-02	2.12e-03	3.00e-02	-1.03e-03	6.99e-02
## 1593	1.43e-02	1.43e-02	-5.50e-03	-7.85e-03	4.63e-03	-6.46e-04	3.30e-02
## 1594	-1.59e-06	6.27e-04	1.75e-04	-6.45e-04	-1.43e-04	1.40e-04	1.42e-03
## 1595	1.83e-03	-1.51e-03	2.63e-03	2.71e-03	2.84e-03	-1.74e-03	-1.27e-02
## 1596	-1.30e-02	-4.44e-03	3.09e-03	-1.26e-03	-5.13e-03	1.16e-02	-3.84e-02
## 1597	2.42e-02	8.07e-03	-5.93e-03	8.63e-03	6.32e-03	4.82e-04	4.73e-02
## 1598	1.16e-02	8.06e-03	5.15e-03	-5.99e-03	-1.11e-02	1.36e-04	-5.48e-02
## 1599	4.87e-02	9.85e-03	1.75e-02	3.56e-02	2.80e-02	2.45e-03	-9.75e-02
## 1600	9.47e-03	-1.63e-03	6.81e-03	-2.06e-04	2.36e-03	4.83e-03	1.90e-02
## 1601	9.97e-05	-5.46e-04	1.68e-03	1.71e-04	-4.20e-04	2.04e-03	-4.59e-03
## 1602	1.40e-04	6.43e-04	-5.94e-04	1.26e-05	9.13e-05	1.37e-03	4.21e-03
## 1603	2.44e-02	3.49e-03	5.71e-03	2.55e-02	-1.09e-02	1.75e-02	-8.37e-02
## 1604	-1.10e-03	3.29e-03	-8.26e-03	4.69e-03	-6.04e-03	3.15e-03	1.70e-02
## 1605	-9.63e-04	-1.90e-03	-4.88e-03	6.65e-03	1.34e-03	3.31e-03	3.25e-02
## 1606	-3.30e-03	-5.06e-03	-3.53e-03	1.03e-03	-3.63e-03	1.44e-03	-1.77e-02
## 1607	2.29e-03	-1.49e-03	2.89e-03	2.69e-03	5.17e-03	-1.59e-03	-1.18e-02
## 1608	-5.03e-02	5.29e-03	-4.31e-02	-2.75e-02	-3.61e-02	-2.88e-02	-1.36e-01
## 1609	-1.48e-03	-6.72e-03	2.52e-03	3.66e-03	-2.74e-03	-1.44e-03	1.18e-02
## 1610	8.20e-04	-5.09e-04	6.27e-04	5.38e-04	-3.83e-04	4.98e-04	-3.13e-03
## 1611	-4.68e-04	-1.29e-03	-2.48e-03	-2.45e-03	-1.07e-03	-1.78e-03	7.00e-03
## 1612	1.01e-05	-4.02e-04	8.24e-04	-7.79e-04	-1.23e-04	5.48e-04	-1.91e-03
## 1613	3.98e-03	-1.00e-02	8.81e-03	2.73e-03	-4.19e-03	-2.68e-03	3.29e-02
## 1614	1.27e-02	1.42e-03	2.28e-03	-4.90e-03	-4.39e-03	8.11e-03	-5.51e-02
## 1615	4.36e-03	-2.20e-03	3.48e-03	-2.40e-04	2.64e-03	3.90e-05	-1.32e-02
## 1616	6.54e-03	-3.91e-03	1.09e-02	-1.98e-02	-2.34e-03	1.45e-02	5.16e-02
## 1617	-2.78e-02	7.91e-03	5.00e-03	-8.46e-03	-1.09e-02	-3.40e-03	-5.84e-02
## 1618	-9.36e-04	-1.96e-04	5.43e-04	8.34e-04	1.38e-05	-3.31e-04	2.36e-03
## 1619	-3.35e-03	2.14e-02	-4.21e-03	-1.08e-02	3.43e-03	7.64e-03	4.16e-02

## 1620	1.06e-02	-1.00e-02	7.16e-03	-1.85e-02	4.16e-04	-1.86e-02	-8.48e-02
## 1621	-1.80e-02	-2.03e-03	9.81e-03	2.58e-02	-1.91e-02	4.70e-03	-6.65e-02
## 1622	1.10e-03	-7.39e-03	7.06e-03	-1.06e-02	-3.98e-03	-1.45e-03	2.81e-02
## 1623	1.61e-02	6.91e-03	-1.10e-02	2.03e-02	2.75e-02	-9.06e-03	6.37e-02
## 1624	2.85e-02	-3.72e-03	-3.39e-03	1.04e-02	4.65e-03	-9.06e-03	7.81e-02
## 1625	5.75e-03	-3.41e-03	-3.86e-03	3.73e-03	1.82e-04	5.10e-04	-1.87e-02
## 1626	-1.24e-02	-1.40e-02	-2.89e-03	1.05e-02	-1.14e-02	-5.75e-03	6.54e-02
## 1627	-1.54e-02	2.45e-03	8.87e-03	2.31e-02	-8.10e-03	1.10e-02	-7.60e-02
## 1628	6.10e-03	-1.21e-02	7.41e-03	5.66e-03	-1.47e-03	-7.38e-03	-7.14e-02
## 1629	2.98e-03	2.52e-03	1.31e-02	-1.57e-03	-6.08e-03	1.29e-02	3.84e-02
## 1630	-3.23e-04	3.74e-04	5.03e-04	4.13e-04	2.58e-04	-4.14e-04	2.30e-03
## 1631	-1.84e-02	2.52e-02	-1.35e-02	1.26e-03	-1.07e-02	-6.47e-03	6.75e-02
## 1632	-4.81e-04	-1.24e-03	1.27e-03	-2.26e-03	-1.06e-03	-1.47e-03	5.94e-03
## 1633	1.93e-03	-1.75e-03	2.57e-03	-7.09e-05	3.29e-03	-2.63e-03	1.14e-02
## 1634	6.69e-03	6.08e-03	-2.96e-03	3.47e-04	4.09e-03	3.78e-03	1.68e-02
## 1635	-4.93e-03	-8.16e-04	1.70e-02	-3.03e-03	1.99e-02	-1.56e-02	-8.13e-02
## 1636	-4.84e-04	2.54e-03	1.99e-03	2.84e-03	-3.64e-03	4.91e-03	1.37e-02
## 1637	3.35e-03	-1.44e-03	3.77e-03	3.41e-03	6.85e-03	-1.10e-03	-1.48e-02
## 1638	-1.61e-03	-7.44e-03	3.05e-03	4.38e-03	-3.93e-03	-6.12e-04	1.51e-02
## 1639	-1.18e-02	-1.64e-02	-6.91e-03	7.16e-03	9.90e-03	-2.21e-03	5.64e-02
## 1640	1.38e-02	1.89e-02	7.24e-03	-2.77e-02	-3.09e-03	2.26e-02	-7.69e-02
## 1641	-2.69e-02	9.27e-03	3.32e-03	-9.97e-03	-2.35e-03	-6.85e-03	-6.66e-02
## 1642	-1.09e-03	1.72e-03	-2.04e-03	-3.72e-03	-3.21e-04	1.27e-03	-8.83e-03
## 1643	-2.28e-02	2.85e-04	7.43e-03	2.65e-02	-1.69e-02	2.79e-03	-6.24e-02
## 1644	1.06e-02	-1.43e-02	-5.26e-03	8.29e-03	4.64e-03	6.78e-03	4.89e-02
## 1645	2.53e-03	-7.42e-03	-6.84e-03	1.05e-02	-2.57e-03	-3.41e-03	3.21e-02
## 1646	1.60e-02	-4.59e-03	-1.78e-02	-1.15e-02	-1.75e-02	1.12e-02	-4.45e-02
## 1647	-1.45e-02	-7.45e-03	4.00e-03	-3.18e-04	-9.53e-03	5.53e-03	-4.02e-02
## 1648	6.43e-03	-6.76e-03	8.97e-03	1.02e-02	5.65e-04	1.50e-03	4.66e-02
## 1649	-4.00e-05	-9.26e-04	-7.84e-04	-2.40e-03	-1.10e-03	2.25e-03	-5.82e-03
## 1650	-6.96e-04	3.31e-03	1.71e-03	2.19e-03	-4.78e-03	6.35e-03	1.47e-02
## 1651	-6.84e-03	5.62e-04	-2.41e-02	-2.01e-02	6.22e-03	-2.28e-02	-8.72e-02
## 1652	8.27e-03	-1.07e-02	9.97e-03	4.96e-03	4.77e-03	1.11e-03	3.09e-02
## 1653	-3.18e-03	-1.19e-02	-8.08e-03	1.64e-03	-1.03e-02	-3.09e-03	2.51e-02
## 1654	1.13e-02	4.60e-02	-4.01e-02	7.53e-03	-2.65e-03	-1.14e-02	-1.08e-01
## 1655	3.80e-03	-1.98e-03	-3.03e-03	-4.00e-05	1.60e-04	-5.96e-04	-1.22e-02
## 1656	-1.78e-03	-9.42e-03	3.43e-03	1.75e-03	-3.49e-03	-4.50e-03	1.64e-02
## 1657	-3.40e-03	-1.78e-02	1.93e-04	-1.17e-02	-1.42e-02	1.78e-02	4.98e-02
## 1658	-1.35e-02	-7.82e-03	9.49e-03	-8.69e-04	-2.10e-02	1.36e-04	-4.04e-02
## 1659	1.16e-02	2.18e-02	3.99e-03	-1.32e-02	1.91e-03	-1.33e-02	-7.28e-02
## 1660	1.21e-02	2.29e-02	-3.86e-02	2.61e-02	-5.80e-03	-1.31e-02	-8.42e-02
## 1661	2.08e-02	1.02e-02	-1.10e-02	4.70e-03	2.78e-02	-5.50e-03	6.45e-02
## 1662	2.56e-04	7.92e-03	1.22e-03	2.25e-03	-1.79e-03	4.05e-03	1.22e-02
## 1663	-1.91e-03	5.05e-03	-9.83e-03	-7.16e-03	-1.19e-02	4.93e-03	2.61e-02
## 1664	-5.72e-03	-1.93e-02	-4.03e-03	7.41e-03	-2.26e-03	-6.14e-03	4.23e-02
## 1665	1.85e-02	9.26e-03	-1.09e-02	-1.57e-02	2.22e-02	-3.71e-03	6.34e-02
## 1666	-7.67e-03	-4.47e-03	1.91e-02	-1.72e-02	1.83e-02	-1.07e-02	-1.00e-01
## 1667	-6.52e-04	-1.30e-03	-1.50e-03	-2.60e-03	-7.47e-04	3.48e-03	1.05e-02
## 1668	-7.00e-03	-1.96e-03	-5.87e-03	-8.93e-04	-1.84e-03	2.73e-03	-2.59e-02
## 1669	1.51e-02	4.21e-02	8.63e-03	2.80e-02	9.36e-03	1.78e-02	-9.89e-02

## 1670	8.81e-05	4.97e-03	1.27e-03	2.91e-03	-1.18e-03	9.87e-04	1.07e-02
## 1671	-2.86e-02	6.84e-03	7.66e-03	-6.62e-03	-1.56e-02	-4.44e-03	-6.22e-02
## 1672	1.55e-02	7.12e-03	-1.38e-02	3.38e-03	2.57e-02	-1.59e-02	7.61e-02
## 1673	1.58e-04	1.10e-02	1.79e-03	3.32e-03	-3.44e-03	4.94e-03	2.05e-02
## 1674	-3.07e-03	-1.93e-03	-2.15e-03	2.75e-04	-1.72e-03	3.92e-03	1.78e-02
## 1675	3.55e-03	3.67e-03	-1.27e-02	1.31e-02	-1.13e-02	1.34e-02	6.69e-02
## 1676	-6.19e-04	-2.32e-03	-3.17e-03	3.65e-03	-1.21e-03	-3.08e-03	9.28e-03
## 1677	6.56e-05	-2.05e-04	-1.40e-03	-5.05e-05	-7.54e-04	3.83e-03	-8.16e-03
## 1678	4.22e-04	-4.77e-04	4.73e-04	-5.35e-04	7.07e-04	-1.82e-04	-2.20e-03
## 1679	2.43e-06	3.82e-04	8.81e-05	-2.04e-04	-6.01e-05	1.25e-04	7.51e-04
## 1680	2.70e-03	-9.59e-03	1.08e-02	1.22e-02	-1.21e-03	5.56e-04	4.06e-02
## 1681	1.80e-02	-1.86e-04	-8.44e-03	6.97e-03	1.73e-02	5.83e-03	6.51e-02
## 1682	-6.80e-03	2.80e-02	2.16e-02	-1.10e-02	2.06e-02	7.81e-03	-1.12e-01
## 1683	-9.27e-04	2.78e-03	3.23e-03	4.54e-03	-5.58e-03	3.70e-03	2.05e-02
## 1684	4.69e-06	1.91e-04	7.06e-05	1.87e-04	3.74e-05	-7.00e-05	4.80e-04
## 1685	-1.62e-02	-1.00e-02	1.50e-02	1.21e-02	-5.39e-03	-1.15e-02	6.85e-02
## 1686	1.03e-02	-1.17e-02	-2.27e-03	-2.72e-04	-2.53e-04	6.29e-03	2.83e-02
## 1687	1.31e-04	-9.98e-04	-1.62e-03	8.45e-04	-2.22e-03	4.75e-03	-1.08e-02
## 1688	6.93e-03	5.77e-03	-8.69e-03	-3.74e-03	6.22e-03	1.68e-03	3.74e-02
## 1689	-3.34e-04	-1.36e-03	-2.72e-03	2.94e-05	2.25e-04	-3.54e-03	-7.74e-03
## 1690	-2.00e-02	-6.99e-03	1.30e-02	2.64e-03	1.43e-02	-2.32e-02	-7.74e-02
## 1691	4.12e-03	-1.22e-03	-2.68e-03	2.73e-03	-2.40e-03	-7.84e-04	1.52e-02
## 1692	1.53e-02	-5.23e-03	4.54e-03	-1.33e-03	-1.10e-02	8.79e-03	-3.61e-02
## 1693	-9.75e-03	-2.51e-03	-5.61e-03	2.57e-04	-5.94e-04	1.52e-03	-2.41e-02
## 1694	2.36e-03	1.81e-03	-1.07e-03	1.40e-03	1.76e-03	1.62e-03	6.49e-03
## 1695	-5.75e-04	-1.01e-03	-4.38e-03	4.07e-03	-1.65e-03	-1.71e-03	1.03e-02
## 1696	3.22e-05	-1.37e-03	-7.54e-04	1.99e-03	-2.85e-04	9.55e-04	-4.70e-03
## 1697	6.35e-03	7.87e-03	1.07e-02	6.92e-04	1.02e-02	-2.95e-02	-9.66e-02
## 1698	1.19e-02	1.11e-02	6.15e-03	2.18e-02	-3.27e-03	1.86e-02	-6.83e-02
## 1699	6.46e-03	-3.23e-03	-9.89e-03	4.70e-04	-3.42e-03	4.77e-03	5.05e-02
## 1700	7.33e-03	-3.05e-04	3.53e-03	-1.36e-03	-8.98e-03	1.74e-02	-4.11e-02
## 1701	1.12e-02	-1.39e-02	1.38e-02	6.78e-03	3.09e-03	1.72e-03	4.12e-02
## 1702	5.30e-03	2.69e-03	-1.40e-03	1.95e-05	6.64e-04	2.54e-03	9.62e-03
## 1703	2.08e-02	7.06e-03	2.92e-02	1.63e-03	2.70e-02	-9.20e-03	8.31e-02
## 1704	2.63e-02	1.29e-02	1.47e-02	-1.34e-03	1.96e-02	2.03e-02	-8.11e-02
## 1705	1.28e-02	2.01e-02	-7.80e-03	-3.76e-03	-6.99e-03	-1.22e-03	4.70e-02
## 1706	2.07e-02	-3.36e-03	-1.25e-02	4.51e-03	2.09e-02	-2.19e-02	8.25e-02
## 1707	1.25e-05	-4.72e-05	2.22e-04	-9.42e-06	8.46e-07	3.12e-04	-6.85e-04
## 1708	3.77e-03	1.16e-02	-8.46e-03	4.21e-03	-4.61e-03	6.93e-04	3.71e-02
## 1709	1.05e-03	-5.73e-03	4.02e-03	-3.35e-03	-1.67e-03	-1.07e-03	1.40e-02
## 1710	1.55e-03	7.25e-04	-1.12e-03	3.71e-05	8.18e-04	-2.21e-06	-4.22e-03
## 1711	-3.34e-05	-1.26e-03	-6.28e-04	-2.02e-03	-6.15e-04	1.01e-03	-4.73e-03
## 1712	-3.05e-02	2.14e-04	-1.16e-02	-1.32e-02	-1.40e-02	6.89e-03	5.41e-02
## 1713	1.82e-04	-1.03e-04	-2.10e-03	1.21e-04	-3.07e-03	7.62e-03	-1.46e-02
## 1714	-6.05e-04	1.08e-03	1.82e-03	-5.81e-03	-3.06e-03	2.47e-03	9.77e-03
## 1715	-1.57e-02	-6.83e-03	-7.84e-03	4.98e-03	3.23e-02	-6.11e-02	1.08e-01
## 1716	2.83e-02	1.40e-02	-6.38e-03	-4.03e-02	1.55e-02	-2.11e-02	1.05e-01
## 1717	-1.41e-02	-1.99e-03	1.32e-02	1.37e-02	-2.39e-02	6.09e-03	-6.24e-02
## 1718	-6.88e-03	6.16e-04	-5.62e-03	-2.08e-03	-3.21e-03	-4.29e-03	3.95e-02
## 1719	2.34e-04	6.20e-03	8.48e-04	1.83e-03	-1.33e-03	3.58e-03	1.06e-02

## 1720	-2.24e-02	4.08e-03	4.40e-02	4.29e-03	3.02e-02	-3.50e-02	1.06e-01
## 1721	-2.23e-02	2.58e-03	-3.34e-03	8.07e-03	5.41e-03	-1.70e-02	8.70e-02
## 1722	2.82e-03	-7.63e-03	1.25e-02	3.79e-03	-4.47e-03	1.73e-03	3.95e-02
## 1723	8.47e-03	-1.13e-02	-6.05e-03	4.33e-03	-1.10e-02	-6.40e-03	4.39e-02
## 1724	-1.92e-04	2.89e-04	2.75e-04	-3.29e-04	-3.42e-05	-5.65e-05	1.11e-03
## 1725	3.44e-03	-6.16e-04	3.22e-03	-2.39e-03	1.90e-03	1.34e-03	1.04e-02
## 1726	-1.23e-02	-5.38e-03	1.18e-02	5.86e-04	2.00e-02	-2.95e-03	-6.68e-02
## 1727	-1.06e-02	-1.02e-02	6.41e-03	-6.42e-04	-1.32e-02	-5.20e-04	-4.11e-02
## 1728	-4.23e-03	1.36e-03	1.71e-02	7.31e-03	1.16e-03	9.48e-03	4.37e-02
## 1729	-2.55e-03	-4.60e-03	3.98e-03	3.09e-03	-1.08e-02	8.96e-03	2.09e-02
## 1730	2.00e-02	-4.60e-06	1.02e-02	4.16e-04	1.33e-02	-8.93e-03	-6.95e-02
## 1731	-3.16e-04	-1.24e-03	-3.49e-03	2.41e-03	-2.32e-04	-4.00e-03	-9.92e-03
## 1732	1.05e-02	2.03e-02	-1.82e-02	-1.46e-02	4.68e-02	-3.98e-02	-9.18e-02
## 1733	3.75e-03	2.34e-03	-1.26e-02	1.31e-02	-9.57e-03	1.16e-02	5.01e-02
## 1734	6.12e-03	-1.18e-03	-2.10e-03	-3.20e-03	1.34e-03	3.66e-03	1.59e-02
## 1735	-1.27e-02	-9.35e-03	9.11e-03	-9.83e-05	-2.02e-02	3.71e-04	-3.88e-02
## 1736	-1.56e-03	-7.42e-03	-4.22e-03	-5.16e-03	-3.60e-03	-1.93e-03	1.35e-02
## 1737	-2.85e-02	-5.84e-03	-9.45e-03	-2.26e-02	-1.96e-02	-7.96e-03	6.55e-02
## 1738	-1.76e-02	-6.37e-03	4.43e-03	2.25e-02	-1.60e-02	1.34e-02	-5.47e-02
## 1739	9.14e-05	-4.02e-04	-9.45e-04	1.16e-04	-4.87e-04	2.66e-03	-5.66e-03
## 1740	-4.74e-03	3.85e-03	-5.74e-03	-1.26e-02	4.74e-03	-4.09e-03	4.26e-02
## 1741	2.99e-05	-6.33e-04	1.54e-03	2.57e-04	-2.01e-04	1.16e-03	-3.52e-03
## 1742	1.14e-04	6.70e-04	-4.45e-04	-6.67e-04	-1.34e-04	1.08e-03	2.92e-03
## 1743	1.74e-02	-3.04e-03	5.15e-03	1.96e-02	-1.10e-02	7.52e-03	-4.99e-02
## 1744	-5.38e-06	-1.21e-03	-9.53e-04	5.38e-04	-6.76e-04	1.87e-03	-5.84e-03
## 1745	-5.05e-03	-1.96e-02	-1.59e-03	8.97e-03	-9.88e-03	4.26e-03	5.26e-02
## 1746	-3.23e-03	1.15e-02	-5.12e-03	-7.28e-03	9.45e-03	2.62e-03	3.14e-02
## 1747	-2.25e-02	4.52e-03	5.77e-03	-4.09e-03	-1.51e-02	1.50e-02	-5.88e-02
## 1748	1.67e-03	3.22e-03	3.67e-03	-2.65e-03	2.39e-04	1.71e-03	1.63e-02
## 1749	1.30e-03	8.59e-04	-5.23e-04	-5.36e-04	3.28e-04	7.29e-04	3.38e-03
## 1750	-2.02e-03	-5.86e-04	-1.20e-03	-2.73e-04	-1.78e-03	2.32e-04	6.80e-03
## 1751	2.09e-03	-4.41e-03	-8.53e-03	1.41e-03	-6.10e-03	-1.08e-03	3.55e-02
## 1752	-5.25e-03	-1.38e-03	7.86e-03	-7.11e-03	-5.32e-03	-4.61e-04	2.72e-02
## 1753	4.78e-03	5.25e-03	-2.52e-03	-3.26e-03	5.41e-03	1.90e-03	1.42e-02
## 1754	1.54e-04	-6.29e-04	-2.09e-03	3.53e-03	-2.33e-03	5.94e-03	-1.36e-02
## 1755	-1.94e-03	-6.63e-03	3.18e-03	3.79e-03	-5.53e-03	1.77e-03	1.43e-02
## 1756	2.65e-03	-5.13e-04	4.04e-03	-4.32e-03	-1.80e-04	-3.92e-04	1.63e-02
## 1757	-6.58e-05	6.45e-04	-1.12e-03	-1.97e-04	-2.61e-04	-9.10e-04	3.00e-03
## 1758	2.24e-02	-1.09e-02	-4.73e-03	-2.07e-02	5.41e-03	-3.77e-04	6.07e-02
## 1759	3.83e-03	5.30e-03	-1.29e-02	-8.37e-04	-1.03e-02	1.42e-02	4.36e-02
## 1760	3.63e-03	-1.42e-03	-2.46e-03	-5.43e-03	-2.70e-04	5.53e-04	-1.31e-02
## 1761	-1.98e-03	-1.24e-05	-3.58e-03	-7.97e-04	-3.14e-03	7.11e-03	2.75e-02
## 1762	-6.21e-04	1.54e-04	-5.81e-03	4.16e-03	-3.00e-03	7.71e-04	1.24e-02
## 1763	1.09e-04	6.24e-04	-4.38e-04	5.40e-05	-2.06e-04	1.08e-03	2.55e-03
## 1764	-3.41e-03	-1.24e-03	2.54e-03	-1.75e-04	-1.89e-04	-5.99e-04	1.03e-02
## 1765	-7.16e-03	-1.36e-02	-2.36e-03	-6.56e-03	-4.67e-03	8.26e-03	3.28e-02
## 1766	1.13e-02	1.79e-02	3.86e-03	-1.17e-02	7.17e-03	6.67e-03	-7.54e-02
## 1767	9.36e-03	-2.44e-03	2.45e-03	-2.18e-03	-7.28e-03	7.13e-03	-3.99e-02
## 1768	-2.05e-02	-4.45e-03	-2.21e-02	2.36e-04	-2.26e-02	8.21e-03	-5.12e-02
## 1769	1.90e-04	-3.51e-04	3.56e-03	2.35e-03	-1.03e-03	4.35e-03	-9.83e-03

## 1770	1.28e-03	-3.78e-04	-1.32e-02	9.62e-03	-6.65e-03	5.68e-03	4.39e-02
## 1771	4.77e-04	6.22e-03	-3.02e-03	4.40e-03	-1.07e-03	6.64e-03	2.30e-02
## 1772	-1.43e-04	5.03e-04	-1.40e-03	-9.92e-04	-4.22e-04	-2.08e-03	5.35e-03
## 1773	3.21e-03	-9.44e-03	-7.62e-03	-5.03e-03	-8.03e-03	4.03e-04	3.81e-02
## 1774	1.71e-04	1.95e-04	-1.89e-03	9.68e-05	-1.47e-03	5.67e-03	-1.17e-02
## 1775	2.53e-02	5.27e-03	-1.10e-02	2.64e-03	2.95e-02	-3.47e-02	9.30e-02
## 1776	6.43e-03	-5.45e-03	-1.86e-02	6.44e-02	2.93e-02	-2.88e-02	-1.21e-01
## 1777	-2.68e-03	3.87e-03	-2.90e-03	9.51e-03	-7.35e-03	1.17e-02	4.19e-02
## 1778	-2.78e-02	-1.11e-02	-7.96e-03	5.82e-03	-1.75e-02	-3.71e-03	6.59e-02
## 1779	-1.36e-02	-7.67e-03	9.77e-03	1.76e-05	-2.45e-02	6.08e-04	-5.10e-02
## 1780	1.00e-02	2.30e-02	-1.88e-02	-1.63e-02	4.28e-02	-3.43e-02	-8.89e-02
## 1781	2.17e-03	-1.60e-03	3.17e-03	-6.00e-05	4.47e-03	-2.03e-03	-1.12e-02
## 1782	-3.08e-02	3.10e-02	1.47e-02	8.95e-03	-2.17e-02	7.97e-03	-1.07e-01
## 1783	-5.17e-03	8.72e-03	-5.60e-03	-1.67e-02	-3.93e-03	5.50e-03	5.84e-02
## 1784	2.73e-05	-4.31e-04	8.53e-04	6.72e-04	-1.31e-06	6.91e-04	-2.29e-03
## 1785	3.51e-03	-1.11e-02	9.12e-03	4.91e-03	5.26e-03	-6.97e-03	3.47e-02
## 1786	2.42e-02	1.32e-03	-2.64e-02	2.90e-02	-2.12e-02	2.58e-03	-6.62e-02
## 1787	2.03e-03	7.53e-04	-3.71e-03	5.30e-03	-4.05e-04	-1.78e-03	1.44e-02
## 1788	4.02e-03	-9.33e-03	-4.52e-03	-8.14e-03	-9.10e-03	-9.44e-04	2.89e-02
## 1789	2.51e-04	2.84e-04	-2.03e-03	3.05e-03	-1.42e-03	6.04e-03	-1.27e-02
## 1790	3.03e-03	-8.44e-04	-5.05e-03	-9.12e-03	3.38e-03	-6.39e-04	-1.83e-02
## 1791	1.80e-02	6.40e-03	-2.43e-02	-2.04e-02	-1.70e-02	1.16e-02	-6.81e-02
## 1792	-1.98e-02	-1.46e-02	-7.28e-03	-7.32e-03	-1.99e-02	-6.83e-03	6.03e-02
## 1793	-8.27e-07	6.45e-04	1.91e-04	-3.10e-04	-8.62e-05	7.87e-05	1.25e-03
## 1794	-7.12e-04	-6.68e-04	2.29e-03	-5.00e-03	-2.69e-03	-5.38e-04	1.05e-02
## 1795	1.27e-02	1.52e-03	4.94e-03	-3.16e-03	-8.80e-03	1.84e-02	-4.98e-02
## 1796	2.51e-03	4.68e-03	-1.20e-02	-2.59e-02	-1.35e-02	1.58e-02	4.84e-02
## 1797	1.70e-02	-2.76e-04	-1.07e-02	2.06e-02	2.45e-02	1.46e-03	5.31e-02
## 1798	5.87e-03	1.78e-02	3.61e-03	5.89e-03	4.83e-03	1.67e-03	3.53e-02
## 1799	-5.20e-03	6.87e-03	-5.01e-03	6.19e-03	1.84e-03	-4.07e-03	2.12e-02
## 1800	-1.11e-03	-6.35e-03	2.11e-03	3.35e-03	-1.96e-03	-1.03e-03	1.07e-02
## 1801	-4.33e-03	-3.47e-03	-4.33e-03	-4.71e-04	-4.17e-04	9.03e-04	-2.13e-02
## 1802	-1.53e-05	9.85e-04	3.98e-04	-4.89e-04	-2.25e-04	-1.28e-04	2.62e-03
## 1803	-1.76e-02	-4.41e-03	-2.13e-02	-8.95e-04	-2.89e-02	8.94e-03	-5.78e-02
## 1804	-1.39e-02	8.44e-04	7.92e-03	-6.74e-03	-1.64e-02	9.34e-03	-5.48e-02
## 1805	1.96e-02	3.76e-03	4.08e-03	-7.56e-03	-4.95e-03	6.24e-04	-5.49e-02
## 1806	-4.98e-04	2.71e-04	2.45e-04	-3.02e-05	-1.37e-04	-2.77e-04	-1.32e-03
## 1807	2.23e-02	-9.57e-04	-9.59e-03	2.73e-02	1.25e-02	-5.92e-03	8.15e-02
## 1808	-7.26e-03	2.69e-02	-9.22e-03	-2.91e-02	2.32e-02	-1.56e-02	8.28e-02
## 1809	-2.10e-02	-8.56e-03	-1.17e-02	6.29e-04	-1.41e-02	-1.78e-02	6.59e-02
## 1810	1.05e-04	3.74e-03	5.53e-04	1.33e-03	-6.96e-04	1.88e-03	6.56e-03
## 1811	1.95e-05	-1.45e-04	-2.07e-03	9.42e-06	-2.91e-03	6.85e-03	-1.37e-02
## 1812	-2.54e-03	-4.61e-03	4.02e-03	3.11e-03	-1.08e-02	8.98e-03	2.10e-02
## 1813	-1.10e-03	9.57e-03	1.01e-02	-5.38e-03	2.62e-04	9.30e-03	2.82e-02
## 1814	9.28e-03	-1.34e-02	1.29e-02	-9.02e-03	8.29e-03	6.63e-03	3.69e-02
## 1815	-3.11e-04	-1.21e-04	-1.80e-04	7.57e-06	-1.63e-04	1.10e-04	-7.95e-04
## 1816	4.09e-03	8.43e-04	1.33e-02	1.11e-02	-3.45e-03	1.06e-02	4.57e-02
## 1817	2.15e-02	6.90e-03	-2.87e-02	-7.72e-03	-1.17e-02	9.21e-04	-6.76e-02
## 1818	-2.76e-02	9.02e-03	5.72e-03	8.40e-03	-1.27e-02	-3.36e-03	-6.96e-02
## 1819	-1.55e-02	-6.62e-04	1.06e-02	1.28e-02	-2.09e-02	3.64e-03	-6.10e-02

## 1820	2.38e-04	6.59e-04	-2.53e-03	4.39e-03	-4.29e-03	9.28e-03	-1.80e-02
## 1821	1.53e-03	-6.72e-03	-7.73e-03	4.64e-03	-9.97e-03	-1.04e-03	3.92e-02
## 1822	-1.16e-02	-1.45e-02	-2.94e-03	8.73e-03	-4.04e-04	9.72e-03	4.49e-02
## 1823	-1.18e-02	-1.65e-02	-6.32e-03	-1.24e-02	-5.23e-03	-2.12e-03	4.94e-02
## 1824	-7.67e-04	-1.40e-03	2.07e-03	1.03e-03	-1.54e-03	-2.44e-03	9.33e-03
## 1825	1.88e-02	1.00e-02	-1.18e-02	3.37e-03	2.45e-02	-5.26e-03	6.20e-02
## 1826	-2.74e-06	-9.76e-05	-2.63e-05	-7.24e-05	-1.19e-05	-2.40e-06	-2.39e-04
## 1827	5.08e-04	-8.21e-03	-8.28e-03	1.31e-02	-1.15e-02	-8.24e-03	4.93e-02
## 1828	2.54e-02	3.35e-02	8.47e-03	-1.63e-02	1.49e-02	1.03e-02	-1.14e-01
## 1829	8.25e-04	-4.70e-04	8.97e-03	-1.42e-03	-4.61e-03	5.34e-03	3.31e-02
## 1830	-4.69e-03	-8.94e-03	-2.51e-02	2.94e-03	1.52e-02	-2.16e-02	-8.22e-02
## 1831	3.94e-03	5.41e-03	-1.31e-02	-4.82e-04	-1.14e-02	1.47e-02	5.20e-02
## 1832	1.12e-02	1.28e-02	5.55e-03	-6.03e-03	-1.76e-02	1.50e-02	-6.37e-02
## 1833	1.19e-02	2.18e-02	-2.02e-02	6.67e-02	5.42e-02	-4.55e-02	-1.14e-01
## 1834	-1.83e-02	-1.26e-02	-2.88e-03	1.00e-02	-2.76e-03	8.56e-03	5.99e-02
## 1835	-4.87e-05	1.92e-02	-1.05e-02	-7.61e-03	-9.96e-03	9.32e-03	3.29e-02
## 1836	-3.98e-03	-2.22e-02	-4.49e-02	3.45e-02	-1.64e-02	-4.22e-02	-1.40e-01
## 1837	-4.10e-04	-1.61e-03	1.16e-03	1.02e-03	-4.32e-04	-2.33e-03	5.84e-03
## 1838	-1.00e-02	-1.35e-02	-5.89e-03	4.38e-03	-9.28e-03	-3.91e-03	3.48e-02
## 1839	1.50e-04	4.60e-04	-2.30e-03	1.67e-04	-3.95e-03	8.36e-03	-1.60e-02
## 1840	-1.74e-03	1.07e-03	-1.68e-03	2.70e-04	1.02e-03	7.03e-04	-7.19e-03
## 1841	3.64e-03	-1.78e-03	-3.48e-03	-3.54e-03	2.91e-03	-5.26e-03	2.10e-02
## 1842	-7.37e-04	1.06e-03	1.75e-03	2.77e-03	-2.50e-03	1.42e-03	9.06e-03
## 1843	6.19e-05	-1.32e-03	-1.36e-03	8.70e-04	-1.42e-03	3.09e-03	-8.64e-03
## 1844	-3.40e-04	-6.20e-04	9.81e-04	1.93e-03	-4.76e-04	-7.62e-04	4.78e-03
## 1845	-5.91e-03	-2.31e-03	2.01e-02	-6.91e-04	1.34e-02	-1.66e-02	-6.65e-02
## 1846	2.53e-03	-9.79e-03	-5.29e-03	-1.30e-03	-1.03e-02	-2.86e-03	3.34e-02
## 1847	3.02e-02	-5.88e-03	1.38e-02	1.17e-03	1.34e-02	-2.15e-02	-8.32e-02
## 1848	-6.42e-03	-5.62e-03	-2.55e-02	2.44e-02	9.11e-03	-2.33e-02	-7.51e-02
## 1849	-6.38e-03	-5.31e-03	-2.49e-02	2.74e-03	9.08e-03	-2.31e-02	-7.16e-02
## 1850	3.09e-02	-5.44e-03	1.25e-02	1.31e-03	2.17e-02	-4.44e-03	-8.91e-02
## 1851	1.77e-06	4.10e-04	-6.27e-04	5.45e-04	5.24e-05	-2.93e-04	1.39e-03
## 1852	-3.60e-03	2.46e-02	2.14e-02	1.16e-02	2.42e-02	3.74e-03	-1.20e-01
## 1853	-5.81e-03	-3.00e-03	-4.27e-03	-2.35e-04	-3.34e-03	1.96e-03	-2.38e-02
## 1854	-1.68e-02	4.59e-03	1.50e-02	-6.19e-03	-2.39e-02	2.87e-03	-7.44e-02
## 1855	2.92e-02	2.52e-02	9.12e-03	-1.52e-02	-1.59e-02	-6.12e-03	-9.86e-02
## 1856	1.38e-04	2.81e-04	-1.85e-03	-6.78e-03	-4.26e-03	8.31e-03	-1.60e-02
## 1857	-6.98e-03	-5.93e-03	-2.42e-02	-1.79e-02	5.67e-03	-2.05e-02	-7.22e-02
## 1858	1.18e-02	-1.67e-02	-4.69e-03	6.59e-03	-5.09e-03	-9.68e-03	4.97e-02
## 1859	-1.28e-03	5.80e-03	3.98e-03	4.82e-03	-9.13e-03	6.43e-03	2.77e-02
## 1860	-1.70e-02	1.02e-02	1.26e-02	1.42e-02	-3.67e-03	1.02e-04	5.34e-02
## 1861	-8.55e-03	1.36e-02	-3.21e-03	9.80e-03	-1.38e-03	6.56e-03	5.76e-02
## 1862	-1.26e-03	-3.01e-03	-2.29e-03	-4.55e-03	-6.46e-04	6.50e-03	1.97e-02
## 1863	-2.00e-02	-3.91e-03	-2.43e-02	-8.16e-04	-2.30e-02	1.64e-02	-6.17e-02
## 1864	2.59e-03	4.75e-03	-1.20e-02	-2.60e-02	-1.34e-02	1.58e-02	4.85e-02
## 1865	2.63e-04	2.65e-04	-1.84e-03	7.33e-05	-1.52e-03	6.00e-03	-1.17e-02
## 1866	3.93e-03	6.35e-03	-1.37e-02	1.18e-02	-9.26e-03	1.36e-02	4.59e-02
## 1867	-1.48e-02	-1.53e-02	-5.32e-03	7.79e-03	3.60e-03	-1.44e-03	4.50e-02
## 1868	1.23e-05	-1.61e-03	-7.77e-04	2.40e-03	-1.58e-04	5.02e-04	-5.27e-03
## 1869	-5.33e-03	-2.59e-03	3.89e-03	-3.62e-04	9.59e-04	1.21e-04	-1.60e-02

## 1870	-2.43e-03	3.27e-03	2.77e-03	-5.76e-04	-8.23e-04	-1.40e-03	1.03e-02
## 1871	2.45e-05	1.86e-04	-1.44e-04	1.21e-05	-7.42e-05	3.27e-04	8.00e-04
## 1872	-5.55e-03	1.06e-02	-4.78e-03	-3.92e-03	4.25e-03	1.23e-02	5.09e-02
## 1873	4.14e-03	-1.44e-03	-6.08e-03	-1.78e-05	6.42e-03	-1.73e-03	-2.01e-02
## 1874	-3.14e-03	-4.89e-03	-1.05e-02	-1.01e-02	-1.61e-02	1.10e-02	2.80e-02
## 1875	-1.27e-02	-9.37e-03	9.06e-03	-1.13e-04	-2.03e-02	4.42e-04	-3.88e-02
## 1876	1.46e-02	-5.45e-03	4.28e-03	-1.23e-03	-1.13e-02	9.17e-03	-3.50e-02
## 1877	-2.11e-02	-8.23e-03	-8.48e-03	-1.68e-02	-6.37e-03	-2.86e-03	5.25e-02
## 1878	-1.84e-02	-9.47e-03	-8.61e-03	1.12e-02	-5.45e-03	-3.89e-04	3.92e-02
## 1879	-3.14e-02	2.21e-02	6.15e-03	2.70e-02	1.66e-03	9.52e-03	-1.04e-01
## 1880	1.06e-03	2.89e-03	3.45e-03	-5.67e-03	3.24e-04	-3.61e-04	1.45e-02
## 1881	-1.35e-02	-8.73e-03	-5.79e-03	-3.69e-03	-4.62e-03	-4.91e-03	2.82e-02
## 1882	-5.17e-03	-2.45e-03	6.76e-03	4.41e-03	-2.03e-03	1.62e-03	-2.18e-02
## 1883	-1.53e-02	2.08e-04	-2.55e-02	-3.85e-03	-2.15e-02	-2.69e-05	-5.35e-02
## 1884	3.70e-03	5.85e-03	6.38e-03	-9.50e-03	-5.15e-04	4.26e-04	2.62e-02
## 1885	6.92e-03	1.29e-03	-1.15e-02	1.34e-02	-3.03e-03	8.14e-03	5.68e-02
## 1886	9.49e-03	1.97e-02	3.79e-02	8.99e-03	5.14e-02	-4.01e-02	-1.02e-01
## 1887	-5.17e-03	-8.94e-03	-2.46e-02	-1.68e-02	1.33e-02	-2.04e-02	-8.29e-02
## 1888	-2.71e-02	6.83e-03	-8.72e-03	-1.95e-02	-2.44e-02	2.81e-03	9.86e-02
## 1889	-2.78e-02	-7.38e-03	-1.03e-02	2.42e-03	-1.24e-02	-9.04e-03	5.74e-02
## 1890	-1.49e-02	-1.77e-02	-6.74e-03	7.78e-03	-6.55e-03	-3.90e-03	6.18e-02
## 1891	2.58e-03	-1.81e-03	2.43e-03	2.71e-03	3.07e-03	-1.54e-03	-1.28e-02
## 1892	1.00e-03	-5.23e-03	2.97e-03	1.46e-03	-1.77e-03	-2.80e-03	1.22e-02
## 1893	-3.64e-03	1.14e-02	1.66e-02	3.60e-02	2.66e-02	-4.40e-03	-1.10e-01
## 1894	1.90e-02	-4.92e-03	-2.11e-02	-1.11e-03	-1.61e-02	6.06e-03	-5.27e-02
## 1895	-2.32e-02	-3.53e-03	-8.81e-03	-1.16e-02	1.71e-02	-1.74e-02	7.37e-02
## 1896	1.92e-04	6.34e-03	7.71e-04	1.63e-03	-1.49e-03	3.83e-03	1.08e-02
## 1897	-6.39e-04	2.36e-03	2.23e-03	-7.39e-04	-3.95e-03	4.02e-03	1.12e-02
## 1898	2.86e-03	-1.20e-03	3.91e-03	-3.23e-04	5.46e-03	-1.65e-03	-1.36e-02
## 1899	-2.10e-02	9.29e-03	-8.21e-03	2.28e-03	3.22e-02	-2.87e-02	8.41e-02
## 1900	2.97e-02	4.05e-02	8.57e-03	-1.90e-02	-5.10e-03	-4.33e-03	-1.11e-01
## 1901	-1.28e-03	-1.33e-03	-6.73e-03	6.78e-03	-4.43e-03	-3.78e-03	1.82e-02
## 1902	3.71e-03	9.80e-04	5.21e-03	-2.00e-03	4.42e-03	-2.37e-03	2.08e-02
## 1903	-2.08e-02	-9.67e-03	-9.26e-03	1.55e-03	-1.19e-02	-1.77e-02	5.44e-02
## 1904	1.76e-04	-5.78e-04	-1.95e-03	4.41e-04	-2.70e-03	6.41e-03	-1.31e-02
## 1905	-5.16e-04	2.47e-03	1.84e-03	2.59e-03	-3.51e-03	4.69e-03	1.31e-02
## 1906	6.95e-03	2.65e-03	-1.21e-02	-5.55e-04	-6.08e-03	1.53e-02	6.19e-02
## 1907	-7.40e-03	-1.84e-03	-3.78e-03	-1.24e-04	-2.01e-03	-4.35e-03	-1.28e-02
## 1908	-3.46e-04	-9.14e-04	-1.98e-03	-2.05e-03	-7.90e-04	-8.80e-04	4.90e-03
## 1909	1.73e-02	9.39e-04	-3.45e-03	7.21e-03	1.66e-03	7.58e-03	3.36e-02
## 1910	1.16e-02	-5.67e-03	1.87e-02	3.70e-04	-9.46e-03	-4.81e-03	6.18e-02
## 1911	3.28e-03	-7.10e-03	-7.43e-03	-5.59e-03	-4.13e-03	2.56e-03	3.07e-02
## 1912	-2.62e-02	2.08e-02	1.01e-02	2.73e-02	-6.29e-03	-5.16e-03	-8.95e-02
## 1913	2.54e-03	-1.43e-03	-4.21e-03	-3.36e-04	5.01e-03	-1.09e-03	-1.41e-02
## 1914	1.26e-03	-5.87e-03	4.56e-03	1.09e-03	-3.68e-04	-8.53e-04	1.71e-02
## 1915	-1.05e-02	-1.15e-03	-2.29e-02	-1.86e-02	6.62e-03	-9.16e-03	-8.31e-02
## 1916	-2.45e-03	-7.88e-03	-7.27e-03	-1.06e-02	-9.80e-03	2.66e-03	2.29e-02
## 1917	6.75e-04	-6.40e-04	8.87e-04	-7.24e-05	1.28e-03	-4.58e-04	-4.14e-03
## 1918	9.82e-03	-1.00e-02	1.58e-02	3.30e-03	-6.90e-03	-1.71e-04	5.04e-02
## 1919	1.90e-05	-1.56e-03	-6.13e-04	2.15e-03	-1.27e-05	1.64e-04	-4.46e-03

##	1920	2.89e-02	-5.65e-03	3.44e-02	-2.90e-02	1.31e-02	1.00e-03	9.00e-02
##	1921	2.49e-03	1.43e-03	-1.31e-03	-1.34e-03	-5.89e-04	3.76e-04	6.50e-03
##	1922	8.39e-03	2.92e-02	6.48e-03	-1.36e-02	2.28e-03	-9.35e-03	-7.63e-02
##	1923	6.00e-03	4.02e-02	6.18e-03	2.69e-02	3.38e-03	-1.06e-02	-9.35e-02
##	1924	1.24e-02	5.59e-02	4.07e-02	-3.32e-02	3.56e-02	3.38e-03	-1.11e-01
##	1925	-3.13e-02	7.92e-03	-1.26e-02	1.63e-03	3.33e-02	-1.37e-02	8.61e-02
##	1926	-3.16e-03	-4.90e-03	-1.10e-02	-2.89e-03	-1.60e-02	1.09e-02	2.70e-02
##	1927	-9.94e-04	-7.91e-04	-2.89e-03	-9.66e-03	-8.31e-04	3.95e-03	3.23e-02
##	1928	-2.47e-03	-4.67e-03	4.28e-03	3.28e-03	-1.07e-02	9.11e-03	2.15e-02
##	1929	-1.02e-03	2.41e-03	-7.47e-03	4.46e-03	-5.47e-03	2.61e-03	1.53e-02
##	1930	-1.12e-02	-5.42e-03	1.26e-02	-1.91e-03	-2.43e-02	1.77e-02	-6.75e-02
##	1931	-4.09e-04	-1.12e-03	-1.99e-03	-2.00e-03	-7.99e-04	-1.49e-03	5.52e-03
##	1932	-3.56e-04	2.37e-04	7.69e-04	8.08e-04	1.85e-04	2.41e-04	-3.00e-03
##	1933	1.20e-04	3.71e-03	5.95e-04	1.44e-03	-6.80e-04	1.84e-03	6.61e-03
##	1934	-2.36e-03	-4.85e-03	4.67e-03	3.71e-03	-1.09e-02	9.56e-03	2.25e-02
##	1935	-2.89e-03	-5.30e-03	-1.13e-02	4.08e-03	-1.39e-02	1.10e-02	3.04e-02
##	1936	-2.44e-03	3.03e-03	-3.23e-03	-2.81e-03	9.77e-04	1.43e-03	-1.31e-02
##	1937	-2.90e-02	6.77e-04	1.66e-02	1.17e-02	-6.67e-03	5.50e-03	5.36e-02
##	1938	5.72e-05	-1.34e-03	-6.64e-04	7.00e-04	-2.36e-04	8.93e-04	-4.08e-03
##	1939	2.76e-03	6.72e-03	-1.32e-02	-1.53e-02	-1.76e-02	1.25e-02	5.68e-02
##	1940	-1.42e-02	7.17e-04	-2.42e-02	-1.79e-02	-2.91e-03	-3.28e-02	-1.03e-01
##	1941	7.80e-05	4.56e-04	-2.55e-03	4.29e-03	-3.83e-03	8.13e-03	-1.72e-02
##	1942	2.24e-02	-1.74e-02	-4.46e-03	-2.33e-03	5.93e-04	1.04e-02	4.93e-02
##	1943	4.71e-03	-1.25e-03	-1.61e-03	-2.46e-03	1.03e-03	2.95e-03	1.27e-02
##	1944	1.90e-02	-4.49e-03	-2.10e-02	-6.48e-04	-2.36e-02	8.33e-03	-4.98e-02
##	1945	-3.06e-05	6.05e-04	1.04e-03	-7.54e-04	5.23e-04	1.10e-03	3.44e-03
##	1946	-4.36e-02	3.57e-02	4.50e-03	2.53e-02	3.75e-03	-2.70e-02	-1.11e-01
##	1947	4.64e-03	-4.71e-03	1.08e-02	-7.94e-03	-4.31e-03	3.13e-03	4.06e-02
##	1948	-1.92e-02	-1.62e-02	-8.32e-03	-2.43e-02	1.31e-02	-1.54e-02	8.12e-02
##	1949	-1.21e-02	-7.67e-03	1.01e-02	-2.97e-04	-2.44e-02	9.12e-03	-6.11e-02
##	1950	-1.02e-02	-8.43e-03	6.59e-03	-8.82e-04	-1.45e-02	4.22e-03	-3.59e-02
##	1951	-8.91e-03	-1.86e-02	-2.83e-03	-1.75e-02	-7.13e-04	1.13e-02	5.84e-02
##	1952	4.62e-03	2.77e-03	-1.30e-03	-1.73e-03	4.38e-04	3.01e-03	9.23e-03
##	1953	9.16e-04	-8.08e-03	5.74e-03	3.22e-03	-2.58e-03	-1.15e-03	2.20e-02
##	1954	1.66e-02	-4.84e-03	-8.16e-03	-2.40e-02	1.04e-02	-9.37e-03	6.57e-02
##	1955	5.40e-03	-4.48e-03	1.05e-02	-4.50e-04	-1.59e-04	6.01e-03	4.65e-02
##	1956	1.18e-02	-1.43e-02	1.48e-02	-3.84e-03	1.08e-02	-7.13e-03	4.66e-02
##	1957	1.40e-03	2.40e-03	-4.72e-03	-6.06e-03	-2.77e-03	-1.59e-03	2.00e-02
##	1958	-7.68e-03	1.52e-02	-1.02e-02	-8.61e-03	1.68e-02	-1.39e-02	6.39e-02
##	1959	1.63e-02	4.19e-03	2.52e-02	-3.13e-02	2.87e-02	2.11e-03	6.12e-02
##	1960	6.29e-05	-5.61e-05	-1.75e-04	3.01e-04	3.23e-05	-1.29e-04	7.62e-04
##	1961	-3.57e-03	1.82e-02	2.68e-02	4.35e-02	1.95e-02	-8.76e-03	-1.03e-01
##	1962	1.00e-03	-4.10e-03	1.60e-02	-7.51e-03	-1.12e-02	-2.19e-04	5.03e-02
##	1963	6.06e-02	4.23e-02	3.48e-02	-1.42e-03	4.95e-02	1.08e-02	-1.54e-01
##	1964	-2.23e-03	3.61e-03	-4.71e-03	1.76e-02	5.69e-03	3.46e-03	4.30e-02
##	1965	-1.75e-03	3.02e-03	3.10e-03	2.39e-03	1.69e-03	-1.80e-03	1.45e-02
##	1966	-1.97e-02	-4.33e-03	5.59e-03	-2.25e-03	-1.64e-02	5.77e-03	-4.80e-02
##	1967	-9.92e-04	1.94e-03	-6.44e-03	-4.20e-03	-5.85e-03	3.21e-03	1.38e-02
##	1968	-2.38e-02	-9.01e-03	2.90e-02	6.80e-03	2.39e-02	-6.22e-03	7.25e-02
##	1969	2.31e-03	-8.69e-04	4.28e-03	-3.88e-03	2.13e-03	-1.21e-03	-1.60e-02

##	1970	-1.27e-02	-4.91e-03	7.55e-03	-3.28e-03	-1.50e-02	2.46e-03	-4.64e-02
##	1971	4.34e-05	3.44e-03	6.83e-04	1.55e-03	-4.25e-04	8.74e-04	5.78e-03
##	1972	6.95e-03	-3.91e-03	1.24e-03	-8.23e-04	-3.24e-03	9.21e-03	-2.60e-02
##	1973	2.80e-02	-3.14e-03	-3.48e-03	8.70e-03	4.34e-03	-5.46e-03	7.48e-02
##	1974	-2.28e-03	-1.45e-03	-1.46e-03	-2.43e-03	-3.91e-04	5.99e-04	-6.72e-03
##	1975	3.83e-06	-1.70e-04	2.55e-04	2.27e-04	2.38e-05	8.41e-05	-5.91e-04
##	1976	-3.01e-02	1.41e-03	-9.67e-03	6.00e-03	1.78e-02	-3.33e-02	9.22e-02
##	1977	8.00e-03	5.11e-02	6.79e-03	2.65e-03	1.60e-02	-1.71e-02	-1.01e-01
##	1978	-1.83e-03	-6.24e-03	2.85e-03	3.19e-03	-5.31e-03	3.19e-03	1.61e-02
##	1979	-1.01e-02	1.68e-03	9.65e-03	1.09e-02	-3.41e-03	-6.25e-03	3.77e-02
##	1980	2.18e-02	9.62e-04	5.26e-03	2.20e-02	-1.20e-02	1.25e-02	-6.32e-02
##	1981	-1.19e-02	5.87e-03	-2.67e-02	-2.28e-02	-1.89e-03	-1.68e-02	-1.09e-01
##	1982	-1.55e-03	2.75e-03	-1.45e-03	-1.99e-03	1.45e-03	2.94e-03	1.06e-02
##	1983	-3.20e-02	1.36e-02	8.95e-03	2.85e-02	-1.35e-02	1.08e-02	-8.62e-02
##	1984	9.40e-03	-3.80e-03	1.02e-02	-2.06e-02	1.58e-02	-1.51e-02	-9.64e-02
##	1985	7.94e-03	8.66e-03	-5.47e-03	-2.00e-03	3.69e-03	-2.82e-04	2.48e-02
##	1986	-1.64e-02	-3.07e-03	2.74e-03	-3.40e-03	-5.60e-03	4.28e-03	-4.18e-02
##	1987	-6.32e-03	-7.35e-04	7.50e-03	-1.88e-03	-6.19e-03	-1.06e-03	2.36e-02
##	1988	2.56e-02	-4.12e-04	-7.57e-03	4.91e-03	1.89e-02	-1.41e-02	6.73e-02
##	1989	-6.29e-03	-4.89e-03	2.07e-02	1.06e-03	1.34e-02	-2.27e-02	-7.70e-02
##	1990	-6.06e-04	7.13e-04	1.69e-03	2.73e-03	-2.06e-03	1.07e-03	8.36e-03
##	1991	-1.06e-02	-1.02e-02	6.31e-03	-6.67e-04	-1.35e-02	-3.70e-04	-4.09e-02
##	1992	7.55e-03	-1.37e-03	-4.30e-03	-1.09e-02	-1.77e-03	9.29e-04	-2.67e-02
##	1993	1.28e-03	4.92e-03	-2.65e-03	-4.32e-03	1.83e-03	6.38e-03	1.99e-02
##	1994	2.06e-02	-4.49e-04	-2.47e-02	1.78e-03	1.04e-02	-1.20e-02	-8.43e-02
##	1995	-1.55e-02	2.10e-04	8.43e-03	-5.50e-03	-1.67e-02	-5.72e-04	-4.70e-02
##	1996	2.09e-02	3.27e-03	2.88e-02	-1.46e-02	2.57e-02	-6.77e-03	8.03e-02
##	1997	-2.30e-03	-5.48e-03	4.27e-03	3.79e-03	-9.74e-03	7.66e-03	2.01e-02
##	1998	1.47e-03	1.01e-03	8.98e-04	-2.09e-04	1.07e-03	-5.29e-04	4.55e-03
##	1999	-3.55e-03	-5.01e-02	1.57e-02	-2.02e-02	-2.29e-02	-2.96e-02	-1.16e-01
##	2000	-2.58e-02	5.27e-03	6.51e-03	-1.98e-02	-1.04e-02	8.82e-03	-5.76e-02
##	2001	9.70e-03	-8.80e-03	-3.97e-02	-3.77e-02	-1.91e-02	-1.16e-02	-1.00e-01
##	2002	-3.13e-03	-1.77e-03	-2.50e-02	1.14e-03	1.82e-02	-1.54e-02	-7.80e-02
##	2003	1.76e-02	-6.13e-03	6.44e-03	-6.50e-04	-1.61e-02	6.84e-03	-4.07e-02
##	2004	-1.73e-02	3.03e-03	9.65e-03	-1.70e-02	-2.39e-02	1.94e-02	-7.34e-02
##	2005	-8.22e-03	-2.15e-03	5.69e-03	4.66e-03	5.65e-03	-1.79e-03	-2.11e-02
##	2006	-1.13e-02	-7.21e-03	6.53e-03	2.26e-02	-1.39e-02	2.46e-03	-4.48e-02
##	2007	-2.76e-03	-6.72e-03	3.16e-03	1.67e-03	-3.30e-03	-5.20e-04	1.15e-02
##	2008	-3.88e-02	3.21e-02	1.12e-02	-1.71e-02	-1.12e-04	8.30e-03	-1.01e-01
##	2009	-2.44e-04	-3.61e-04	6.80e-04	-9.34e-04	-5.13e-04	2.93e-05	3.70e-03
##	2010	2.99e-03	-7.02e-03	7.26e-03	-1.12e-02	-1.36e-03	-3.69e-03	3.12e-02
##	2011	3.03e-03	-8.27e-03	1.16e-02	1.26e-02	-2.91e-03	2.89e-03	4.03e-02
##	2012	1.80e-02	-1.62e-03	-2.15e-02	-2.70e-03	-1.87e-02	9.34e-03	-4.89e-02
##	2013	-1.22e-06	-5.88e-04	-2.34e-04	7.01e-04	1.92e-05	1.10e-04	-1.63e-03
##	2014	-5.77e-03	-8.76e-03	1.93e-02	-1.74e-02	1.37e-02	-2.01e-02	-6.61e-02
##	2015	3.55e-03	6.65e-03	-4.80e-02	-2.40e-02	3.74e-03	-3.81e-02	-1.15e-01
##	2016	-5.88e-03	-1.47e-04	-3.72e-03	7.32e-03	-3.64e-03	-1.48e-03	2.08e-02
##	2017	-8.99e-05	-9.69e-04	-1.54e-03	-2.21e-03	-1.15e-03	-1.10e-03	-5.56e-03
##	2018	-2.78e-02	1.18e-03	-8.27e-03	5.49e-03	2.34e-02	-1.51e-02	7.20e-02
##	2019	-8.51e-03	-8.22e-03	4.12e-03	-2.79e-03	-9.75e-03	9.72e-03	-4.64e-02

##	2020	-7.58e-03	2.67e-02	2.83e-02	3.96e-03	3.30e-02	-1.97e-02	7.67e-02
##	2021	-1.66e-04	-5.33e-04	4.62e-04	6.45e-04	2.38e-04	-1.48e-03	-2.85e-03
##	2022	-1.25e-03	-2.05e-03	9.80e-03	-5.19e-03	-1.71e-03	8.15e-03	2.58e-02
##	2023	-4.99e-04	4.36e-04	1.88e-03	3.26e-03	-1.96e-03	7.06e-04	1.03e-02
##	2024	1.29e-04	5.14e-03	9.16e-04	1.91e-03	-1.03e-03	2.18e-03	8.27e-03
##	2025	3.10e-02	2.17e-03	1.96e-02	1.54e-03	-2.00e-02	-2.88e-02	-1.41e-01
##	2026	-3.69e-04	-2.07e-03	1.12e-02	-1.98e-02	-5.82e-03	-2.72e-03	5.13e-02
##	2027	8.22e-03	4.74e-04	1.36e-02	1.03e-02	2.11e-05	2.02e-02	5.73e-02
##	2028	1.24e-02	4.15e-03	-2.58e-02	-3.39e-03	-1.69e-02	8.19e-03	-5.95e-02
##	2029	1.02e-02	1.38e-02	3.68e-02	-1.41e-02	5.18e-02	-3.67e-02	-9.10e-02
##	2030	9.00e-04	1.62e-04	-2.02e-03	-2.20e-03	-5.64e-04	-5.49e-04	7.26e-03
##	2031	-1.14e-02	-8.18e-03	-4.59e-03	2.77e-03	-4.19e-03	-2.22e-03	2.54e-02
##	2032	1.86e-02	1.53e-02	3.57e-02	1.82e-03	2.61e-02	-7.48e-03	9.21e-02
##	2033	2.07e-02	2.00e-02	-1.22e-02	2.28e-02	2.85e-02	-1.36e-03	8.09e-02
##	2034	1.11e-02	8.95e-03	5.55e-03	-6.17e-03	-1.44e-02	2.73e-03	-5.82e-02
##	2035	-1.40e-02	-1.24e-04	8.30e-03	-5.84e-03	-1.57e-02	7.41e-03	-5.50e-02
##	2036	3.58e-03	-1.58e-03	-5.98e-03	4.63e-03	6.18e-03	-2.22e-03	-1.88e-02
##	2037	1.38e-04	7.33e-03	1.03e-03	1.90e-03	-1.89e-03	3.91e-03	1.13e-02
##	2038	2.90e-03	-9.37e-03	1.07e-02	-1.13e-02	-9.25e-03	-3.93e-03	4.07e-02
##	2039	1.66e-02	3.07e-03	2.75e-02	3.07e-03	2.57e-02	9.95e-04	6.52e-02
##	2040	-7.90e-04	3.54e-03	2.24e-03	2.79e-03	-4.74e-03	5.23e-03	1.37e-02
##	2041	7.05e-04	4.18e-03	-1.61e-03	-3.23e-03	-4.23e-04	5.30e-03	1.41e-02
##	2042	8.10e-03	2.60e-03	1.36e-02	9.06e-03	-1.14e-03	2.35e-02	6.06e-02
##	2043	-2.35e-02	-5.63e-03	-1.32e-02	9.24e-04	-1.31e-02	-1.93e-02	7.01e-02
##	2044	8.14e-03	3.31e-03	2.77e-03	2.02e-02	-4.74e-03	8.31e-03	-5.41e-02
##	2045	9.78e-03	-1.27e-02	-2.87e-03	-6.39e-03	1.89e-04	5.93e-03	3.31e-02
##	2046	-2.72e-03	-1.30e-03	2.50e-03	1.59e-03	-2.34e-03	2.81e-03	-1.09e-02
##	2047	6.64e-05	2.97e-05	-1.74e-03	-6.24e-03	-3.69e-03	7.14e-03	-1.44e-02
##	2048	-4.64e-03	-2.21e-02	-3.74e-03	8.99e-03	-2.76e-03	2.03e-03	5.03e-02
##	2049	-2.68e-02	2.50e-02	1.12e-02	2.76e-02	-3.24e-03	-6.12e-03	-9.59e-02
##	2050	-3.73e-03	-7.51e-03	1.62e-02	1.01e-04	2.04e-02	-1.45e-02	-6.65e-02
##	2051	-5.48e-03	-1.99e-02	-4.75e-03	-3.38e-03	-3.78e-03	-6.33e-04	4.34e-02
##	2052	1.02e-02	-1.09e-02	1.66e-02	-1.21e-02	9.08e-03	3.65e-03	4.13e-02
##	2053	3.55e-02	2.87e-02	1.59e-02	-8.92e-03	3.09e-02	2.10e-02	-1.06e-01
##	2054	5.00e-03	-1.17e-03	-6.64e-03	5.56e-03	7.92e-03	-1.62e-03	-2.29e-02
##	2055	2.39e-02	-1.46e-02	-6.23e-03	8.07e-03	4.07e-03	-6.29e-03	5.80e-02
##	2056	3.67e-03	-8.57e-04	-5.70e-03	-5.14e-03	4.65e-03	-1.30e-03	-1.88e-02
##	2057	-1.05e-02	1.01e-02	-2.43e-02	3.33e-05	9.98e-03	-1.18e-02	-9.85e-02
##	2058	-2.04e-05	1.76e-04	-4.64e-04	-2.49e-05	-2.84e-05	-5.33e-04	1.36e-03
##	2059	-1.91e-03	-1.11e-03	-1.49e-03	-2.05e-03	-1.35e-03	3.09e-04	7.30e-03
##	2060	-1.78e-04	-2.66e-04	4.93e-04	-1.42e-03	-5.36e-04	1.65e-04	2.64e-03
##	2061	2.65e-02	-1.04e-02	2.80e-02	7.22e-03	1.58e-02	1.95e-03	6.22e-02
##	2062	-1.73e-05	1.30e-04	-4.51e-04	5.33e-04	5.85e-05	-5.32e-04	1.28e-03
##	2063	-2.43e-03	1.19e-03	-2.09e-03	-9.34e-03	-9.40e-03	1.32e-02	3.61e-02
##	2064	1.31e-02	-1.36e-02	1.28e-02	1.24e-02	6.18e-03	-2.90e-03	3.95e-02
##	2065	1.18e-02	-1.75e-03	5.57e-03	-1.38e-03	-1.53e-02	1.97e-02	-4.96e-02
##	2066	-2.86e-03	4.32e-02	2.42e-02	7.18e-03	2.92e-02	1.15e-02	-1.22e-01
##	2067	2.90e-03	1.45e-03	1.86e-03	-2.35e-05	1.41e-03	1.54e-03	5.98e-03
##	2068	6.65e-05	1.58e-04	-1.51e-04	4.11e-04	9.83e-05	7.59e-05	-9.04e-04
##	2069	-2.13e-03	-6.40e-03	3.62e-03	3.84e-03	-6.96e-03	3.61e-03	1.62e-02

## 2070	1.55e-02	3.05e-02	5.24e-03	7.32e-03	-2.29e-03	5.91e-03	-1.07e-01
## 2071	-5.87e-03	-1.92e-02	-1.95e-03	1.14e-02	-9.51e-03	1.25e-02	6.31e-02
## 2072	-1.49e-02	7.31e-03	9.11e-03	-6.38e-03	-3.18e-04	5.21e-04	3.44e-02
## 2073	-1.49e-02	-7.83e-03	-2.19e-02	-8.35e-05	-2.92e-02	1.19e-03	-4.75e-02
## 2074	2.23e-03	8.83e-03	-8.87e-03	8.36e-03	5.10e-04	-1.37e-03	3.05e-02
## 2075	-3.54e-03	-1.27e-02	-2.03e-03	5.22e-03	-4.55e-03	1.02e-02	3.01e-02
## 2076	-7.44e-04	8.62e-04	-6.46e-04	8.24e-05	-1.48e-03	2.93e-04	3.72e-03
## 2077	1.86e-02	-7.52e-03	-1.04e-02	-8.42e-03	1.97e-02	-8.84e-04	6.01e-02
## 2078	-2.70e-03	-9.27e-03	4.22e-03	5.10e-03	-7.48e-03	4.91e-04	2.35e-02
## 2079	9.81e-03	1.40e-02	3.62e-02	-1.49e-02	5.19e-02	-3.72e-02	-9.07e-02
## 2080	-1.53e-02	-4.93e-03	-2.38e-02	3.32e-02	-3.01e-02	-2.23e-03	-7.11e-02
## 2081	1.09e-02	5.44e-03	1.67e-03	-7.07e-03	1.62e-03	1.92e-03	-4.76e-02
## 2082	-2.81e-02	5.61e-03	-2.74e-02	-3.36e-03	-2.89e-02	3.09e-03	-6.98e-02
## 2083	-7.38e-03	-3.11e-03	2.30e-02	1.57e-03	1.40e-02	-1.55e-02	-1.02e-01
## 2084	5.43e-03	4.39e-03	8.09e-03	3.92e-03	-2.49e-04	-1.81e-04	3.04e-02
## 2085	1.43e-03	1.59e-03	1.13e-03	-2.20e-04	1.54e-03	-1.08e-03	5.82e-03
## 2086	4.52e-03	-1.30e-02	-5.79e-03	-1.77e-03	2.90e-03	-3.45e-03	3.44e-02
## 2087	3.04e-05	-1.49e-03	-1.04e-03	9.32e-04	-1.02e-03	1.86e-03	-7.56e-03
## 2088	8.08e-03	-2.07e-03	-5.94e-03	-5.63e-04	4.00e-03	-6.60e-04	-2.41e-02
## 2089	-3.02e-03	-7.75e-03	4.69e-03	-7.53e-03	-1.10e-02	5.01e-03	2.66e-02
## 2090	-1.95e-03	-6.79e-03	3.50e-03	4.07e-03	-6.20e-03	2.64e-03	1.54e-02
## 2091	-1.74e-02	-6.49e-03	5.79e-03	-2.62e-04	-1.56e-02	7.07e-03	-4.00e-02
## 2092	1.11e-02	2.11e-02	-1.89e-02	1.17e-02	5.02e-02	-4.23e-02	-9.27e-02
## 2093	-1.61e-02	-2.12e-03	-9.40e-03	4.23e-03	2.09e-02	-2.99e-02	7.98e-02
## 2094	-3.37e-02	2.97e-03	3.09e-02	2.22e-02	3.56e-02	-3.29e-02	9.95e-02
## 2095	1.42e-02	-1.39e-02	-6.22e-03	-3.60e-03	9.75e-03	1.57e-03	5.17e-02
## 2096	-3.13e-04	-2.31e-03	1.12e-02	-6.60e-03	-4.40e-04	1.08e-02	2.86e-02
## 2097	2.10e-02	-5.42e-03	1.82e-02	-1.64e-02	-1.85e-02	9.54e-03	-1.03e-01
## 2098	2.02e-02	-4.49e-03	-1.11e-02	-1.14e-02	1.95e-02	-6.87e-03	7.63e-02
## 2099	1.92e-02	1.05e-02	-1.06e-02	3.86e-03	2.10e-02	3.60e-03	7.42e-02
## 2100	1.64e-02	-3.33e-03	4.48e-03	7.56e-03	-1.03e-02	7.96e-03	-4.37e-02
## 2101	-1.26e-02	-6.43e-03	-2.09e-02	-1.17e-03	-2.15e-02	4.08e-03	-4.58e-02
## 2102	-1.63e-03	-4.17e-04	8.81e-04	-2.04e-04	1.15e-04	-1.29e-04	3.86e-03
## 2103	-2.05e-02	-1.16e-02	-7.05e-03	9.01e-03	4.18e-03	-9.99e-03	6.50e-02
## 2104	1.76e-03	-7.26e-03	6.64e-03	-6.98e-03	-9.57e-04	1.74e-03	2.24e-02
## 2105	-1.13e-05	2.42e-03	9.29e-04	-2.53e-03	-7.85e-04	1.03e-04	5.89e-03
## 2106	-2.35e-03	-5.07e-03	4.34e-03	-2.36e-03	-1.05e-02	8.61e-03	2.01e-02
## 2107	2.38e-05	4.18e-04	1.08e-04	2.98e-04	3.39e-05	4.74e-05	8.86e-04
## 2108	1.72e-03	6.69e-04	3.43e-03	1.72e-03	1.24e-04	-9.52e-04	1.38e-02
## 2109	-1.01e-02	5.78e-03	-6.38e-03	-2.76e-03	6.03e-03	3.07e-03	4.35e-02
## 2110	9.32e-04	-5.08e-03	-3.20e-03	4.71e-03	-1.31e-03	-1.56e-03	1.38e-02
## 2111	3.20e-04	1.14e-03	-6.65e-04	1.06e-03	-1.69e-04	2.09e-03	4.54e-03
## 2112	-7.59e-03	-8.12e-04	-2.32e-02	9.38e-04	1.57e-02	-4.62e-03	-8.47e-02
## 2113	1.97e-03	6.78e-05	-4.04e-03	3.13e-03	-1.44e-03	3.22e-03	-1.60e-02
## 2114	-2.31e-02	-6.00e-03	-9.38e-03	6.09e-03	2.10e-02	-9.32e-05	6.69e-02
## 2115	-3.29e-04	-9.19e-04	-1.76e-03	-1.77e-03	-6.20e-04	-1.00e-03	4.42e-03
## 2116	-1.19e-04	-1.13e-03	-9.58e-04	-3.10e-03	-1.48e-03	2.32e-03	-6.96e-03
## 2117	-2.45e-03	-4.68e-03	4.34e-03	3.33e-03	-1.07e-02	9.14e-03	2.17e-02
## 2118	-1.86e-02	1.68e-02	-1.09e-02	1.80e-02	-9.23e-03	-1.10e-02	6.66e-02
## 2119	1.46e-02	-4.23e-03	-7.42e-03	7.45e-03	1.50e-02	-4.60e-03	5.33e-02

##	2120	-1.20e-02	-7.31e-03	1.82e-02	1.62e-03	1.12e-02	-3.18e-02	-8.85e-02
##	2121	-1.34e-03	1.60e-03	-1.35e-03	1.37e-03	-1.22e-03	1.17e-03	6.84e-03
##	2122	3.24e-03	3.06e-03	1.30e-02	9.46e-03	-4.49e-03	1.18e-02	3.99e-02
##	2123	-2.45e-02	-1.22e-02	3.10e-02	-1.70e-02	-1.28e-02	2.01e-02	-1.35e-01
##	2124	5.38e-03	-1.08e-02	-5.21e-03	-2.24e-03	-9.24e-03	-4.49e-03	2.99e-02
##	2125	-1.02e-02	-8.42e-03	6.64e-03	-8.72e-04	-1.45e-02	4.17e-03	-3.59e-02
##	2126	-4.39e-02	-1.32e-02	1.44e-02	-1.75e-02	-1.44e-02	-7.89e-03	-1.04e-01
##	2127	1.59e-03	9.93e-04	7.51e-04	-3.29e-04	8.12e-04	-5.35e-04	4.41e-03
##	2128	-4.11e-04	5.09e-06	1.12e-03	2.08e-03	-1.20e-03	6.91e-04	6.44e-03
##	2129	-1.07e-02	-1.03e-02	6.13e-03	-7.09e-04	-1.39e-02	-1.19e-04	-4.06e-02
##	2130	-2.43e-03	-4.82e-03	4.47e-03	3.57e-03	-1.10e-02	9.47e-03	2.21e-02
##	2131	-7.63e-03	-1.57e-02	-2.61e-03	-2.22e-03	-4.28e-03	6.64e-03	4.42e-02
##	2132	2.82e-02	-2.31e-04	-7.46e-03	4.96e-03	1.93e-02	-1.72e-02	8.61e-02
##	2133	-1.21e-04	1.13e-02	-7.59e-03	-9.31e-03	-6.06e-03	5.05e-03	2.34e-02
##	2134	5.04e-03	-2.56e-03	-3.16e-03	4.24e-03	-6.49e-04	-2.03e-04	-1.65e-02
##	2135	-2.58e-02	-4.29e-04	-1.06e-02	1.07e-03	-1.60e-02	-1.78e-03	6.37e-02
##	2136	2.37e-02	1.55e-02	-3.13e-02	8.40e-03	-2.14e-02	-9.25e-04	-7.75e-02
##	2137	-1.62e-03	-6.13e-03	2.71e-03	-6.61e-04	-5.11e-03	2.80e-03	1.35e-02
##	2138	-1.16e-02	3.53e-03	5.70e-03	8.02e-03	9.00e-04	-2.72e-03	3.18e-02
##	2139	-1.01e-02	2.80e-02	1.45e-02	5.56e-03	-7.29e-03	-2.69e-03	6.00e-02
##	2140	4.17e-03	-1.15e-03	-1.18e-02	1.09e-02	-5.76e-03	4.95e-03	4.29e-02
##	2141	1.76e-02	-1.59e-03	2.16e-02	1.99e-03	2.50e-02	-5.09e-03	5.75e-02
##	2142	-7.04e-04	-2.43e-03	-2.11e-03	-3.65e-04	-2.07e-03	3.95e-03	1.50e-02
##	2143	-1.98e-03	-6.22e-03	3.13e-03	-6.89e-04	-6.05e-03	2.41e-03	1.34e-02
##	2144	-2.06e-03	-5.54e-03	3.08e-03	2.87e-03	-7.30e-03	6.08e-03	1.87e-02
##	2145	-2.46e-03	8.90e-03	-5.61e-03	9.93e-03	4.79e-03	7.61e-03	4.94e-02
##	2146	-2.87e-02	-1.80e-03	-8.64e-03	6.68e-03	1.54e-02	-6.64e-03	6.67e-02
##	2147	1.63e-05	-4.51e-05	1.56e-04	1.13e-04	5.95e-06	2.16e-04	-4.94e-04
##	2148	3.42e-03	7.15e-03	-1.36e-02	-2.30e-04	-1.65e-02	1.21e-02	5.65e-02
##	2149	1.94e-02	-6.18e-03	-1.03e-02	6.98e-03	1.93e-02	-2.91e-03	6.13e-02
##	2150	2.97e-05	1.20e-03	2.60e-04	6.72e-04	-4.85e-05	3.30e-04	2.54e-03
##	2151	2.06e-02	5.99e-03	6.11e-03	-8.02e-03	-9.53e-03	-1.42e-03	-5.78e-02
##	2152	1.92e-02	-4.50e-03	-2.11e-02	-6.01e-04	-2.34e-02	7.84e-03	-5.00e-02
##	2153	-2.57e-03	5.24e-03	-3.61e-03	-1.32e-02	-1.54e-03	7.85e-03	4.11e-02
##	2154	-2.86e-04	2.95e-04	-4.19e-04	3.52e-04	-3.75e-04	4.53e-05	1.56e-03
##	2155	-7.27e-05	8.05e-03	1.99e-03	-6.93e-03	-3.40e-03	3.12e-03	1.59e-02
##	2156	4.53e-03	-9.99e-04	6.31e-03	5.35e-03	6.89e-03	-2.64e-03	-2.29e-02
##	2157	-1.57e-02	-5.85e-03	9.45e-03	-1.55e-03	-2.03e-02	7.04e-03	-4.93e-02
##	2158	2.74e-02	-1.08e-02	2.77e-02	-7.75e-03	1.32e-02	-1.29e-02	7.06e-02
##	2159	8.57e-03	6.69e-03	2.77e-03	-6.58e-03	3.90e-03	4.73e-03	-4.89e-02
##	2160	-5.20e-03	-1.67e-03	1.83e-03	-2.94e-05	-1.90e-03	-2.29e-03	-9.41e-03
##	2161	-6.23e-04	2.40e-03	2.28e-03	3.19e-03	-3.65e-03	3.67e-03	1.20e-02
##	2162	7.55e-03	-8.89e-04	-3.55e-03	4.99e-03	1.67e-03	6.74e-04	2.35e-02
##	2163	7.98e-03	-2.07e-03	1.29e-03	-2.69e-03	-3.15e-03	8.33e-03	-3.35e-02
##	2164	-9.55e-03	-7.58e-03	5.26e-03	-1.27e-02	-9.33e-03	2.93e-03	-4.28e-02
##	2165	1.44e-03	-1.37e-03	-2.44e-03	-4.48e-03	3.33e-04	-4.25e-05	-1.08e-02
##	2166	3.53e-03	2.76e-03	-6.61e-03	1.86e-03	-4.76e-04	-2.11e-03	2.05e-02
##	2167	-2.67e-02	-2.12e-03	1.68e-02	-2.29e-04	-7.19e-03	-1.17e-03	5.75e-02
##	2168	2.82e-03	2.30e-03	1.31e-02	-1.25e-02	-6.83e-03	1.33e-02	3.96e-02
##	2169	-2.50e-02	1.05e-03	3.02e-02	1.92e-03	3.49e-02	-2.29e-02	8.31e-02

##	2170	-5.66e-04	9.73e-04	1.87e-03	-3.08e-03	-2.74e-03	2.09e-03	8.64e-03
##	2171	-3.75e-02	2.22e-02	-3.50e-02	-8.30e-03	-3.09e-02	4.26e-03	-9.36e-02
##	2172	1.68e-04	-4.63e-04	3.32e-03	2.07e-04	-1.07e-03	4.01e-03	-8.54e-03
##	2173	-1.92e-03	6.19e-03	-2.37e-03	3.12e-04	-3.17e-04	6.66e-03	1.81e-02
##	2174	2.03e-05	-1.39e-03	-9.84e-04	6.79e-04	-6.41e-04	1.88e-03	-6.23e-03
##	2175	-7.64e-04	3.81e-03	2.41e-03	-1.40e-03	-5.45e-03	6.26e-03	1.41e-02
##	2176	-1.09e-03	3.48e-03	-1.63e-03	2.29e-04	1.44e-03	3.06e-03	1.34e-02
##	2177	-4.39e-03	-2.52e-03	-3.08e-03	-7.20e-04	-6.30e-03	-1.43e-03	1.68e-02
##	2178	1.02e-03	9.25e-03	-4.46e-03	5.53e-03	3.14e-03	6.85e-03	2.70e-02
##	2179	3.61e-03	-1.16e-03	-1.09e-02	-1.14e-02	-7.94e-03	6.77e-03	4.16e-02
##	2180	1.24e-02	-4.00e-03	3.46e-03	-1.82e-03	-5.04e-03	1.12e-02	-3.81e-02
##	2181	-4.22e-03	2.57e-02	-2.78e-02	-7.40e-03	1.07e-02	-9.04e-04	-1.07e-01
##	2182	2.77e-05	-1.51e-03	-8.37e-04	9.02e-04	-6.56e-04	1.34e-03	-5.40e-03
##	2183	5.98e-05	2.45e-04	-1.64e-04	2.35e-04	-1.03e-04	5.11e-04	1.01e-03
##	2184	7.37e-03	-9.72e-03	-8.67e-03	3.61e-03	1.26e-03	2.38e-03	4.52e-02
##	2185	2.44e-04	-5.64e-05	-1.87e-03	3.04e-03	-1.02e-03	5.12e-03	-1.16e-02
##	2186	1.65e-03	-1.30e-03	-3.26e-03	-1.19e-04	2.68e-03	-9.24e-04	-1.03e-02
##	2187	7.13e-03	-4.71e-03	1.69e-03	-8.87e-04	-7.41e-03	9.01e-03	-3.03e-02
##	2188	2.22e-05	-2.89e-05	2.36e-05	2.79e-05	3.35e-05	1.67e-06	-1.22e-04
##	2189	-2.02e-04	-9.74e-04	-1.39e-03	1.46e-03	3.73e-06	-1.28e-03	4.19e-03
##	2190	-1.74e-02	-6.45e-03	5.92e-03	-2.26e-04	-1.54e-02	6.95e-03	-4.03e-02
##	2191	-9.00e-04	1.86e-04	3.26e-03	5.42e-03	-3.85e-03	-7.39e-04	1.71e-02
##	2192	-1.59e-03	-6.84e-03	2.86e-03	3.74e-03	-4.58e-03	1.91e-03	1.45e-02
##	2193	-5.00e-03	-6.92e-03	3.78e-03	2.39e-03	-2.26e-03	-2.44e-04	1.47e-02
##	2194	7.85e-03	7.89e-03	-1.06e-02	1.27e-02	-1.51e-03	-2.00e-03	4.50e-02
##	2195	-2.13e-06	-1.42e-04	-1.03e-04	-2.93e-04	-5.49e-05	2.08e-04	-7.02e-04
##	2196	8.10e-03	1.04e-02	1.05e-02	1.71e-03	-1.72e-03	-7.44e-04	3.76e-02
##	2197	-2.85e-03	-9.70e-04	3.01e-03	-3.43e-03	-1.53e-03	-2.51e-03	1.03e-02
##	2198	-1.19e-02	-8.44e-03	7.05e-03	-1.40e-02	-1.52e-02	6.31e-04	-4.93e-02
##	2199	-5.77e-05	-8.10e-05	-5.85e-05	3.68e-06	-9.31e-06	1.01e-04	3.51e-04
##	2200	4.88e-03	1.18e-02	1.57e-02	-2.57e-02	1.11e-02	-4.07e-02	-1.15e-01
##	2201	-7.15e-03	1.76e-02	-5.90e-03	8.35e-03	8.20e-03	-8.05e-03	6.65e-02
##	2202	2.43e-02	2.79e-02	4.81e-03	2.33e-02	1.35e-02	-1.38e-02	-9.58e-02
##	2203	-2.22e-02	-1.49e-03	6.34e-03	-2.97e-03	-1.61e-02	1.23e-02	-5.39e-02
##	2204	4.76e-03	-2.26e-03	1.17e-03	-1.62e-03	-3.53e-03	1.18e-02	-2.71e-02
##	2205	-2.99e-03	-6.00e-03	-9.08e-03	-1.44e-02	-1.46e-02	8.35e-03	2.95e-02
##	2206	9.30e-04	3.29e-03	5.06e-03	3.11e-03	1.94e-03	4.79e-03	1.50e-02
##	2207	-2.97e-03	2.42e-03	-6.46e-03	1.94e-02	1.86e-03	4.22e-03	4.58e-02
##	2208	-7.27e-04	2.81e-03	2.10e-03	2.77e-03	-4.14e-03	4.35e-03	1.22e-02
##	2209	4.27e-05	7.61e-03	1.65e-03	-3.53e-03	-2.80e-03	3.28e-03	1.51e-02
##	2210	2.16e-02	-1.88e-03	6.42e-03	-3.89e-03	-1.84e-02	1.24e-02	-5.57e-02
##	2211	2.05e-04	-8.42e-05	2.09e-04	1.43e-04	-1.34e-04	2.07e-04	-9.58e-04
##	2212	-2.70e-03	-1.68e-02	-1.96e-03	-7.82e-03	-9.95e-03	1.01e-02	3.80e-02
##	2213	3.35e-03	-1.34e-03	-5.06e-03	3.49e-05	4.48e-03	-1.28e-03	-1.58e-02
##	2214	2.17e-03	-1.18e-03	4.36e-03	-2.11e-04	3.12e-03	-3.33e-03	-1.67e-02
##	2215	-1.72e-02	-4.02e-03	3.78e-02	5.05e-03	2.05e-02	-1.33e-02	8.49e-02
##	2216	4.26e-03	-2.49e-03	4.17e-03	4.07e-03	4.26e-03	-1.76e-03	-1.97e-02
##	2217	-8.16e-03	-1.48e-03	-6.45e-03	-9.25e-04	-4.77e-03	4.77e-03	-3.31e-02
##	2218	-7.62e-03	-1.80e-02	-5.00e-03	-6.38e-03	7.74e-04	2.72e-03	5.90e-02
##	2219	2.36e-02	4.69e-03	5.72e-03	-7.43e-03	-8.84e-03	5.44e-03	-5.93e-02

##	2220	-1.35e-02	-5.05e-03	6.84e-03	-4.73e-03	-1.70e-02	6.67e-03	-6.13e-02
##	2221	1.31e-02	1.03e-02	-8.33e-03	3.92e-03	1.28e-04	-7.62e-04	4.83e-02
##	2222	3.57e-03	7.33e-03	2.27e-03	4.25e-03	4.69e-03	9.13e-04	1.75e-02
##	2223	-1.21e-04	-5.25e-04	-6.41e-04	2.93e-04	-3.70e-05	-6.93e-04	1.70e-03
##	2224	-2.17e-04	8.03e-03	-1.58e-03	-4.73e-03	-2.22e-03	9.83e-03	2.52e-02
##	2225	1.79e-02	7.11e-03	2.60e-02	8.76e-04	3.33e-02	-7.72e-04	6.62e-02
##	2226	-3.90e-05	-1.13e-03	-5.18e-04	-1.64e-03	-5.95e-04	8.81e-04	-3.92e-03
##	2227	-1.49e-02	-5.91e-03	9.92e-03	-1.85e-03	-2.17e-02	-1.96e-03	-4.33e-02
##	2228	4.05e-06	-1.41e-03	-4.94e-04	7.95e-04	-1.53e-05	6.75e-05	-3.47e-03
##	2229	1.46e-03	-3.67e-03	-1.38e-03	2.71e-03	-1.56e-03	-8.16e-04	8.36e-03
##	2230	3.04e-03	1.03e-02	3.82e-03	5.67e-03	2.32e-03	-7.92e-04	2.17e-02
##	2231	6.85e-03	7.59e-04	-5.10e-03	-1.57e-03	-4.73e-03	-2.49e-03	2.42e-02
##	2232	2.07e-02	1.71e-02	-1.17e-02	2.26e-02	2.86e-02	-9.49e-04	7.83e-02
##	2233	-1.48e-02	8.22e-03	-9.54e-03	-5.82e-03	-4.32e-04	-1.69e-03	5.01e-02
##	2234	-1.87e-02	-1.45e-03	-8.21e-03	3.28e-03	3.22e-02	-3.87e-02	9.39e-02
##	2235	-2.69e-03	-1.35e-03	-2.07e-03	-1.45e-04	-4.70e-03	2.28e-03	-1.20e-02
##	2236	1.89e-03	-1.12e-03	2.10e-03	-2.96e-04	4.39e-03	-1.27e-03	-1.07e-02
##	2237	-1.89e-05	3.39e-04	-7.05e-04	-1.08e-04	-1.20e-04	-4.92e-04	1.75e-03
##	2238	-4.72e-04	-1.39e-03	1.23e-03	7.59e-04	-7.58e-04	-1.64e-03	6.01e-03
##	2239	-6.97e-03	-1.70e-02	-1.41e-05	1.10e-02	-1.16e-02	1.72e-02	5.45e-02
##	2240	-1.08e-02	-1.02e-02	3.21e-02	-4.48e-02	9.02e-03	2.42e-02	-1.25e-01
##	2241	9.37e-04	2.76e-03	4.45e-03	-2.63e-03	1.00e-03	5.06e-03	1.28e-02
##	2242	1.10e-02	3.35e-03	6.19e-03	-2.68e-03	-9.92e-03	2.68e-02	-5.72e-02
##	2243	2.04e-06	-7.12e-04	-2.91e-04	3.45e-04	-1.60e-05	1.64e-04	-1.74e-03
##	2244	9.19e-04	-8.47e-03	-7.81e-03	-1.19e-02	-7.23e-03	4.24e-04	3.45e-02
##	2245	-1.78e-02	-1.02e-02	1.76e-02	1.32e-02	-6.18e-03	-6.39e-03	5.39e-02
##	2246	-6.23e-04	1.59e-03	2.03e-03	-3.66e-03	-3.42e-03	3.07e-03	1.00e-02
##	2247	-2.18e-02	-6.72e-03	-1.12e-02	1.84e-03	-1.81e-02	-8.44e-03	6.14e-02
##	2248	6.00e-04	3.81e-03	-1.67e-03	2.71e-03	-5.12e-04	3.82e-03	-9.47e-03
##	2249	-9.17e-03	-2.62e-03	-6.49e-03	5.25e-03	3.50e-03	2.65e-04	-2.92e-02
##	2250	-2.95e-04	-1.96e-04	1.38e-04	1.39e-04	-4.28e-05	-1.73e-04	-8.14e-04
##	2251	1.97e-03	-1.47e-03	9.25e-03	8.34e-03	-2.20e-04	4.47e-03	4.01e-02
##	2252	1.48e-03	1.01e-03	2.14e-03	-1.91e-03	6.98e-04	-2.08e-03	1.19e-02
##	2253	-2.07e-03	-2.21e-03	3.63e-03	-3.25e-04	-2.83e-03	6.79e-04	1.10e-02
##	2254	-1.65e-04	1.12e-04	-2.19e-04	-4.38e-04	-7.04e-05	1.13e-04	-1.19e-03
##	2255	3.17e-04	8.40e-03	1.32e-03	2.40e-03	-1.71e-03	4.15e-03	1.29e-02
##	2256	-2.15e-02	5.37e-03	-2.50e-02	1.49e-02	-3.37e-02	1.76e-02	-7.99e-02
##	2257	3.51e-03	-1.10e-02	-6.23e-03	-1.86e-03	-6.41e-03	1.65e-03	3.75e-02
##	2258	-1.77e-02	-6.03e-03	5.50e-03	-8.38e-04	-1.57e-02	6.77e-03	-3.99e-02
##	2259	2.79e-02	1.24e-02	1.24e-02	2.99e-02	-2.07e-02	4.30e-02	-1.01e-01
##	2260	5.98e-05	8.13e-04	-5.57e-04	-8.31e-04	-1.59e-04	1.08e-03	3.39e-03
##	2261	8.30e-03	6.45e-03	3.52e-03	-1.63e-02	-1.25e-02	3.11e-02	-5.89e-02
##	2262	-1.62e-03	-1.58e-03	-3.93e-03	-8.65e-03	-5.86e-04	4.16e-03	3.46e-02
##	2263	2.05e-05	1.43e-04	-1.12e-04	1.41e-05	-6.95e-05	2.73e-04	6.29e-04
##	2264	-1.14e-05	1.65e-03	-1.73e-03	-1.72e-03	-4.04e-04	-2.67e-04	4.21e-03
##	2265	-1.47e-02	-7.88e-03	-2.13e-02	-1.42e-02	-2.96e-02	1.97e-03	-4.88e-02
##	2266	-1.68e-02	-4.68e-03	3.83e-03	-1.65e-03	-1.08e-02	1.10e-02	-4.40e-02
##	2267	-1.15e-02	-1.09e-02	-2.71e-03	9.59e-03	4.82e-03	7.36e-03	7.31e-02
##	2268	5.26e-03	2.33e-04	-1.36e-02	-1.04e-03	-9.05e-03	7.54e-03	5.35e-02
##	2269	-4.04e-04	-2.37e-04	1.17e-03	-1.52e-03	-1.23e-03	2.17e-05	5.84e-03

##	2270	1.57e-02	2.35e-02	1.10e-02	-7.25e-03	-1.99e-02	2.02e-02	-8.95e-02
##	2271	-1.09e-02	-6.45e-03	8.01e-03	-1.18e-03	-1.61e-02	3.83e-03	-4.55e-02
##	2272	-5.60e-03	-2.25e-02	2.65e-02	9.55e-03	-7.63e-04	-1.97e-03	6.41e-02
##	2273	8.53e-03	5.85e-02	6.40e-03	-2.23e-02	2.04e-02	-2.08e-02	-1.13e-01
##	2274	7.14e-04	1.20e-03	-1.22e-02	4.50e-04	-1.39e-02	6.61e-03	5.20e-02
##	2275	-1.80e-04	6.76e-04	-1.75e-03	1.79e-05	-3.41e-04	-2.65e-03	6.71e-03
##	2276	-2.14e-02	-1.85e-03	-3.44e-03	-1.62e-02	1.11e-02	-3.35e-02	1.09e-01
##	2277	3.78e-02	8.58e-03	1.44e-02	1.30e-02	2.54e-02	3.67e-03	-8.27e-02
##	2278	7.31e-03	4.13e-02	3.97e-03	2.62e-03	2.55e-02	-4.14e-02	-1.12e-01
##	2279	-1.28e-02	-9.56e-03	8.63e-03	-1.27e-02	-2.20e-02	2.01e-03	-3.99e-02
##	2280	3.26e-03	-4.14e-03	7.96e-03	8.22e-03	-6.23e-04	-9.63e-04	4.13e-02
##	2281	2.79e-02	4.46e-02	-3.79e-02	-1.84e-02	-9.09e-03	-8.70e-03	-1.20e-01
##	2282	-2.62e-02	-7.13e-03	-1.07e-02	-1.07e-02	-1.82e-02	-4.57e-03	7.02e-02
##	2283	-2.54e-03	-3.83e-02	1.14e-02	2.62e-02	1.62e-02	-4.07e-02	-1.22e-01
##	2284	2.98e-02	9.03e-03	-9.24e-03	2.31e-02	2.89e-02	-2.41e-02	8.51e-02
##	2285	-1.02e-04	-2.47e-04	-6.93e-04	-1.04e-03	-2.83e-04	-7.54e-04	-2.47e-03
##	2286	1.93e-02	8.45e-03	1.14e-02	3.13e-02	2.09e-02	-3.46e-03	-8.92e-02
##	2287	-1.48e-02	-4.95e-03	3.73e-03	-1.63e-03	-1.09e-02	8.50e-03	-3.56e-02
##	2288	1.37e-03	-1.27e-03	-1.97e-03	2.45e-04	1.28e-03	2.07e-04	-6.41e-03
##	2289	1.64e-03	-1.41e-03	-3.67e-03	2.45e-03	3.00e-03	-1.51e-03	-1.15e-02
##	2290	8.69e-03	1.05e-03	2.79e-03	-3.51e-03	-8.00e-03	2.22e-02	-4.47e-02
##	2291	-1.17e-02	-1.07e-02	1.80e-02	3.80e-03	1.22e-02	-3.59e-02	-8.05e-02
##	2292	3.17e-03	6.00e-03	1.68e-02	-1.96e-03	-1.00e-02	1.44e-02	5.49e-02
##	2293	2.58e-03	7.68e-03	-4.54e-02	-2.14e-02	-8.81e-03	-9.26e-03	-1.02e-01
##	2294	8.69e-03	7.37e-03	-3.97e-03	3.67e-04	6.27e-03	5.09e-03	2.17e-02
##	2295	-4.42e-04	-1.34e-03	-6.29e-04	2.01e-04	-5.19e-04	1.49e-04	-3.12e-03
##	2296	1.56e-02	-6.60e-03	1.24e-02	6.10e-03	-2.52e-03	-9.98e-03	-9.35e-02
##	2297	-2.90e-02	-3.19e-03	-9.42e-03	6.55e-03	2.33e-02	-2.44e-02	9.58e-02
##	2298	2.28e-03	-1.41e-03	3.57e-03	-6.89e-03	4.45e-03	-1.87e-03	-1.39e-02
##	2299	-1.51e-03	-2.03e-03	2.62e-02	2.04e-03	1.97e-02	-1.31e-02	-8.09e-02
##	2300	-1.89e-03	-6.41e-04	-2.34e-03	-4.75e-04	6.07e-04	6.11e-03	2.17e-02
##	2301	-1.46e-02	-1.36e-02	-3.77e-03	-2.26e-02	-1.56e-03	-2.23e-03	6.23e-02
##	2302	1.88e-02	1.20e-02	-1.28e-02	1.34e-03	2.90e-02	2.20e-04	5.61e-02
##	2303	1.06e-02	1.12e-02	-9.53e-03	1.13e-02	-1.36e-03	-4.94e-03	4.75e-02
##	2304	-4.50e-04	-1.40e-03	-1.21e-03	-2.04e-03	-3.27e-04	2.71e-03	9.02e-03
##	2305	1.64e-02	1.32e-02	-4.24e-03	-1.02e-03	7.37e-03	8.09e-03	3.32e-02
##	2306	8.57e-04	-4.75e-04	1.32e-03	1.21e-03	1.27e-04	1.34e-03	-6.34e-03
##	2307	-4.28e-03	-1.97e-02	-4.46e-03	6.84e-03	-1.20e-03	1.32e-03	5.04e-02
##	2308	-5.95e-04	1.38e-03	1.89e-03	2.84e-03	-2.67e-03	2.17e-03	9.61e-03
##	2309	-2.04e-03	4.54e-06	-5.66e-03	-3.10e-03	4.56e-03	9.89e-04	4.10e-02
##	2310	2.38e-03	-1.36e-03	3.52e-03	3.29e-03	5.46e-03	-2.89e-03	-1.35e-02
##	2311	-9.89e-03	7.52e-04	-5.87e-03	-1.12e-02	-9.61e-03	6.58e-04	3.56e-02
##	2312	-2.37e-03	-5.24e-03	4.29e-03	3.58e-03	-9.70e-03	7.68e-03	2.04e-02
##	2313	1.91e-06	1.87e-04	1.22e-04	3.40e-04	4.69e-05	-2.19e-04	8.24e-04
##	2314	-6.62e-04	-2.96e-04	-3.74e-04	2.56e-04	-2.06e-04	-3.77e-04	-1.30e-03
##	2315	-1.59e-02	-5.23e-03	3.30e-02	2.89e-03	3.01e-02	-1.54e-02	7.99e-02
##	2316	1.88e-03	-1.29e-03	2.33e-03	5.42e-05	2.97e-03	-1.45e-04	-8.04e-03
##	2317	1.98e-02	-1.55e-02	-1.38e-03	-1.06e-02	-8.23e-03	1.14e-02	5.02e-02
##	2318	-7.07e-06	-1.57e-03	-1.02e-03	9.61e-04	-9.02e-04	1.53e-03	-7.34e-03
##	2319	9.33e-03	1.05e-02	4.22e-03	7.17e-03	-3.77e-04	5.61e-03	-4.95e-02

##	2320	-1.73e-02	5.01e-03	7.99e-03	-6.34e-03	-9.60e-03	1.29e-02	-7.32e-02
##	2321	-2.74e-03	-6.17e-03	-1.01e-02	-2.07e-03	-1.37e-02	9.76e-03	2.67e-02
##	2322	3.98e-05	-2.15e-03	4.28e-03	3.46e-05	-8.15e-04	3.75e-03	1.03e-02
##	2323	3.36e-02	-6.57e-03	-6.33e-03	-9.05e-03	1.17e-02	-8.05e-03	8.21e-02
##	2324	-9.37e-03	-1.56e-02	3.67e-02	-2.43e-02	2.43e-03	-4.43e-03	7.90e-02
##	2325	-5.44e-03	-4.50e-04	9.55e-03	4.68e-03	5.18e-03	4.01e-03	2.71e-02
##	2326	-2.15e-02	-9.71e-03	1.32e-02	3.44e-03	-7.71e-03	-3.17e-03	4.52e-02
##	2327	-1.07e-03	2.50e-03	-9.43e-03	7.76e-03	-8.48e-03	1.06e-03	2.61e-02
##	2328	5.73e-03	-1.07e-04	-4.40e-03	-1.04e-03	-2.39e-03	-9.67e-04	1.99e-02
##	2329	-2.94e-04	2.95e-03	-1.37e-03	1.23e-03	6.57e-04	5.91e-04	-5.38e-03
##	2330	3.33e-02	5.73e-03	-5.43e-03	-1.44e-02	8.90e-03	-7.18e-03	8.96e-02
##	2331	3.89e-03	-1.94e-03	-1.34e-02	1.12e-02	-6.55e-03	-1.43e-03	4.66e-02
##	2332	-1.70e-02	-1.63e-03	9.91e-03	2.81e-02	-2.07e-02	-4.95e-03	-6.36e-02
##	2333	7.33e-03	-8.90e-03	4.12e-03	2.28e-02	9.08e-03	-9.36e-03	-8.28e-02
##	2334	3.16e-04	7.15e-04	-2.48e-03	4.31e-03	-4.33e-03	9.58e-03	-1.80e-02
##	2335	9.45e-03	1.95e-04	1.39e-03	-4.00e-03	-1.65e-03	5.77e-03	-3.78e-02
##	2336	-6.03e-03	-1.68e-03	4.31e-03	-1.18e-03	2.49e-03	-2.25e-03	2.07e-02
##	2337	-1.08e-04	-6.14e-04	-1.12e-03	7.33e-04	1.73e-06	-1.18e-03	-3.08e-03
##	2338	-1.01e-02	-1.84e-02	2.38e-02	-1.96e-02	9.51e-03	-9.50e-03	6.40e-02
##	2339	4.65e-03	5.06e-03	-1.34e-02	1.35e-02	-8.84e-03	1.28e-02	5.41e-02
##	2340	7.69e-03	1.73e-02	4.90e-03	7.34e-03	4.20e-03	2.17e-03	3.87e-02
##	2341	-2.78e-03	-5.74e-03	-9.01e-03	-1.45e-02	-1.35e-02	9.99e-03	2.91e-02
##	2342	-1.83e-03	5.92e-03	-2.63e-03	3.61e-04	2.05e-03	6.31e-03	1.84e-02
##	2343	-1.19e-03	3.34e-03	2.96e-03	4.02e-03	-6.81e-03	5.02e-03	2.12e-02
##	2344	1.50e-03	-6.11e-03	2.53e-03	-2.55e-03	1.45e-03	-2.69e-03	1.31e-02
##	2345	-3.24e-03	-1.49e-03	-2.13e-03	1.47e-03	-2.12e-03	-2.04e-03	-7.90e-03
##	2346	3.32e-02	9.94e-03	-9.10e-03	3.71e-03	2.16e-02	-1.69e-02	8.06e-02
##	2347	-3.67e-03	-4.52e-03	-3.15e-03	4.40e-03	-1.99e-03	1.59e-03	-1.58e-02
##	2348	-3.05e-03	-5.79e-03	-9.02e-03	-1.46e-02	-1.42e-02	8.47e-03	2.66e-02
##	2349	-3.19e-02	1.06e-02	-1.17e-02	1.49e-03	2.95e-02	-1.23e-02	7.43e-02
##	2350	1.23e-04	4.52e-03	6.16e-04	1.42e-03	-9.67e-04	2.49e-03	7.83e-03
##	2351	-2.29e-03	-4.29e-03	4.60e-03	3.52e-03	-9.16e-04	1.19e-05	-1.66e-02
##	2352	2.28e-03	-8.76e-03	-6.03e-03	-2.73e-03	-2.76e-03	8.91e-04	2.88e-02
##	2353	4.63e-04	2.18e-04	-3.20e-04	-5.41e-04	2.23e-04	5.93e-05	-1.36e-03
##	2354	3.68e-05	1.80e-04	-1.17e-04	-1.03e-04	-5.43e-06	2.24e-04	-6.12e-04
##	2355	5.96e-03	-1.05e-02	-6.24e-03	-1.10e-02	-1.40e-02	-5.80e-03	3.98e-02
##	2356	8.83e-05	-8.47e-04	-1.75e-03	7.87e-04	-2.51e-03	5.18e-03	-1.16e-02
##	2357	-7.18e-03	-2.31e-03	-2.39e-02	-1.81e-02	3.03e-03	-2.23e-02	-8.72e-02
##	2358	-1.54e-02	-1.47e-02	-7.31e-03	5.25e-03	7.80e-04	-5.99e-03	4.25e-02
##	2359	3.33e-03	5.68e-03	-1.31e-02	-1.56e-03	-1.10e-02	1.44e-02	4.31e-02
##	2360	1.74e-02	-2.12e-04	-1.09e-02	6.10e-03	1.41e-02	-1.81e-02	7.78e-02
##	2361	2.99e-02	-1.22e-02	3.10e-02	-2.77e-02	1.05e-02	-1.67e-02	9.15e-02
##	2362	-1.07e-02	-1.02e-02	6.25e-03	-6.81e-04	-1.36e-02	-2.86e-04	-4.08e-02
##	2363	-1.99e-02	-3.62e-03	5.97e-03	1.01e-02	-1.47e-02	1.24e-02	-4.82e-02
##	2364	9.12e-05	3.30e-04	-2.13e-04	2.39e-05	-1.33e-04	7.01e-04	1.36e-03
##	2365	-1.48e-04	3.31e-04	3.92e-04	-2.88e-05	2.81e-04	4.15e-04	1.51e-03
##	2366	8.02e-06	1.99e-04	-1.48e-04	-2.08e-04	-1.09e-04	3.32e-04	8.37e-04
##	2367	-4.48e-03	-5.33e-03	-1.33e-02	-3.10e-03	-2.39e-02	1.22e-02	4.05e-02
##	2368	3.92e-03	-7.69e-04	-6.04e-03	-1.53e-04	5.21e-03	-1.46e-03	-1.88e-02
##	2369	-9.24e-05	1.12e-04	1.36e-04	-4.83e-06	-4.01e-05	3.38e-05	-6.21e-04

##	2370	-2.49e-03	-4.77e-03	4.02e-03	3.19e-03	-1.05e-02	8.60e-03	2.06e-02
##	2371	3.53e-05	2.89e-04	-1.68e-04	-2.60e-04	-1.13e-04	5.05e-04	1.35e-03
##	2372	1.17e-02	2.09e-02	-1.04e-02	1.26e-03	-5.27e-03	4.98e-04	5.21e-02
##	2373	4.38e-04	-5.12e-03	-3.21e-03	1.83e-03	-1.26e-03	-1.13e-03	1.48e-02
##	2374	-2.18e-02	9.58e-03	1.11e-02	-1.04e-02	-2.58e-02	-6.13e-03	-7.11e-02
##	2375	1.08e-02	1.22e-02	-3.31e-02	2.31e-02	1.37e-03	8.54e-03	-7.32e-02
##	2376	-5.13e-03	-1.77e-02	-1.70e-03	-9.18e-03	-3.61e-03	4.93e-03	3.74e-02
##	2377	-7.32e-04	2.61e-03	2.08e-03	2.81e-03	-3.93e-03	3.97e-03	1.19e-02
##	2378	2.41e-03	1.20e-03	3.50e-03	-2.08e-03	2.56e-03	-1.75e-03	1.62e-02
##	2379	7.79e-03	-4.60e-03	-1.13e-02	2.12e-03	-3.71e-04	1.15e-02	5.21e-02
##	2380	-1.63e-02	-1.52e-02	-4.45e-03	-3.35e-03	-2.35e-03	7.37e-03	6.49e-02
##	2381	6.06e-03	1.43e-03	1.33e-02	9.19e-03	-7.86e-04	1.38e-02	5.79e-02
##	2382	1.38e-03	-6.90e-03	5.81e-03	7.24e-03	3.49e-04	-1.04e-03	2.16e-02
##	2383	-2.00e-02	-1.97e-03	4.09e-02	4.51e-03	2.66e-02	-5.44e-02	1.09e-01
##	2384	-3.36e-02	4.47e-03	-1.31e-02	-6.62e-04	-1.40e-02	7.63e-03	5.89e-02
##	2385	2.49e-03	4.98e-03	-3.71e-03	-2.86e-03	4.05e-03	-2.17e-03	-1.35e-02
##	2386	-5.39e-04	1.92e-03	1.74e-03	-8.18e-04	-3.57e-03	4.37e-03	1.14e-02
##	2387	1.21e-02	1.11e-03	-1.15e-02	9.99e-04	-1.99e-02	2.11e-03	6.51e-02
##	2388	3.43e-02	-5.03e-03	-7.86e-03	-1.19e-02	1.35e-02	-1.35e-02	7.50e-02
##	2389	8.54e-03	-1.08e-02	1.31e-02	-3.04e-02	-1.33e-02	1.03e-02	-8.26e-02
##	2390	7.96e-03	8.86e-04	-3.26e-03	1.39e-04	4.85e-03	5.15e-03	2.50e-02
##	2391	3.69e-02	2.44e-02	-7.56e-03	1.08e-02	1.12e-02	-1.30e-03	7.81e-02
##	2392	-1.55e-02	1.06e-02	1.90e-02	-3.82e-03	9.65e-03	-2.77e-03	5.65e-02
##	2393	1.00e-02	-3.84e-03	4.05e-03	-4.71e-04	-1.10e-02	1.16e-02	-3.51e-02
##	2394	7.32e-03	4.47e-03	-1.31e-02	1.18e-02	-6.11e-03	1.66e-02	6.65e-02
##	2395	-1.74e-02	-6.83e-03	-1.03e-02	-2.92e-02	-1.84e-02	3.55e-03	8.27e-02
##	2396	-1.78e-02	-1.45e-02	1.72e-02	-2.23e-02	2.04e-02	-2.04e-02	7.34e-02
##	2397	1.72e-03	-4.21e-03	-8.97e-03	1.01e-03	-8.65e-03	-6.47e-04	5.35e-02
##	2398	-2.08e-03	-5.61e-03	3.14e-03	2.92e-03	-7.29e-03	6.02e-03	1.89e-02
##	2399	3.18e-03	4.63e-03	2.78e-03	3.04e-03	5.50e-03	-7.99e-04	-1.38e-02
##	2400	1.72e-02	5.81e-03	-6.18e-03	-2.92e-03	7.84e-03	-3.54e-04	4.18e-02
##	2401	8.70e-03	3.25e-03	5.77e-03	-2.93e-03	-1.29e-02	1.59e-02	-5.01e-02
##	2402	1.07e-02	-3.22e-03	3.14e-03	-1.86e-03	-1.29e-02	1.74e-02	-4.35e-02
##	2403	-1.33e-02	-8.54e-03	8.56e-03	-1.42e-03	-2.02e-02	4.70e-04	-4.67e-02
##	2404	-4.93e-05	-8.20e-04	-3.99e-04	-1.23e-03	-4.81e-04	6.76e-04	-2.89e-03
##	2405	-7.46e-03	1.68e-03	-7.40e-03	-4.94e-03	-2.92e-03	-6.80e-03	4.27e-02
##	2406	1.25e-02	-1.04e-02	1.99e-02	7.72e-03	1.37e-02	2.63e-05	4.85e-02
##	2407	7.26e-05	-6.68e-05	1.04e-04	-8.44e-05	8.35e-05	-2.96e-06	-4.43e-04
##	2408	-2.42e-02	-2.87e-03	-3.27e-02	-4.62e-02	-2.87e-02	1.92e-02	-1.49e-01
##	2409	-7.75e-03	1.51e-02	4.56e-03	-5.45e-03	4.89e-03	-6.44e-04	3.67e-02
##	2410	-8.34e-04	8.95e-04	-5.66e-03	-7.02e-03	-4.92e-03	1.75e-03	1.49e-02
##	2411	1.17e-02	1.30e-02	1.98e-03	5.25e-03	1.67e-03	-3.30e-03	-6.36e-02
##	2412	-7.16e-03	2.10e-02	-7.30e-03	-2.59e-02	1.13e-02	-8.28e-03	6.75e-02
##	2413	5.76e-03	-4.10e-03	1.15e-02	-1.85e-04	5.78e-04	4.13e-03	4.43e-02
##	2414	1.89e-02	-3.11e-03	-6.11e-03	-2.47e-02	5.81e-03	-6.22e-03	7.61e-02
##	2415	4.42e-03	5.41e-03	5.76e-03	-1.07e-02	-6.90e-04	1.89e-03	2.65e-02
##	2416	1.15e-02	-4.17e-03	1.29e-02	-1.25e-02	-4.43e-03	9.07e-03	5.95e-02
##	2417	-1.17e-02	-1.70e-02	-4.92e-03	-7.15e-03	-9.04e-04	-6.69e-03	4.22e-02
##	2418	1.93e-02	1.91e-02	-1.20e-02	5.01e-04	2.51e-02	1.99e-05	7.53e-02
##	2419	-5.61e-04	1.40e-03	2.02e-03	3.06e-03	-2.80e-03	2.37e-03	1.01e-02

##	2420	1.57e-04	-5.08e-02	1.56e-02	2.92e-02	-4.26e-03	-2.92e-02	-1.16e-01
##	2421	-2.54e-03	-8.65e-03	-7.61e-03	2.32e-04	-8.20e-03	4.99e-04	1.87e-02
##	2422	8.51e-03	-3.77e-03	-1.05e-02	-8.84e-03	-6.52e-03	3.81e-03	5.90e-02
##	2423	3.29e-02	-4.72e-03	-2.38e-02	3.81e-03	6.13e-03	-2.30e-02	-8.50e-02
##	2424	1.03e-02	2.08e-02	5.56e-03	2.51e-02	9.31e-04	-1.48e-03	-7.80e-02
##	2425	7.07e-03	9.92e-04	-4.02e-03	-4.47e-04	3.22e-03	1.51e-03	2.46e-02
##	2426	3.98e-03	1.16e-02	-6.55e-03	6.51e-03	1.94e-03	-3.45e-04	2.24e-02
##	2427	-9.79e-03	-1.24e-02	1.49e-02	-1.37e-02	1.60e-02	-3.16e-02	-8.30e-02
##	2428	-9.82e-04	-2.30e-03	3.27e-03	2.15e-03	-2.99e-03	-3.71e-03	1.54e-02
##	2429	-1.25e-02	7.09e-03	8.10e-03	9.24e-03	4.19e-03	-3.48e-03	4.55e-02
##	2430	-2.05e-03	-5.63e-03	3.45e-03	3.31e-03	-8.60e-03	7.59e-03	2.04e-02
##	2431	1.24e-02	-7.27e-03	-1.03e-02	-9.90e-03	-1.15e-02	1.02e-03	5.71e-02
##	2432	1.20e-02	-6.57e-03	-8.71e-03	-6.99e-03	1.34e-02	-2.19e-03	5.99e-02
##	2433	2.29e-03	-3.80e-03	8.81e-03	6.50e-04	-2.44e-03	-5.55e-03	3.66e-02
##	2434	1.47e-02	8.20e-03	5.70e-03	2.29e-02	-9.88e-03	2.71e-02	-7.02e-02
##	2435	-4.17e-04	3.71e-04	1.11e-03	-4.03e-03	-1.91e-03	1.72e-03	7.08e-03
##	2436	-1.81e-03	-7.59e-03	-5.24e-03	-3.05e-03	-5.23e-03	-2.40e-04	1.43e-02
##	2437	3.46e-02	1.29e-02	3.94e-02	2.28e-02	3.53e-02	-1.51e-02	1.00e-01
##	2438	-1.30e-02	-5.32e-03	2.60e-03	-1.62e-03	-6.19e-03	6.98e-03	-3.61e-02
##	2439	1.07e-05	1.66e-04	2.44e-04	-4.44e-07	2.55e-05	3.08e-04	7.39e-04
##	2440	1.23e-02	4.14e-03	9.00e-04	-6.78e-03	2.26e-03	5.20e-03	-5.12e-02
##	2441	1.10e-02	-9.28e-03	1.44e-02	1.50e-02	2.16e-02	-2.17e-03	4.82e-02
##	2442	-1.97e-02	-3.24e-05	4.07e-03	8.52e-03	-1.02e-02	1.26e-02	-5.29e-02
##	2443	2.12e-02	4.67e-03	-1.34e-02	2.62e-03	2.65e-02	-8.99e-03	6.64e-02
##	2444	8.61e-03	8.38e-05	1.50e-03	-3.74e-03	-1.58e-03	1.72e-02	-4.28e-02
##	2445	1.22e-02	-6.40e-03	-1.05e-02	-2.21e-02	-1.34e-02	2.08e-03	5.80e-02
##	2446	7.84e-05	2.00e-04	-2.04e-04	-2.62e-04	-5.07e-05	6.30e-04	1.27e-03
##	2447	1.49e-02	-1.57e-02	-3.15e-02	-9.42e-03	-2.81e-02	2.26e-02	-9.29e-02
##	2448	-1.13e-02	-5.38e-03	5.56e-03	9.18e-03	-8.13e-03	-6.65e-04	-4.52e-02
##	2449	1.96e-02	1.84e-02	-1.04e-02	3.63e-03	1.90e-02	-5.16e-03	8.16e-02
##	2450	9.85e-05	-2.63e-04	-1.09e-03	-1.49e-03	-8.07e-04	3.30e-03	-6.89e-03
##	2451	2.30e-02	1.47e-03	7.70e-03	-2.93e-03	-2.08e-02	2.32e-02	-6.84e-02
##	2452	-2.75e-06	1.05e-04	5.89e-05	1.67e-04	1.34e-05	-1.02e-04	4.20e-04
##	2453	2.06e-02	4.75e-03	-4.19e-03	7.83e-03	3.90e-03	6.24e-03	4.46e-02
##	2454	-1.28e-03	2.39e-02	-6.40e-03	-1.67e-03	2.27e-03	5.88e-03	5.00e-02
##	2455	-3.04e-03	-5.96e-03	-9.72e-03	-8.77e-03	-1.42e-02	8.31e-03	2.51e-02
##	2456	-1.30e-05	-1.08e-03	-6.11e-04	-1.98e-03	-7.75e-04	1.34e-03	-4.60e-03
##	2457	5.81e-04	3.29e-03	-1.55e-03	2.09e-03	-6.65e-04	4.22e-03	-9.00e-03
##	2458	-2.35e-02	-6.60e-03	-9.77e-03	-1.90e-02	-6.83e-03	-1.03e-02	5.36e-02
##	2459	-3.35e-02	6.81e-03	-8.87e-03	-3.75e-02	1.93e-02	-1.46e-02	9.54e-02
##	2460	-1.04e-02	-8.29e-03	5.81e-03	-1.35e-03	-1.52e-02	4.37e-03	-3.47e-02
##	2461	3.22e-02	-6.74e-03	1.38e-02	3.66e-02	1.64e-02	-2.51e-02	-8.68e-02
##	2462	-3.35e-05	-9.26e-04	-1.20e-03	-4.08e-03	-2.29e-03	4.00e-03	-9.34e-03
##	2463	-3.52e-03	2.72e-04	-4.84e-03	7.13e-03	3.75e-03	7.39e-03	4.06e-02
##	2464	2.32e-02	-1.86e-03	1.04e-02	6.72e-04	1.76e-02	-1.72e-03	-8.35e-02
##	2465	-4.59e-04	-7.76e-05	1.53e-03	2.71e-03	-1.26e-03	6.46e-05	7.15e-03
##	2466	-1.07e-05	1.29e-04	-3.78e-04	-3.85e-06	-2.64e-05	-4.46e-04	1.11e-03
##	2467	1.52e-02	2.62e-02	2.99e-03	4.13e-03	9.02e-03	-1.07e-02	-7.80e-02
##	2468	-5.29e-03	-3.27e-03	-4.81e-03	-4.23e-04	-3.62e-04	2.41e-03	-2.15e-02
##	2469	-1.96e-03	-6.00e-03	3.37e-03	3.47e-03	-7.74e-03	6.34e-03	1.92e-02

##	2470	-7.43e-03	-1.75e-02	-2.87e-03	1.03e-02	-2.56e-03	-9.78e-04	5.24e-02
##	2471	-5.74e-04	1.34e-03	1.13e-03	1.71e-03	1.57e-03	2.68e-04	4.87e-03
##	2472	2.68e-03	-1.96e-03	4.01e-03	-7.29e-03	3.39e-03	-2.86e-04	-1.61e-02
##	2473	-3.20e-02	5.25e-03	-1.41e-02	2.16e-02	3.27e-02	-2.49e-02	8.89e-02
##	2474	3.25e-03	1.77e-03	1.26e-02	9.60e-03	-4.15e-03	1.12e-02	3.84e-02
##	2475	1.61e-03	-1.09e-03	1.09e-03	9.01e-05	4.23e-04	1.07e-04	-4.25e-03
##	2476	1.27e-02	2.50e-02	1.03e-03	2.23e-02	1.66e-02	-2.51e-02	-8.57e-02
##	2477	-5.77e-05	3.82e-04	4.35e-04	-6.23e-04	-1.35e-04	-7.74e-04	2.50e-03
##	2478	3.92e-03	4.87e-03	-1.29e-02	-2.68e-04	-1.11e-02	1.43e-02	5.13e-02
##	2479	-3.65e-02	2.81e-02	9.09e-03	-1.51e-02	1.81e-03	6.24e-03	-1.05e-01
##	2480	-1.78e-03	-6.38e-03	3.07e-03	3.48e-03	-5.96e-03	3.95e-03	1.65e-02
##	2481	-1.60e-02	-8.04e-04	8.21e-03	-4.56e-03	-1.54e-02	8.30e-03	-5.09e-02
##	2482	-1.48e-02	1.19e-02	-8.95e-03	7.98e-03	2.01e-02	-3.93e-03	6.34e-02
##	2483	5.02e-04	-4.42e-03	3.67e-03	-5.50e-03	-9.50e-04	-1.87e-03	1.43e-02
##	2484	-1.58e-02	3.60e-02	2.63e-02	-1.13e-02	1.42e-02	6.04e-03	-1.13e-01
##	2485	4.04e-03	3.27e-03	2.53e-03	-2.55e-03	3.02e-03	6.36e-04	-1.06e-02
##	2486	-1.20e-03	2.10e-02	1.53e-02	1.57e-02	1.83e-02	1.26e-03	5.42e-02
##	2487	-1.02e-03	-5.65e-03	2.01e-03	-1.44e-03	-1.88e-03	-1.69e-03	9.41e-03
##	2488	2.67e-02	1.92e-02	1.67e-02	-2.89e-03	1.42e-02	9.52e-03	-1.08e-01
##	2489	-3.63e-02	8.90e-03	-8.64e-03	6.43e-03	2.39e-02	-3.23e-02	1.02e-01
##	2490	-2.12e-02	1.19e-02	-3.21e-02	1.01e-02	-2.52e-02	-6.31e-03	-7.12e-02
##	2491	-6.19e-04	-7.38e-04	-4.17e-03	-1.76e-03	-2.48e-03	-8.55e-04	9.93e-03
##	2492	3.34e-05	3.08e-03	6.40e-04	-1.50e-03	-7.30e-04	1.28e-03	5.16e-03
##	2493	-2.29e-03	-5.48e-03	4.22e-03	3.95e-03	-1.04e-02	8.01e-03	2.39e-02
##	2494	1.70e-03	-7.20e-03	-6.30e-03	2.67e-03	-4.13e-03	-2.75e-03	2.98e-02
##	2495	2.29e-03	-2.00e-04	1.95e-03	2.84e-03	-1.12e-04	-1.19e-03	9.72e-03
##	2496	-2.44e-04	-1.70e-04	2.50e-04	1.33e-04	-8.90e-05	4.69e-05	9.44e-04
##	2497	1.23e-04	4.45e-04	-2.01e-03	-3.41e-03	-4.45e-03	8.71e-03	-1.55e-02
##	2498	5.47e-05	3.51e-04	-1.96e-04	1.94e-05	9.05e-06	4.31e-04	-9.84e-04
##	2499	9.16e-05	3.43e-04	-2.66e-04	6.33e-04	9.39e-05	2.43e-04	-1.36e-03
##	2500	-1.29e-02	-6.41e-03	1.24e-02	-7.35e-04	-2.49e-02	8.25e-03	-5.70e-02
##	2501	-5.29e-04	-6.78e-04	-3.35e-03	-3.76e-03	-2.03e-03	-4.23e-05	8.01e-03
##	2502	7.11e-05	-1.53e-04	-5.04e-04	5.54e-04	3.31e-05	1.15e-03	-2.89e-03
##	2503	1.09e-05	-5.43e-05	2.33e-04	-1.58e-04	-6.67e-06	3.14e-04	-7.09e-04
##	2504	8.86e-04	6.51e-03	-2.32e-03	-1.43e-04	6.17e-05	6.34e-03	1.84e-02
##	2505	2.75e-05	-1.25e-04	6.38e-04	4.13e-04	2.77e-05	8.65e-04	-2.05e-03
##	2506	-1.00e-02	-8.38e-03	7.06e-03	-1.19e-02	-1.45e-02	4.54e-03	-3.75e-02
##	2507	-1.28e-02	1.09e-02	1.70e-02	-1.75e-02	1.45e-02	-3.49e-03	6.27e-02
##	2508	-9.44e-03	1.43e-03	-6.21e-03	-8.07e-03	-3.92e-03	-2.30e-03	2.55e-02
##	2509	2.06e-05	-1.38e-03	-9.23e-04	-3.14e-03	-1.26e-03	2.33e-03	-7.24e-03
##	2510	2.11e-02	3.67e-04	3.32e-03	-6.20e-03	-4.73e-03	8.66e-03	-5.46e-02
##	2511	1.34e-04	2.31e-03	-1.29e-03	-2.03e-03	-3.55e-04	2.54e-03	7.92e-03
##	2512	7.82e-03	-1.71e-03	9.99e-04	-3.02e-03	-3.41e-03	6.70e-03	-3.28e-02
##	2513	-1.07e-02	-1.05e-02	6.50e-03	2.40e-02	-1.18e-02	-2.00e-03	-4.96e-02
##	2514	-1.88e-02	-6.13e-03	-3.31e-03	-2.98e-02	3.75e-03	-1.49e-02	7.40e-02
##	2515	4.01e-02	7.93e-03	-1.06e-02	5.06e-03	2.67e-02	-3.57e-02	1.09e-01
##	2516	-1.09e-03	1.53e-03	1.11e-03	1.80e-03	1.58e-04	-1.29e-03	5.29e-03
##	2517	2.08e-02	6.08e-03	4.00e-03	6.07e-03	-2.02e-03	-5.36e-03	-6.02e-02
##	2518	-5.08e-03	-3.71e-03	-4.42e-03	9.54e-03	-5.73e-03	-2.26e-03	2.41e-02
##	2519	-8.24e-06	-1.33e-03	-8.15e-04	7.45e-04	-6.85e-04	1.32e-03	-5.04e-03

##	2520	2.43e-04	4.73e-04	-2.47e-03	4.94e-04	-4.43e-03	8.93e-03	-2.01e-02
##	2521	6.25e-04	-7.35e-04	6.70e-04	-4.95e-05	-4.35e-04	-9.88e-04	-3.61e-03
##	2522	1.11e-02	2.02e-02	-1.78e-02	-1.37e-02	4.71e-02	-3.93e-02	-9.20e-02
##	2523	1.78e-02	-3.28e-03	5.29e-03	-2.56e-03	-9.63e-03	6.38e-03	-3.99e-02
##	2524	-2.06e-02	-3.85e-03	5.67e-03	2.41e-02	-1.43e-02	2.89e-03	-5.13e-02
##	2525	5.50e-02	-3.74e-05	-3.26e-02	1.10e-02	1.92e-02	7.92e-03	-1.50e-01
##	2526	-1.29e-02	-1.02e-02	-8.72e-03	5.31e-03	2.50e-02	-3.92e-02	8.81e-02
##	2527	5.73e-06	-2.04e-05	9.69e-05	-4.43e-06	-1.79e-06	1.40e-04	-3.01e-04
##	2528	-2.30e-03	5.18e-03	-4.54e-03	-1.63e-02	5.97e-03	3.58e-04	5.80e-02
##	2529	-1.50e-03	1.68e-03	2.26e-03	-8.16e-05	2.14e-03	-1.27e-03	1.03e-02
##	2530	-1.34e-03	-1.38e-03	-1.30e-03	9.17e-05	-8.27e-05	2.16e-03	8.56e-03
##	2531	8.12e-04	-8.69e-04	8.76e-04	9.70e-04	2.20e-03	-7.50e-04	-4.86e-03
##	2532	7.75e-03	-4.08e-03	-2.18e-02	5.57e-02	3.57e-02	-9.15e-03	-1.10e-01
##	2533	-1.95e-04	-1.44e-03	-3.05e-03	2.13e-03	2.77e-04	-3.61e-03	-8.95e-03
##	2534	1.25e-02	1.50e-02	-7.55e-03	3.46e-03	6.30e-03	3.85e-04	3.76e-02
##	2535	1.02e-05	-3.86e-04	-1.16e-03	1.94e-04	-7.88e-04	2.88e-03	-6.62e-03
##	2536	9.67e-06	3.26e-04	-2.52e-04	6.51e-06	-1.44e-04	5.21e-04	1.39e-03
##	2537	-9.73e-04	1.01e-03	-1.72e-03	1.87e-04	4.38e-04	-9.01e-04	8.27e-03
##	2538	-8.58e-03	1.52e-03	-6.56e-03	1.11e-02	-2.11e-03	-1.08e-03	3.70e-02
##	2539	1.49e-02	5.49e-03	-2.32e-02	-1.67e-02	-1.60e-02	2.21e-02	-6.54e-02
##	2540	-1.61e-02	1.06e-02	1.42e-02	3.39e-03	-7.86e-03	-1.41e-02	6.14e-02
##	2541	-2.36e-03	1.96e-03	1.69e-03	1.63e-03	9.06e-04	3.13e-04	-7.48e-03
##	2542	-1.37e-02	-1.26e-02	-6.83e-03	-5.65e-03	-9.87e-03	-4.66e-03	3.92e-02
##	2543	-3.18e-04	-4.40e-04	-2.86e-04	-5.85e-04	-5.56e-04	3.99e-04	-1.74e-03
##	2544	1.83e-02	1.26e-02	-1.04e-02	-1.71e-02	2.07e-02	3.21e-03	7.11e-02
##	2545	-2.47e-03	-4.85e-03	4.20e-03	3.34e-03	-1.04e-02	8.57e-03	2.10e-02
##	2546	-3.48e-05	-1.03e-03	-9.84e-04	-3.28e-03	-1.62e-03	2.85e-03	-7.45e-03
##	2547	-2.06e-03	-5.70e-03	3.55e-03	-9.99e-03	-7.85e-03	4.81e-03	1.74e-02
##	2548	-4.61e-04	-1.78e-03	2.11e-03	1.41e-03	-1.14e-03	-2.49e-03	9.45e-03
##	2549	-3.54e-03	-4.60e-03	5.95e-03	-3.24e-03	-1.61e-02	1.13e-02	3.20e-02
##	2550	5.56e-03	-4.57e-03	-1.12e-02	1.34e-02	-7.07e-03	2.69e-03	4.45e-02
##	2551	9.01e-03	-2.71e-03	-1.15e-02	7.09e-04	-1.08e-02	-3.36e-04	5.14e-02
##	2552	1.38e-02	-1.40e-02	-8.35e-03	1.92e-02	8.62e-03	-2.61e-03	5.31e-02
##	2553	3.59e-03	2.44e-03	1.32e-02	9.88e-03	-3.33e-03	1.09e-02	3.96e-02
##	2554	-3.89e-04	-7.34e-04	1.21e-03	2.35e-03	-3.71e-04	-1.17e-03	5.79e-03
##	2555	5.23e-05	2.38e-04	-1.71e-04	2.52e-04	-8.92e-05	4.70e-04	1.02e-03
##	2556	3.37e-02	2.54e-02	1.11e-02	-1.44e-02	-6.63e-03	6.57e-03	-9.43e-02
##	2557	2.96e-03	1.56e-03	-9.87e-04	7.99e-05	4.03e-04	1.78e-03	5.63e-03
##	2558	-8.44e-04	9.70e-04	1.91e-03	-1.51e-03	1.41e-03	-5.14e-04	7.82e-03
##	2559	1.00e-02	6.60e-03	-2.70e-02	-1.90e-02	-6.17e-03	1.78e-02	-6.37e-02
##	2560	2.22e-02	-1.50e-02	1.56e-02	1.26e-02	1.82e-02	1.93e-02	-8.90e-02
##	2561	-1.05e-04	1.09e-02	-7.42e-03	-8.97e-03	-6.04e-03	4.92e-03	2.28e-02
##	2562	3.05e-03	-1.53e-03	-5.01e-03	4.23e-03	4.28e-03	-1.65e-03	-1.56e-02
##	2563	-4.61e-02	3.55e-02	7.35e-03	-1.98e-02	4.15e-03	-1.51e-02	-1.03e-01
##	2564	6.06e-05	2.91e-03	4.64e-04	1.18e-03	-4.69e-04	1.26e-03	5.22e-03
##	2565	7.08e-05	-2.11e-04	-1.45e-03	-4.57e-05	-7.30e-04	3.90e-03	-8.45e-03
##	2566	1.17e-02	7.68e-03	3.43e-03	7.25e-03	-2.36e-03	1.33e-03	-5.08e-02
##	2567	1.31e-03	1.60e-02	-6.43e-03	6.12e-03	1.18e-02	3.03e-03	3.86e-02
##	2568	1.09e-04	-2.36e-04	-1.46e-03	1.91e-03	-6.33e-04	3.86e-03	-8.56e-03
##	2569	3.86e-02	-5.19e-03	1.55e-02	-1.64e-02	1.55e-02	-7.94e-03	-6.96e-02

## 2570	1.13e-02	8.62e-03	8.97e-04	2.07e-02	4.73e-03	-6.48e-03	-5.89e-02
## 2571	-1.28e-03	-5.57e-03	2.18e-03	-4.54e-03	-2.76e-03	-8.94e-04	1.00e-02
## 2572	-1.81e-03	-1.60e-02	-2.27e-03	-9.31e-03	-9.46e-04	6.25e-03	3.60e-02
## 2573	7.67e-03	-3.32e-03	2.12e-03	-1.20e-03	-7.07e-03	1.14e-02	-2.82e-02
## 2574	9.16e-03	2.28e-02	6.00e-03	-9.63e-03	-7.32e-03	1.40e-02	-8.52e-02
## 2575	2.31e-05	-1.27e-03	-6.90e-04	6.52e-04	-3.72e-04	1.02e-03	-4.13e-03
## 2576	-1.30e-02	-1.70e-02	-3.14e-03	9.46e-03	6.39e-03	-9.43e-03	9.55e-02
## 2577	-2.17e-03	-5.63e-03	3.69e-03	-6.37e-03	-8.17e-03	5.32e-03	1.69e-02
## 2578	-1.82e-02	-6.71e-03	-6.92e-03	7.17e-03	1.63e-02	-4.19e-02	1.03e-01
## 2579	-2.92e-03	-1.75e-03	-1.94e-03	2.01e-03	4.89e-04	-2.02e-05	-9.71e-03
## 2580	2.58e-03	-6.31e-03	-2.36e-03	-5.02e-04	-3.46e-03	-9.20e-04	1.59e-02
## 2581	7.54e-06	3.03e-04	1.00e-04	2.61e-04	2.34e-05	-4.50e-05	6.94e-04
## 2582	-8.67e-04	-5.12e-03	1.46e-03	2.62e-03	-8.05e-04	-2.08e-03	8.11e-03
## 2583	-2.83e-04	-1.95e-04	7.27e-04	-1.19e-03	-7.43e-04	3.61e-04	4.15e-03
## 2584	3.19e-03	-4.47e-03	1.00e-02	1.81e-04	-2.36e-03	4.14e-03	3.20e-02
## 2585	-8.75e-03	-8.73e-03	4.48e-03	-1.21e-03	-9.61e-03	3.11e-03	-3.59e-02
## 2586	-2.09e-02	-8.67e-03	2.69e-02	-2.30e-02	9.78e-03	-1.07e-02	7.77e-02
## 2587	-7.59e-03	-1.81e-02	-2.22e-03	9.53e-03	-2.15e-03	8.57e-03	4.95e-02
## 2588	-2.17e-03	-6.32e-03	3.78e-03	3.95e-03	-7.75e-03	4.61e-03	1.71e-02
## 2589	4.68e-05	-8.13e-04	-1.96e-03	4.02e-03	-2.27e-03	4.92e-03	-1.27e-02
## 2590	4.22e-04	4.61e-03	-1.89e-03	-3.49e-03	-1.10e-03	5.31e-03	1.44e-02
## 2591	-2.82e-04	3.48e-04	-4.01e-04	-4.24e-04	-6.41e-04	3.43e-04	2.24e-03
## 2592	8.64e-03	1.01e-02	-8.07e-03	-5.97e-03	-4.88e-03	7.04e-04	4.03e-02
## 2593	-7.97e-04	-1.73e-03	-2.22e-03	4.12e-03	-3.18e-03	7.00e-03	1.78e-02
## 2594	2.19e-02	4.69e-03	-1.31e-02	3.26e-03	2.65e-02	-7.83e-03	6.71e-02
## 2595	8.07e-03	-2.38e-03	6.70e-03	-5.93e-04	3.13e-03	9.62e-04	-2.45e-02
## 2596	1.79e-02	9.29e-03	2.69e-02	-6.25e-05	3.45e-02	-6.73e-04	5.81e-02
## 2597	-3.15e-04	6.89e-04	-5.09e-04	-6.11e-04	2.15e-04	1.10e-03	3.32e-03
## 2598	2.08e-04	-2.98e-03	-2.27e-03	5.04e-03	-1.64e-03	7.84e-03	2.16e-02
## 2599	7.85e-06	3.81e-05	-2.69e-05	3.90e-05	-1.72e-05	8.12e-05	1.69e-04
## 2600	-9.99e-03	-1.51e-02	3.25e-02	-2.56e-02	8.76e-03	-8.37e-03	7.04e-02
## 2601	2.61e-04	1.12e-02	-7.39e-03	3.81e-03	-3.53e-03	4.56e-03	1.79e-02
## 2602	-1.44e-02	-1.38e-02	2.59e-02	6.67e-03	8.61e-03	-1.39e-02	6.42e-02
## 2603	-1.06e-02	-1.05e-02	6.65e-03	-2.51e-04	-1.36e-02	-1.38e-04	-4.14e-02
## 2604	-1.36e-02	1.50e-02	2.84e-02	2.76e-04	6.21e-03	-1.71e-02	-1.20e-01
## 2605	9.11e-03	3.71e-02	4.60e-03	-1.90e-02	1.37e-02	-1.56e-02	-8.83e-02
## 2606	-2.05e-02	3.87e-02	-3.09e-02	1.28e-02	-1.32e-02	4.72e-03	-1.35e-01
## 2607	-1.52e-02	-5.59e-03	9.78e-03	-2.56e-03	-2.15e-02	-1.45e-03	-5.14e-02
## 2608	-1.90e-02	-1.33e-02	1.82e-02	-8.42e-03	-1.08e-02	-1.33e-02	5.96e-02
## 2609	-9.24e-03	-8.58e-03	6.32e-03	-1.30e-02	-1.55e-02	1.19e-02	-4.56e-02
## 2610	2.70e-02	2.11e-02	2.13e-02	-2.39e-04	-1.33e-02	-3.76e-02	-1.44e-01
## 2611	2.46e-03	-1.85e-03	3.19e-03	3.22e-03	6.04e-03	-2.90e-03	-1.38e-02
## 2612	-5.34e-03	-1.20e-04	2.19e-02	4.32e-02	1.89e-02	-2.51e-02	-9.19e-02
## 2613	1.02e-02	1.44e-02	3.66e-02	-1.49e-02	5.33e-02	-3.79e-02	-9.18e-02
## 2614	-3.39e-04	-1.49e-04	9.49e-04	5.34e-05	-1.02e-03	5.30e-04	4.83e-03
## 2615	9.77e-03	1.73e-02	2.30e-03	-9.84e-03	3.54e-03	1.62e-02	-6.98e-02
## 2616	7.68e-03	-1.03e-02	-8.13e-03	1.86e-03	-7.79e-03	-6.22e-03	3.60e-02
## 2617	1.45e-03	-1.35e-03	1.91e-03	-1.41e-04	2.07e-03	-4.29e-04	-9.17e-03
## 2618	5.49e-03	1.47e-02	-1.03e-02	4.97e-03	-6.21e-03	5.22e-03	5.34e-02
## 2619	1.38e-02	1.15e-03	2.41e-02	-1.55e-02	3.07e-02	-1.30e-02	8.18e-02

##	2620	4.56e-03	-9.69e-03	-9.51e-03	1.31e-02	-6.43e-03	-9.77e-03	4.98e-02
##	2621	8.65e-03	-1.08e-02	-4.75e-03	6.39e-03	4.56e-03	3.52e-03	3.60e-02
##	2622	-4.13e-03	-1.74e-03	3.10e-03	2.48e-03	1.55e-03	-3.57e-03	1.42e-02
##	2623	-9.72e-06	3.47e-03	1.29e-03	-1.47e-03	-8.79e-04	-1.82e-04	7.69e-03
##	2624	1.15e-02	-1.39e-03	-1.28e-02	1.73e-02	2.66e-02	-2.67e-02	7.52e-02
##	2625	-1.50e-02	-7.35e-03	-2.29e-02	1.53e-02	-2.85e-02	5.39e-05	-5.14e-02
##	2626	4.09e-03	3.68e-03	-2.27e-03	2.12e-05	3.32e-03	2.24e-03	1.15e-02
##	2627	6.36e-03	-1.35e-03	1.77e-03	-2.28e-03	-2.83e-03	1.33e-02	-3.37e-02
##	2628	-4.05e-03	5.02e-03	-3.02e-03	5.08e-03	-3.85e-04	-3.05e-04	1.47e-02
##	2629	5.84e-03	-1.18e-03	-1.51e-03	-2.85e-03	-5.98e-05	3.47e-03	1.30e-02
##	2630	-2.13e-02	-5.87e-04	7.05e-03	-1.56e-03	-1.98e-02	1.55e-02	-6.25e-02
##	2631	1.88e-05	-2.90e-04	-3.52e-04	-9.67e-04	-2.50e-04	9.76e-04	-2.38e-03
##	2632	1.03e-04	2.23e-03	-1.14e-03	1.37e-04	-1.62e-03	3.38e-03	8.53e-03
##	2633	1.16e-03	1.35e-03	6.46e-04	-3.67e-04	1.20e-03	-2.14e-04	4.45e-03
##	2634	4.71e-03	3.25e-03	1.18e-02	3.21e-02	-6.79e-03	-1.02e-02	-1.05e-01
##	2635	-2.39e-03	1.29e-02	2.31e-02	-6.60e-03	2.00e-02	1.65e-03	-8.91e-02
##	2636	-1.74e-02	-1.23e-02	-7.14e-03	-2.15e-02	1.17e-02	-1.56e-02	6.65e-02
##	2637	4.55e-04	-4.03e-03	9.75e-03	-7.64e-03	-5.05e-03	-4.45e-03	4.10e-02
##	2638	2.07e-02	2.54e-02	1.06e-02	-1.49e-02	-1.32e-02	-8.37e-03	-9.36e-02
##	2639	2.27e-02	8.27e-03	6.70e-03	-8.29e-03	-8.91e-03	-1.68e-03	-5.75e-02
##	2640	-1.36e-02	8.29e-03	2.05e-02	1.81e-02	1.37e-02	-5.43e-03	-1.03e-01
##	2641	-2.41e-03	-4.63e-03	4.28e-03	-8.28e-03	-1.12e-02	9.50e-03	2.15e-02
##	2642	-7.54e-04	1.34e-03	-9.63e-04	-1.74e-04	-7.22e-04	-3.28e-05	4.56e-03
##	2643	-3.20e-03	-4.85e-03	-1.16e-02	4.93e-03	-1.66e-02	1.16e-02	2.90e-02
##	2644	2.74e-03	-9.67e-03	-8.08e-03	3.98e-03	-7.81e-03	-2.92e-03	3.45e-02
##	2645	3.63e-05	-4.28e-04	-7.27e-04	1.14e-04	-2.50e-04	1.73e-03	-4.15e-03
##	2646	1.68e-02	-4.40e-03	-1.23e-02	-1.05e-02	1.55e-02	-1.36e-02	7.11e-02
##	2647	1.12e-02	4.54e-03	4.88e-03	-4.52e-03	-1.17e-02	3.14e-03	-4.89e-02
##	2648	-3.00e-02	1.93e-03	1.74e-02	1.19e-02	-5.86e-03	5.06e-03	5.58e-02
##	2649	3.97e-03	-1.50e-03	-5.34e-03	1.28e-04	8.39e-04	-3.46e-03	-2.25e-02
##	2650	8.61e-03	-3.83e-03	3.47e-03	-1.04e-03	-1.19e-02	1.18e-02	-3.81e-02
##	2651	-1.79e-02	-1.78e-03	-2.22e-02	-1.42e-02	-2.07e-02	1.88e-02	-6.62e-02
##	2652	-7.81e-03	2.21e-04	5.22e-03	2.37e-03	6.27e-04	-6.54e-04	1.93e-02
##	2653	-2.46e-02	-9.92e-03	-9.22e-03	4.81e-03	-1.20e-02	-2.58e-03	4.86e-02
##	2654	6.70e-05	3.13e-03	5.05e-04	1.27e-03	-6.11e-04	1.49e-03	5.65e-03
##	2655	7.46e-04	-7.47e-04	-1.29e-03	8.42e-05	7.49e-04	-1.94e-04	-4.53e-03
##	2656	1.81e-03	-3.81e-03	-1.02e-02	-8.21e-03	-3.91e-03	3.77e-03	3.82e-02
##	2657	-1.07e-03	-7.24e-04	1.04e-03	-1.70e-03	-1.09e-03	1.13e-03	-4.48e-03
##	2658	1.73e-02	6.17e-05	1.13e-02	1.35e-03	1.59e-02	-3.29e-03	-7.00e-02
##	2659	-2.13e-03	-4.90e-04	-3.48e-03	-7.04e-04	-3.64e-03	6.75e-03	2.57e-02
##	2660	1.05e-02	-2.05e-04	-3.36e-03	-6.00e-04	2.48e-03	4.46e-03	2.40e-02
##	2661	-1.37e-02	7.48e-03	-7.19e-03	6.15e-03	1.04e-02	-8.12e-03	5.42e-02
##	2662	1.41e-03	-1.30e-03	1.88e-03	1.24e-04	1.46e-03	-3.29e-04	-9.33e-03
##	2663	-3.34e-04	-1.28e-03	-2.51e-03	4.41e-05	1.19e-04	-3.32e-03	-7.31e-03
##	2664	1.12e-02	2.54e-02	-1.69e-02	-1.36e-02	4.39e-02	-4.13e-02	-1.07e-01
##	2665	2.64e-02	4.18e-03	8.15e-03	-6.24e-03	-1.33e-02	2.04e-02	-6.94e-02
##	2666	1.46e-02	-7.84e-04	-5.02e-03	1.24e-02	6.18e-03	4.27e-03	3.39e-02
##	2667	-3.18e-03	-1.43e-02	1.32e-02	5.07e-03	-1.36e-03	7.48e-03	3.37e-02
##	2668	-4.16e-04	8.16e-06	1.17e-03	-3.40e-03	-1.45e-03	5.77e-04	5.79e-03
##	2669	1.38e-02	6.82e-03	5.05e-03	2.32e-02	-6.13e-03	1.06e-02	-6.27e-02

##	2670	-3.33e-03	-5.25e-03	6.38e-03	4.84e-03	-1.55e-02	1.05e-02	3.33e-02
##	2671	-3.15e-05	-8.08e-04	-3.26e-04	-1.01e-03	-3.58e-04	4.83e-04	-2.47e-03
##	2672	-4.40e-04	-5.67e-05	1.58e-03	2.77e-03	-1.25e-03	9.61e-05	7.30e-03
##	2673	-1.35e-02	-7.96e-03	8.84e-03	1.25e-02	-1.98e-02	-1.15e-03	-4.23e-02
##	2674	-4.56e-04	-1.45e-04	1.30e-03	2.33e-03	-1.09e-03	-8.55e-05	6.25e-03
##	2675	-1.10e-02	-7.24e-03	7.08e-03	-1.88e-03	-1.40e-02	3.66e-03	-4.36e-02
##	2676	5.11e-03	-4.80e-04	-7.62e-03	7.02e-03	4.49e-03	-2.25e-03	-2.73e-02
##	2677	5.50e-04	5.62e-04	3.37e-04	-1.09e-04	6.02e-04	-3.19e-04	2.17e-03
##	2678	-5.00e-03	-4.11e-03	-2.41e-02	-1.82e-02	1.08e-02	-1.20e-02	-7.53e-02
##	2679	-1.16e-02	-3.93e-03	1.04e-02	-1.67e-02	-1.85e-02	1.03e-02	-5.65e-02
##	2680	-1.14e-03	-1.74e-03	-1.38e-03	-5.22e-03	-2.52e-03	9.02e-03	2.21e-02
##	2681	-4.45e-05	-2.26e-05	-2.57e-05	1.67e-05	-8.79e-06	-3.00e-05	-8.88e-05
##	2682	-1.49e-02	-1.08e-03	6.63e-03	-4.92e-03	-9.08e-03	5.96e-03	-5.38e-02
##	2683	-1.27e-02	-1.49e-02	1.93e-02	4.97e-03	1.77e-02	-6.79e-03	5.69e-02
##	2684	-1.01e-02	-7.13e-03	7.27e-03	-2.49e-03	-1.38e-02	1.09e-02	-5.37e-02
##	2685	4.24e-04	2.64e-03	-1.19e-03	2.51e-04	-1.42e-03	4.13e-03	9.95e-03
##	2686	-1.82e-02	-3.69e-03	4.76e-03	9.85e-03	-1.23e-02	4.79e-03	-5.48e-02
##	2687	-2.31e-02	1.76e-02	-1.27e-02	1.07e-03	-4.66e-03	4.26e-04	4.90e-02
##	2688	1.53e-03	-5.28e-03	-9.26e-03	2.30e-03	-4.70e-03	1.44e-03	3.12e-02
##	2689	3.66e-04	-1.04e-04	-2.41e-03	4.04e-03	-3.09e-03	8.17e-03	-1.69e-02
##	2690	-1.84e-03	-5.45e-03	2.91e-03	-5.60e-03	-7.03e-03	5.35e-03	1.63e-02
##	2691	-2.17e-03	-7.22e-04	-1.27e-03	-1.76e-04	-1.60e-03	-4.79e-04	5.40e-03
##	2692	-2.67e-03	-1.05e-03	-1.66e-03	-4.24e-03	-3.73e-03	2.99e-03	-1.15e-02
##	2693	4.23e-03	-1.36e-03	-6.42e-03	4.94e-03	7.78e-03	-2.80e-03	-2.08e-02
##	2694	-2.46e-03	-4.80e-03	4.13e-03	3.27e-03	-1.04e-02	8.66e-03	2.08e-02
##	2695	2.67e-02	-1.21e-02	-2.90e-03	9.47e-03	5.63e-03	-9.86e-03	7.53e-02
##	2696	5.63e-03	-9.15e-03	1.21e-02	3.63e-03	4.58e-03	1.54e-03	4.10e-02
##	2697	4.77e-04	2.65e-03	-1.18e-03	4.34e-04	-4.44e-04	2.94e-03	-6.60e-03
##	2698	2.84e-03	2.65e-03	1.28e-02	-1.94e-03	-5.77e-03	1.24e-02	3.76e-02
##	2699	-4.12e-03	-8.46e-03	1.59e-02	-1.68e-02	1.73e-02	-1.25e-02	-6.65e-02
##	2700	-4.30e-03	-9.94e-04	3.22e-03	-6.22e-04	-2.37e-04	6.20e-04	1.30e-02
##	2701	5.18e-05	-2.19e-04	-1.58e-03	2.00e-03	-6.88e-04	3.94e-03	-9.03e-03
##	2702	-1.81e-02	-3.77e-03	-2.14e-02	-1.28e-03	-2.90e-02	9.53e-03	-6.53e-02
##	2703	9.04e-03	4.97e-03	5.90e-03	-2.16e-03	-1.49e-02	2.63e-02	-5.52e-02
##	2704	1.07e-02	-1.40e-04	2.78e-03	-3.35e-03	-5.00e-03	1.44e-02	-4.67e-02
##	2705	-1.54e-02	-1.63e-02	-6.27e-03	7.52e-03	-1.62e-02	-9.89e-03	6.74e-02
##	2706	-4.61e-04	2.90e-04	1.69e-03	-2.35e-03	-2.10e-03	1.03e-03	8.49e-03
##	2707	9.28e-03	-2.01e-02	8.64e-03	2.70e-02	-1.96e-02	-4.95e-03	-7.50e-02
##	2708	5.16e-03	-1.49e-03	1.05e-02	9.01e-03	1.03e-04	9.92e-03	4.65e-02
##	2709	-3.24e-03	-4.42e-03	-1.18e-02	4.57e-03	-1.66e-02	1.18e-02	2.93e-02
##	2710	-3.28e-03	1.22e-02	-4.92e-03	-7.39e-03	6.43e-03	5.37e-03	3.30e-02
##	2711	-2.89e-03	-1.14e-02	-6.40e-03	-8.54e-03	-8.74e-03	-3.76e-03	2.35e-02
##	2712	3.36e-03	-4.12e-03	1.14e-02	1.13e-02	-1.70e-03	5.50e-03	3.86e-02
##	2713	3.52e-03	-9.52e-04	-6.85e-03	5.24e-03	6.42e-03	-4.64e-03	-2.09e-02
##	2714	-1.60e-03	-1.27e-03	1.87e-03	1.42e-03	-1.40e-03	2.17e-03	-7.59e-03
##	2715	-8.97e-04	9.04e-04	-8.41e-04	-1.12e-04	-6.89e-04	1.62e-04	4.48e-03
##	2716	-6.31e-03	3.93e-03	-2.73e-02	-2.66e-03	9.92e-03	-1.01e-02	-7.75e-02
##	2717	1.80e-02	-5.04e-03	5.08e-03	-1.93e-03	-1.04e-02	4.11e-03	-4.57e-02
##	2718	-1.91e-06	-3.62e-04	-9.63e-05	-2.91e-04	-2.10e-05	9.64e-06	-8.31e-04
##	2719	-1.82e-03	-6.45e-03	3.24e-03	-4.45e-03	-5.36e-03	1.65e-03	1.35e-02

##	2720	5.86e-04	3.33e-03	-1.50e-03	2.64e-03	-4.70e-04	3.51e-03	-8.56e-03
##	2721	8.14e-03	4.14e-03	1.50e-02	-2.56e-03	-3.86e-03	2.39e-02	5.54e-02
##	2722	2.21e-05	7.44e-04	1.71e-04	4.50e-04	2.98e-05	1.30e-04	1.63e-03
##	2723	9.18e-03	-2.58e-03	2.21e-03	1.61e-02	-6.36e-03	1.11e-02	-3.63e-02
##	2724	-8.96e-03	5.24e-03	1.13e-02	2.96e-03	2.17e-04	-7.86e-03	4.53e-02
##	2725	1.44e-02	-5.28e-03	4.12e-03	-1.53e-03	-1.09e-02	8.70e-03	-3.46e-02
##	2726	-3.94e-03	2.86e-03	-2.92e-03	-1.26e-02	2.24e-03	4.33e-03	4.03e-02
##	2727	-3.21e-03	-1.28e-02	1.04e-02	-1.03e-03	-3.64e-03	4.85e-03	2.71e-02
##	2728	-1.98e-03	-5.29e-03	3.41e-03	-6.78e-03	-8.17e-03	7.36e-03	1.99e-02
##	2729	1.37e-02	4.57e-03	-1.28e-02	1.50e-02	-1.39e-02	6.73e-03	6.93e-02
##	2730	-2.22e-03	-6.20e-03	3.87e-03	3.85e-03	-7.71e-03	4.63e-03	1.75e-02
##	2731	1.34e-02	-1.16e-02	-4.63e-03	-1.60e-02	2.55e-03	9.83e-03	5.59e-02
##	2732	-1.42e-02	-1.50e-02	2.11e-02	9.34e-03	1.11e-03	6.84e-03	5.33e-02
##	2733	1.84e-04	-2.77e-03	-2.79e-03	-7.90e-04	-2.53e-03	1.08e-02	2.72e-02
##	2734	-1.53e-03	2.49e-03	1.77e-03	-2.29e-03	-2.84e-04	1.17e-04	8.22e-03
##	2735	-7.58e-04	-1.99e-03	1.18e-02	-7.18e-03	1.55e-03	1.10e-02	3.11e-02
##	2736	-6.20e-03	-5.36e-03	-2.41e-02	-1.80e-02	8.42e-03	-2.21e-02	-7.37e-02
##	2737	8.82e-03	-4.24e-03	2.36e-03	-1.01e-03	-6.83e-03	8.68e-03	-3.52e-02
##	2738	-5.05e-03	-3.41e-03	-5.13e-03	5.40e-03	3.40e-04	2.95e-03	-2.41e-02
##	2739	9.21e-05	5.76e-04	-4.29e-04	5.37e-04	2.50e-04	6.17e-04	2.40e-03
##	2740	7.41e-04	1.79e-02	-6.24e-03	-2.27e-03	1.03e-02	1.76e-03	4.02e-02
##	2741	-1.10e-02	-5.99e-03	2.13e-03	-1.20e-03	-6.14e-03	7.30e-03	-3.34e-02
##	2742	2.81e-05	4.61e-04	1.29e-04	3.57e-04	4.51e-05	3.38e-05	1.01e-03
##	2743	-3.15e-03	-5.81e-03	-1.06e-02	4.81e-03	-1.44e-02	8.61e-03	2.55e-02
##	2744	1.99e-02	-2.55e-03	1.03e-02	1.68e-03	1.46e-02	-1.05e-02	-6.83e-02
##	2745	-8.87e-03	2.56e-03	1.21e-02	-1.27e-02	-7.36e-03	1.19e-03	3.97e-02
##	2746	-1.23e-03	7.31e-03	-1.01e-02	3.91e-03	-1.01e-02	9.47e-03	2.33e-02
##	2747	7.92e-03	-4.10e-03	-1.20e-02	1.42e-02	-5.11e-04	1.18e-02	5.61e-02
##	2748	-1.69e-02	4.98e-02	-3.10e-02	4.59e-02	-1.32e-02	4.06e-03	-1.48e-01
##	2749	8.30e-03	-2.58e-03	-1.62e-02	-9.59e-03	-1.30e-02	1.43e-02	-3.77e-02
##	2750	7.53e-03	-5.95e-03	8.87e-03	8.40e-03	1.60e-03	8.06e-04	4.69e-02
##	2751	-9.95e-04	-5.37e-03	1.72e-03	8.49e-04	-1.25e-03	-2.42e-03	8.77e-03
##	2752	9.31e-03	1.92e-02	-1.85e-02	-1.47e-02	4.31e-02	-3.79e-02	-8.91e-02
##	2753	2.80e-03	-1.10e-03	2.28e-03	-1.66e-03	1.82e-03	1.85e-03	8.31e-03
##	2754	-2.35e-03	-5.33e-03	4.11e-03	3.53e-03	-9.47e-03	7.29e-03	1.97e-02
##	2755	-2.42e-03	-4.36e-03	3.97e-03	-1.32e-02	-1.09e-02	9.08e-03	2.26e-02
##	2756	-8.32e-04	9.97e-04	-5.74e-03	-3.48e-03	-4.33e-03	1.51e-03	1.20e-02
##	2757	3.03e-02	-4.11e-03	1.11e-02	-5.04e-04	1.61e-02	-1.67e-02	-7.89e-02
##	2758	-7.72e-04	2.54e-02	1.57e-02	-1.67e-02	2.00e-02	-6.33e-03	5.40e-02
##	2759	3.36e-03	-6.12e-03	4.32e-03	2.46e-03	4.35e-03	1.15e-03	1.53e-02
##	2760	8.12e-04	-5.69e-03	2.96e-03	1.34e-03	-1.90e-03	-3.41e-03	1.39e-02
##	2761	1.78e-02	5.12e-03	-1.14e-02	2.92e-03	2.55e-02	2.38e-03	5.11e-02
##	2762	-4.51e-04	-2.52e-03	-2.06e-03	3.67e-03	-2.05e-03	4.11e-03	1.44e-02
##	2763	1.32e-02	-1.59e-02	-5.46e-03	-1.16e-02	5.79e-03	3.16e-03	4.91e-02
##	2764	-6.60e-04	2.49e-03	2.21e-03	3.06e-03	-3.89e-03	3.97e-03	1.20e-02
##	2765	1.28e-02	3.91e-02	-2.27e-02	6.13e-02	4.66e-02	-2.55e-02	-1.08e-01
##	2766	1.17e-02	3.90e-03	4.37e-03	-3.86e-03	-7.47e-03	1.01e-02	-4.56e-02
##	2767	-2.22e-02	-9.02e-03	-1.19e-02	1.25e-02	-8.92e-03	-5.45e-03	5.12e-02
##	2768	-6.42e-03	-2.41e-03	-5.04e-03	-1.00e-04	8.72e-04	5.54e-04	-2.01e-02
##	2769	8.04e-03	-7.83e-03	1.17e-02	2.43e-03	6.42e-04	3.48e-03	4.78e-02

##	2770	3.49e-03	-3.74e-03	1.04e-02	8.76e-03	-1.15e-03	3.33e-03	3.51e-02
##	2771	-1.58e-02	3.98e-03	2.94e-02	-2.53e-02	2.01e-02	6.40e-03	-1.44e-01
##	2772	-1.29e-02	-4.87e-03	7.32e-03	1.07e-02	-1.35e-02	4.50e-03	-6.41e-02
##	2773	-2.23e-03	-5.86e-03	3.79e-03	-1.57e-03	-8.11e-03	5.15e-03	1.65e-02
##	2774	1.79e-02	3.32e-02	-1.22e-02	1.95e-02	3.03e-02	-5.37e-03	6.53e-02
##	2775	-1.67e-02	-3.80e-03	4.35e-03	-2.07e-03	-1.12e-02	7.76e-03	-3.89e-02
##	2776	-3.55e-02	-3.33e-03	-3.03e-02	-4.04e-02	2.36e-03	3.60e-02	-1.37e-01
##	2777	-2.88e-02	-1.85e-03	-1.03e-02	3.10e-04	-1.37e-02	2.96e-04	8.06e-02
##	2778	-3.21e-03	5.10e-03	-3.98e-03	-4.78e-03	-3.09e-03	-1.21e-03	1.65e-02
##	2779	-1.80e-02	-1.29e-02	-5.95e-03	8.27e-03	2.55e-03	-1.45e-03	5.24e-02
##	2780	1.05e-02	9.31e-03	6.66e-03	2.46e-02	-1.50e-02	2.56e-02	-7.30e-02
##	2781	-2.32e-03	2.96e-02	1.89e-02	6.44e-03	1.87e-02	-1.52e-02	6.04e-02
##	2782	1.30e-03	2.56e-03	3.09e-03	4.39e-03	1.73e-03	-6.03e-04	1.55e-02
##	2783	-9.26e-06	6.11e-06	-1.29e-03	-4.02e-03	-1.65e-03	4.43e-03	-9.23e-03
##	2784	3.73e-03	-6.12e-04	-2.12e-03	-2.33e-05	2.46e-03	2.74e-03	1.41e-02
##	2785	3.22e-02	-8.10e-03	-7.42e-03	-9.89e-03	9.58e-03	-9.93e-03	7.03e-02
##	2786	6.92e-03	-4.86e-02	1.73e-02	-2.09e-02	-1.57e-02	-1.06e-02	-1.16e-01
##	2787	-1.05e-03	1.59e-03	-1.26e-03	-1.39e-03	-9.91e-04	4.21e-04	5.71e-03
##	2788	1.45e-03	-2.64e-03	1.08e-02	9.50e-04	-3.76e-03	2.37e-03	3.25e-02
##	2789	1.51e-02	7.25e-03	-1.41e-02	2.64e-03	2.53e-02	-1.58e-02	7.59e-02
##	2790	7.49e-04	-5.41e-03	6.31e-03	1.85e-03	-7.33e-04	-2.18e-03	2.16e-02
##	2791	-9.84e-03	-7.05e-03	4.93e-03	-2.54e-03	-9.26e-03	2.23e-03	-3.92e-02
##	2792	1.72e-02	-1.50e-02	-4.11e-03	-1.16e-02	6.62e-05	8.05e-03	4.78e-02
##	2793	6.38e-03	-1.42e-03	2.69e-03	-1.65e-03	-7.55e-03	1.57e-02	-3.28e-02
##	2794	8.38e-03	1.18e-03	5.09e-03	-2.39e-03	-1.11e-02	1.41e-02	-4.35e-02
##	2795	5.04e-04	2.06e-03	-1.07e-03	2.23e-03	-9.42e-05	2.13e-03	-6.76e-03
##	2796	-1.52e-03	-6.77e-03	2.79e-03	3.69e-03	-4.39e-03	1.83e-03	1.41e-02
##	2797	-1.41e-03	-1.95e-03	-2.14e-03	-6.02e-04	-6.52e-04	9.15e-03	2.63e-02
##	2798	7.92e-03	1.63e-02	3.23e-03	-9.03e-03	1.84e-03	1.11e-02	-6.56e-02
##	2799	-4.23e-05	1.05e-03	-1.23e-03	-1.18e-03	-2.30e-04	-4.13e-04	3.01e-03
##	2800	-1.96e-02	-4.24e-02	-2.50e-02	4.66e-02	-1.46e-03	-4.27e-02	-1.26e-01
##	2801	-3.75e-03	-4.77e-03	-4.57e-03	5.11e-03	-3.36e-03	2.58e-03	-2.20e-02
##	2802	-2.30e-03	3.62e-03	-2.42e-03	2.30e-03	-2.88e-03	-3.22e-04	1.12e-02
##	2803	-6.50e-04	2.25e-03	1.62e-03	2.18e-03	-3.41e-03	4.44e-03	1.25e-02
##	2804	-1.96e-02	-4.28e-03	3.12e-02	1.77e-03	3.88e-02	-3.57e-02	9.97e-02
##	2805	6.96e-03	-9.84e-03	1.38e-02	4.55e-03	6.13e-04	-5.52e-03	5.19e-02
##	2806	-2.93e-04	-3.86e-03	-2.40e-03	-7.35e-03	-4.88e-03	1.15e-02	3.53e-02
##	2807	-1.96e-05	-6.57e-04	-2.43e-04	-7.42e-04	-1.82e-04	2.42e-04	-1.85e-03
##	2808	7.27e-03	7.87e-03	9.24e-03	-2.47e-02	6.99e-03	-3.49e-02	-1.14e-01
##	2809	7.12e-05	-3.67e-04	-7.53e-04	-2.15e-03	-6.22e-04	2.38e-03	-5.30e-03
##	2810	-3.71e-03	-1.45e-03	-2.50e-03	2.44e-03	-2.54e-03	2.31e-03	-1.22e-02
##	2811	-2.45e-02	3.48e-03	8.78e-03	-1.57e-02	-1.98e-02	2.27e-02	-6.60e-02
##	2812	2.29e-04	3.36e-03	-1.58e-03	2.45e-03	-1.08e-03	5.14e-03	1.09e-02
##	2813	-1.60e-05	-4.72e-04	-2.06e-04	2.10e-04	-3.46e-05	1.42e-04	-1.28e-03
##	2814	1.76e-02	2.33e-02	-3.26e-02	1.22e-02	-2.38e-02	1.09e-02	-9.30e-02
##	2815	4.15e-04	-1.17e-03	9.52e-03	-2.37e-04	-2.87e-03	-1.11e-03	3.44e-02
##	2816	-2.61e-04	-7.75e-04	6.37e-04	-1.11e-03	-4.77e-04	-9.05e-04	3.10e-03
##	2817	-8.34e-03	-8.80e-03	4.75e-03	-1.30e-03	-8.20e-03	3.16e-03	-3.91e-02
##	2818	6.17e-02	7.46e-02	-3.79e-02	1.03e-02	3.37e-02	2.73e-02	-1.51e-01
##	2819	-1.44e-05	1.68e-03	-1.77e-03	-1.74e-03	-4.62e-04	-2.78e-04	4.51e-03

##	2820	5.76e-05	-8.96e-04	-1.17e-03	-3.82e-03	-1.76e-03	4.05e-03	-9.27e-03
##	2821	-3.95e-03	-9.12e-03	-1.12e-02	-7.97e-04	-1.73e-02	4.03e-03	3.22e-02
##	2822	4.49e-03	1.33e-02	8.62e-03	1.10e-03	1.92e-04	8.27e-03	3.49e-02
##	2823	1.92e-03	5.79e-03	-1.25e-02	1.15e-02	-9.36e-03	5.03e-03	4.84e-02
##	2824	2.98e-04	1.05e-02	1.32e-03	2.11e-03	-2.69e-03	6.06e-03	1.58e-02
##	2825	-1.21e-02	-8.41e-03	7.17e-03	-1.48e-03	-1.45e-02	-1.28e-03	-4.53e-02
##	2826	-2.62e-03	-3.83e-03	-2.42e-03	-2.50e-03	-2.04e-03	1.44e-03	-1.34e-02
##	2827	-1.65e-02	-2.16e-03	2.25e-03	-4.20e-03	-7.34e-03	1.76e-02	-4.89e-02
##	2828	5.31e-03	5.06e-04	6.24e-03	-1.75e-03	-2.51e-03	-1.00e-03	2.11e-02
##	2829	-2.38e-03	-3.31e-03	3.30e-03	2.49e-03	-2.83e-04	7.33e-04	-1.27e-02
##	2830	-1.03e-04	-3.80e-04	3.06e-04	6.86e-04	-1.39e-05	-3.80e-04	1.68e-03
##	2831	5.66e-05	-8.31e-05	-1.21e-04	7.55e-06	-1.27e-04	-6.48e-05	6.60e-04
##	2832	-9.05e-03	-1.52e-02	2.33e-02	7.06e-03	9.01e-04	5.19e-03	5.07e-02
##	2833	9.68e-03	1.95e-02	-1.84e-02	-1.47e-02	4.42e-02	-3.84e-02	-8.99e-02
##	2834	1.01e-06	5.10e-05	1.95e-05	5.24e-05	1.13e-05	-2.21e-05	1.33e-04
##	2835	3.61e-05	-1.64e-03	-7.91e-04	2.47e-03	-1.44e-04	5.62e-04	-5.42e-03
##	2836	8.41e-03	-1.05e-02	1.17e-02	1.21e-02	1.76e-02	-9.59e-03	4.41e-02
##	2837	8.09e-03	3.91e-03	1.48e-02	-2.71e-03	-2.89e-03	2.26e-02	5.42e-02
##	2838	-1.80e-02	-9.27e-03	1.09e-02	1.00e-02	-2.36e-03	-3.56e-03	5.49e-02
##	2839	-4.52e-05	-1.21e-03	-8.53e-04	-2.80e-03	-1.16e-03	1.98e-03	-6.37e-03
##	2840	9.54e-03	-2.01e-03	2.52e-03	-2.33e-03	-5.13e-03	1.62e-02	-4.23e-02
##	2841	-2.25e-02	-9.03e-03	-9.59e-03	5.39e-03	2.10e-02	-3.13e-02	8.10e-02
##	2842	-3.17e-02	2.76e-04	-1.41e-02	1.47e-02	-8.65e-03	-3.20e-03	6.69e-02
##	2843	1.29e-02	-5.42e-03	2.41e-02	-2.14e-02	1.58e-02	-3.99e-03	6.08e-02
##	2844	3.59e-03	4.10e-03	-7.25e-03	-3.42e-03	-9.21e-04	9.44e-04	2.36e-02
##	2845	-2.13e-03	-6.48e-03	4.00e-03	4.15e-03	-7.68e-03	4.62e-03	1.76e-02
##	2846	-5.90e-03	-2.04e-02	-1.42e-03	9.74e-03	-8.65e-03	1.33e-02	5.72e-02
##	2847	1.28e-03	-1.05e-03	1.82e-03	-3.45e-03	2.00e-03	-2.17e-04	-7.03e-03
##	2848	2.65e-03	-2.10e-03	3.54e-03	3.42e-03	3.62e-03	-3.77e-04	-1.39e-02
##	2849	1.32e-02	2.26e-03	-5.24e-03	-8.54e-03	6.34e-03	7.49e-03	3.58e-02
##	2850	1.09e-02	8.50e-03	-1.03e-02	-1.60e-02	-8.30e-03	-4.00e-03	5.04e-02
##	2851	-1.18e-05	-1.22e-03	-4.80e-04	-1.53e-03	-4.00e-04	6.27e-04	-3.78e-03
##	2852	3.17e-03	7.26e-03	-1.38e-02	-7.51e-04	-1.62e-02	1.15e-02	5.58e-02
##	2853	1.33e-03	-1.11e-03	-8.75e-04	1.02e-03	-2.32e-04	3.09e-05	-4.02e-03
##	2854	-2.75e-03	-6.87e-03	-1.05e-02	5.97e-03	-1.38e-02	7.52e-03	2.93e-02
##	2855	1.36e-03	-1.14e-03	1.40e-03	-1.25e-04	3.29e-03	-7.60e-04	-7.02e-03
##	2856	-3.45e-03	-1.95e-02	-1.08e-03	-1.30e-03	-1.26e-02	2.00e-02	5.66e-02
##	2857	1.58e-02	-6.35e-03	5.55e-03	-1.01e-03	-1.67e-02	7.35e-03	-3.87e-02
##	2858	-1.40e-02	-6.54e-03	9.77e-03	-1.93e-03	-2.07e-02	1.31e-04	-4.97e-02
##	2859	3.29e-03	3.11e-03	1.31e-02	9.51e-03	-4.36e-03	1.17e-02	4.00e-02
##	2860	8.14e-03	-4.22e-03	-8.70e-03	-2.22e-02	-1.23e-02	-5.65e-03	5.53e-02
##	2861	-5.10e-05	1.76e-03	2.27e-03	-1.59e-03	4.83e-04	2.04e-03	6.71e-03
##	2862	-2.97e-02	3.08e-03	-9.03e-03	4.45e-03	2.22e-02	-1.62e-02	7.33e-02
##	2863	-4.67e-04	3.50e-04	1.61e-03	-2.37e-03	-1.99e-03	1.17e-03	7.03e-03
##	2864	2.53e-02	-4.23e-03	-6.47e-03	5.84e-03	1.77e-02	-8.76e-03	6.23e-02
##	2865	8.96e-03	-2.63e-03	3.39e-03	-1.68e-03	-1.29e-02	1.16e-02	-3.53e-02
##	2866	2.08e-03	9.77e-03	1.05e-02	5.74e-03	7.25e-03	5.59e-03	2.95e-02
##	2867	-1.90e-02	-2.08e-03	4.46e-03	-3.48e-03	-1.12e-02	6.14e-03	-4.59e-02
##	2868	-7.45e-06	1.24e-04	6.12e-05	5.17e-05	-2.47e-05	-6.17e-05	4.05e-04
##	2869	1.16e-02	4.79e-03	2.88e-03	2.11e-02	-3.72e-03	4.01e-03	-4.81e-02

## 2870	9.50e-05	-8.34e-04	-1.55e-03	3.69e-04	-1.74e-03	4.59e-03	-1.01e-02
## 2871	1.94e-02	1.69e-03	5.87e-03	-5.52e-03	-1.09e-02	4.03e-03	-5.16e-02
## 2872	-1.05e-03	2.21e-03	-6.65e-03	-4.50e-03	-5.87e-03	3.19e-03	1.42e-02
## 2873	1.46e-02	3.79e-02	4.55e-03	-1.88e-02	8.87e-03	-2.22e-02	-9.77e-02
## 2874	3.23e-02	-6.70e-03	-7.76e-03	-2.71e-02	1.69e-02	-7.53e-03	7.71e-02
## 2875	1.07e-02	4.21e-02	2.59e-03	-2.20e-02	3.08e-02	-2.77e-02	-1.02e-01
## 2876	-2.78e-02	2.94e-03	-9.34e-03	-3.36e-02	1.93e-02	-1.79e-03	7.26e-02
## 2877	-1.00e-02	1.25e-03	-5.88e-03	2.73e-03	-1.67e-03	-2.21e-03	2.34e-02
## 2878	-2.46e-02	-3.18e-03	-1.02e-02	1.63e-03	-1.74e-02	-2.67e-04	6.00e-02
## 2879	1.60e-05	-2.31e-04	-1.00e-03	-3.10e-03	-1.18e-03	3.33e-03	-7.14e-03
## 2880	2.23e-03	-1.45e-03	2.53e-03	2.59e-03	6.06e-03	-2.81e-03	-1.36e-02
## 2881	2.91e-04	3.96e-03	-1.65e-03	-1.08e-04	-1.64e-03	4.84e-03	1.36e-02
## 2882	-1.86e-03	-1.36e-02	-2.55e-03	-6.38e-03	-1.65e-03	4.41e-03	2.78e-02
## 2883	-5.38e-03	-8.93e-03	1.99e-02	-1.69e-02	1.41e-02	-1.99e-02	-6.62e-02
## 2884	-1.15e-02	-8.84e-03	7.09e-03	-5.31e-04	-1.67e-02	-4.93e-04	-5.47e-02
## 2885	3.14e-03	-1.46e-03	2.29e-03	3.70e-03	1.43e-03	-2.44e-03	1.12e-02
## 2886	-2.61e-02	2.50e-02	-3.81e-02	2.95e-02	-2.88e-02	-1.62e-02	-1.15e-01
## 2887	1.73e-02	-6.14e-03	6.20e-03	-8.75e-04	-1.55e-02	6.81e-03	-3.98e-02
## 2888	-2.45e-03	-4.68e-03	4.34e-03	3.33e-03	-1.07e-02	9.14e-03	2.17e-02
## 2889	5.64e-05	1.92e-02	-2.97e-02	-6.55e-03	1.57e-02	1.37e-02	-1.06e-01
## 2890	-2.55e-02	1.39e-02	3.99e-02	7.41e-03	4.84e-03	1.24e-02	-1.35e-01
## 2891	-6.78e-04	-6.89e-04	-3.94e-03	-4.40e-03	-2.64e-03	-7.16e-04	1.03e-02
## 2892	-1.12e-03	4.01e-03	-8.19e-03	-8.56e-04	-7.28e-03	5.11e-03	1.70e-02
## 2893	-1.49e-05	1.09e-03	5.60e-04	-1.30e-03	-1.92e-04	-4.48e-04	3.27e-03
## 2894	-8.51e-03	2.78e-02	-1.20e-02	1.18e-02	1.51e-03	-1.28e-02	6.13e-02
## 2895	-6.93e-03	-1.18e-03	-4.07e-03	3.63e-03	-2.92e-03	4.33e-03	-1.98e-02
## 2896	-1.14e-02	-8.36e-03	7.63e-03	-9.69e-04	-1.51e-02	-1.05e-03	-5.24e-02
## 2897	5.00e-03	3.31e-03	-1.66e-03	2.32e-03	1.62e-03	3.31e-03	1.10e-02
## 2898	1.46e-02	8.01e-03	-1.29e-02	2.61e-03	2.13e-02	-7.37e-03	7.78e-02
## 2899	5.48e-03	-6.10e-03	1.00e-02	8.82e-03	2.48e-03	2.56e-03	4.43e-02
## 2900	-2.10e-02	5.07e-03	-2.83e-02	-2.37e-02	-3.64e-02	-2.66e-03	-6.87e-02
## 2901	1.69e-02	9.52e-03	1.36e-02	4.40e-03	2.25e-02	-3.75e-03	4.99e-02
## 2902	3.55e-03	-4.57e-03	-1.09e-02	1.04e-02	-5.22e-03	5.03e-03	4.24e-02
## 2903	1.11e-02	3.02e-03	5.21e-03	-1.75e-02	-1.18e-02	6.70e-03	-5.29e-02
## 2904	1.34e-02	5.13e-03	5.60e-03	-4.96e-03	-8.25e-03	1.69e-02	-5.85e-02
## 2905	9.22e-04	1.03e-04	1.72e-03	9.03e-04	5.35e-04	-3.29e-04	6.22e-03
## 2906	-2.54e-05	4.10e-03	-4.15e-03	-1.59e-03	-1.90e-03	-4.79e-05	1.02e-02
## 2907	-1.74e-02	-3.26e-03	-2.31e-02	3.06e-02	-2.47e-02	5.79e-03	-6.81e-02
## 2908	-2.40e-02	-9.06e-03	-5.85e-03	1.03e-02	-4.27e-04	-1.22e-02	7.59e-02
## 2909	-2.21e-04	3.07e-04	3.71e-04	-8.56e-05	1.09e-04	-3.25e-04	1.56e-03
## 2910	-1.33e-02	8.43e-03	-7.41e-03	-1.56e-02	-8.37e-03	2.36e-03	4.41e-02
## 2911	1.32e-03	-3.80e-04	2.34e-03	1.98e-03	2.98e-04	1.47e-03	-1.02e-02
## 2912	-1.10e-02	-1.31e-02	-5.11e-03	-1.64e-03	-2.58e-04	-5.66e-03	3.22e-02
## 2913	1.85e-04	-4.03e-04	3.59e-03	2.42e-03	-1.14e-03	4.43e-03	-9.83e-03
## 2914	-2.99e-02	1.15e-03	-1.25e-02	1.71e-02	-1.94e-02	6.47e-04	9.15e-02
## 2915	-5.08e-03	1.18e-02	8.22e-03	-1.84e-03	3.64e-03	-2.43e-03	3.31e-02
## 2916	3.80e-03	-1.46e-03	-6.21e-03	-1.15e-02	3.28e-03	-1.08e-03	-2.53e-02
## 2917	8.67e-03	-1.90e-03	2.50e-03	-2.01e-03	-7.93e-03	1.13e-02	-3.21e-02
## 2918	1.60e-02	1.37e-02	9.14e-03	-2.47e-02	-1.13e-02	9.86e-03	-7.83e-02
## 2919	1.43e-02	-1.37e-02	1.11e-02	1.22e-02	7.85e-03	2.62e-04	3.95e-02

##	2920	-1.37e-02	-5.45e-03	9.88e-03	-2.60e-03	-2.21e-02	7.17e-03	-5.40e-02
##	2921	7.11e-04	-2.49e-03	1.18e-02	1.27e-02	1.02e-02	3.83e-03	3.53e-02
##	2922	2.36e-04	1.13e-03	-7.19e-04	1.09e-03	-3.15e-04	1.95e-03	4.36e-03
##	2923	1.86e-02	1.37e-02	-1.34e-02	1.44e-04	2.96e-02	-5.45e-04	5.69e-02
##	2924	2.33e-03	-2.98e-03	-4.19e-03	3.57e-03	-4.50e-03	-4.91e-03	-1.74e-02
##	2925	1.35e-03	-3.29e-04	1.70e-03	2.72e-03	2.28e-03	-1.68e-03	9.57e-03
##	2926	4.30e-05	3.14e-03	9.84e-04	2.42e-03	-3.18e-04	-3.15e-04	7.59e-03
##	2927	-1.30e-02	-1.43e-02	-2.30e-03	-2.49e-02	-5.74e-03	-9.44e-03	8.88e-02
##	2928	1.69e-03	1.78e-02	-3.60e-03	8.08e-03	1.16e-03	7.87e-03	3.99e-02
##	2929	1.38e-04	-2.65e-04	1.74e-03	1.20e-03	7.99e-05	2.01e-03	-4.94e-03
##	2930	-1.71e-03	-5.63e-03	2.80e-03	-8.37e-03	-6.20e-03	4.04e-03	1.58e-02
##	2931	3.23e-03	-1.98e-03	4.51e-03	4.13e-03	4.98e-03	-1.34e-03	-1.79e-02
##	2932	-1.04e-02	-1.60e-02	-4.64e-03	2.40e-02	-2.84e-03	-7.01e-03	5.89e-02
##	2933	-5.70e-03	-7.97e-04	-4.01e-03	6.43e-03	1.36e-03	6.28e-03	2.90e-02
##	2934	-6.33e-03	3.96e-04	1.18e-02	-7.99e-03	7.27e-03	2.93e-03	3.31e-02
##	2935	-1.79e-02	3.57e-03	1.02e-02	-2.09e-02	-1.84e-02	2.22e-02	-8.60e-02
##	2936	2.53e-02	3.62e-02	9.74e-03	-1.56e-02	2.43e-02	1.96e-02	-1.18e-01
##	2937	3.51e-03	2.07e-03	-1.16e-03	8.74e-05	1.85e-04	2.08e-03	6.84e-03
##	2938	9.75e-06	-8.89e-04	-4.19e-04	-3.42e-04	-2.73e-04	6.55e-04	-2.61e-03
##	2939	-1.68e-04	5.13e-03	-5.11e-03	4.48e-03	-1.69e-03	-1.85e-03	1.32e-02
##	2940	1.04e-02	-7.67e-03	-8.48e-03	-1.91e-02	-6.04e-03	-4.38e-03	5.61e-02
##	2941	1.33e-02	-9.82e-05	2.00e-02	1.42e-03	2.97e-02	-7.58e-03	5.71e-02
##	2942	1.28e-02	-1.58e-02	-5.29e-03	7.76e-03	9.62e-03	4.56e-03	4.58e-02
##	2943	1.87e-02	-1.40e-02	-4.47e-03	-3.01e-03	4.38e-03	3.20e-03	4.40e-02
##	2944	8.01e-03	1.33e-02	2.74e-03	-9.82e-03	8.02e-03	-4.66e-03	-5.85e-02
##	2945	-4.95e-04	4.48e-04	7.49e-04	6.53e-05	5.31e-05	3.23e-04	-2.68e-03
##	2946	-3.23e-03	-5.21e-03	-1.08e-02	-2.70e-03	-1.55e-02	1.00e-02	2.64e-02
##	2947	-1.39e-02	4.69e-03	-8.43e-03	9.28e-03	-1.72e-03	-3.36e-03	3.38e-02
##	2948	-2.09e-03	-8.43e-03	-6.54e-03	-4.13e-03	-6.89e-03	9.09e-04	1.76e-02
##	2949	1.06e-02	8.37e-03	3.67e-03	2.11e-02	-4.15e-03	1.67e-02	-6.10e-02
##	2950	-1.33e-02	-4.96e-03	-2.13e-02	-1.53e-02	-2.36e-02	5.37e-03	-4.89e-02
##	2951	9.20e-03	-2.17e-03	2.74e-03	-1.69e-03	-7.08e-03	1.16e-02	-3.23e-02
##	2952	-5.95e-03	-1.61e-02	-3.70e-03	7.38e-03	-6.90e-04	2.78e-03	4.61e-02
##	2953	1.71e-02	1.34e-02	-1.13e-02	2.42e-02	2.74e-02	-1.99e-02	8.08e-02
##	2954	-2.43e-03	-4.61e-03	4.21e-03	-8.20e-03	-1.12e-02	9.45e-03	2.13e-02
##	2955	1.71e-02	-1.48e-02	1.76e-02	4.83e-03	1.34e-02	-1.29e-02	5.62e-02
##	2956	1.33e-02	6.43e-03	5.45e-03	-5.30e-03	-9.58e-03	1.60e-02	-5.64e-02
##	2957	1.93e-03	-4.27e-03	-8.96e-03	9.96e-03	-5.59e-03	-1.86e-03	3.69e-02
##	2958	-1.60e-02	3.61e-03	2.15e-02	-1.93e-02	4.10e-03	-2.63e-02	-1.06e-01
##	2959	-9.95e-04	-9.02e-04	-5.99e-03	-2.74e-03	-4.98e-03	-4.90e-04	1.50e-02
##	2960	2.62e-03	4.12e-03	-7.59e-03	2.71e-03	-2.69e-03	-2.07e-03	2.80e-02
##	2961	-3.25e-02	3.19e-02	-3.77e-02	7.03e-03	-1.96e-02	-1.56e-02	-1.04e-01
##	2962	-2.32e-02	3.96e-04	-8.92e-03	1.97e-03	-1.99e-02	9.56e-03	8.93e-02
##	2963	3.80e-06	2.24e-03	2.91e-03	1.80e-03	1.13e-03	9.35e-04	8.19e-03
##	2964	-2.70e-02	1.29e-03	2.98e-02	2.05e-03	3.24e-02	-3.30e-02	9.05e-02
##	2965	1.09e-04	3.58e-04	6.39e-04	4.29e-04	2.24e-04	8.06e-04	2.11e-03
##	2966	-1.13e-02	-9.38e-03	6.88e-03	-1.28e-02	-1.54e-02	6.61e-04	-4.41e-02
##	2967	2.15e-03	-1.39e-03	-3.01e-03	1.86e-04	2.03e-03	5.02e-04	-9.61e-03
##	2968	8.23e-04	-2.96e-04	1.51e-03	-1.74e-04	-3.17e-04	1.58e-03	-6.48e-03
##	2969	8.91e-03	4.86e-02	8.37e-03	-2.05e-02	5.69e-03	-2.60e-02	-1.17e-01

## 2970	3.02e-02	1.05e-02	9.32e-03	9.53e-03	-9.42e-03	1.45e-02	-7.83e-02
## 2971	-2.44e-02	-4.93e-03	1.45e-02	1.09e-02	-3.00e-03	-1.80e-03	5.05e-02
## 2972	-3.65e-03	-9.78e-03	-9.09e-03	-6.95e-03	-1.36e-02	2.77e-03	2.97e-02
## 2973	-3.35e-03	-4.45e-03	-1.16e-02	4.39e-03	-1.67e-02	1.17e-02	2.88e-02
## 2974	1.57e-02	-9.73e-03	-8.29e-03	5.20e-03	1.67e-02	-1.14e-02	5.59e-02
## 2975	2.31e-03	-9.74e-04	-2.88e-03	2.48e-03	-1.09e-03	-1.10e-03	1.51e-02
## 2976	7.11e-05	-2.69e-04	-1.39e-03	3.60e-05	-8.47e-04	3.73e-03	-8.15e-03
## 2977	1.36e-04	-8.46e-04	-2.06e-03	3.76e-03	-2.28e-03	5.68e-03	-1.35e-02
## 2978	-2.14e-04	-8.60e-04	-1.31e-03	-3.60e-04	-2.53e-04	-1.01e-03	3.20e-03
## 2979	4.15e-03	-8.75e-04	-6.43e-03	-5.08e-05	6.39e-03	-2.99e-03	-2.04e-02
## 2980	-8.36e-04	6.41e-04	3.40e-03	5.48e-03	-4.26e-03	3.69e-05	1.79e-02
## 2981	-2.47e-03	1.99e-02	-7.51e-03	1.63e-02	9.44e-03	-1.11e-02	4.57e-02
## 2982	1.04e-02	1.41e-02	-5.70e-03	-8.50e-04	1.33e-02	6.44e-03	3.00e-02
## 2983	7.91e-07	1.96e-05	5.79e-06	1.68e-05	2.38e-06	-8.35e-07	4.58e-05
## 2984	1.32e-04	3.84e-03	-1.87e-03	2.82e-03	-7.09e-04	4.77e-03	1.21e-02
## 2985	-3.06e-03	-5.24e-03	-1.08e-02	3.74e-03	-1.41e-02	1.08e-02	2.90e-02
## 2986	3.31e-02	-1.26e-03	1.52e-02	-1.70e-02	1.07e-02	-1.59e-02	-8.05e-02
## 2987	2.47e-02	-1.65e-02	2.14e-02	7.02e-03	1.01e-02	-2.24e-03	6.43e-02
## 2988	5.20e-03	-4.80e-03	1.07e-02	8.83e-03	5.01e-04	3.05e-03	4.32e-02
## 2989	-5.80e-04	3.78e-03	1.98e-03	2.46e-03	-4.72e-03	6.75e-03	1.60e-02
## 2990	-5.07e-04	-5.98e-04	6.89e-04	-1.63e-05	-6.81e-04	7.87e-04	-2.89e-03
## 2991	7.93e-03	4.29e-03	1.54e-02	-2.70e-02	-5.59e-03	2.56e-02	6.10e-02
## 2992	3.95e-03	-6.61e-03	-1.17e-02	1.41e-02	-1.01e-02	-3.41e-03	4.93e-02
## 2993	-4.01e-02	3.30e-02	2.99e-03	-2.16e-02	1.01e-02	-2.36e-02	-1.09e-01
## 2994	1.54e-02	1.23e-02	-1.20e-02	9.50e-04	2.78e-02	-1.19e-02	6.62e-02
## 2995	-1.56e-03	-6.61e-03	2.74e-03	3.52e-03	-4.40e-03	1.88e-03	1.41e-02
## 2996	-1.81e-02	-2.76e-03	4.80e-03	-2.52e-03	-1.04e-02	6.07e-03	-4.13e-02
## 2997	-2.25e-03	-5.94e-03	3.98e-03	3.77e-03	-8.27e-03	5.52e-03	1.82e-02
## 2998	-5.89e-03	-1.82e-04	6.22e-03	2.06e-03	-1.21e-03	-5.13e-03	2.24e-02
## 2999	-2.12e-02	1.56e-02	1.20e-02	-7.97e-03	-2.31e-02	2.52e-03	-8.70e-02
## 3000	1.12e-02	-4.40e-04	-2.00e-02	-1.21e-02	-2.09e-02	1.51e-02	-5.32e-02
## 3001	-3.68e-03	-9.97e-03	-9.85e-03	8.09e-03	-1.39e-02	1.40e-03	3.33e-02
## 3002	-1.11e-02	-5.89e-03	5.42e-03	-3.11e-03	-9.80e-03	1.16e-03	-4.23e-02
## 3003	-1.65e-02	3.64e-03	7.87e-03	-8.78e-03	-1.66e-02	2.83e-03	-7.13e-02
## 3004	-6.71e-04	2.80e-03	2.34e-03	3.17e-03	-4.04e-03	4.21e-03	1.27e-02
## 3005	-4.67e-03	-5.17e-03	-1.38e-02	6.26e-03	-2.34e-02	1.14e-02	4.11e-02
## 3006	1.34e-02	-9.82e-03	-8.57e-03	2.10e-02	1.06e-02	2.73e-03	7.35e-02
## 3007	1.76e-04	4.85e-03	7.04e-04	1.60e-03	-1.05e-03	2.76e-03	8.47e-03
## 3008	-1.19e-03	-2.13e-03	2.06e-03	1.70e-04	-4.63e-05	4.54e-04	-6.93e-03
## 3009	-1.66e-02	1.32e-02	-8.27e-03	-6.82e-03	-1.38e-02	2.12e-03	5.35e-02
## 3010	2.99e-02	-1.38e-02	-4.61e-03	1.07e-02	-2.99e-03	6.07e-03	6.80e-02
## 3011	1.81e-03	-1.79e-03	2.76e-03	-2.14e-03	1.66e-03	-2.41e-05	-9.41e-03
## 3012	3.94e-02	-3.96e-03	1.53e-02	3.21e-04	1.69e-02	-9.52e-03	-6.92e-02
## 3013	2.18e-03	3.55e-03	-6.22e-03	6.42e-03	1.08e-03	-2.87e-03	2.13e-02
## 3014	-1.54e-05	7.23e-05	1.12e-04	-1.70e-05	5.46e-07	-2.45e-04	6.60e-04
## 3015	-8.74e-03	3.35e-02	-3.28e-02	-7.93e-03	1.92e-03	6.64e-03	-1.19e-01
## 3016	2.17e-03	4.16e-05	2.49e-03	-1.70e-03	2.74e-03	-3.66e-04	1.37e-02
## 3017	-2.37e-03	-5.31e-03	4.03e-03	3.48e-03	-9.49e-03	7.25e-03	1.95e-02
## 3018	-2.42e-03	-5.00e-03	4.38e-03	3.60e-03	-1.07e-02	8.94e-03	2.15e-02
## 3019	4.22e-03	-5.39e-04	-6.34e-03	-2.21e-04	5.73e-03	-1.60e-03	-1.99e-02

##	3020	-1.95e-03	-5.98e-03	3.16e-03	3.14e-03	-6.48e-03	5.00e-03	1.82e-02
##	3021	-1.42e-05	-2.82e-04	-8.95e-04	-2.72e-03	-1.05e-03	2.85e-03	-6.26e-03
##	3022	-1.97e-02	-9.12e-04	4.58e-03	-4.28e-03	-1.03e-02	5.19e-03	-4.73e-02
##	3023	-3.01e-03	-6.38e-03	-1.09e-02	5.63e-03	-1.41e-02	8.00e-03	2.64e-02
##	3024	-1.38e-02	1.43e-02	2.83e-02	-2.35e-02	1.11e-02	9.85e-03	-1.26e-01
##	3025	-1.02e-02	-2.91e-02	2.52e-02	1.51e-02	1.22e-02	-1.40e-02	-9.80e-02
##	3026	-1.74e-02	-6.45e-03	5.90e-03	-2.30e-04	-1.54e-02	6.96e-03	-4.02e-02
##	3027	-2.35e-02	1.61e-02	8.37e-03	-1.52e-02	-2.01e-02	-9.42e-03	-8.79e-02
##	3028	1.20e-05	2.98e-03	5.97e-04	-1.46e-03	-8.01e-04	1.33e-03	5.01e-03
##	3029	1.51e-04	5.17e-03	-2.08e-03	-3.30e-03	-1.04e-03	5.98e-03	1.49e-02
##	3030	-1.65e-02	-4.64e-03	-1.95e-02	-4.44e-04	-1.63e-02	1.08e-02	-4.58e-02
##	3031	1.77e-02	4.08e-04	-8.59e-03	7.00e-03	1.57e-02	6.96e-03	6.52e-02
##	3032	1.85e-03	-1.36e-03	-1.10e-03	-1.11e-03	1.79e-04	-1.19e-03	6.12e-03
##	3033	-3.39e-04	-2.58e-04	1.03e-03	-1.33e-03	-9.46e-04	3.43e-05	4.40e-03
##	3034	-3.51e-03	1.05e-03	-2.47e-03	7.61e-03	-5.23e-03	1.20e-02	3.62e-02
##	3035	-3.07e-04	2.90e-04	-4.42e-04	6.74e-05	-2.16e-04	-4.22e-04	2.52e-03
##	3036	-5.83e-03	-3.45e-02	1.64e-02	-1.41e-03	8.51e-03	-5.08e-02	-1.21e-01
##	3037	1.49e-03	2.93e-03	-1.19e-02	-1.28e-03	-8.30e-03	6.08e-03	4.93e-02
##	3038	-1.27e-02	3.63e-02	-3.67e-02	3.68e-02	-1.24e-02	1.43e-02	-1.31e-01
##	3039	-1.34e-02	-8.31e-03	1.51e-02	1.40e-03	1.75e-02	-2.45e-02	-8.74e-02
##	3040	-5.81e-03	-8.79e-03	1.92e-02	-1.74e-02	1.36e-02	-2.00e-02	-6.60e-02
##	3041	-9.32e-03	1.08e-03	-5.01e-03	4.26e-03	-3.23e-03	-1.93e-03	2.57e-02
##	3042	-1.58e-04	-2.88e-03	-2.84e-03	-7.35e-03	-3.50e-03	1.05e-02	2.86e-02
##	3043	2.97e-02	1.55e-02	-3.53e-02	3.00e-02	-2.26e-02	5.74e-03	-9.55e-02
##	3044	3.20e-03	2.25e-03	1.32e-02	-1.34e-03	-5.33e-03	1.23e-02	3.83e-02
##	3045	1.09e-02	2.31e-02	-1.93e-02	1.07e-02	4.79e-02	-3.89e-02	-9.05e-02
##	3046	2.00e-02	1.27e-03	7.46e-03	1.13e-02	-2.02e-02	1.35e-02	-6.02e-02
##	3047	4.17e-03	-6.44e-04	-6.59e-03	5.21e-03	6.45e-03	-2.62e-03	-2.07e-02
##	3048	1.70e-03	-9.11e-03	-8.26e-03	1.28e-02	-6.23e-03	-1.75e-03	3.78e-02
##	3049	9.49e-04	4.79e-03	-2.64e-03	-4.34e-03	8.85e-04	6.63e-03	1.84e-02
##	3050	-9.50e-04	-2.20e-03	-1.49e-03	-5.28e-03	-1.32e-03	9.09e-03	2.50e-02
##	3051	-2.65e-02	2.91e-02	-3.71e-02	8.25e-03	-2.99e-02	-1.44e-02	-1.08e-01
##	3052	1.66e-03	1.55e-03	-1.33e-03	-2.26e-04	-2.68e-04	-1.10e-05	5.39e-03
##	3053	-3.92e-04	-1.84e-04	9.92e-04	6.90e-05	-1.01e-03	3.43e-04	5.06e-03
##	3054	-1.56e-02	-2.93e-02	2.49e-02	-2.81e-02	6.80e-03	-4.47e-03	-1.10e-01
##	3055	-9.36e-06	6.79e-05	-2.45e-04	2.95e-04	1.68e-05	-2.72e-04	6.97e-04
##	3056	1.74e-02	1.15e-02	-1.05e-02	-7.29e-03	-3.55e-03	3.58e-03	5.62e-02
##	3057	8.99e-03	2.87e-03	1.59e-03	-5.20e-03	-5.29e-04	1.51e-02	-4.74e-02
##	3058	8.56e-03	-1.04e-02	1.23e-02	1.26e-02	-9.57e-04	-4.19e-04	5.59e-02
##	3059	-8.68e-03	-1.56e-02	-4.74e-03	9.81e-03	-1.36e-04	4.25e-04	5.90e-02
##	3060	1.63e-02	-3.88e-04	-1.02e-02	4.70e-03	2.05e-02	5.02e-03	4.78e-02
##	3061	4.04e-03	6.45e-03	-1.37e-02	1.19e-02	-9.03e-03	1.35e-02	4.60e-02
##	3062	2.04e-02	9.39e-03	-1.16e-02	2.48e-02	2.68e-02	-4.55e-03	6.72e-02
##	3063	2.17e-02	-4.96e-03	6.83e-03	-1.66e-03	-1.63e-02	1.34e-02	-5.31e-02
##	3064	-1.04e-02	4.69e-03	-5.36e-03	-1.68e-03	5.17e-03	3.54e-03	3.81e-02
##	3065	-2.96e-03	-6.79e-03	-1.06e-02	5.71e-03	-1.34e-02	7.05e-03	2.55e-02
##	3066	-1.94e-02	-7.03e-03	1.21e-02	-9.54e-03	-1.42e-03	-4.16e-03	5.25e-02
##	3067	-1.40e-03	1.88e-03	-1.76e-03	2.81e-03	-1.40e-03	-8.50e-04	6.87e-03
##	3068	1.53e-03	9.94e-04	9.54e-04	-8.85e-04	1.02e-03	3.75e-04	-3.89e-03
##	3069	-3.28e-03	6.37e-03	-4.07e-03	-4.90e-03	-6.33e-04	-2.92e-03	2.15e-02

## 3070	4.16e-04	-7.89e-03	-6.06e-03	-2.77e-03	-6.39e-03	-1.81e-03	2.73e-02
## 3071	-6.16e-04	-1.23e-03	-1.98e-03	-6.35e-03	-4.46e-03	1.15e-02	2.61e-02
## 3072	-2.15e-03	4.29e-03	-2.66e-02	-1.16e-04	6.50e-03	2.47e-03	-9.37e-02
## 3073	-1.11e-04	-2.24e-04	-9.63e-05	3.84e-05	-7.85e-05	3.67e-05	-6.01e-04
## 3074	-1.14e-02	-6.00e-03	2.10e-03	-1.21e-03	-6.02e-03	6.62e-03	-3.21e-02
## 3075	3.25e-02	5.86e-04	1.08e-02	3.45e-02	2.52e-02	8.84e-03	-8.47e-02
## 3076	8.08e-03	4.47e-03	1.46e-02	9.45e-03	-2.79e-03	2.28e-02	5.60e-02
## 3077	-2.12e-02	-3.37e-03	-2.30e-02	1.45e-05	-2.21e-02	7.36e-03	-5.28e-02
## 3078	1.73e-04	-1.40e-04	3.31e-04	-8.07e-05	4.12e-06	-8.60e-05	1.31e-03
## 3079	1.39e-04	6.50e-04	-3.39e-04	1.27e-04	1.23e-04	6.78e-04	-1.75e-03
## 3080	-1.13e-03	5.60e-03	-9.44e-03	4.40e-03	-8.20e-03	6.59e-03	2.05e-02
## 3081	9.00e-03	-1.10e-03	2.37e-03	1.61e-02	-6.57e-03	2.27e-02	-4.65e-02
## 3082	-2.15e-02	-1.19e-02	-8.36e-03	-2.78e-02	1.37e-02	-2.00e-02	8.31e-02
## 3083	-1.65e-02	-4.29e-03	3.70e-03	-2.23e-03	-1.15e-02	6.78e-03	-3.71e-02
## 3084	3.11e-04	-4.24e-04	-4.09e-04	-7.18e-04	-3.92e-05	7.90e-05	-1.91e-03
## 3085	3.56e-03	-2.04e-03	4.47e-03	-3.06e-07	4.88e-03	-4.81e-04	-1.68e-02
## 3086	-1.44e-02	-5.23e-03	1.56e-02	-1.57e-02	1.81e-02	-8.82e-03	-7.14e-02
## 3087	-6.63e-04	3.68e-03	2.56e-03	-9.37e-03	-5.94e-03	6.67e-03	1.85e-02
## 3088	-1.20e-02	-1.06e-02	1.77e-02	-1.48e-02	1.05e-02	-3.44e-02	-8.07e-02
## 3089	1.98e-03	2.38e-03	-4.59e-03	-2.53e-03	-2.91e-04	-2.87e-04	1.84e-02
## 3090	6.84e-03	4.71e-03	-5.55e-03	-2.98e-03	-4.10e-03	-4.81e-04	2.97e-02
## 3091	-2.27e-02	-3.63e-03	2.75e-02	3.08e-03	2.85e-02	-1.64e-02	7.36e-02
## 3092	-7.36e-04	1.28e-03	-1.48e-03	2.87e-04	2.57e-04	-1.35e-03	8.82e-03
## 3093	-2.14e-03	-5.23e-03	3.44e-03	2.84e-03	-8.35e-03	7.84e-03	2.12e-02
## 3094	-2.03e-02	6.09e-03	9.69e-03	-2.66e-02	-1.50e-02	9.36e-03	-8.33e-02
## 3095	-5.91e-04	1.60e-03	2.11e-03	3.15e-03	-2.94e-03	2.51e-03	1.05e-02
## 3096	2.11e-02	-1.60e-02	-3.35e-03	-1.44e-03	-1.71e-03	3.35e-03	4.68e-02
## 3097	9.22e-03	-1.30e-02	-4.91e-03	-9.66e-03	4.98e-03	4.92e-03	3.93e-02
## 3098	-5.86e-03	1.73e-02	-2.57e-02	1.23e-04	6.26e-03	-9.56e-04	-9.72e-02
## 3099	1.12e-02	9.55e-03	3.14e-02	8.80e-03	6.10e-02	-3.85e-02	-1.06e-01
## 3100	1.86e-02	1.38e-02	-1.02e-02	3.98e-03	1.65e-02	-2.87e-03	7.57e-02
## 3101	1.94e-03	-6.74e-03	6.79e-03	-9.43e-03	-1.55e-03	1.22e-03	2.36e-02
## 3102	3.90e-05	-1.36e-03	-8.40e-04	6.77e-04	-4.20e-04	1.30e-03	-4.98e-03
## 3103	-2.26e-05	-1.63e-04	1.25e-04	1.73e-04	1.05e-04	-3.45e-04	-7.55e-04
## 3104	-3.71e-03	-1.06e-04	-4.35e-03	-2.55e-03	6.59e-03	-1.05e-03	3.40e-02
## 3105	-6.61e-05	1.04e-03	-1.59e-03	-1.39e-03	-3.83e-04	-1.23e-03	4.53e-03
## 3106	-2.51e-03	-4.76e-03	4.20e-03	3.38e-03	-1.11e-02	9.33e-03	2.14e-02
## 3107	-2.36e-03	-4.00e-02	1.68e-02	-2.89e-02	3.53e-05	-4.79e-02	-1.23e-01
## 3108	8.89e-05	-1.53e-04	9.59e-05	1.17e-04	-4.48e-05	-2.11e-04	-6.29e-04
## 3109	-1.27e-02	-1.21e-02	-4.13e-03	9.77e-03	3.84e-03	2.09e-03	6.40e-02
## 3110	-1.67e-02	-1.12e-02	1.72e-02	-2.32e-02	-9.69e-03	-1.15e-02	5.86e-02
## 3111	-1.47e-02	-9.93e-04	8.27e-03	-4.90e-03	-1.45e-02	1.64e-02	-5.96e-02
## 3112	-9.82e-03	6.99e-03	1.64e-02	-3.38e-03	8.91e-03	2.22e-03	4.87e-02
## 3113	-5.66e-04	-3.63e-03	-1.85e-03	5.62e-03	-4.57e-03	7.67e-03	2.54e-02
## 3114	-1.28e-04	-3.15e-04	3.23e-04	-2.95e-04	-1.32e-04	-3.72e-04	1.47e-03
## 3115	-2.27e-02	3.73e-03	2.54e-03	5.69e-03	-4.38e-03	-2.52e-04	-5.49e-02
## 3116	-6.07e-06	4.14e-05	-1.49e-04	2.61e-06	-3.71e-06	-1.94e-04	4.49e-04
## 3117	-2.07e-02	1.63e-02	-3.27e-02	-3.41e-03	1.87e-02	-1.87e-03	-1.12e-01
## 3118	2.95e-04	1.33e-03	-6.80e-04	8.99e-04	-9.18e-05	1.77e-03	-4.24e-03
## 3119	1.69e-02	2.86e-03	-1.04e-02	-1.30e-02	2.15e-02	5.60e-03	5.05e-02

##	3120	4.89e-03	-2.61e-03	-6.68e-03	6.11e-03	2.04e-03	-3.81e-03	-2.53e-02
##	3121	-2.47e-03	-5.08e-03	3.85e-03	3.26e-03	-9.85e-03	7.56e-03	1.94e-02
##	3122	1.97e-03	-6.71e-03	4.64e-03	-2.85e-03	1.04e-03	-1.73e-03	2.15e-02
##	3123	-1.14e-02	1.14e-02	1.79e-02	-7.67e-03	1.23e-03	-1.72e-03	-9.49e-02
##	3124	-1.96e-03	-5.16e-03	3.17e-03	-6.53e-03	-7.64e-03	6.65e-03	1.88e-02
##	3125	1.34e-02	-6.02e-04	-2.51e-03	-5.65e-03	-6.66e-04	7.67e-03	2.60e-02
##	3126	-7.72e-03	9.70e-04	6.76e-03	-9.10e-03	-2.11e-03	-3.56e-03	2.73e-02
##	3127	6.43e-03	-2.12e-03	-5.08e-03	3.63e-03	4.95e-03	-4.74e-04	-2.10e-02
##	3128	1.82e-02	3.79e-03	-1.32e-02	1.85e-02	3.08e-02	-1.10e-02	6.99e-02
##	3129	-2.78e-03	-2.22e-03	-1.72e-03	-1.84e-03	2.21e-04	-2.22e-03	1.13e-02
##	3130	-7.79e-04	-3.90e-03	1.29e-03	-2.81e-03	-1.61e-03	-4.64e-04	6.59e-03
##	3131	1.10e-02	1.66e-02	2.04e-03	-9.75e-03	1.49e-03	1.96e-03	-7.00e-02
##	3132	-1.65e-02	-2.15e-03	9.99e-03	-4.14e-03	-2.33e-02	-1.96e-03	-4.74e-02
##	3133	-3.21e-03	4.37e-04	-4.53e-03	-1.29e-02	2.15e-03	-2.74e-03	3.99e-02
##	3134	-5.58e-03	-8.52e-03	1.91e-02	1.58e-03	1.57e-02	-2.17e-02	-6.46e-02
##	3135	-1.57e-02	4.19e-03	-2.74e-02	4.92e-02	6.83e-03	-3.41e-02	-1.17e-01
##	3136	1.98e-02	-1.96e-03	2.28e-02	2.92e-03	2.87e-02	-4.75e-03	6.02e-02
##	3137	1.87e-02	5.37e-04	5.80e-03	9.95e-03	-1.36e-02	2.81e-02	-7.22e-02
##	3138	1.07e-02	1.99e-02	-1.79e-02	-1.38e-02	4.60e-02	-3.88e-02	-9.13e-02
##	3139	9.97e-03	-1.17e-02	-9.17e-03	2.94e-03	-1.40e-02	-1.36e-02	5.75e-02
##	3140	-2.42e-03	-5.38e-03	3.76e-03	3.37e-03	-9.24e-03	6.63e-03	1.86e-02
##	3141	-1.27e-02	-8.46e-03	7.92e-03	2.68e-02	-2.05e-02	6.48e-03	-5.79e-02
##	3142	1.30e-02	5.69e-03	5.69e-03	-1.64e-02	-1.93e-02	2.96e-02	-6.91e-02
##	3143	-1.16e-02	-1.17e-02	2.76e-02	5.36e-03	2.28e-02	-2.40e-02	8.23e-02
##	3144	8.44e-03	-1.02e-02	1.12e-02	-2.85e-03	1.20e-02	2.74e-03	3.44e-02
##	3145	-2.01e-02	-9.22e-03	1.25e-02	1.14e-02	-4.49e-03	-6.31e-03	4.81e-02
##	3146	8.50e-03	-2.93e-04	-1.23e-02	1.40e-02	-2.06e-03	1.39e-02	5.51e-02
##	3147	1.24e-02	-5.26e-03	1.67e-02	1.54e-02	2.72e-02	-4.81e-03	5.64e-02
##	3148	-1.05e-02	5.93e-03	-8.89e-03	-1.55e-02	1.54e-02	-8.80e-03	5.16e-02
##	3149	1.26e-03	-6.65e-03	9.72e-03	2.41e-03	-4.57e-03	9.14e-05	3.34e-02
##	3150	1.38e-02	9.88e-03	2.92e-02	1.11e-03	2.38e-02	-8.26e-03	7.63e-02
##	3151	-3.52e-04	-3.40e-04	8.89e-04	1.70e-03	-5.58e-04	-6.20e-05	5.49e-03
##	3152	-1.83e-03	-7.07e-03	3.08e-03	4.05e-03	-4.59e-03	3.27e-04	1.38e-02
##	3153	-6.87e-03	4.61e-04	-2.56e-02	-2.10e-02	6.11e-03	-1.89e-02	-7.66e-02
##	3154	-1.09e-02	9.72e-03	2.31e-02	-2.71e-02	1.53e-02	-4.30e-03	-9.68e-02
##	3155	-2.77e-02	1.56e-02	-4.64e-03	4.15e-03	1.45e-02	-3.57e-02	1.07e-01
##	3156	-5.41e-03	-1.25e-03	-3.85e-03	3.68e-03	-6.95e-03	6.30e-03	-2.16e-02
##	3157	-6.75e-04	1.95e-03	1.90e-03	2.71e-03	-3.40e-03	3.19e-03	1.05e-02
##	3158	-2.26e-02	-8.45e-03	2.19e-02	1.65e-02	-1.49e-02	-2.96e-03	6.38e-02
##	3159	-2.24e-02	-9.79e-03	2.94e-02	8.48e-03	9.26e-03	-3.68e-03	6.99e-02
##	3160	-9.99e-03	-1.20e-02	-5.30e-03	7.43e-03	8.82e-03	-1.23e-02	6.13e-02
##	3161	-3.99e-04	-5.91e-05	1.19e-03	2.23e-03	-1.06e-03	4.89e-04	6.66e-03
##	3162	2.40e-03	-5.76e-03	8.50e-03	-1.32e-02	-3.21e-03	3.15e-03	3.27e-02
##	3163	4.67e-03	-2.50e-03	4.17e-03	-6.70e-03	9.97e-04	1.35e-03	-1.58e-02
##	3164	-5.22e-04	-1.43e-03	-3.05e-03	3.15e-03	-8.13e-04	-2.29e-03	7.97e-03
##	3165	1.86e-03	-8.42e-04	-1.32e-03	1.05e-03	-7.43e-04	-7.93e-04	6.13e-03
##	3166	-1.07e-02	1.95e-02	2.84e-02	6.89e-03	1.98e-02	-1.26e-02	6.67e-02
##	3167	1.15e-04	7.13e-03	-5.18e-03	-2.91e-03	-2.39e-03	2.35e-03	1.22e-02
##	3168	1.41e-02	8.24e-03	5.48e-03	-5.27e-03	-1.42e-02	9.93e-03	-7.02e-02
##	3169	-6.16e-04	1.41e-03	2.03e-03	3.26e-03	-3.11e-03	2.28e-03	1.22e-02

##	3170	-8.42e-03	-3.25e-04	-5.84e-03	-1.46e-03	-2.71e-04	-2.31e-03	4.39e-02
##	3171	2.08e-02	5.00e-05	-2.62e-02	2.47e-02	-1.73e-02	2.87e-03	-7.00e-02
##	3172	1.62e-05	8.11e-04	5.23e-04	1.36e-03	1.17e-04	-9.55e-04	3.41e-03
##	3173	-5.13e-03	-2.43e-04	-2.39e-03	-5.43e-03	-3.73e-03	3.34e-03	-1.46e-02
##	3174	-4.34e-02	4.09e-02	-3.98e-02	-1.64e-02	-2.66e-02	-9.47e-03	-1.28e-01
##	3175	5.79e-05	5.73e-03	-4.74e-03	3.18e-03	-1.47e-03	8.92e-04	1.06e-02
##	3176	-2.38e-03	-5.16e-03	4.34e-03	3.66e-03	-1.04e-02	8.50e-03	2.10e-02
##	3177	2.04e-03	-1.29e-03	1.71e-03	-3.08e-03	9.53e-04	4.49e-04	-6.91e-03
##	3178	-5.09e-04	1.94e-02	-5.50e-03	-2.28e-03	1.18e-02	5.81e-03	4.33e-02
##	3179	-1.78e-02	-8.42e-03	9.82e-03	-1.32e-02	1.39e-02	-1.68e-02	-7.88e-02
##	3180	5.48e-04	-5.26e-04	6.26e-04	-1.00e-04	1.17e-03	-2.95e-04	-3.18e-03
##	3181	-1.15e-02	-1.08e-02	-2.36e-02	-1.42e-02	9.87e-03	-3.46e-02	-9.19e-02
##	3182	3.83e-06	-1.10e-03	-1.46e-03	7.36e-04	-1.84e-03	3.67e-03	-9.17e-03
##	3183	2.36e-02	-1.25e-02	-6.73e-03	6.55e-03	1.04e-02	-5.03e-03	5.69e-02
##	3184	-3.36e-03	2.21e-03	2.49e-02	-1.18e-03	1.49e-02	-9.17e-03	-7.95e-02
##	3185	-1.75e-03	-6.70e-03	2.99e-03	3.70e-03	-5.46e-03	2.96e-03	1.57e-02
##	3186	-2.48e-04	2.74e-04	7.80e-04	-6.43e-04	4.29e-04	-3.05e-04	3.16e-03
##	3187	5.79e-03	4.14e-03	-1.05e-02	-1.32e-02	-1.32e-02	1.36e-02	6.76e-02
##	3188	8.23e-05	-5.55e-04	1.15e-03	9.37e-04	-7.70e-05	1.08e-03	-3.07e-03
##	3189	1.81e-04	6.45e-03	7.89e-04	1.68e-03	-1.75e-03	4.15e-03	1.11e-02
##	3190	2.43e-02	3.29e-02	-3.78e-02	8.15e-03	1.83e-02	1.64e-02	-1.19e-01
##	3191	1.75e-02	-2.19e-05	2.40e-02	3.07e-03	2.95e-02	-1.75e-02	6.91e-02
##	3192	-6.89e-04	4.88e-03	2.65e-03	3.04e-03	-5.78e-03	7.28e-03	1.66e-02
##	3193	3.35e-02	-2.25e-02	1.75e-02	3.72e-02	1.95e-02	4.28e-03	-1.10e-01
##	3194	-5.14e-03	1.08e-02	-4.81e-03	-1.78e-02	2.81e-03	-2.25e-03	5.24e-02
##	3195	7.22e-05	-5.30e-04	-1.37e-03	2.00e-03	-4.21e-04	2.98e-03	-7.80e-03
##	3196	1.10e-02	3.07e-02	4.69e-03	-1.64e-02	7.29e-03	7.94e-04	-7.70e-02
##	3197	-4.46e-03	7.65e-03	-3.67e-03	7.96e-03	-3.64e-03	-2.68e-04	2.20e-02
##	3198	-3.35e-02	4.50e-03	-1.32e-02	-1.20e-03	-1.40e-02	7.23e-03	5.81e-02
##	3199	4.36e-03	-1.30e-03	-6.79e-03	5.18e-03	8.50e-03	-3.67e-03	-2.20e-02
##	3200	-3.96e-04	-7.42e-04	-2.24e-03	-2.48e-03	-1.08e-03	-4.62e-04	6.03e-03
##	3201	-5.25e-05	-1.69e-04	1.43e-04	1.99e-04	3.84e-05	-4.11e-04	-8.76e-04
##	3202	-2.33e-03	-5.68e-03	4.23e-03	3.86e-03	-9.42e-03	7.01e-03	1.97e-02
##	3203	-3.15e-03	-5.50e-03	-1.00e-02	-9.23e-03	-1.57e-02	1.01e-02	2.66e-02
##	3204	-1.13e-02	1.65e-03	-5.38e-03	-1.35e-03	-7.46e-03	-1.21e-03	2.95e-02
##	3205	8.01e-03	-3.28e-03	2.26e-03	-1.18e-03	-6.78e-03	1.15e-02	-2.88e-02
##	3206	-2.79e-03	2.55e-03	-2.31e-03	-3.97e-03	-7.15e-04	7.30e-04	-1.07e-02
##	3207	-6.03e-04	1.25e-03	1.93e-03	-3.34e-03	-3.07e-03	2.54e-03	9.24e-03
##	3208	1.43e-02	-1.02e-02	-7.10e-03	7.16e-03	1.16e-02	-2.77e-03	4.96e-02
##	3209	3.86e-03	-1.53e-04	3.70e-03	-1.54e-03	3.93e-03	-1.73e-03	1.92e-02
##	3210	1.34e-02	1.13e-02	-5.01e-03	-1.33e-02	7.26e-03	5.37e-03	4.83e-02
##	3211	1.38e-02	-8.13e-03	-6.17e-03	8.29e-03	8.96e-03	3.12e-03	5.00e-02
##	3212	-1.12e-02	3.63e-03	-2.27e-02	-2.05e-02	5.53e-03	-1.10e-02	-9.57e-02
##	3213	-3.14e-03	-4.84e-03	-1.17e-02	5.02e-03	-1.65e-02	1.16e-02	2.92e-02
##	3214	4.13e-03	-4.56e-04	3.67e-03	-2.10e-04	3.59e-03	1.93e-03	1.23e-02
##	3215	3.46e-05	4.67e-03	1.22e-03	2.87e-03	-1.06e-03	6.35e-04	1.03e-02
##	3216	4.73e-03	-1.85e-03	-3.95e-03	-2.97e-04	1.30e-03	-1.48e-03	-1.73e-02
##	3217	8.46e-03	-7.30e-05	-1.21e-02	-1.52e-03	-5.96e-03	1.63e-02	5.62e-02
##	3218	2.75e-03	1.97e-03	1.29e-02	-2.29e-02	-6.73e-03	1.31e-02	4.26e-02
##	3219	5.98e-03	2.97e-03	1.45e-02	-1.31e-02	-4.57e-03	1.46e-02	5.95e-02

##	3220	2.71e-02	8.86e-03	1.03e-02	-2.69e-03	2.16e-02	1.38e-02	-7.53e-02
##	3221	-2.27e-02	-6.73e-03	-1.06e-02	2.29e-03	-1.25e-02	-7.40e-03	5.83e-02
##	3222	-2.28e-03	-5.71e-03	4.16e-03	3.75e-03	-8.81e-03	6.38e-03	1.92e-02
##	3223	1.22e-02	-3.39e-03	-1.14e-02	1.44e-02	-8.00e-03	3.63e-03	5.70e-02
##	3224	-2.54e-03	2.26e-03	-4.51e-03	8.06e-03	8.19e-04	6.19e-03	3.71e-02
##	3225	9.41e-03	-6.75e-04	2.64e-03	-2.80e-03	-7.25e-03	1.10e-02	-3.38e-02
##	3226	5.90e-05	-7.03e-04	-1.42e-03	-5.04e-03	-2.78e-03	5.27e-03	-1.16e-02
##	3227	-1.29e-02	-1.25e-02	1.07e-02	1.02e-02	-5.66e-03	-1.60e-02	4.15e-02
##	3228	5.86e-04	5.73e-04	1.54e-03	2.52e-03	6.74e-04	-6.09e-04	7.29e-03
##	3229	1.20e-02	5.97e-03	-1.41e-02	-5.81e-04	-1.61e-02	2.02e-02	8.28e-02
##	3230	4.36e-05	1.39e-03	3.07e-04	8.36e-04	-6.00e-05	3.27e-04	2.76e-03
##	3231	-1.29e-03	1.51e-03	-1.43e-03	8.77e-05	-1.22e-03	2.09e-03	-7.01e-03
##	3232	1.55e-03	-2.70e-03	1.42e-02	1.69e-03	-6.56e-03	-4.25e-04	4.28e-02
##	3233	1.15e-04	-5.72e-04	2.92e-03	2.47e-04	-8.84e-04	3.28e-03	-7.33e-03
##	3234	1.85e-06	1.23e-04	3.26e-05	-6.39e-05	-1.55e-05	3.33e-05	2.52e-04
##	3235	3.41e-03	-5.60e-03	-9.48e-03	1.07e-02	-4.56e-03	2.51e-03	3.60e-02
##	3236	1.26e-02	-3.73e-03	-4.50e-02	3.05e-02	-8.02e-03	-2.02e-02	-1.15e-01
##	3237	1.05e-02	1.97e-02	-1.79e-02	-1.38e-02	4.53e-02	-3.84e-02	-9.07e-02
##	3238	1.82e-04	6.26e-03	7.90e-04	1.55e-03	-1.25e-03	3.68e-03	1.08e-02
##	3239	-2.67e-02	-3.85e-03	-1.00e-02	2.61e-03	-7.51e-03	1.90e-03	6.33e-02
##	3240	8.30e-04	-1.64e-03	-1.19e-02	-1.02e-02	-1.26e-02	2.81e-03	4.68e-02
##	3241	-2.80e-02	2.72e-02	-3.24e-02	-9.42e-03	-3.95e-02	2.30e-02	-1.12e-01
##	3242	-1.70e-02	-1.35e-03	-2.57e-02	-1.69e-02	9.20e-03	-7.32e-03	-7.93e-02
##	3243	7.51e-04	3.02e-03	-1.17e-03	-2.39e-03	-6.92e-04	5.20e-03	1.12e-02
##	3244	1.38e-02	-4.57e-03	2.87e-03	-2.66e-03	-6.93e-03	6.49e-03	-3.82e-02
##	3245	4.28e-03	-3.43e-03	-1.13e-02	1.25e-02	-6.54e-03	-1.88e-03	4.98e-02
##	3246	-9.88e-04	5.04e-03	-9.39e-03	4.92e-03	-7.81e-03	5.57e-03	2.30e-02
##	3247	1.61e-02	1.26e-02	2.41e-03	2.36e-02	7.15e-03	3.16e-03	-7.73e-02
##	3248	3.96e-03	6.30e-03	-9.36e-03	9.78e-03	-1.40e-04	-1.84e-03	3.44e-02
##	3249	-9.65e-03	-2.00e-02	-6.77e-03	-5.27e-03	1.47e-03	-7.35e-03	6.04e-02
##	3250	-1.62e-02	-2.07e-03	-4.77e-03	7.02e-03	1.19e-02	-3.12e-02	9.25e-02
##	3251	-1.84e-03	-2.52e-03	-1.85e-03	-1.34e-04	-2.72e-03	6.47e-03	2.36e-02
##	3252	4.03e-03	5.61e-03	-4.74e-03	4.55e-03	4.12e-03	5.05e-06	-1.62e-02
##	3253	-1.72e-02	-4.95e-03	-6.30e-03	2.29e-02	1.24e-02	-1.40e-02	6.98e-02
##	3254	8.65e-03	7.92e-03	-1.39e-02	-2.98e-03	-1.02e-02	2.78e-02	6.17e-02
##	3255	1.73e-02	5.67e-03	2.60e-02	-1.57e-02	3.11e-02	1.63e-03	5.71e-02
##	3256	-2.24e-02	1.85e-02	1.36e-02	-9.83e-03	-2.70e-02	9.27e-03	-8.99e-02
##	3257	3.25e-03	-1.41e-03	4.58e-03	-2.04e-04	3.50e-03	3.27e-05	-1.58e-02
##	3258	-3.50e-02	2.25e-02	-3.18e-02	-1.02e-02	-1.66e-02	5.78e-03	-8.49e-02
##	3259	6.11e-03	-9.02e-03	6.50e-03	-5.06e-03	5.26e-03	4.31e-04	2.22e-02
##	3260	3.23e-02	-1.06e-02	-1.01e-02	4.19e-03	2.58e-02	-2.06e-02	8.57e-02
##	3261	-2.07e-02	8.57e-03	1.24e-02	-7.78e-03	-2.96e-02	-4.19e-03	-6.81e-02
##	3262	1.64e-04	6.95e-04	-2.60e-03	4.29e-03	-4.05e-03	8.83e-03	-1.79e-02
##	3263	-5.81e-06	-2.55e-05	1.65e-05	3.86e-05	2.56e-06	-2.78e-05	9.36e-05
##	3264	-1.34e-02	5.59e-03	1.12e-02	1.22e-02	-4.10e-03	-4.26e-03	4.53e-02
##	3265	-1.64e-05	-7.53e-05	4.43e-05	-1.10e-05	-9.03e-06	-9.83e-05	2.25e-04
##	3266	-2.04e-02	-2.49e-03	-7.11e-03	2.89e-02	2.87e-02	-4.70e-02	1.07e-01
##	3267	9.07e-03	-2.59e-03	8.18e-04	-2.96e-03	-3.68e-03	1.39e-02	-3.87e-02
##	3268	-1.03e-02	-6.49e-03	9.12e-03	-1.45e-03	-1.90e-02	1.25e-02	-5.19e-02
##	3269	-2.19e-02	1.32e-02	-3.14e-02	-8.04e-03	-3.52e-02	-4.00e-03	-7.41e-02

##	3270	-6.81e-03	-1.77e-02	-4.60e-03	7.18e-03	5.38e-03	-1.06e-02	5.35e-02
##	3271	2.51e-04	6.10e-03	1.09e-03	2.33e-03	-1.15e-03	2.50e-03	1.08e-02
##	3272	1.83e-02	-5.17e-03	6.61e-03	-1.33e-03	-1.55e-02	6.09e-03	-4.17e-02
##	3273	-5.36e-04	1.27e-03	1.57e-03	2.51e-03	-2.49e-03	2.70e-03	1.02e-02
##	3274	-3.23e-04	3.11e-04	-2.63e-04	-3.27e-04	-3.61e-04	1.23e-04	1.54e-03
##	3275	1.48e-03	9.17e-04	2.17e-03	-1.71e-03	1.21e-03	3.48e-04	9.77e-03
##	3276	-1.82e-03	-3.18e-03	-1.80e-03	-1.93e-03	-1.40e-03	1.77e-03	-1.06e-02
##	3277	-2.24e-03	2.37e-02	-5.43e-03	6.82e-03	1.02e-02	6.48e-03	4.54e-02
##	3278	-1.94e-03	-7.67e-04	1.22e-02	-7.86e-03	-1.12e-03	6.72e-03	2.80e-02
##	3279	1.77e-04	1.13e-03	9.60e-04	4.58e-05	-7.14e-05	1.37e-03	-3.04e-03
##	3280	2.68e-02	-1.09e-02	-5.39e-03	8.66e-03	8.60e-03	4.54e-03	5.87e-02
##	3281	6.40e-03	-3.20e-03	4.50e-03	-1.17e-04	1.04e-03	5.00e-04	-1.79e-02
##	3282	1.04e-02	5.63e-03	1.56e-03	-6.69e-03	1.83e-03	-3.42e-03	-5.02e-02
##	3283	8.07e-03	-1.59e-02	7.45e-03	-6.60e-03	-2.10e-02	1.59e-02	-6.74e-02
##	3284	2.15e-04	4.45e-03	7.42e-04	1.73e-03	-6.05e-04	2.10e-03	7.81e-03
##	3285	2.03e-02	-1.26e-02	-4.10e-03	-1.81e-02	3.05e-03	2.91e-03	6.10e-02
##	3286	7.75e-03	-2.40e-03	1.06e-02	9.69e-03	-1.00e-03	7.15e-03	5.29e-02
##	3287	1.24e-03	-6.02e-03	3.90e-03	1.22e-03	1.86e-04	-7.27e-04	1.62e-02
##	3288	-2.37e-02	2.08e-03	-9.62e-03	-1.71e-02	-1.61e-02	1.51e-03	8.24e-02
##	3289	-3.73e-02	2.39e-03	-1.14e-02	1.48e-03	-2.10e-02	-4.95e-03	7.03e-02
##	3290	-1.35e-02	-6.83e-03	1.05e-02	-1.45e-02	-2.27e-02	2.13e-04	-5.08e-02
##	3291	-1.08e-02	-1.06e-03	-6.92e-03	5.68e-03	3.64e-03	-7.70e-04	-2.66e-02
##	3292	4.49e-03	-6.42e-03	-9.14e-03	-6.29e-03	-8.08e-03	3.52e-03	3.76e-02
##	3293	-1.86e-03	2.76e-03	2.46e-03	-6.01e-04	-1.35e-03	-8.23e-04	9.73e-03
##	3294	-2.36e-03	-5.34e-03	4.31e-03	3.73e-03	-1.00e-02	8.03e-03	2.06e-02
##	3295	-1.07e-04	-1.84e-03	-1.31e-03	-2.01e-04	-1.74e-03	4.20e-03	1.04e-02
##	3296	-2.94e-04	-6.30e-04	9.17e-04	1.90e-03	-3.60e-04	-5.02e-04	4.85e-03
##	3297	-1.06e-02	-1.02e-02	6.41e-03	-6.42e-04	-1.32e-02	-5.20e-04	-4.11e-02
##	3298	9.00e-03	-1.77e-02	7.35e-03	-9.24e-03	-9.38e-03	1.62e-02	-6.28e-02
##	3299	-1.11e-02	-5.40e-03	-2.48e-02	2.79e-02	-1.89e-02	1.07e-02	-6.57e-02
##	3300	9.99e-04	7.34e-03	-2.17e-03	5.15e-03	-2.36e-03	8.47e-03	2.27e-02
##	3301	-1.31e-02	-1.24e-02	3.49e-02	8.38e-03	3.41e-03	4.18e-03	7.38e-02
##	3302	1.52e-02	-1.29e-03	-1.12e-02	2.80e-03	2.83e-02	-1.76e-02	7.55e-02
##	3303	-2.20e-03	3.06e-03	2.92e-03	1.65e-03	-8.64e-04	-8.09e-05	1.05e-02
##	3304	1.85e-04	1.02e-02	2.20e-03	4.21e-03	-3.19e-03	2.97e-03	1.97e-02
##	3305	-4.74e-04	2.02e-04	1.48e-03	-2.15e-03	-1.85e-03	9.37e-04	6.47e-03
##	3306	-1.72e-02	-6.30e-03	-2.06e-02	-1.71e-04	-1.50e-02	6.22e-03	-5.10e-02
##	3307	7.86e-03	-1.25e-02	-5.90e-03	5.05e-03	-1.63e-03	-7.37e-03	4.15e-02
##	3308	-2.46e-03	-4.67e-03	4.30e-03	3.30e-03	-1.07e-02	9.13e-03	2.16e-02
##	3309	-2.52e-03	-4.52e-03	3.98e-03	-2.75e-03	-1.09e-02	9.01e-03	2.00e-02
##	3310	1.33e-02	7.89e-03	1.24e-02	4.93e-03	1.66e-02	-4.21e-04	3.85e-02
##	3311	-1.25e-03	-2.55e-03	-1.74e-03	-6.47e-03	-6.90e-03	7.97e-03	2.66e-02
##	3312	8.65e-03	3.36e-03	7.29e-03	-1.03e-02	-3.97e-04	-3.70e-03	3.59e-02
##	3313	-3.82e-03	3.14e-03	-3.83e-03	3.76e-04	8.15e-04	9.44e-04	-1.46e-02
##	3314	-1.72e-02	4.12e-03	-2.37e-02	-2.00e-02	1.37e-03	-1.85e-02	-9.74e-02
##	3315	3.08e-02	2.42e-03	1.44e-02	-2.29e-04	1.69e-02	1.13e-02	-7.72e-02
##	3316	-2.84e-02	-5.42e-03	-1.03e-02	-8.78e-03	-1.57e-02	-9.67e-04	6.06e-02
##	3317	-1.39e-05	-2.89e-04	-4.04e-04	-1.13e-03	-2.34e-04	1.01e-03	-2.64e-03
##	3318	1.49e-02	-4.71e-03	3.09e-03	-2.37e-03	-5.83e-03	5.87e-03	-3.69e-02
##	3319	-1.39e-03	-6.62e-03	2.40e-03	3.41e-03	-2.72e-03	-2.36e-04	1.31e-02

##	3320	2.13e-02	5.13e-03	2.60e-02	9.94e-04	3.43e-02	-1.05e-02	7.05e-02
##	3321	1.53e-02	-5.01e-03	4.51e-03	-1.50e-03	-1.13e-02	8.83e-03	-3.63e-02
##	3322	-3.42e-02	-7.13e-03	2.11e-02	1.05e-02	2.41e-02	1.97e-02	-1.36e-01
##	3323	-4.26e-03	-6.71e-04	9.17e-03	5.29e-03	3.15e-03	5.56e-03	2.60e-02
##	3324	1.93e-02	1.38e-02	-1.30e-02	8.86e-04	3.03e-02	-2.57e-04	5.79e-02
##	3325	4.04e-03	-6.49e-03	-9.26e-03	1.19e-02	-4.21e-03	2.14e-03	4.09e-02
##	3326	9.73e-03	2.17e-02	3.24e-03	-1.26e-02	1.19e-02	-7.97e-03	-7.24e-02
##	3327	-6.87e-03	-6.29e-03	-2.39e-02	-1.73e-02	4.94e-03	-1.97e-02	-7.13e-02
##	3328	-7.84e-06	1.81e-03	3.22e-04	-1.78e-03	-5.39e-04	1.07e-03	3.76e-03
##	3329	9.51e-03	1.76e-02	3.73e-03	-1.11e-02	2.82e-03	2.06e-03	-6.20e-02
##	3330	-3.26e-03	-7.93e-03	5.61e-03	-1.41e-03	-1.25e-02	4.53e-03	2.54e-02
##	3331	-4.99e-05	-1.05e-03	-9.18e-04	-3.03e-03	-1.49e-03	2.54e-03	-6.87e-03
##	3332	1.97e-02	1.11e-02	-1.15e-02	3.82e-03	2.48e-02	-3.63e-03	6.35e-02
##	3333	1.89e-02	8.77e-03	9.65e-03	-4.76e-03	-1.98e-02	1.88e-02	-6.95e-02
##	3334	4.24e-03	-1.08e-03	-5.98e-03	9.48e-06	6.52e-03	-2.52e-03	-1.94e-02
##	3335	-1.29e-02	-5.57e-03	2.57e-03	7.52e-03	-4.07e-03	5.41e-03	-3.78e-02
##	3336	2.10e-03	-9.63e-03	9.76e-03	1.15e-02	-1.41e-03	-9.15e-04	3.69e-02
##	3337	-5.98e-03	4.07e-04	8.36e-03	-3.06e-03	-1.03e-05	-5.09e-03	3.12e-02
##	3338	-6.03e-04	1.25e-03	1.89e-03	-6.09e-03	-3.25e-03	2.78e-03	1.03e-02
##	3339	-1.23e-02	-5.74e-03	7.96e-03	-1.52e-02	-1.52e-02	1.86e-03	-4.21e-02
##	3340	-1.21e-03	-1.92e-03	-2.42e-03	6.36e-03	-4.59e-03	9.54e-03	2.51e-02
##	3341	-4.05e-02	1.80e-02	-8.62e-03	4.08e-03	1.68e-02	-2.02e-02	1.01e-01
##	3342	7.72e-05	1.86e-03	3.88e-04	1.02e-03	-1.25e-05	4.33e-04	3.54e-03
##	3343	-9.08e-04	5.51e-04	-1.82e-03	8.52e-03	-7.36e-03	1.54e-02	3.92e-02
##	3344	7.34e-03	1.44e-03	3.21e-03	-3.62e-03	-6.34e-03	1.56e-02	-4.05e-02
##	3345	-4.95e-03	-8.67e-03	2.04e-02	-1.69e-02	1.57e-02	-2.08e-02	-6.72e-02
##	3346	-5.82e-03	1.52e-02	2.33e-02	-2.91e-02	1.39e-02	6.48e-03	-9.96e-02
##	3347	1.38e-02	-5.48e-03	4.19e-03	-1.01e-02	-1.12e-02	9.17e-03	-3.48e-02
##	3348	-2.94e-02	2.58e-03	-8.77e-03	-1.35e-02	2.08e-02	-1.64e-02	8.16e-02
##	3349	-3.37e-03	-1.51e-03	2.41e-03	-2.49e-03	1.40e-03	-1.55e-03	1.09e-02
##	3350	3.81e-04	2.34e-04	2.57e-04	1.33e-05	2.38e-04	2.17e-04	9.12e-04
##	3351	-6.09e-03	-2.33e-04	-2.41e-02	-2.00e-02	8.89e-03	-1.40e-02	-8.62e-02
##	3352	4.18e-02	6.84e-03	-2.40e-02	1.36e-03	1.12e-02	-6.95e-04	-9.88e-02
##	3353	1.02e-03	-5.74e-03	3.93e-03	4.99e-03	-2.67e-04	-1.21e-03	1.63e-02
##	3354	-2.74e-03	-8.31e-03	-8.71e-03	5.72e-03	-9.57e-03	2.01e-03	2.12e-02
##	3355	-2.47e-02	1.59e-03	8.13e-03	-3.04e-03	-1.48e-02	1.07e-02	-5.52e-02
##	3356	-4.75e-03	-6.64e-03	4.13e-03	-1.61e-04	-4.47e-03	-3.34e-04	1.49e-02
##	3357	-2.44e-04	-3.37e-03	2.39e-02	5.79e-04	1.65e-02	1.31e-03	-8.71e-02
##	3358	-1.86e-03	3.30e-03	-2.70e-03	-3.29e-03	-4.66e-04	-2.43e-03	1.51e-02
##	3359	1.13e-02	1.04e-02	6.76e-03	-6.80e-03	-4.72e-03	1.89e-02	-6.34e-02
##	3360	5.77e-05	3.96e-03	7.48e-04	1.65e-03	-5.71e-04	1.19e-03	6.51e-03
##	3361	-5.06e-03	1.50e-02	-8.50e-03	7.70e-03	1.37e-02	-3.10e-03	5.84e-02
##	3362	-1.07e-03	1.39e-03	-1.24e-03	2.11e-03	-1.29e-03	-5.58e-04	5.11e-03
##	3363	-1.09e-02	7.98e-03	-6.36e-03	8.45e-03	5.62e-03	2.51e-03	4.59e-02
##	3364	1.15e-03	6.01e-04	-1.23e-02	2.50e-03	-1.70e-02	1.72e-03	6.27e-02
##	3365	-9.81e-03	-1.19e-02	-4.65e-03	-6.07e-03	-2.30e-03	-6.12e-03	2.97e-02
##	3366	1.13e-02	3.16e-02	3.98e-02	-2.14e-02	4.69e-02	-2.48e-02	-1.02e-01
##	3367	-7.25e-03	-1.81e-02	-3.09e-04	-1.31e-02	-9.76e-03	8.27e-03	5.29e-02
##	3368	-8.45e-03	-8.65e-03	4.42e-03	-1.06e-02	-9.59e-03	3.33e-03	-3.59e-02
##	3369	3.01e-05	-3.19e-03	-2.56e-02	-2.07e-02	1.35e-02	3.09e-03	-1.05e-01

## 3370	2.02e-04	5.48e-04	-2.50e-03	4.22e-03	-3.88e-03	8.59e-03	-1.73e-02
## 3371	-2.89e-03	-5.63e-03	-1.10e-02	4.46e-03	-1.47e-02	1.12e-02	2.94e-02
## 3372	8.66e-05	-3.79e-04	-1.01e-03	9.80e-05	-5.56e-04	2.87e-03	-6.04e-03
## 3373	4.14e-03	-1.39e-03	-6.15e-03	-1.15e-02	3.14e-03	-9.53e-05	-2.56e-02
## 3374	-2.46e-03	-4.94e-03	4.20e-03	3.47e-03	-1.07e-02	8.90e-03	2.11e-02
## 3375	6.12e-03	-3.68e-03	1.02e-03	-1.11e-03	-3.58e-03	9.02e-03	-2.58e-02
## 3376	-3.89e-03	-1.47e-03	-3.42e-03	-4.86e-03	-3.96e-03	-1.18e-03	1.51e-02
## 3377	9.68e-05	1.35e-04	-1.80e-03	7.67e-05	-1.54e-03	5.37e-03	-1.10e-02
## 3378	-1.15e-02	-6.69e-03	6.95e-03	-2.30e-03	-1.49e-02	3.86e-03	-4.38e-02
## 3379	-1.72e-02	-1.91e-03	1.18e-02	-2.25e-03	-2.15e-02	5.47e-03	-6.13e-02
## 3380	8.80e-03	-1.22e-03	2.53e-03	-2.45e-03	-8.04e-03	1.04e-02	-3.33e-02
## 3381	-3.73e-03	-1.31e-03	-2.00e-03	1.87e-03	-1.76e-03	-3.59e-04	9.42e-03
## 3382	-2.22e-03	-5.85e-03	4.32e-03	4.00e-03	-9.08e-03	6.78e-03	1.96e-02
## 3383	1.10e-03	-4.76e-03	-2.11e-03	3.93e-03	-9.27e-04	-9.84e-04	1.12e-02
## 3384	1.96e-02	1.47e-02	-1.39e-02	1.99e-02	3.32e-02	-2.48e-03	6.20e-02
## 3385	1.32e-04	6.01e-04	-3.80e-04	1.89e-04	-9.83e-06	7.52e-04	-1.97e-03
## 3386	-2.48e-03	-5.09e-03	3.86e-03	3.27e-03	-9.85e-03	7.53e-03	1.94e-02
## 3387	2.33e-03	-3.29e-04	-4.30e-03	7.50e-03	2.04e-03	-1.31e-03	1.91e-02
## 3388	2.06e-03	8.68e-03	-3.01e-03	-6.01e-03	5.92e-04	1.10e-02	2.59e-02
## 3389	1.98e-03	6.00e-03	6.45e-03	2.19e-03	-1.82e-05	-2.38e-03	2.54e-02
## 3390	5.38e-03	-8.42e-03	6.66e-03	-4.84e-03	2.04e-03	1.89e-03	2.12e-02
## 3391	-1.94e-03	-1.00e-03	6.19e-03	-9.54e-04	2.82e-03	3.77e-03	1.83e-02
## 3392	1.45e-03	-1.49e-03	2.08e-03	-2.30e-03	3.31e-03	-1.33e-03	-8.32e-03
## 3393	-4.93e-03	-1.18e-03	-3.78e-03	-1.83e-04	1.64e-03	3.53e-03	2.30e-02
## 3394	-4.52e-03	9.57e-03	-5.18e-03	-1.62e-03	-5.80e-03	1.81e-05	2.53e-02
## 3395	2.74e-02	-3.40e-03	3.18e-02	-3.06e-02	1.77e-02	-4.26e-03	7.43e-02
## 3396	3.39e-05	-3.99e-04	7.34e-04	6.07e-04	-1.01e-05	5.78e-04	-1.93e-03
## 3397	1.85e-02	-4.92e-03	4.52e-03	-2.21e-03	-1.05e-02	1.53e-02	-4.54e-02
## 3398	-2.29e-03	-5.14e-03	4.30e-03	-7.78e-03	-1.02e-02	8.21e-03	2.03e-02
## 3399	6.40e-04	6.76e-04	1.65e-03	-9.31e-04	5.06e-04	-7.12e-05	7.42e-03
## 3400	6.26e-03	-1.14e-02	-2.99e-03	-4.82e-03	3.62e-03	2.82e-03	2.55e-02
## 3401	-3.86e-04	-2.13e-04	1.57e-03	2.78e-03	-1.00e-03	-1.55e-04	7.14e-03
## 3402	-4.63e-05	2.53e-04	-6.04e-04	-4.39e-04	4.33e-06	-8.30e-04	2.19e-03
## 3403	-3.88e-03	-2.66e-03	-2.80e-02	2.29e-02	9.63e-03	-8.84e-03	-8.58e-02
## 3404	1.42e-04	3.23e-03	-1.66e-03	3.13e-03	-1.42e-03	3.50e-03	1.23e-02
## 3405	-1.64e-02	1.42e-05	-2.74e-02	2.30e-02	1.67e-02	-1.28e-02	-8.52e-02
## 3406	1.20e-02	1.76e-02	4.87e-04	-1.35e-02	1.21e-02	-1.62e-02	-7.44e-02
## 3407	2.13e-03	1.08e-02	2.34e-03	3.80e-03	3.29e-03	-1.50e-03	1.98e-02
## 3408	-1.30e-02	-1.24e-02	-6.16e-03	-9.11e-03	9.12e-03	1.75e-03	6.18e-02
## 3409	1.73e-03	1.73e-03	1.01e-03	2.21e-03	2.24e-03	-1.20e-03	6.73e-03
## 3410	-5.30e-02	1.33e-03	1.29e-02	-2.45e-02	-1.48e-02	-3.47e-02	-1.18e-01
## 3411	-2.20e-02	-8.29e-03	-1.15e-02	1.35e-02	-1.07e-02	-6.97e-03	6.23e-02
## 3412	2.03e-03	-5.30e-03	8.88e-03	-1.37e-02	-1.46e-03	-4.79e-04	3.46e-02
## 3413	-4.35e-03	-1.49e-02	1.39e-02	5.62e-03	-3.09e-03	4.13e-03	3.57e-02
## 3414	4.12e-03	2.25e-03	-1.17e-03	3.15e-03	2.33e-03	2.32e-03	9.02e-03
## 3415	5.84e-03	-8.40e-03	-7.11e-03	-1.54e-02	-1.46e-02	-5.34e-03	4.75e-02
## 3416	-2.68e-03	-1.48e-03	1.19e-03	1.11e-03	-9.14e-04	-1.88e-03	-6.29e-03
## 3417	8.35e-05	-6.45e-05	1.62e-04	1.46e-04	6.36e-06	7.98e-05	-7.80e-04
## 3418	-4.09e-03	3.68e-03	-2.21e-02	-1.95e-02	1.51e-03	-1.08e-02	-9.78e-02
## 3419	1.05e-02	-1.29e-03	4.29e-03	-1.85e-03	-1.22e-02	1.03e-02	-3.90e-02

## 3420	1.65e-02	1.69e-02	-9.54e-03	-1.87e-02	2.21e-02	8.03e-03	5.15e-02
## 3421	-1.26e-02	-9.34e-03	9.15e-03	-8.86e-05	-2.01e-02	3.24e-04	-3.88e-02
## 3422	-1.81e-02	-5.03e-03	-5.33e-03	8.93e-03	1.05e-02	-1.37e-02	7.60e-02
## 3423	-3.82e-02	3.00e-02	8.37e-03	2.54e-02	1.02e-02	-7.81e-03	-1.05e-01
## 3424	3.12e-04	1.46e-03	-8.15e-04	1.61e-03	2.61e-05	1.39e-03	-4.33e-03
## 3425	-3.79e-03	-5.79e-04	5.34e-03	2.80e-03	5.68e-03	7.57e-04	2.09e-02
## 3426	7.62e-03	6.47e-03	3.80e-03	-5.97e-03	-5.56e-03	1.16e-02	-4.68e-02
## 3427	1.38e-03	-1.74e-03	2.25e-03	-2.25e-04	3.92e-03	-2.52e-03	-9.19e-03
## 3428	-2.50e-03	-8.85e-04	-3.66e-03	5.49e-03	-2.71e-03	4.82e-03	2.56e-02
## 3429	3.33e-03	7.93e-03	-9.06e-03	7.98e-03	-3.30e-05	2.10e-04	2.81e-02
## 3430	1.91e-02	1.32e-02	-1.24e-02	-1.86e-02	2.96e-02	5.30e-04	6.05e-02
## 3431	-9.32e-04	8.78e-04	-5.20e-03	-6.64e-03	-4.53e-03	1.68e-03	1.24e-02
## 3432	3.39e-03	6.13e-03	-6.20e-03	-2.45e-03	-3.65e-03	8.39e-04	2.90e-02
## 3433	9.92e-03	1.37e-03	3.04e-03	-4.01e-03	-6.56e-03	9.00e-03	-4.12e-02
## 3434	-1.98e-03	-4.82e-02	9.93e-03	2.56e-02	2.17e-02	-6.00e-02	-1.27e-01
## 3435	2.50e-03	-1.07e-03	3.33e-03	-3.96e-04	4.46e-03	-8.65e-04	-1.17e-02
## 3436	2.27e-03	1.54e-03	-4.95e-03	5.97e-03	-7.26e-05	-2.29e-03	1.75e-02
## 3437	-7.89e-03	-1.84e-02	-6.08e-03	-7.79e-03	8.24e-03	-1.18e-02	5.90e-02
## 3438	1.53e-02	2.12e-03	-5.16e-03	-2.51e-03	3.14e-03	-2.55e-03	3.83e-02
## 3439	5.51e-03	2.15e-03	5.04e-03	8.29e-03	5.01e-03	-1.97e-03	2.84e-02
## 3440	-5.38e-03	3.13e-03	-4.05e-03	8.58e-03	3.65e-03	-1.26e-03	4.33e-02
## 3441	-2.71e-03	-2.73e-04	-3.92e-03	5.95e-03	-3.01e-03	5.42e-03	2.77e-02
## 3442	1.35e-02	1.18e-02	1.65e-02	-4.44e-03	1.71e-02	2.58e-03	4.24e-02
## 3443	4.67e-02	1.54e-02	-2.79e-02	2.21e-02	5.61e-03	1.25e-03	-1.06e-01
## 3444	2.06e-02	3.12e-03	-4.76e-03	-1.51e-03	4.55e-03	5.25e-03	3.84e-02
## 3445	-1.36e-03	4.09e-04	-2.14e-03	8.63e-03	-7.54e-03	1.36e-02	3.61e-02
## 3446	1.23e-02	3.94e-03	-4.44e-03	-8.49e-03	1.00e-02	8.36e-03	4.12e-02
## 3447	3.66e-03	6.11e-03	-1.37e-02	1.16e-02	-9.81e-03	1.37e-02	4.55e-02
## 3448	-5.00e-04	-1.75e-03	-3.26e-03	7.79e-03	-3.79e-03	1.42e-02	3.38e-02
## 3449	8.30e-03	-8.63e-03	-9.90e-03	1.67e-02	-4.15e-03	-2.75e-03	6.62e-02
## 3450	8.93e-03	-4.06e-03	3.53e-03	-5.98e-04	-1.21e-02	1.17e-02	-3.38e-02
## 3451	3.15e-04	-3.23e-04	4.92e-04	-9.54e-04	5.20e-04	-1.65e-04	-2.19e-03
## 3452	-3.28e-03	-4.60e-03	-1.17e-02	4.74e-03	-1.70e-02	1.21e-02	2.93e-02
## 3453	1.28e-02	7.25e-03	4.50e-03	2.44e-02	-8.51e-03	1.71e-03	-5.76e-02
## 3454	3.14e-05	6.46e-03	-5.95e-03	4.59e-03	-2.41e-03	1.97e-04	1.51e-02
## 3455	-3.15e-03	-1.97e-02	-3.75e-03	-2.74e-03	9.44e-04	3.73e-03	4.72e-02
## 3456	1.05e-04	-9.68e-04	5.16e-04	3.35e-04	-5.23e-06	-1.90e-04	2.10e-03
## 3457	1.58e-02	-4.33e-03	4.96e-03	-1.21e-02	-1.19e-02	8.67e-03	-3.91e-02
## 3458	2.33e-02	-1.16e-02	-6.95e-03	7.58e-03	9.08e-03	-9.59e-04	6.06e-02
## 3459	-2.11e-02	-7.65e-03	-5.92e-03	-2.09e-02	8.71e-03	-5.06e-04	6.25e-02
## 3460	3.80e-03	4.50e-03	-1.27e-02	-8.48e-04	-9.38e-03	1.32e-02	4.20e-02
## 3461	8.12e-05	-1.24e-04	1.60e-03	-2.51e-05	-2.01e-04	2.15e-03	-4.55e-03
## 3462	7.90e-03	-4.30e-03	1.99e-03	-1.09e-03	-7.88e-03	9.10e-03	-3.35e-02
## 3463	-2.13e-03	-5.20e-03	3.35e-03	2.96e-03	-8.92e-03	8.14e-03	2.09e-02
## 3464	-1.91e-02	4.14e-03	-4.52e-03	6.17e-03	1.65e-02	-1.34e-02	8.70e-02
## 3465	1.76e-03	-2.67e-03	-1.11e-02	-9.07e-03	-5.38e-03	4.75e-03	3.91e-02
## 3466	-3.51e-04	-5.30e-04	1.42e-03	2.63e-03	-5.95e-04	-7.13e-04	6.51e-03
## 3467	-5.91e-03	-1.79e-02	2.44e-02	8.96e-03	-6.40e-03	7.17e-03	5.50e-02
## 3468	7.15e-03	3.09e-02	5.03e-03	2.52e-02	3.90e-03	-1.62e-03	-8.18e-02
## 3469	7.64e-03	-1.18e-02	-3.65e-03	6.60e-03	9.33e-04	5.82e-03	3.69e-02

##	3470	-5.40e-04	3.59e-03	2.08e-03	2.70e-03	-4.68e-03	6.63e-03	1.60e-02
##	3471	-3.44e-03	1.81e-03	-3.46e-03	8.35e-03	-4.00e-03	1.56e-02	4.46e-02
##	3472	1.80e-02	2.43e-03	-1.01e-02	5.91e-03	1.92e-02	2.72e-04	5.53e-02
##	3473	-1.48e-02	8.18e-03	-1.04e-02	4.56e-03	-1.36e-02	-8.10e-03	5.07e-02
##	3474	-6.03e-03	-6.79e-03	1.96e-02	-1.87e-02	1.36e-02	-1.96e-02	-6.75e-02
##	3475	1.31e-04	-3.84e-04	-2.00e-03	2.49e-04	-2.71e-03	6.75e-03	-1.36e-02
##	3476	3.56e-03	2.53e-03	1.70e-02	-1.77e-04	-8.43e-03	9.47e-03	5.01e-02
##	3477	2.72e-03	-2.72e-03	-9.33e-03	-1.85e-02	-8.28e-03	8.62e-03	3.86e-02
##	3478	1.45e-02	-4.94e-03	2.02e-02	3.86e-03	2.08e-02	-1.06e-02	5.66e-02
##	3479	-2.07e-02	-1.14e-02	-7.32e-03	8.37e-03	7.00e-03	-2.08e-05	6.65e-02
##	3480	-1.02e-02	-7.92e-03	7.25e-03	1.11e-02	-1.25e-02	2.80e-03	-3.94e-02
##	3481	1.30e-02	3.36e-03	1.16e-02	-9.82e-03	6.08e-03	2.63e-03	3.40e-02
##	3482	1.67e-05	-1.58e-03	-1.37e-03	3.44e-03	-9.97e-04	2.25e-03	-8.75e-03
##	3483	-3.19e-02	-1.75e-03	1.95e-02	1.49e-02	-1.05e-02	7.29e-04	6.29e-02
##	3484	-1.02e-02	1.12e-03	-6.84e-03	-3.31e-03	-9.79e-03	-1.20e-02	3.64e-02
##	3485	-1.07e-02	5.04e-03	2.32e-02	-1.63e-03	1.35e-02	-9.96e-03	-8.95e-02
##	3486	5.09e-03	-3.20e-04	-3.20e-03	2.38e-03	-2.37e-03	-1.26e-03	1.59e-02
##	3487	6.31e-03	3.55e-03	1.46e-02	9.92e-03	-2.93e-03	1.44e-02	5.60e-02
##	3488	3.62e-03	5.14e-03	-1.20e-02	-2.66e-02	-1.11e-02	1.48e-02	4.96e-02
##	3489	-1.85e-02	-1.17e-03	4.72e-03	2.08e-02	-1.14e-02	6.24e-03	-5.23e-02
##	3490	-8.27e-03	-9.06e-03	4.52e-03	-8.93e-04	-9.06e-03	3.24e-03	-3.54e-02
##	3491	1.02e-02	-6.65e-03	1.54e-02	-1.85e-02	1.67e-02	1.18e-03	4.61e-02
##	3492	1.95e-02	1.72e-02	-1.17e-02	2.35e-03	2.26e-02	1.43e-03	8.17e-02
##	3493	-2.37e-02	2.26e-02	1.68e-02	-1.31e-02	-2.98e-02	-3.56e-03	-9.46e-02
##	3494	9.35e-03	1.93e-02	-1.85e-02	-1.47e-02	4.32e-02	-3.79e-02	-8.92e-02
##	3495	-7.32e-03	2.64e-03	-4.72e-03	8.01e-03	1.64e-03	7.36e-03	3.68e-02
##	3496	-6.36e-04	-3.11e-04	4.32e-04	-7.06e-04	1.16e-04	9.96e-06	-1.73e-03
##	3497	-7.40e-03	3.07e-04	-7.63e-03	4.75e-03	-2.68e-03	-4.26e-03	3.87e-02
##	3498	-1.78e-03	-1.67e-03	-2.12e-03	5.46e-03	-1.23e-03	7.92e-03	2.66e-02
##	3499	2.15e-04	-6.04e-06	-2.35e-03	4.53e-03	-3.41e-03	7.59e-03	-1.63e-02
##	3500	8.35e-03	3.44e-03	-1.29e-02	-8.19e-04	-6.28e-03	2.02e-02	5.61e-02
##	3501	1.68e-02	-5.76e-03	-1.22e-02	5.78e-03	1.60e-02	-1.26e-02	6.75e-02
##	3502	-2.43e-03	-5.15e-03	4.04e-03	3.40e-03	-9.80e-03	7.63e-03	1.99e-02
##	3503	2.16e-05	2.60e-04	-1.82e-04	-2.69e-04	-1.23e-04	4.59e-04	1.12e-03
##	3504	3.64e-03	6.09e-03	-1.37e-02	1.16e-02	-9.86e-03	1.37e-02	4.55e-02
##	3505	1.95e-02	1.01e-02	-1.14e-02	4.18e-03	2.52e-02	-4.94e-03	6.30e-02
##	3506	-1.51e-05	2.89e-04	1.93e-04	5.07e-04	5.87e-05	-4.14e-04	1.29e-03
##	3507	-9.97e-04	-1.99e-03	2.68e-03	-4.06e-03	-2.65e-03	-2.98e-03	1.31e-02
##	3508	-1.63e-03	-5.54e-03	2.93e-03	-8.98e-03	-6.30e-03	4.62e-03	1.66e-02
##	3509	6.19e-04	4.31e-03	-3.10e-03	3.51e-03	1.87e-03	4.06e-03	1.61e-02
##	3510	3.61e-04	-3.48e-03	-8.53e-03	-6.62e-03	-5.85e-03	-1.50e-03	3.22e-02
##	3511	-4.42e-03	-6.71e-03	2.08e-02	1.99e-03	1.89e-02	-2.24e-02	-6.73e-02
##	3512	3.99e-03	3.13e-02	1.91e-02	3.27e-02	1.09e-02	-3.94e-02	-1.40e-01
##	3513	-2.53e-03	-4.63e-03	4.08e-03	3.16e-03	-1.08e-02	9.02e-03	2.11e-02
##	3514	2.81e-02	-9.98e-03	-3.69e-03	1.00e-02	2.40e-03	7.56e-03	6.96e-02
##	3515	-2.00e-03	-6.94e-03	3.68e-03	4.39e-03	-6.90e-03	3.03e-03	1.88e-02
##	3516	-5.78e-04	6.96e-04	-1.45e-03	-1.21e-03	-5.91e-04	7.27e-04	-6.30e-03
##	3517	-1.14e-04	-2.78e-04	2.89e-04	-3.42e-04	-1.55e-04	-1.87e-04	1.39e-03
##	3518	-1.30e-04	-1.02e-03	-2.34e-03	-6.79e-05	9.41e-05	-2.34e-03	-6.32e-03
##	3519	1.56e-02	-4.18e-03	2.95e-03	6.98e-03	-5.42e-03	5.33e-03	-3.94e-02

##	3520	-3.66e-02	2.02e-02	4.11e-03	-1.52e-02	8.53e-03	-8.02e-03	-8.49e-02
##	3521	-8.76e-03	-1.45e-03	-2.50e-02	6.01e-04	1.54e-02	-9.74e-03	-9.26e-02
##	3522	-1.04e-02	-8.00e-03	6.63e-03	2.20e-02	-1.21e-02	2.65e-03	-4.95e-02
##	3523	1.17e-02	3.06e-02	3.80e-02	-2.21e-02	4.57e-02	-1.74e-02	-9.09e-02
##	3524	2.25e-02	1.21e-02	-1.31e-02	2.77e-03	2.16e-02	-1.06e-02	9.26e-02
##	3525	1.36e-02	-1.21e-02	-9.97e-03	1.63e-02	-1.42e-02	-1.02e-02	6.08e-02
##	3526	-6.56e-04	1.30e-03	1.87e-03	-3.36e-03	-3.24e-03	2.66e-03	9.23e-03
##	3527	4.04e-02	9.45e-03	1.81e-02	-4.16e-03	2.06e-02	5.85e-04	-8.48e-02
##	3528	-1.07e-03	5.21e-03	-9.23e-03	4.63e-03	-8.21e-03	6.53e-03	2.01e-02
##	3529	1.41e-02	3.91e-03	1.58e-02	3.52e-02	-1.86e-02	-2.75e-03	-1.31e-01
##	3530	4.60e-04	4.63e-03	-2.35e-03	-7.11e-05	9.05e-04	3.87e-03	1.49e-02
##	3531	1.63e-02	1.53e-02	-1.19e-02	2.36e-02	2.66e-02	-2.11e-02	8.29e-02
##	3532	3.08e-03	3.76e-03	4.70e-03	6.53e-03	8.96e-04	-9.48e-04	2.26e-02
##	3533	-1.12e-02	-2.62e-03	-5.31e-03	1.74e-04	-5.00e-03	-5.83e-03	-2.07e-02
##	3534	-6.15e-03	-4.27e-03	2.06e-02	-1.99e-02	1.41e-02	-1.98e-02	-6.99e-02
##	3535	-2.51e-04	-1.29e-03	1.72e-03	2.06e-03	-2.98e-04	-3.37e-03	-9.29e-03
##	3536	7.56e-03	-1.21e-02	9.14e-03	-8.58e-03	7.01e-04	-2.49e-03	3.68e-02
##	3537	-8.19e-03	1.14e-04	-6.11e-03	-2.76e-03	8.59e-05	-4.74e-03	2.72e-02
##	3538	1.10e-03	-1.88e-03	-3.17e-03	2.19e-03	-1.26e-03	-3.40e-03	-1.10e-02
##	3539	-3.31e-02	1.57e-02	-3.30e-02	-9.11e-03	-1.19e-02	1.13e-02	-8.50e-02
##	3540	-9.13e-03	-1.68e-02	-2.77e-03	1.05e-02	2.40e-04	1.06e-02	5.84e-02
##	3541	2.62e-03	-1.14e-03	-4.29e-03	-3.91e-03	4.22e-03	-2.52e-03	-1.67e-02
##	3542	2.30e-03	-1.65e-03	-3.85e-03	-1.14e-04	4.57e-03	-1.24e-03	-1.30e-02
##	3543	-1.67e-03	-1.56e-03	3.20e-03	-5.85e-05	1.97e-03	2.49e-03	1.08e-02
##	3544	-5.09e-03	-3.95e-03	6.43e-03	4.82e-03	-1.22e-03	1.30e-03	-2.04e-02
##	3545	1.08e-02	1.86e-02	6.13e-03	-7.91e-03	-1.38e-02	2.97e-03	-7.30e-02
##	3546	1.86e-02	-4.40e-03	7.34e-03	-6.67e-04	-1.81e-02	6.69e-03	-5.10e-02
##	3547	-1.36e-03	3.95e-03	-1.84e-03	-2.40e-03	5.89e-04	4.10e-03	1.19e-02
##	3548	2.06e-04	-6.95e-04	-1.02e-03	1.82e-03	-1.14e-04	2.39e-03	-6.23e-03
##	3549	1.85e-02	5.96e-03	-1.26e-02	2.02e-03	3.12e-02	9.21e-04	6.75e-02
##	3550	-2.12e-02	2.32e-04	5.01e-03	-4.16e-03	-1.10e-02	3.80e-03	-4.58e-02
##	3551	-6.11e-04	2.41e-03	1.68e-03	2.37e-03	-3.75e-03	4.75e-03	1.27e-02
##	3552	-1.60e-02	-1.47e-02	-6.92e-03	-1.77e-02	-1.63e-02	-1.11e-02	6.68e-02
##	3553	-9.64e-03	1.36e-02	2.48e-02	-2.27e-02	1.49e-02	-6.97e-04	6.32e-02
##	3554	-5.02e-06	1.30e-03	3.45e-04	-6.39e-04	-1.66e-04	1.90e-04	2.39e-03
##	3555	2.89e-03	2.78e-04	1.22e-02	9.77e-03	-3.68e-03	9.11e-03	3.68e-02
##	3556	-2.02e-02	1.05e-02	1.00e-02	-7.77e-03	-2.10e-02	4.61e-03	-7.01e-02
##	3557	1.63e-02	-6.09e-03	2.86e-03	-1.84e-03	-6.13e-03	1.24e-02	-4.25e-02
##	3558	-2.73e-02	-7.69e-03	-7.28e-03	-8.48e-03	6.72e-03	-7.51e-03	7.82e-02
##	3559	-6.46e-03	1.35e-03	1.10e-02	-1.07e-03	4.61e-03	7.98e-03	3.00e-02
##	3560	-3.09e-03	-8.99e-03	1.91e-02	1.64e-03	1.56e-02	-8.91e-03	-7.37e-02
##	3561	-3.92e-03	-2.49e-03	-2.87e-03	3.07e-03	-5.44e-03	-1.04e-03	1.77e-02
##	3562	2.61e-02	1.07e-02	9.33e-03	1.13e-02	-2.32e-02	2.12e-02	-8.52e-02
##	3563	-1.46e-02	-1.28e-02	-4.46e-03	-2.54e-02	1.20e-02	-2.12e-02	7.29e-02
##	3564	-6.66e-04	1.56e-03	1.97e-03	2.95e-03	-2.79e-03	2.16e-03	1.01e-02
##	3565	1.15e-04	3.33e-03	5.66e-04	1.40e-03	-3.43e-04	1.28e-03	5.93e-03
##	3566	-1.89e-02	-1.15e-02	-8.26e-03	5.22e-03	-7.91e-03	-1.66e-03	4.55e-02
##	3567	-2.35e-02	-5.15e-03	-6.36e-03	7.87e-03	9.98e-03	6.59e-03	7.11e-02
##	3568	-1.95e-03	-7.76e-03	-5.60e-03	-7.47e-03	-6.38e-03	7.72e-04	1.68e-02
##	3569	-3.18e-03	-4.58e-03	-1.19e-02	4.91e-03	-1.69e-02	1.22e-02	2.97e-02

##	3570	-8.78e-03	-1.94e-02	-4.46e-03	6.69e-03	-1.92e-03	-5.91e-03	4.68e-02
##	3571	-2.20e-05	-1.05e-04	-7.74e-05	-5.58e-05	-2.39e-05	-1.29e-04	2.81e-04
##	3572	5.10e-02	-1.17e-02	2.61e-02	-4.08e-02	1.02e-02	6.48e-03	-1.26e-01
##	3573	3.82e-03	-7.49e-03	6.48e-03	7.24e-03	-2.32e-03	-2.86e-03	2.44e-02
##	3574	1.82e-02	-1.31e-02	-8.21e-03	8.48e-03	1.22e-02	3.06e-03	5.57e-02
##	3575	2.84e-02	2.17e-02	1.74e-02	-2.29e-02	2.00e-02	1.96e-02	-1.01e-01
##	3576	-1.00e-02	-2.56e-03	-5.72e-03	5.16e-04	-2.75e-04	1.82e-03	-2.54e-02
##	3577	3.33e-02	1.07e-02	-1.01e-02	1.86e-03	2.95e-02	-1.21e-02	7.44e-02
##	3578	-4.31e-03	-2.18e-03	7.61e-03	8.93e-03	1.46e-03	-5.30e-03	2.90e-02
##	3579	1.50e-02	3.34e-03	-1.41e-02	1.92e-02	2.66e-02	-7.84e-03	7.17e-02
##	3580	1.91e-02	5.61e-03	1.45e-02	1.47e-02	1.55e-02	-2.66e-03	5.41e-02
##	3581	-1.90e-02	1.80e-02	-2.29e-02	-2.25e-02	-1.66e-03	-3.12e-03	-1.23e-01
##	3582	1.01e-02	-3.17e-03	9.18e-04	6.45e-03	-2.46e-03	1.40e-02	-3.89e-02
##	3583	-3.19e-02	-3.69e-03	-1.12e-02	-1.11e-02	-2.19e-02	-1.12e-02	7.44e-02
##	3584	-2.05e-02	-1.10e-02	1.33e-02	-1.48e-02	-8.08e-03	1.92e-03	4.58e-02
##	3585	-4.43e-04	-1.26e-03	-2.28e-03	-2.23e-03	-9.68e-04	-1.72e-03	6.50e-03
##	3586	-1.42e-02	1.42e-03	1.33e-02	-2.94e-03	-3.20e-02	2.99e-02	-8.34e-02
##	3587	-5.74e-03	-8.62e-03	1.89e-02	1.52e-03	1.51e-02	-2.14e-02	-6.42e-02
##	3588	-1.42e-02	-6.84e-03	9.78e-03	-1.55e-02	-2.27e-02	4.95e-04	-4.39e-02
##	3589	-2.56e-02	-8.41e-04	1.86e-02	-1.94e-04	-3.41e-03	5.81e-03	6.47e-02
##	3590	-1.10e-02	-9.94e-03	6.03e-03	2.30e-02	-1.23e-02	-1.74e-03	-4.88e-02
##	3591	-1.15e-03	2.22e-03	-2.58e-02	9.67e-04	7.59e-03	2.94e-03	-9.35e-02
##	3592	-1.12e-02	-1.44e-02	-5.47e-03	-9.17e-03	1.42e-02	-1.10e-02	7.06e-02
##	3593	3.65e-03	6.43e-03	1.74e-02	-1.89e-03	-9.05e-03	1.42e-02	5.59e-02
##	3594	2.89e-03	-6.52e-03	3.34e-03	4.37e-03	-2.11e-03	-2.89e-03	1.35e-02
##	3595	-2.52e-02	2.55e-02	9.69e-03	-1.70e-02	-6.13e-03	9.94e-04	-1.00e-01
##	3596	-1.74e-04	-1.15e-03	3.10e-04	-1.47e-04	-1.20e-04	-5.39e-04	1.67e-03
##	3597	1.85e-03	-8.46e-03	-5.69e-03	-8.46e-03	-7.71e-03	-3.50e-03	2.91e-02
##	3598	-6.69e-03	-5.36e-03	-2.41e-02	-1.77e-02	5.40e-03	-1.95e-02	-7.20e-02
##	3599	-9.15e-04	-4.79e-03	1.47e-03	4.67e-04	-1.38e-03	-1.22e-03	7.33e-03
##	3600	1.59e-03	-6.09e-03	-6.83e-03	3.23e-03	-4.77e-03	9.71e-06	3.00e-02
##	3601	5.20e-04	-1.14e-03	-3.11e-03	8.84e-03	-1.79e-03	1.55e-02	3.77e-02
##	3602	2.65e-03	4.58e-03	4.32e-03	5.77e-03	2.16e-03	-8.48e-05	1.99e-02
##	3603	-2.28e-02	1.46e-02	-3.29e-02	-1.02e-02	-2.60e-02	-8.96e-03	-7.58e-02
##	3604	-1.87e-03	1.22e-03	-3.32e-03	7.70e-03	-3.22e-03	1.02e-02	3.40e-02
##	3605	8.01e-03	1.86e-03	2.84e-03	1.72e-02	-5.41e-03	1.45e-02	-4.27e-02
##	3606	-1.94e-03	1.96e-02	-5.08e-03	-3.23e-03	9.91e-03	2.27e-03	3.95e-02
##	3607	1.70e-02	5.07e-04	-1.00e-02	5.68e-03	1.76e-02	7.73e-04	5.29e-02
##	3608	-8.42e-03	5.57e-04	-5.96e-03	-1.21e-02	-6.37e-03	-3.46e-03	5.33e-02
##	3609	5.11e-04	-2.99e-04	-1.26e-03	1.03e-03	-5.94e-04	8.59e-04	-5.36e-03
##	3610	1.09e-02	1.10e-02	-2.88e-02	-6.76e-03	-6.75e-03	1.80e-02	-7.17e-02
##	3611	-3.57e-03	-6.79e-04	4.79e-03	-1.04e-04	1.62e-03	2.96e-03	1.60e-02
##	3612	1.81e-02	7.21e-03	9.07e-03	-4.02e-03	2.08e-02	1.14e-03	-8.05e-02
##	3613	1.11e-03	-8.27e-03	6.88e-03	3.30e-03	-2.19e-03	-1.59e-03	2.35e-02
##	3614	5.06e-03	-1.71e-04	-7.89e-03	6.83e-03	4.88e-03	-2.91e-03	-2.79e-02
##	3615	1.46e-02	-1.39e-02	-6.75e-03	5.19e-03	-9.61e-03	-7.37e-03	6.04e-02
##	3616	-1.25e-02	-6.23e-03	1.99e-02	-1.64e-02	9.59e-03	-3.59e-02	-9.28e-02
##	3617	3.78e-03	-8.17e-04	-6.62e-03	-2.98e-04	6.43e-03	-3.98e-03	-2.04e-02
##	3618	1.70e-02	-5.53e-03	-6.21e-03	-2.11e-02	1.48e-02	6.78e-03	6.46e-02
##	3619	-1.08e-02	-1.67e-02	-2.76e-03	-5.79e-04	-5.49e-03	1.05e-02	5.14e-02

##	3620	1.09e-04	-1.90e-04	-1.97e-03	4.89e-05	-2.77e-03	6.81e-03	-1.33e-02
##	3621	1.53e-03	-6.60e-03	-5.77e-03	-1.05e-02	-3.71e-03	-3.71e-04	2.96e-02
##	3622	-6.31e-04	1.79e-03	2.18e-03	3.22e-03	-3.08e-03	2.64e-03	1.10e-02
##	3623	9.80e-03	-9.60e-03	-1.06e-02	1.11e-02	-7.55e-03	-1.04e-02	4.76e-02
##	3624	-3.77e-06	1.12e-02	-8.28e-03	4.91e-03	-4.53e-03	2.96e-03	2.21e-02
##	3625	1.09e-02	2.47e-02	-2.13e-02	6.39e-02	5.01e-02	-4.07e-02	-1.10e-01
##	3626	-2.04e-03	-6.45e-03	2.02e-02	-3.76e-05	2.26e-02	-1.18e-02	-9.34e-02
##	3627	2.16e-02	-5.11e-03	-1.07e-02	2.56e-02	1.69e-02	-5.74e-03	7.27e-02
##	3628	2.07e-02	1.98e-02	-1.14e-02	1.46e-03	2.76e-02	-3.22e-04	7.76e-02
##	3629	4.64e-06	1.98e-04	3.66e-04	-2.24e-04	-5.53e-05	3.02e-04	1.09e-03
##	3630	7.30e-05	-1.70e-04	-1.13e-03	-1.64e-03	-8.20e-04	3.51e-03	-7.13e-03
##	3631	-1.80e-03	-5.68e-03	2.93e-03	-5.21e-03	-6.30e-03	4.55e-03	1.62e-02
##	3632	1.10e-02	2.87e-02	-1.91e-02	-1.82e-02	4.02e-02	-2.67e-02	-8.78e-02
##	3633	-2.77e-03	-7.36e-03	-2.80e-02	2.07e-02	1.87e-02	-1.14e-02	-1.01e-01
##	3634	-1.48e-03	4.02e-03	-3.04e-03	-7.52e-04	-5.76e-03	1.63e-02	4.83e-02
##	3635	1.90e-02	5.29e-03	4.41e-03	-8.19e-03	-2.81e-03	1.22e-02	-6.31e-02
##	3636	-1.94e-03	3.81e-03	-2.59e-03	-3.36e-03	-1.95e-03	7.10e-04	1.25e-02
##	3637	-1.49e-02	-1.03e-02	-2.71e-03	1.05e-02	-5.38e-03	-1.74e-02	7.65e-02
##	3638	5.74e-05	2.30e-04	-1.56e-04	8.20e-05	2.01e-05	2.82e-04	-7.92e-04
##	3639	-1.55e-05	1.13e-03	4.45e-04	1.14e-03	-2.94e-05	-3.91e-04	3.63e-03
##	3640	-2.32e-03	-5.99e-03	3.86e-03	3.82e-03	-8.59e-03	5.61e-03	1.80e-02
##	3641	1.32e-02	2.91e-03	1.01e-02	4.32e-03	1.63e-02	4.01e-04	3.43e-02
##	3642	1.86e-02	1.30e-02	-1.10e-02	2.25e-03	2.21e-02	2.29e-03	6.96e-02
##	3643	-8.65e-03	3.69e-03	-6.94e-03	9.12e-03	8.71e-03	6.81e-03	4.67e-02
##	3644	1.06e-04	3.73e-05	-1.76e-03	1.29e-04	-1.40e-03	5.12e-03	-1.07e-02
##	3645	-2.21e-04	1.05e-03	-2.51e-03	3.56e-03	-2.54e-04	-3.79e-03	9.86e-03
##	3646	-6.11e-06	3.14e-05	-9.15e-05	1.02e-06	3.38e-06	-1.26e-04	3.22e-04
##	3647	-1.15e-02	-1.07e-02	-2.43e-02	3.71e-03	1.14e-02	-3.61e-02	-9.19e-02
##	3648	-4.48e-03	8.82e-03	-4.83e-03	-6.73e-03	6.05e-04	-3.88e-03	2.72e-02
##	3649	-1.71e-02	-1.11e-02	2.25e-02	-6.83e-03	1.58e-02	-1.06e-02	6.34e-02
##	3650	-1.29e-03	-5.75e-03	2.34e-03	-4.97e-03	-3.41e-03	-2.41e-04	1.15e-02
##	3651	2.33e-03	7.75e-03	3.68e-03	5.74e-03	1.96e-03	-5.96e-04	1.86e-02
##	3652	-1.61e-04	2.98e-03	-3.28e-03	-3.22e-03	-1.64e-03	-3.97e-04	8.61e-03
##	3653	4.47e-03	-6.65e-03	8.86e-03	7.96e-04	-2.88e-03	1.80e-04	3.31e-02
##	3654	-7.84e-04	-1.72e-03	5.85e-03	-3.31e-04	-8.82e-04	4.55e-03	1.48e-02
##	3655	1.13e-02	1.45e-02	-1.18e-02	-9.58e-03	-3.56e-04	8.54e-03	5.14e-02
##	3656	-4.05e-03	3.20e-03	1.60e-02	-3.22e-03	9.16e-03	8.32e-03	4.08e-02
##	3657	-7.02e-03	1.02e-03	-2.66e-02	8.10e-05	7.74e-03	-2.05e-02	-7.47e-02
##	3658	-2.01e-02	2.90e-03	-8.59e-03	2.52e-02	2.32e-02	-2.00e-02	7.75e-02
##	3659	4.27e-03	-1.49e-03	-1.16e-02	1.10e-02	-5.39e-03	4.68e-03	4.26e-02
##	3660	5.42e-03	3.32e-03	-1.78e-03	2.35e-03	7.61e-04	2.75e-03	1.07e-02
##	3661	-3.57e-02	2.63e-02	6.63e-03	2.50e-02	-7.03e-03	-1.40e-02	-8.93e-02
##	3662	-1.95e-03	5.26e-02	-1.03e-02	8.79e-03	2.58e-02	-6.95e-03	9.20e-02
##	3663	7.85e-03	8.37e-03	-8.23e-03	-1.32e-02	-5.13e-03	1.94e-03	3.90e-02
##	3664	-8.09e-03	-1.68e-02	-4.72e-03	8.10e-03	-2.76e-03	-4.03e-03	5.04e-02
##	3665	-1.80e-03	-7.91e-03	3.09e-03	-6.17e-03	-5.15e-03	-6.38e-04	1.53e-02
##	3666	-1.02e-02	-8.21e-03	6.42e-03	-1.24e-03	-1.41e-02	3.75e-03	-3.55e-02
##	3667	2.99e-02	-3.16e-03	1.51e-02	3.81e-03	3.05e-02	-7.85e-03	-1.10e-01
##	3668	1.28e-02	1.38e-02	2.75e-03	-1.00e-02	-1.24e-03	-8.74e-04	-6.18e-02
##	3669	-6.71e-03	-5.56e-03	-2.49e-02	2.62e-03	7.91e-03	-2.24e-02	-7.10e-02

## 3670	-2.40e-03	-4.84e-03	4.56e-03	3.63e-03	-1.09e-02	9.52e-03	2.23e-02
## 3671	2.95e-03	5.04e-04	3.21e-03	1.11e-03	1.46e-04	-2.46e-03	1.25e-02
## 3672	8.67e-03	-9.85e-04	1.32e-02	9.32e-03	1.14e-04	1.49e-02	5.42e-02
## 3673	-1.63e-02	-1.34e-02	1.28e-02	2.37e-03	-8.04e-03	-1.48e-02	4.82e-02
## 3674	1.03e-02	1.39e-02	3.69e-02	-1.41e-02	5.21e-02	-3.68e-02	-9.12e-02
## 3675	-2.77e-02	1.12e-02	-2.78e-02	-2.03e-02	4.70e-04	-8.04e-03	-1.11e-01
## 3676	7.33e-03	1.62e-02	2.43e-03	-1.14e-02	7.93e-03	-6.68e-03	-6.21e-02
## 3677	-1.25e-02	-9.27e-03	9.40e-03	-2.00e-05	-1.96e-02	-1.34e-05	-3.89e-02
## 3678	-4.85e-03	-3.07e-03	-5.03e-03	5.14e-03	-5.21e-03	2.44e-03	-2.67e-02
## 3679	1.53e-02	-9.83e-03	-6.62e-03	-4.99e-03	1.24e-02	5.55e-03	4.86e-02
## 3680	5.98e-03	-1.68e-03	-4.05e-03	-5.19e-03	9.61e-04	-2.84e-03	2.26e-02
## 3681	-1.31e-02	-4.51e-03	7.56e-03	-1.64e-02	-1.62e-02	1.88e-03	-4.31e-02
## 3682	1.29e-02	-1.53e-02	-3.37e-02	3.32e-02	-3.54e-02	2.38e-02	-1.04e-01
## 3683	-7.84e-03	-1.84e-02	2.62e-02	-1.92e-02	1.10e-03	1.67e-03	5.79e-02
## 3684	-1.07e-02	-1.03e-02	5.95e-03	-7.49e-04	-1.42e-02	1.26e-04	-4.03e-02
## 3685	2.32e-02	1.63e-02	1.15e-02	1.30e-02	1.96e-02	1.14e-02	-9.14e-02
## 3686	6.40e-03	3.18e-03	8.91e-03	-8.52e-03	-4.94e-03	5.49e-04	3.04e-02
## 3687	1.18e-02	-3.50e-03	-1.09e-02	-2.67e-02	-2.14e-02	-9.98e-03	7.98e-02
## 3688	5.85e-03	2.29e-03	7.26e-03	-8.43e-03	-3.10e-03	2.60e-05	2.75e-02
## 3689	-4.77e-03	-2.52e-02	2.40e-02	-8.70e-04	-4.63e-03	-4.37e-02	-1.26e-01
## 3690	-1.54e-02	-1.33e-02	-4.30e-03	9.19e-03	4.96e-03	-9.80e-03	6.51e-02
## 3691	-7.83e-03	6.53e-03	2.24e-02	-1.92e-03	1.56e-02	-1.06e-02	-9.32e-02
## 3692	2.04e-02	-1.37e-02	2.05e-02	6.07e-03	1.39e-02	-2.64e-03	5.89e-02
## 3693	1.15e-02	-1.34e-02	-4.54e-03	7.87e-03	2.26e-03	3.48e-03	3.99e-02
## 3694	-6.60e-03	5.22e-04	4.72e-03	-5.74e-03	-1.53e-03	-1.87e-03	1.91e-02
## 3695	1.33e-02	4.24e-02	4.07e-02	2.63e-03	4.38e-02	-1.37e-02	-1.08e-01
## 3696	1.11e-05	2.99e-03	8.86e-04	3.16e-04	-9.18e-04	5.89e-04	6.63e-03
## 3697	-1.22e-02	8.12e-05	8.72e-03	-5.83e-03	-1.16e-02	6.70e-03	-6.30e-02
## 3698	-5.86e-04	2.01e-03	1.65e-03	2.28e-03	-3.03e-03	3.97e-03	1.21e-02
## 3699	-8.68e-04	6.28e-04	6.69e-04	-1.69e-05	1.03e-03	-1.04e-04	-3.18e-03
## 3700	-3.69e-03	-2.25e-03	-3.74e-03	-4.58e-04	-3.08e-03	1.08e-03	-1.77e-02
## 3701	1.91e-02	-1.18e-02	-9.61e-03	2.10e-02	1.46e-02	-8.00e-03	6.52e-02
## 3702	2.49e-04	1.77e-04	-2.38e-03	4.48e-03	-3.64e-03	8.11e-03	-1.67e-02
## 3703	1.82e-04	6.70e-03	1.06e-03	2.04e-03	-1.30e-03	3.01e-03	1.04e-02
## 3704	3.59e-03	4.55e-03	1.71e-02	1.24e-02	-7.59e-03	8.88e-03	5.38e-02
## 3705	-4.85e-04	1.82e-03	1.67e-03	2.50e-03	-3.01e-03	3.82e-03	1.14e-02
## 3706	-6.60e-04	-2.34e-04	-3.28e-04	-3.80e-04	-3.63e-04	-1.77e-05	1.54e-03
## 3707	1.74e-03	-4.72e-04	1.61e-03	8.22e-04	2.20e-04	-5.92e-04	6.40e-03
## 3708	2.34e-02	1.43e-02	6.31e-03	-1.21e-02	-1.08e-02	-7.56e-03	-8.22e-02
## 3709	-3.50e-03	-3.72e-03	5.46e-03	3.71e-03	-7.82e-04	1.67e-03	-1.91e-02
## 3710	-3.26e-02	8.00e-03	-9.29e-03	3.59e-03	1.71e-02	-6.22e-03	8.15e-02
## 3711	9.57e-03	-1.41e-03	1.84e-03	-3.47e-03	-8.09e-03	1.62e-02	-4.24e-02
## 3712	3.08e-03	-7.40e-03	8.19e-03	-1.13e-02	-3.03e-03	6.90e-04	2.99e-02
## 3713	-7.80e-03	-1.87e-02	-3.85e-03	9.43e-03	-2.37e-03	7.09e-03	5.13e-02
## 3714	-4.37e-04	-9.24e-05	9.64e-04	-1.45e-03	-1.29e-03	3.14e-04	4.44e-03
## 3715	1.33e-03	-5.20e-03	3.19e-03	-1.31e-03	-1.23e-03	-2.05e-04	1.33e-02
## 3716	9.63e-03	2.05e-02	-1.86e-02	-1.52e-02	4.32e-02	-3.68e-02	-8.91e-02
## 3717	2.20e-03	1.32e-03	3.01e-03	-5.47e-03	2.29e-03	-4.19e-04	1.68e-02
## 3718	-1.62e-03	-6.92e-03	2.97e-03	3.82e-03	-4.77e-03	2.16e-03	1.50e-02
## 3719	1.73e-04	8.53e-04	-4.43e-04	6.76e-04	1.10e-04	9.35e-04	-2.33e-03

## 3720	-1.28e-02	-9.28e-03	8.57e-03	-1.31e-02	-2.13e-02	1.32e-03	-3.98e-02
## 3721	2.16e-02	6.39e-03	6.87e-03	9.87e-03	-1.28e-02	1.18e-02	-6.29e-02
## 3722	7.08e-03	-3.13e-03	1.87e-03	-1.46e-03	-7.90e-03	1.11e-02	-2.77e-02
## 3723	1.37e-03	1.53e-03	1.01e-03	1.28e-03	2.59e-03	-1.04e-04	-5.10e-03
## 3724	5.24e-05	-4.88e-04	1.19e-03	1.63e-04	-2.45e-04	1.28e-03	-3.12e-03
## 3725	1.01e-02	3.46e-02	4.12e-03	2.96e-03	1.58e-02	-1.48e-02	-8.26e-02
## 3726	1.84e-02	1.29e-02	-1.32e-02	3.72e-04	2.89e-02	-5.53e-05	5.60e-02
## 3727	8.83e-03	1.17e-02	-6.84e-03	-8.33e-03	-1.18e-03	-3.46e-03	3.05e-02
## 3728	2.49e-03	5.11e-03	1.85e-03	-3.95e-03	3.07e-03	8.77e-04	1.34e-02
## 3729	4.64e-04	4.81e-03	-1.45e-03	-3.47e-03	-2.80e-03	7.02e-03	1.77e-02
## 3730	3.42e-02	1.20e-02	-9.51e-03	4.19e-03	2.32e-02	-2.14e-02	9.59e-02
## 3731	-1.14e-03	4.96e-03	-8.16e-03	-1.17e-02	-9.06e-03	7.55e-03	2.18e-02
## 3732	-4.63e-03	-6.25e-03	1.60e-02	-1.84e-02	1.64e-02	-1.14e-02	-6.73e-02
## 3733	-1.19e-02	-1.60e-02	1.71e-02	4.26e-03	-4.30e-03	-4.43e-03	5.51e-02
## 3734	-1.12e-03	8.28e-04	2.93e-03	1.80e-04	-4.59e-03	7.06e-04	1.39e-02
## 3735	1.98e-02	9.44e-03	-1.33e-02	1.81e-03	3.37e-02	-6.28e-04	6.90e-02
## 3736	7.88e-04	-1.37e-03	1.50e-03	-1.02e-04	-3.63e-04	-2.79e-03	-7.48e-03
## 3737	1.91e-02	-1.67e-02	-5.11e-03	7.08e-03	3.57e-03	-8.56e-03	4.73e-02
## 3738	-3.31e-03	7.58e-03	-2.33e-02	2.98e-03	6.02e-03	-1.37e-02	-9.98e-02
## 3739	1.31e-02	1.59e-02	1.58e-02	-1.76e-02	2.14e-02	1.44e-03	4.71e-02
## 3740	1.24e-02	-2.37e-03	3.94e-03	-1.74e-03	-1.21e-02	1.79e-02	-4.68e-02
## 3741	-1.28e-02	-8.68e-03	9.10e-03	-1.10e-03	-1.88e-02	-1.93e-04	-4.70e-02
## 3742	1.84e-03	-4.16e-03	-1.11e-02	1.28e-02	-9.81e-03	-4.41e-03	5.63e-02
## 3743	-3.70e-04	5.65e-04	5.41e-04	-1.42e-04	-1.57e-04	-1.48e-04	1.96e-03
## 3744	7.02e-03	-3.84e-03	1.23e-03	-9.22e-04	-3.31e-03	9.14e-03	-2.64e-02
## 3745	-1.45e-02	8.58e-03	-1.06e-02	3.70e-03	-1.11e-02	-1.43e-02	6.09e-02
## 3746	-2.45e-03	-1.63e-02	-2.73e-03	-7.49e-03	-5.62e-03	6.07e-03	3.15e-02
## 3747	-1.91e-03	-2.19e-03	2.73e-03	-1.65e-03	-7.99e-04	9.87e-04	-8.62e-03
## 3748	7.72e-03	-1.16e-03	1.23e-02	8.44e-03	-1.04e-03	1.45e-02	5.16e-02
## 3749	-2.48e-03	-4.66e-03	4.24e-03	3.26e-03	-1.07e-02	9.09e-03	2.14e-02
## 3750	-1.10e-02	-7.72e-03	6.68e-03	-1.39e-03	-1.52e-02	3.68e-03	-3.68e-02
## 3751	-1.15e-02	-1.07e-02	1.85e-02	-1.43e-02	1.15e-02	-3.48e-02	-8.15e-02
## 3752	-2.53e-03	3.18e-03	2.06e-03	-6.59e-04	8.31e-04	-1.03e-04	9.33e-03
## 3753	1.13e-03	-5.92e-04	9.76e-03	-1.91e-02	-5.16e-03	6.37e-03	3.81e-02
## 3754	-1.87e-02	-1.56e-03	5.11e-03	8.78e-03	-9.16e-03	1.29e-02	-4.69e-02
## 3755	2.01e-02	6.46e-03	-1.36e-02	-1.67e-02	2.31e-02	-7.14e-03	6.86e-02
## 3756	9.23e-04	-8.49e-04	9.32e-04	-1.19e-04	1.60e-03	-3.30e-04	-4.27e-03
## 3757	2.69e-03	-7.46e-04	-1.15e-02	2.01e-03	-1.36e-02	7.50e-03	4.64e-02
## 3758	-1.85e-02	-5.32e-03	5.86e-03	-1.31e-03	-1.59e-02	7.02e-03	-4.72e-02
## 3759	-1.30e-03	4.11e-03	3.96e-03	-8.59e-04	-7.79e-03	4.64e-03	2.09e-02
## 3760	-3.45e-03	-6.95e-03	6.45e-03	5.60e-03	-1.50e-02	7.61e-03	3.13e-02
## 3761	-5.86e-03	-2.68e-03	2.09e-02	-3.87e-04	2.08e-02	-8.16e-04	-9.51e-02
## 3762	3.13e-04	9.39e-04	-7.05e-04	2.38e-05	-2.93e-04	2.32e-03	4.52e-03
## 3763	1.05e-02	-1.22e-02	-4.43e-03	-1.38e-03	4.18e-03	3.93e-03	4.06e-02
## 3764	-2.40e-03	-1.21e-02	-6.87e-03	2.18e-03	-7.43e-03	-3.40e-03	2.25e-02
## 3765	5.13e-05	-1.26e-03	-1.30e-03	2.65e-03	-8.95e-04	2.76e-03	-8.22e-03
## 3766	-1.74e-02	-6.40e-03	6.05e-03	-1.89e-04	-1.51e-02	6.82e-03	-4.05e-02
## 3767	1.22e-02	-1.48e-03	6.00e-03	-1.49e-03	-1.48e-02	2.04e-02	-5.54e-02
## 3768	-1.35e-02	-7.96e-03	-2.34e-02	-1.52e-02	3.67e-03	-3.68e-02	-8.89e-02
## 3769	-9.42e-03	4.65e-04	-4.97e-03	6.61e-03	-1.36e-02	-1.78e-03	4.00e-02

## 3770	9.18e-03	1.38e-02	3.08e-03	-9.21e-03	8.78e-03	-4.32e-03	-6.06e-02
## 3771	9.98e-03	5.07e-03	-7.01e-03	1.27e-02	-1.29e-03	1.27e-03	3.79e-02
## 3772	6.75e-05	-1.69e-03	-1.10e-03	3.08e-03	-5.35e-04	1.48e-03	-7.27e-03
## 3773	2.70e-03	2.43e-03	1.66e-02	-2.60e-02	-1.05e-02	1.04e-02	5.45e-02
## 3774	-5.68e-02	-2.06e-02	-4.13e-02	-4.27e-04	2.77e-02	6.58e-03	-1.82e-01
## 3775	-8.96e-04	-9.35e-04	1.01e-03	8.71e-05	-3.50e-04	-2.58e-05	-3.60e-03
## 3776	-5.26e-04	-1.06e-04	1.32e-03	2.37e-03	-1.19e-03	-1.44e-04	6.45e-03
## 3777	3.09e-02	5.56e-04	-9.10e-03	4.74e-03	2.10e-02	-1.13e-02	8.51e-02
## 3778	-3.32e-03	-1.77e-02	-1.83e-03	8.93e-03	-8.40e-03	1.18e-02	4.10e-02
## 3779	7.58e-03	8.53e-03	2.15e-03	-7.48e-03	1.53e-03	3.81e-03	-5.05e-02
## 3780	1.36e-02	-2.25e-03	3.94e-03	-3.23e-03	-5.22e-03	1.08e-02	-4.46e-02
## 3781	1.64e-02	-6.06e-03	-8.59e-03	-2.42e-02	1.74e-02	2.20e-03	6.10e-02
## 3782	-3.43e-03	-1.67e-02	-2.61e-03	6.48e-03	3.38e-04	1.18e-02	4.47e-02
## 3783	-7.61e-04	-3.88e-02	-4.44e-02	3.87e-02	-2.58e-02	-2.24e-02	-1.44e-01
## 3784	-2.28e-03	-5.87e-03	3.84e-03	3.67e-03	-8.32e-03	5.49e-03	1.79e-02
## 3785	6.09e-03	-2.86e-02	-1.60e-02	4.04e-02	4.18e-02	-4.82e-02	-1.06e-01
## 3786	1.76e-02	9.48e-03	-1.26e-02	1.23e-03	2.61e-02	1.52e-03	5.26e-02
## 3787	9.89e-03	2.34e-03	2.34e-03	-5.08e-03	-6.87e-03	2.58e-03	-4.96e-02
## 3788	-2.21e-03	-6.10e-03	4.13e-03	4.02e-03	-8.52e-03	5.83e-03	1.86e-02
## 3789	4.11e-03	-8.42e-04	-1.18e-02	1.28e-02	-9.34e-03	-2.25e-03	5.42e-02
## 3790	3.20e-02	4.39e-03	-9.12e-03	3.45e-03	2.76e-02	-9.03e-03	6.87e-02
## 3791	-4.31e-03	1.42e-03	1.72e-02	-3.92e-03	1.99e-02	-1.00e-02	-7.11e-02
## 3792	-8.44e-03	7.09e-04	-6.58e-03	4.92e-03	-1.05e-02	-9.59e-04	3.24e-02
## 3793	-8.48e-03	-1.90e-02	-3.56e-03	8.55e-03	2.38e-03	1.78e-03	5.77e-02
## 3794	-1.32e-02	5.05e-02	-3.17e-02	1.41e-02	1.68e-02	1.91e-02	-1.29e-01
## 3795	1.48e-03	8.16e-04	-7.67e-04	3.50e-05	1.03e-03	7.17e-04	3.98e-03
## 3796	-1.42e-02	2.09e-03	6.04e-03	-6.29e-03	-1.32e-02	1.46e-02	-7.08e-02
## 3797	-2.49e-03	-4.66e-03	4.22e-03	3.25e-03	-1.07e-02	9.09e-03	2.14e-02
## 3798	-6.41e-02	-4.89e-02	1.70e-02	-2.61e-02	-2.56e-02	-2.06e-02	-1.33e-01
## 3799	1.46e-02	4.25e-03	2.84e-02	2.96e-03	2.66e-02	-1.37e-02	6.82e-02
## 3800	-1.07e-02	-1.05e-02	6.08e-03	-3.99e-04	-1.48e-02	6.39e-04	-4.04e-02
## 3801	1.46e-02	4.65e-03	-8.41e-03	5.10e-03	1.55e-02	-3.59e-03	6.68e-02
## 3802	1.04e-02	7.41e-03	3.85e-03	-6.63e-03	-3.06e-03	1.78e-02	-5.51e-02
## 3803	-2.07e-03	-5.59e-03	3.37e-03	3.25e-03	-8.61e-03	7.51e-03	2.02e-02
## 3804	-9.87e-06	-3.39e-05	2.72e-05	-1.97e-05	-3.32e-06	-4.23e-05	1.28e-04
## 3805	3.01e-03	4.82e-04	1.16e-02	-1.52e-03	-3.89e-03	1.18e-02	4.06e-02
## 3806	1.89e-03	-3.37e-03	-1.14e-02	9.12e-03	-4.68e-03	-8.78e-04	3.80e-02
## 3807	-1.07e-03	2.42e-03	-6.44e-03	-8.71e-03	-6.37e-03	3.94e-03	1.59e-02
## 3808	6.46e-04	7.75e-03	-2.88e-03	4.85e-03	2.87e-04	8.85e-03	2.18e-02
## 3809	2.67e-03	-1.44e-03	3.25e-03	-3.48e-04	5.33e-03	-8.45e-04	-1.23e-02
## 3810	-1.06e-02	-7.58e-03	6.83e-03	-1.54e-03	-1.39e-02	3.36e-03	-3.65e-02
## 3811	-5.07e-03	5.31e-03	-3.18e-03	-3.44e-03	-3.32e-03	-2.05e-04	1.66e-02
## 3812	-1.44e-05	-8.20e-04	-5.28e-04	-1.52e-03	-6.16e-04	1.23e-03	-3.66e-03
## 3813	-8.24e-04	6.33e-03	-2.60e-03	-3.25e-04	8.54e-04	3.98e-03	1.77e-02
## 3814	4.22e-03	2.24e-03	-6.38e-03	-7.82e-03	3.65e-03	-1.08e-03	2.80e-02
## 3815	-1.92e-03	-1.16e-02	-1.21e-03	-8.78e-06	-7.53e-03	5.91e-03	2.16e-02
## 3816	-8.25e-03	-8.88e-03	4.57e-03	-1.17e-03	-8.22e-03	2.62e-03	-3.57e-02
## 3817	3.30e-02	-4.80e-04	-1.04e-02	2.69e-02	2.29e-02	-4.05e-02	1.07e-01
## 3818	8.80e-03	-1.97e-03	-6.37e-03	5.48e-03	4.96e-03	-8.91e-04	-2.62e-02
## 3819	-3.27e-02	3.14e-03	-1.33e-02	1.41e-02	-1.24e-02	6.03e-03	5.88e-02

##	3820	-1.27e-05	-1.22e-03	-8.69e-04	-2.89e-03	-1.17e-03	2.11e-03	-6.59e-03
##	3821	-6.88e-04	5.26e-03	2.75e-03	3.06e-03	-5.98e-03	7.67e-03	1.74e-02
##	3822	1.39e-04	-8.39e-04	-1.92e-03	3.39e-03	-1.72e-03	5.12e-03	-1.25e-02
##	3823	1.25e-02	1.08e-02	8.32e-04	-1.03e-02	6.27e-03	-2.67e-03	-6.15e-02
##	3824	9.68e-03	-2.95e-03	2.13e-03	-2.07e-03	-7.63e-03	1.78e-02	-4.10e-02
##	3825	2.22e-02	-2.43e-02	1.01e-02	-8.12e-03	-1.38e-02	7.91e-03	-7.75e-02
##	3826	-6.73e-03	-1.37e-03	-3.31e-03	-8.94e-04	-7.77e-03	-1.16e-03	2.31e-02
##	3827	-2.19e-02	-9.56e-03	2.26e-02	-2.65e-02	-1.85e-02	-1.06e-02	7.15e-02
##	3828	3.88e-02	1.43e-02	2.62e-02	3.47e-02	2.53e-02	-6.76e-03	-1.43e-01
##	3829	-3.41e-04	-7.14e-05	1.15e-03	2.16e-03	-1.20e-03	8.22e-04	6.42e-03
##	3830	-3.90e-04	4.32e-04	-5.29e-04	4.22e-04	1.42e-04	9.90e-05	-2.16e-03
##	3831	7.67e-03	-1.99e-02	7.59e-03	-4.15e-03	-2.47e-02	3.60e-02	-7.21e-02
##	3832	-1.22e-02	-1.17e-02	-4.71e-03	-2.87e-02	3.54e-03	-1.14e-02	7.14e-02
##	3833	-1.73e-03	-6.74e-03	3.04e-03	3.73e-03	-5.45e-03	3.02e-03	1.58e-02
##	3834	-2.23e-05	2.44e-04	3.05e-04	-5.30e-05	-5.40e-05	-5.56e-04	1.71e-03
##	3835	1.50e-02	8.66e-03	1.86e-03	-8.54e-03	6.46e-03	5.80e-03	-5.85e-02
##	3836	-1.44e-02	-1.13e-02	3.52e-02	-9.64e-03	1.38e-02	-7.89e-03	7.36e-02
##	3837	-1.26e-02	-9.31e-03	-2.02e-02	-1.30e-02	-2.17e-02	1.90e-03	-5.55e-02
##	3838	2.86e-02	2.65e-03	2.31e-02	1.02e-02	3.35e-02	1.45e-02	-1.06e-01
##	3839	-1.59e-02	-4.82e-03	1.07e-02	-1.36e-03	-1.96e-02	6.95e-03	-5.14e-02
##	3840	3.75e-03	-2.11e-04	-1.18e-02	5.96e-04	-7.47e-03	1.22e-02	4.38e-02
##	3841	-3.02e-03	-6.31e-03	-9.32e-03	-8.19e-03	-1.35e-02	7.29e-03	2.38e-02
##	3842	1.76e-03	2.22e-03	1.29e-02	9.77e-03	-4.61e-03	4.53e-03	4.21e-02
##	3843	3.43e-03	-4.69e-02	1.69e-02	2.76e-02	-2.47e-03	-1.83e-02	-1.12e-01
##	3844	4.57e-04	-5.02e-04	5.31e-04	8.27e-05	3.85e-04	3.24e-04	-1.99e-03
##	3845	-4.86e-06	4.45e-04	-7.00e-04	6.26e-04	4.63e-05	-3.45e-04	1.57e-03
##	3846	-3.29e-03	-4.40e-03	-1.01e-02	-1.69e-02	-1.70e-02	1.21e-02	3.08e-02
##	3847	1.14e-02	-1.18e-02	1.82e-02	-1.49e-02	1.15e-02	4.44e-03	4.49e-02
##	3848	-6.77e-03	-1.71e-02	-2.64e-03	-1.07e-02	-4.03e-03	5.30e-04	4.06e-02
##	3849	1.44e-03	-3.54e-03	2.08e-03	-4.38e-04	-6.63e-04	-6.40e-04	7.53e-03
##	3850	-1.19e-03	-1.73e-02	-1.67e-03	7.30e-03	-6.02e-03	1.03e-02	3.71e-02
##	3851	-2.26e-03	-5.02e-03	4.04e-03	-1.25e-02	-9.67e-03	7.44e-03	2.12e-02
##	3852	-1.81e-03	-8.86e-04	-1.47e-03	-2.15e-03	-2.02e-03	-7.38e-04	6.68e-03
##	3853	1.99e-02	3.97e-03	-4.07e-03	-1.07e-02	1.84e-03	6.22e-03	3.91e-02
##	3854	7.06e-03	-3.60e-03	-1.09e-02	-1.03e-02	-2.64e-03	1.44e-02	5.41e-02
##	3855	-1.49e-03	2.75e-02	-8.38e-03	6.11e-03	2.05e-02	-1.28e-02	6.03e-02
##	3856	3.10e-05	-1.19e-04	-1.22e-03	-3.83e-03	-1.42e-03	4.10e-03	-8.80e-03
##	3857	-1.80e-02	-7.50e-03	-6.49e-03	8.20e-03	5.77e-03	-3.51e-02	8.74e-02
##	3858	1.29e-02	6.94e-03	2.64e-03	-7.18e-03	-4.14e-03	9.14e-03	-5.12e-02
##	3859	-3.44e-03	-6.71e-03	5.22e-03	4.34e-03	-1.42e-02	9.04e-03	3.29e-02
##	3860	1.52e-04	6.55e-03	1.52e-03	3.32e-03	-1.55e-03	1.67e-03	1.34e-02
##	3861	-8.70e-03	2.21e-02	-8.04e-03	-4.22e-03	-5.54e-03	-3.75e-03	4.42e-02
##	3862	-1.71e-02	4.88e-03	1.14e-02	3.06e-02	-2.26e-02	1.16e-03	-7.77e-02
##	3863	-6.70e-03	7.87e-03	-4.25e-03	9.03e-03	2.00e-03	5.14e-03	4.54e-02
##	3864	-3.92e-03	-4.17e-03	-4.18e-03	5.01e-03	-9.68e-04	-3.88e-03	2.52e-02
##	3865	6.75e-03	-1.25e-03	2.36e-03	1.46e-02	-6.92e-03	1.57e-02	-3.73e-02
##	3866	-9.29e-03	-1.57e-02	3.02e-02	4.30e-03	3.34e-02	-3.36e-02	8.91e-02
##	3867	-8.48e-04	-8.96e-04	-6.72e-04	9.54e-04	-1.31e-03	4.31e-04	-4.05e-03
##	3868	3.05e-03	1.27e-03	-1.17e-02	4.07e-04	-1.00e-02	1.18e-02	3.92e-02
##	3869	5.10e-03	-6.96e-03	6.77e-03	-1.44e-02	-4.61e-03	7.85e-03	-8.73e-02

##	3870	-1.84e-02	-3.61e-03	-4.16e-03	7.07e-03	7.39e-03	-1.54e-02	7.06e-02
##	3871	1.94e-02	-1.50e-02	2.17e-02	-6.98e-03	3.69e-03	7.91e-03	-1.08e-01
##	3872	-1.20e-04	-5.17e-04	4.59e-04	6.40e-04	2.14e-04	-1.30e-03	-2.66e-03
##	3873	-6.39e-03	-5.77e-03	-2.47e-02	3.38e-03	7.90e-03	-2.20e-02	-7.06e-02
##	3874	-1.05e-02	2.72e-03	-8.23e-03	-5.08e-03	-9.09e-03	-7.03e-03	4.43e-02
##	3875	-4.52e-03	-3.82e-03	-5.76e-03	5.07e-03	-6.61e-04	9.41e-04	-2.50e-02
##	3876	3.08e-03	3.80e-03	-1.21e-02	-1.31e-02	-1.11e-02	1.37e-02	4.27e-02
##	3877	1.49e-02	1.68e-03	-1.25e-02	4.70e-03	2.09e-02	-9.58e-03	6.66e-02
##	3878	2.98e-02	-9.12e-03	-7.34e-03	7.34e-03	1.54e-02	-1.43e-02	8.04e-02
##	3879	1.96e-02	1.41e-02	-1.22e-02	2.91e-03	2.64e-02	-6.59e-03	6.68e-02
##	3880	-2.49e-03	-1.96e-04	-1.58e-03	-6.19e-03	-5.84e-03	1.27e-02	3.07e-02
##	3881	-1.55e-02	-2.93e-03	-2.67e-02	-2.10e-03	-3.16e-02	8.87e-03	-6.44e-02
##	3882	1.98e-02	-4.60e-03	-2.15e-02	1.25e-02	-2.23e-02	7.56e-03	-5.20e-02
##	3883	-7.05e-04	1.74e-03	1.83e-03	-3.74e-03	-3.62e-03	3.29e-03	9.87e-03
##	3884	-1.55e-03	1.95e-02	1.12e-02	-2.96e-02	2.43e-02	-5.75e-02	-1.24e-01
##	3885	1.99e-03	1.48e-03	4.40e-03	-1.51e-03	-1.08e-04	2.53e-04	1.72e-02
##	3886	-1.93e-03	-6.27e-03	3.42e-03	-4.94e-03	-6.54e-03	3.12e-03	1.45e-02
##	3887	2.42e-03	6.23e-03	-1.13e-02	1.45e-02	-1.37e-02	5.74e-03	6.14e-02
##	3888	2.12e-04	6.75e-04	1.04e-03	1.37e-03	3.30e-04	1.00e-03	3.17e-03
##	3889	1.36e-04	-8.72e-04	-1.02e-03	2.17e-03	-3.29e-05	1.86e-03	-6.28e-03
##	3890	-1.91e-04	-6.22e-04	6.35e-04	1.37e-03	-1.29e-04	-5.47e-04	3.36e-03
##	3891	-9.36e-05	-3.26e-04	3.07e-04	-4.34e-04	1.01e-04	-8.30e-04	-1.73e-03
##	3892	-5.22e-04	-1.46e-03	1.55e-03	-9.07e-04	-1.07e-03	-1.90e-03	6.80e-03
##	3893	-8.03e-03	-1.81e-02	-3.16e-03	9.85e-03	-1.15e-02	1.79e-03	5.19e-02
##	3894	-2.17e-04	-5.44e-04	6.58e-04	1.40e-03	-3.04e-04	-3.32e-04	3.52e-03
##	3895	8.71e-04	4.57e-03	-1.69e-03	-3.39e-03	-7.95e-04	6.22e-03	1.44e-02
##	3896	6.05e-03	1.46e-03	1.16e-02	8.91e-03	-1.26e-03	1.47e-02	5.24e-02
##	3897	9.25e-03	-1.12e-02	-4.26e-03	1.27e-02	8.60e-03	1.51e-03	3.68e-02
##	3898	-1.19e-03	-6.44e-03	2.10e-03	3.33e-03	-1.79e-03	-1.47e-03	1.08e-02
##	3899	-2.29e-02	-2.85e-03	-2.63e-02	2.16e-02	9.12e-03	-2.51e-02	-9.13e-02
##	3900	-2.03e-02	-4.32e-03	-2.18e-02	-6.45e-04	-2.15e-02	7.89e-03	-5.66e-02
##	3901	2.77e-02	-1.33e-02	2.27e-02	1.83e-02	2.39e-02	-1.59e-02	6.89e-02
##	3902	1.49e-04	7.14e-03	-2.52e-03	-4.81e-03	-1.81e-03	4.98e-03	2.09e-02
##	3903	3.39e-05	4.80e-03	8.35e-04	-2.33e-03	-1.43e-03	2.52e-03	7.82e-03
##	3904	9.11e-03	2.25e-02	3.87e-03	-1.31e-02	6.67e-03	-6.01e-03	-6.93e-02
##	3905	-4.22e-03	1.66e-02	-2.67e-02	-3.07e-03	6.02e-03	-5.76e-03	-9.17e-02
##	3906	6.96e-05	9.98e-04	1.58e-03	-8.71e-05	6.90e-04	8.14e-04	4.25e-03
##	3907	1.12e-04	-2.45e-04	-1.51e-03	2.73e-05	-7.86e-04	4.23e-03	-9.06e-03
##	3908	-3.16e-04	-6.04e-04	9.08e-04	1.79e-03	-3.41e-04	-8.36e-04	4.46e-03
##	3909	8.92e-03	2.19e-04	-4.80e-03	-2.61e-04	7.76e-03	2.37e-03	2.56e-02
##	3910	1.73e-02	5.22e-03	2.41e-02	1.70e-02	3.61e-02	-1.48e-03	6.64e-02
##	3911	-1.22e-02	-9.44e-03	-2.13e-02	4.14e-04	-2.02e-02	-7.54e-05	-5.16e-02
##	3912	1.15e-02	5.66e-03	5.69e-03	-4.29e-03	-1.47e-02	6.86e-03	-5.35e-02
##	3913	9.69e-03	-2.03e-03	2.29e-03	1.64e-02	-5.50e-03	1.07e-02	-3.70e-02
##	3914	5.51e-03	3.56e-03	-2.13e-03	2.28e-04	3.19e-03	3.49e-03	1.32e-02
##	3915	2.47e-03	-8.00e-03	9.02e-03	1.11e-02	-4.21e-03	-7.64e-03	3.91e-02
##	3916	-7.64e-03	-2.00e-02	-5.83e-04	-7.22e-04	-9.15e-03	1.57e-02	5.85e-02
##	3917	1.64e-02	-6.49e-03	6.23e-03	-1.13e-02	-1.70e-02	8.09e-03	-4.05e-02
##	3918	2.32e-02	-1.28e-02	1.36e-02	-3.67e-02	-1.89e-02	-1.55e-02	-9.36e-02
##	3919	-1.10e-02	1.56e-03	8.12e-03	9.79e-03	-1.25e-03	-3.16e-03	3.04e-02

##	3920	7.69e-03	-2.51e-03	1.28e-02	1.08e-02	-1.10e-03	3.58e-03	5.30e-02
##	3921	1.05e-02	1.76e-02	3.62e-02	3.35e-02	5.61e-02	-3.70e-02	-1.09e-01
##	3922	-1.19e-02	-7.74e-03	-7.07e-03	-1.18e-02	1.51e-02	-1.70e-02	7.76e-02
##	3923	2.23e-03	8.11e-04	-4.20e-03	-5.04e-03	4.10e-04	1.05e-03	1.73e-02
##	3924	-1.18e-04	-3.45e-03	-2.24e-03	3.44e-03	-8.82e-04	4.81e-03	1.52e-02
##	3925	-1.60e-02	-9.34e-03	-6.80e-03	1.02e-02	-5.26e-03	-6.70e-03	3.59e-02
##	3926	-1.04e-02	-6.38e-03	5.48e-03	-1.88e-03	-7.59e-03	7.79e-03	-4.40e-02
##	3927	-2.20e-03	-5.48e-03	3.66e-03	-6.49e-03	-8.45e-03	5.68e-03	1.71e-02
##	3928	4.08e-03	5.27e-03	4.85e-03	5.76e-03	4.38e-03	3.36e-04	2.97e-02
##	3929	1.10e-04	-2.88e-04	-1.87e-03	9.13e-05	-2.63e-03	6.45e-03	-1.26e-02
##	3930	-1.95e-02	-9.62e-03	-9.71e-03	-1.65e-02	-9.55e-03	-8.20e-03	4.52e-02
##	3931	-3.14e-03	-5.30e-03	-1.03e-02	-9.62e-03	-1.60e-02	1.07e-02	2.75e-02
##	3932	2.10e-03	-1.50e-04	1.03e-02	9.14e-03	-1.84e-03	4.49e-03	3.73e-02
##	3933	2.16e-02	-2.24e-03	-2.16e-02	-8.38e-06	-2.53e-02	7.66e-03	-6.18e-02
##	3934	7.11e-03	-2.03e-03	-1.06e-02	-2.24e-02	-4.92e-03	1.40e-02	5.38e-02
##	3935	-2.59e-03	-6.17e-03	-8.56e-03	-1.33e-02	-1.24e-02	8.34e-03	2.62e-02
##	3936	-4.12e-03	-8.02e-03	2.09e-02	2.70e-03	2.00e-02	-2.37e-02	-6.75e-02
##	3937	2.68e-03	5.55e-03	1.62e-02	-2.03e-03	-1.11e-02	1.46e-02	5.40e-02
##	3938	-5.01e-04	2.04e-03	1.85e-03	2.76e-03	-3.31e-03	4.19e-03	1.24e-02
##	3939	-1.43e-02	1.08e-02	-2.40e-02	-2.08e-02	-3.60e-04	-1.85e-02	-1.16e-01
##	3940	2.45e-02	2.59e-02	-2.68e-02	-2.26e-02	8.00e-03	1.96e-02	-1.12e-01
##	3941	3.26e-03	-3.61e-03	9.05e-03	-8.72e-03	-3.68e-03	4.22e-04	3.73e-02
##	3942	-2.68e-03	-7.03e-05	1.29e-02	-9.40e-03	7.49e-03	9.05e-03	3.61e-02
##	3943	2.23e-03	-6.59e-03	1.05e-02	1.13e-02	-8.59e-04	-6.13e-04	4.32e-02
##	3944	1.05e-02	1.39e-02	1.29e-03	-1.07e-02	5.06e-03	-1.23e-02	-6.65e-02
##	3945	-8.06e-03	-2.20e-03	-5.00e-03	-9.89e-03	2.29e-03	9.96e-04	-2.28e-02
##	3946	4.23e-04	2.53e-03	-1.20e-03	8.91e-05	-7.71e-04	4.14e-03	9.51e-03
##	3947	-1.62e-02	-4.06e-03	-2.23e-02	-1.83e-03	-2.06e-02	6.21e-03	-6.29e-02
##	3948	-2.21e-02	2.44e-03	-3.59e-03	8.62e-03	6.77e-03	-2.02e-02	9.20e-02
##	3949	-1.76e-02	-1.11e-02	-8.62e-03	4.97e-03	-9.02e-03	1.33e-03	6.95e-02
##	3950	8.18e-03	-1.59e-04	2.51e-03	-3.23e-03	-7.54e-03	2.30e-02	-4.47e-02
##	3951	1.87e-03	1.30e-02	1.21e-02	6.75e-03	6.93e-03	1.00e-02	3.47e-02
##	3952	-1.42e-02	-2.28e-03	8.07e-03	2.50e-02	-1.17e-02	-3.08e-03	-5.72e-02
##	3953	-6.36e-03	-7.45e-04	-3.59e-03	-4.53e-03	-2.34e-03	8.65e-04	1.96e-02
##	3954	1.22e-02	-3.13e-03	1.57e-02	-5.92e-04	-1.02e-02	4.97e-04	5.44e-02
##	3955	6.63e-03	3.74e-03	-1.21e-02	1.27e-02	-6.72e-03	1.29e-02	5.94e-02
##	3956	1.41e-02	-4.97e-03	2.99e-03	-2.44e-03	-5.36e-03	5.75e-03	-3.78e-02
##	3957	1.27e-04	-6.65e-04	-1.96e-03	4.13e-04	-2.35e-03	5.77e-03	-1.28e-02
##	3958	1.05e-04	2.44e-04	5.06e-04	-4.23e-06	2.11e-04	5.96e-04	1.57e-03
##	3959	-3.02e-03	8.59e-03	-3.05e-03	1.10e-02	-4.89e-03	9.44e-03	4.97e-02
##	3960	5.98e-05	-4.37e-04	3.41e-04	6.60e-06	9.07e-05	-9.52e-04	-2.15e-03
##	3961	-4.40e-04	-4.29e-04	1.37e-03	2.64e-03	-1.04e-03	-5.07e-04	7.35e-03
##	3962	1.42e-04	-3.43e-05	-2.28e-03	3.36e-03	-2.87e-03	7.42e-03	-1.52e-02
##	3963	1.77e-02	8.97e-03	-1.33e-02	-1.77e-02	2.85e-02	1.27e-03	6.79e-02
##	3964	-4.16e-04	-1.12e-04	2.16e-04	-9.32e-05	-4.05e-06	-2.40e-05	9.55e-04
##	3965	4.77e-04	-5.98e-02	-1.76e-02	2.62e-02	2.23e-02	-1.35e-02	-1.19e-01
##	3966	1.10e-03	-7.00e-03	-4.73e-03	-6.67e-03	-2.48e-03	7.09e-05	2.13e-02
##	3967	-4.15e-03	-3.26e-03	-5.30e-03	-1.72e-03	-1.14e-03	-3.47e-03	2.54e-02
##	3968	-8.64e-03	6.91e-04	8.77e-03	1.11e-02	-6.05e-03	-4.42e-03	3.46e-02
##	3969	1.71e-02	-1.72e-03	3.09e-03	6.88e-03	-5.33e-03	2.35e-03	-4.49e-02

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## 3970 -1.18e-02 -8.14e-03 1.80e-02 2.27e-03 1.21e-02 -3.43e-02 -8.08e-02
## 3971 8.76e-05 1.47e-03 -1.02e-03 -6.31e-05 6.87e-04 9.37e-04 5.47e-03
## 3972 -1.97e-02 4.41e-03 3.84e-02 2.24e-02 3.84e-02 -2.87e-02 8.93e-02
## 3973 2.97e-05 -1.73e-04 7.31e-04 4.10e-05 -2.04e-05 8.10e-04 -1.95e-03
## 3974 1.03e-02 8.95e-03 3.75e-03 -6.98e-03 -3.13e-03 1.52e-02 -5.30e-02
## 3975 -3.43e-02 8.21e-03 4.07e-02 4.38e-03 2.38e-02 -1.53e-02 9.66e-02
## 3976 1.77e-04 -1.59e-05 -1.30e-03 -4.08e-03 -1.67e-03 4.86e-03 -1.10e-02
## 3977 -1.14e-02 -1.04e-02 1.85e-02 3.97e-03 1.37e-02 -3.69e-02 -8.17e-02
## 3978 1.38e-04 2.59e-04 -2.05e-03 2.90e-03 -1.29e-03 5.50e-03 -1.23e-02
## 3979 -3.19e-04 -2.52e-03 -8.85e-03 -1.69e-02 -1.18e-02 -1.23e-03 4.91e-02
## 3980 -1.90e-03 -1.12e-03 -1.13e-03 -1.92e-03 -1.46e-03 -6.92e-04 -4.85e-03
## 3981 -1.28e-02 -5.35e-03 6.77e-03 -3.15e-03 -1.63e-02 2.30e-03 -3.92e-02
## 3982 2.06e-03 -8.07e-04 -1.47e-03 -3.20e-04 -1.82e-03 -8.73e-04 6.60e-03
## 3983 -2.53e-02 -4.05e-03 -1.31e-02 -3.53e-04 -7.59e-03 8.91e-03 6.67e-02
## 3984 -1.66e-02 1.34e-03 -6.78e-03 4.68e-03 2.54e-02 -1.51e-02 7.27e-02
## 3985 2.10e-02 6.29e-04 5.71e-03 -3.19e-03 -1.41e-02 2.46e-02 -6.21e-02
## 3986 1.41e-03 -1.47e-03 -2.01e-03 -3.32e-03 1.67e-03 -6.36e-04 -8.32e-03
## 3987 -5.21e-03 -3.74e-03 -5.61e-03 -6.13e-03 -2.08e-03 -7.94e-04 -2.91e-02
## 3988 8.97e-03 -1.50e-02 2.76e-03 2.64e-03 3.57e-03 -1.58e-02 -7.67e-02
## 3989 -1.97e-02 1.50e-02 1.68e-02 3.43e-02 -2.91e-02 -1.43e-03 -9.95e-02
## 3990 9.23e-05 3.19e-03 7.04e-04 1.60e-03 -1.74e-04 5.88e-04 5.49e-03
## 3991 -1.96e-03 1.84e-03 -1.14e-03 1.23e-04 7.39e-05 4.23e-06 6.40e-03
## 3992 3.54e-04 -4.09e-03 2.57e-03 3.64e-03 4.54e-06 -1.26e-03 1.10e-02
## 3993 -1.08e-02 -9.96e-03 6.47e-03 -8.17e-04 -1.34e-02 -5.37e-04 -4.16e-02
## 3994 -9.85e-03 -1.43e-02 -2.94e-03 1.10e-02 -7.98e-03 3.85e-03 6.96e-02
## 3995 -2.74e-04 1.42e-02 -4.77e-03 -9.63e-03 4.84e-03 7.54e-04 3.35e-02
## 3996 -7.92e-03 -1.78e-03 5.22e-03 4.14e-03 4.30e-03 -5.53e-04 -1.97e-02
## 3997 1.49e-05 5.66e-04 1.96e-04 5.11e-04 9.40e-05 -1.65e-04 1.34e-03
## 3998 -4.53e-03 -2.70e-03 6.28e-03 4.01e-03 2.75e-03 2.51e-03 -2.19e-02
## 3999 1.16e-02 1.26e-02 3.27e-02 -1.45e-02 5.67e-02 -2.76e-02 -9.76e-02
##      cov.r   cook.d     hat inf
## 1      1.003 2.41e-04 0.00382
## 2      1.005 1.41e-05 0.00278
## 3      0.996 4.16e-04 0.00255
## 4      1.007 5.18e-06 0.00377
## 5      1.001 7.54e-05 0.00132
## 6      1.004 6.40e-05 0.00226
## 7      1.000 2.91e-04 0.00300
## 8      1.004 1.08e-04 0.00314
## 9      1.001 2.12e-04 0.00255
## 10     1.006 7.80e-06 0.00368
## 11     1.004 7.10e-05 0.00251
## 12     1.005 1.29e-06 0.00220
## 13     1.004 7.12e-05 0.00249
## 14     0.997 3.03e-04 0.00226
## 15     1.002 1.96e-04 0.00305
## 16     1.005 2.60e-06 0.00240
## 17     1.005 2.88e-07 0.00217
## 18     1.007 4.66e-06 0.00452
## 19     0.994 6.71e-04 0.00315

```

## 20	1.000	2.47e-04	0.00269
## 21	1.003	3.19e-04	0.00417
## 22	1.005	8.57e-06	0.00258
## 23	0.992	4.10e-04	0.00178
## 24	1.006	6.10e-07	0.00332
## 25	1.006	2.12e-06	0.00320
## 26	1.005	3.57e-05	0.00272
## 27	0.998	2.94e-04	0.00235
## 28	0.998	5.74e-04	0.00377
## 29	1.005	6.21e-06	0.00203
## 30	0.999	3.96e-04	0.00331
## 31	1.007	1.29e-06	0.00366
## 32	0.995	6.74e-04	0.00340
## 33	1.006	1.20e-06	0.00287
## 34	1.005	2.66e-05	0.00264
## 35	1.003	1.76e-04	0.00333
## 36	1.007	7.77e-06	0.00374
## 37	1.000	8.13e-05	0.00127
## 38	1.003	1.07e-04	0.00278
## 39	1.000	1.57e-04	0.00195
## 40	1.003	9.84e-05	0.00252
## 41	1.005	5.75e-05	0.00299
## 42	1.006	1.80e-06	0.00339
## 43	1.004	4.22e-06	0.00154
## 44	1.006	3.47e-06	0.00280
## 45	1.005	1.64e-04	0.00409
## 46	1.002	1.68e-04	0.00251
## 47	1.003	8.57e-05	0.00224
## 48	1.002	7.87e-05	0.00188
## 49	1.006	5.27e-06	0.00309
## 50	1.006	1.13e-05	0.00294
## 51	1.001	2.26e-04	0.00272
## 52	1.002	2.45e-04	0.00319
## 53	1.005	1.64e-04	0.00442
## 54	1.003	1.25e-04	0.00285
## 55	1.007	6.30e-07	0.00399
## 56	1.003	6.26e-05	0.00209
## 57	1.005	5.03e-05	0.00297
## 58	1.005	4.10e-05	0.00305
## 59	1.005	6.57e-07	0.00202
## 60	1.006	1.72e-05	0.00346
## 61	1.001	1.62e-04	0.00218
## 62	1.004	1.00e-04	0.00314
## 63	1.007	3.50e-06	0.00449
## 64	1.005	3.85e-05	0.00298
## 65	1.003	9.34e-05	0.00236
## 66	1.002	2.10e-04	0.00314
## 67	1.003	8.67e-05	0.00232
## 68	1.006	2.14e-05	0.00358
## 69	1.005	2.78e-06	0.00188

## 70	1.001	2.45e-04	0.00292	
## 71	1.003	6.76e-05	0.00220	
## 72	1.005	8.50e-07	0.00204	
## 73	1.006	2.12e-05	0.00374	
## 74	1.006	1.10e-07	0.00266	
## 75	1.005	1.33e-04	0.00418	
## 76	1.005	7.18e-05	0.00318	
## 77	1.006	2.64e-05	0.00315	
## 78	1.005	5.25e-05	0.00281	
## 79	1.005	1.62e-04	0.00404	
## 80	1.005	6.40e-06	0.00199	
## 81	1.003	1.27e-04	0.00258	
## 82	1.004	2.22e-04	0.00415	
## 83	1.002	2.16e-04	0.00301	
## 84	1.004	1.05e-04	0.00285	
## 85	1.005	7.20e-08	0.00248	
## 86	0.996	4.25e-04	0.00258	
## 87	1.006	4.76e-05	0.00346	
## 88	1.005	2.63e-06	0.00181	
## 89	1.005	1.65e-07	0.00221	
## 90	1.004	1.69e-04	0.00402	
## 91	1.004	1.26e-04	0.00344	
## 92	1.000	3.37e-04	0.00329	
## 93	1.006	2.49e-06	0.00301	
## 94	1.005	5.41e-05	0.00297	
## 95	1.006	1.45e-05	0.00311	
## 96	1.001	1.66e-04	0.00217	
## 97	1.005	7.53e-06	0.00275	
## 98	0.991	3.83e-04	0.00164	*
## 99	1.005	2.00e-06	0.00205	
## 100	1.002	1.91e-04	0.00285	
## 101	1.004	2.32e-05	0.00177	
## 102	1.005	2.05e-05	0.00224	
## 103	1.004	1.04e-04	0.00327	
## 104	1.007	4.43e-05	0.00508	
## 105	0.989	7.79e-04	0.00266	*
## 106	1.003	1.46e-04	0.00289	
## 107	1.006	2.03e-05	0.00302	
## 108	1.005	4.79e-05	0.00330	
## 109	1.002	1.63e-04	0.00272	
## 110	1.005	1.46e-05	0.00260	
## 111	0.996	5.62e-04	0.00320	
## 112	1.005	4.24e-06	0.00265	
## 113	1.003	1.43e-04	0.00288	
## 114	1.000	1.87e-04	0.00226	
## 115	1.007	1.14e-05	0.00403	
## 116	1.002	3.67e-04	0.00422	
## 117	1.007	2.39e-05	0.00425	
## 118	1.003	1.55e-04	0.00326	
## 119	1.005	1.45e-08	0.00181	

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## 120 1.003 1.74e-04 0.00304
## 121 1.003 7.89e-05 0.00215
## 122 1.004 2.02e-05 0.00164
## 123 1.002 6.85e-05 0.00149
## 124 1.004 6.12e-05 0.00247
## 125 1.004 2.18e-05 0.00209
## 126 1.006 8.17e-05 0.00389
## 127 1.001 1.89e-04 0.00251
## 128 1.006 6.82e-07 0.00322
## 129 1.004 2.26e-05 0.00179
## 130 1.007 5.43e-05 0.00500
## 131 0.996 2.75e-04 0.00187
## 132 0.998 6.89e-04 0.00420
## 133 1.006 8.52e-06 0.00373
## 134 1.001 2.89e-04 0.00321
## 135 0.996 2.61e-04 0.00170
## 136 1.005 4.83e-06 0.00224
## 137 1.002 1.43e-04 0.00248
## 138 1.005 6.18e-06 0.00257
## 139 1.006 6.88e-07 0.00315
## 140 1.003 1.02e-04 0.00254
## 141 1.006 7.55e-06 0.00315
## 142 0.997 5.47e-04 0.00346
## 143 1.005 7.39e-05 0.00311
## 144 1.005 2.16e-05 0.00267
## 145 1.007 6.04e-07 0.00364
## 146 1.006 1.03e-06 0.00316
## 147 1.004 1.23e-05 0.00179
## 148 0.997 2.06e-04 0.00164
## 149 1.006 3.41e-05 0.00378
## 150 1.005 1.14e-04 0.00395
## 151 1.003 1.72e-04 0.00314
## 152 1.004 9.12e-05 0.00265
## 153 1.005 7.63e-06 0.00273
## 154 1.005 1.46e-05 0.00222
## 155 1.004 1.82e-05 0.00208
## 156 1.000 3.02e-04 0.00283
## 157 0.999 2.51e-04 0.00219
## 158 1.004 2.51e-06 0.00141
## 159 1.007 4.40e-05 0.00445
## 160 1.006 1.86e-05 0.00364
## 161 1.004 6.70e-05 0.00285
## 162 1.000 2.92e-04 0.00286
## 163 0.997 1.59e-04 0.00129
## 164 1.006 2.04e-06 0.00348
## 165 1.004 6.86e-06 0.00171
## 166 1.006 6.83e-06 0.00321
## 167 1.001 1.19e-04 0.00186
## 168 1.005 8.32e-06 0.00218
## 169 0.998 8.81e-04 0.00496
```



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## 170 1.004 1.02e-05 0.00179
## 171 1.006 3.49e-05 0.00344
## 172 1.005 1.25e-04 0.00395
## 173 1.006 1.01e-04 0.00474
## 174 0.996 4.51e-04 0.00267
## 175 1.004 1.30e-06 0.00161
## 176 1.005 2.09e-05 0.00257
## 177 1.002 1.00e-04 0.00211
## 178 1.002 3.07e-04 0.00357
## 179 0.999 4.47e-04 0.00331
## 180 1.006 5.53e-07 0.00268
## 181 0.998 5.89e-04 0.00398
## 182 1.002 8.63e-05 0.00185
## 183 1.003 1.60e-04 0.00285
## 184 1.005 2.49e-05 0.00297
## 185 1.000 2.16e-04 0.00241
## 186 1.000 3.99e-04 0.00357
## 187 1.003 7.89e-05 0.00218
## 188 1.004 1.24e-04 0.00328
## 189 1.004 5.60e-06 0.00132
## 190 1.005 4.86e-05 0.00298
## 191 1.006 1.48e-05 0.00300
## 192 1.003 1.99e-04 0.00364
## 193 1.005 1.35e-05 0.00254
## 194 1.006 4.60e-08 0.00321
## 195 1.004 5.87e-06 0.00181
## 196 1.003 2.43e-04 0.00396
## 197 1.006 1.03e-05 0.00319
## 198 1.004 7.09e-05 0.00271
## 199 1.006 2.95e-06 0.00280
## 200 1.005 2.42e-05 0.00229
## 201 1.003 1.77e-04 0.00324
## 202 1.002 1.82e-04 0.00263
## 203 1.006 4.68e-06 0.00350
## 204 1.000 2.67e-04 0.00260
## 205 1.003 8.16e-05 0.00245
## 206 1.004 8.07e-05 0.00295
## 207 1.006 9.14e-06 0.00360
## 208 1.002 1.25e-04 0.00224
## 209 1.001 3.08e-04 0.00330
## 210 1.005 1.29e-05 0.00260
## 211 0.997 2.32e-04 0.00180
## 212 1.003 1.62e-04 0.00299
## 213 1.006 6.71e-06 0.00308
## 214 1.004 9.95e-07 0.00122
## 215 0.999 3.68e-04 0.00295
## 216 1.007 5.49e-05 0.00454
## 217 1.006 2.68e-05 0.00379
## 218 1.007 1.35e-06 0.00397
## 219 1.005 1.49e-07 0.00258
```

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## 220 0.998 2.95e-04 0.00231
## 221 1.001 7.87e-05 0.00129
## 222 1.006 4.35e-06 0.00282
## 223 1.005 2.61e-05 0.00255
## 224 0.996 5.09e-04 0.00287
## 225 1.005 1.76e-05 0.00236
## 226 1.004 1.80e-04 0.00385
## 227 1.005 3.26e-05 0.00292
## 228 0.999 3.81e-04 0.00320
## 229 1.001 2.03e-04 0.00266
## 230 1.006 2.59e-06 0.00281
## 231 1.005 2.26e-05 0.00277
## 232 1.006 4.30e-05 0.00362
## 233 1.003 1.70e-04 0.00305
## 234 1.005 1.06e-05 0.00278
## 235 1.004 2.05e-05 0.00211
## 236 0.999 2.96e-04 0.00266
## 237 1.006 1.34e-04 0.00501
## 238 0.999 1.91e-04 0.00178
## 239 1.004 1.05e-04 0.00281
## 240 1.005 3.09e-06 0.00210
## 241 1.006 7.63e-06 0.00306
## 242 1.006 1.65e-07 0.00321
## 243 1.005 1.10e-05 0.00278
## 244 1.007 4.15e-05 0.00473
## 245 1.003 1.68e-04 0.00339
## 246 1.000 3.03e-04 0.00306
## 247 1.005 6.67e-05 0.00348
## 248 1.001 1.69e-04 0.00232
## 249 0.996 3.28e-04 0.00214
## 250 1.004 8.81e-05 0.00278
## 251 1.005 4.83e-05 0.00315
## 252 1.000 1.73e-04 0.00216
## 253 1.002 4.91e-04 0.00503
## 254 1.006 4.00e-05 0.00361
## 255 1.004 3.03e-05 0.00184
## 256 1.006 2.37e-06 0.00345
## 257 1.005 2.61e-07 0.00230
## 258 1.005 1.94e-05 0.00228
## 259 0.998 3.24e-04 0.00246
## 260 1.005 2.42e-04 0.00466
## 261 1.003 3.08e-04 0.00407
## 262 1.004 8.30e-05 0.00310
## 263 1.003 1.70e-04 0.00299
## 264 1.007 3.35e-05 0.00478
## 265 1.005 4.70e-05 0.00285
## 266 1.005 9.49e-06 0.00259
## 267 1.005 3.55e-09 0.00233
## 268 1.002 4.18e-04 0.00443
## 269 0.983 9.84e-04 0.00251
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*

270 1.006 4.09e-08 0.00300
271 1.003 1.70e-04 0.00309
272 1.006 7.62e-06 0.00305
273 0.998 5.24e-04 0.00369
274 1.000 4.83e-04 0.00413
275 1.001 1.20e-04 0.00172
276 1.003 2.50e-04 0.00367
277 0.997 3.03e-04 0.00224
278 1.005 1.65e-04 0.00450
279 1.002 2.19e-04 0.00333
280 1.004 9.01e-05 0.00271
281 1.004 6.19e-05 0.00245
282 1.003 6.82e-05 0.00207
283 1.005 5.81e-05 0.00300
284 1.007 6.36e-06 0.00466
285 1.001 2.41e-04 0.00302
286 1.000 1.75e-04 0.00204
287 1.003 6.38e-05 0.00175
288 1.001 1.59e-04 0.00219
289 1.002 1.46e-04 0.00238
290 0.996 2.56e-04 0.00174
291 1.001 1.14e-04 0.00192
292 1.006 7.98e-06 0.00296
293 1.005 1.18e-04 0.00396
294 0.995 4.41e-04 0.00236
295 1.004 1.51e-05 0.00159
296 1.004 2.33e-05 0.00177
297 1.007 3.85e-06 0.00446
298 0.998 2.70e-04 0.00217
299 1.004 1.21e-04 0.00320
300 1.001 2.41e-04 0.00294
301 1.004 1.27e-04 0.00304
302 1.005 3.28e-05 0.00248
303 0.999 3.84e-04 0.00325
304 1.006 1.35e-07 0.00344
305 1.003 1.90e-04 0.00313
306 1.005 3.57e-08 0.00227
307 1.001 1.59e-04 0.00211
308 1.006 3.17e-05 0.00355
309 1.001 2.87e-04 0.00341
310 1.006 3.50e-05 0.00359
311 1.005 4.78e-05 0.00289
312 1.003 1.92e-04 0.00319
313 1.005 3.16e-05 0.00277
314 0.997 3.13e-04 0.00226
315 1.002 8.77e-05 0.00183
316 1.005 2.09e-05 0.00277
317 1.006 2.51e-06 0.00315
318 0.988 8.94e-04 0.00281
319 1.002 1.51e-04 0.00258

*

## 320	1.002	2.07e-04	0.00299	
## 321	0.989	1.29e-03	0.00412	*
## 322	1.006	1.19e-06	0.00356	
## 323	1.001	9.29e-05	0.00166	
## 324	1.005	3.75e-05	0.00268	
## 325	1.007	5.45e-08	0.00395	
## 326	1.003	1.04e-04	0.00270	
## 327	1.000	4.32e-04	0.00363	
## 328	1.002	8.50e-05	0.00192	
## 329	1.003	2.97e-04	0.00437	
## 330	0.998	3.52e-04	0.00260	
## 331	1.005	1.33e-06	0.00214	
## 332	1.004	2.16e-05	0.00194	
## 333	1.003	9.74e-05	0.00242	
## 334	1.001	7.31e-05	0.00141	
## 335	1.003	1.52e-04	0.00283	
## 336	0.985	1.22e-03	0.00331	*
## 337	0.997	4.17e-04	0.00279	
## 338	1.005	5.51e-06	0.00240	
## 339	1.001	1.57e-04	0.00221	
## 340	0.996	4.65e-04	0.00264	
## 341	1.006	4.02e-05	0.00405	
## 342	1.005	2.12e-05	0.00223	
## 343	1.007	1.00e-06	0.00387	
## 344	1.006	4.12e-07	0.00292	
## 345	1.005	2.24e-06	0.00219	
## 346	0.995	3.34e-04	0.00200	
## 347	1.003	5.69e-05	0.00193	
## 348	1.006	1.03e-05	0.00296	
## 349	1.001	2.33e-04	0.00301	
## 350	1.007	1.65e-05	0.00430	
## 351	1.006	1.66e-06	0.00329	
## 352	1.005	5.08e-05	0.00276	
## 353	0.995	4.39e-04	0.00237	
## 354	1.003	2.53e-04	0.00390	
## 355	1.001	4.93e-04	0.00429	
## 356	1.002	1.38e-04	0.00230	
## 357	1.003	1.65e-04	0.00316	
## 358	1.006	2.87e-05	0.00315	
## 359	0.997	7.15e-04	0.00406	
## 360	1.004	9.38e-05	0.00281	
## 361	1.005	1.95e-05	0.00220	
## 362	1.005	8.44e-05	0.00344	
## 363	1.006	3.59e-06	0.00325	
## 364	1.005	1.22e-06	0.00232	
## 365	1.002	1.78e-04	0.00264	
## 366	1.003	1.64e-04	0.00326	
## 367	1.005	1.02e-04	0.00358	
## 368	1.004	2.31e-05	0.00184	
## 369	1.004	5.00e-05	0.00260	

```
## 370 1.005 7.43e-07 0.00221
## 371 1.004 8.72e-07 0.00140
## 372 1.003 6.22e-05 0.00209
## 373 1.007 1.65e-05 0.00468
## 374 1.005 3.39e-05 0.00277
## 375 1.001 1.59e-04 0.00225
## 376 1.005 1.96e-05 0.00269
## 377 1.003 1.67e-04 0.00302
## 378 1.001 2.30e-04 0.00296
## 379 1.005 3.51e-06 0.00239
## 380 1.003 2.11e-04 0.00338
## 381 1.005 6.78e-05 0.00340
## 382 0.996 3.42e-04 0.00224
## 383 1.007 5.02e-07 0.00412
## 384 1.004 1.02e-04 0.00304
## 385 1.004 1.13e-04 0.00288
## 386 0.993 6.56e-04 0.00301
## 387 0.997 4.60e-04 0.00309
## 388 1.006 2.26e-05 0.00366
## 389 1.002 1.98e-04 0.00287
## 390 1.003 8.40e-05 0.00235
## 391 0.998 2.42e-04 0.00197
## 392 1.004 2.12e-04 0.00434
## 393 1.001 1.79e-04 0.00256
## 394 1.004 1.20e-05 0.00160
## 395 0.999 2.50e-04 0.00227
## 396 1.005 2.87e-06 0.00216
## 397 1.002 2.65e-04 0.00366
## 398 0.997 2.66e-04 0.00198
## 399 1.004 2.32e-04 0.00422
## 400 1.004 2.66e-06 0.00142
## 401 1.004 1.08e-06 0.00162
## 402 1.004 6.69e-06 0.00160
## 403 0.995 6.83e-04 0.00351
## 404 1.006 1.60e-05 0.00339
## 405 1.005 8.63e-06 0.00240
## 406 1.006 3.45e-06 0.00314
## 407 1.006 3.78e-05 0.00328
## 408 1.001 3.39e-04 0.00347
## 409 0.993 4.16e-04 0.00206
## 410 0.993 4.25e-04 0.00207
## 411 1.004 9.39e-05 0.00268
## 412 1.005 1.02e-05 0.00254
## 413 1.000 1.69e-04 0.00187
## 414 1.005 6.85e-05 0.00321
## 415 1.003 1.64e-04 0.00317
## 416 1.003 1.61e-04 0.00290
## 417 1.006 4.03e-06 0.00324
## 418 1.005 5.45e-06 0.00251
## 419 0.999 3.56e-04 0.00306
```

## 420	1.003	1.55e-04	0.00322
## 421	1.004	7.43e-05	0.00298
## 422	0.999	1.92e-04	0.00180
## 423	1.005	1.54e-04	0.00409
## 424	1.005	2.81e-06	0.00204
## 425	1.006	1.07e-04	0.00430
## 426	1.006	7.36e-05	0.00404
## 427	1.002	1.15e-04	0.00223
## 428	0.999	3.63e-04	0.00288
## 429	0.999	1.94e-04	0.00183
## 430	1.006	7.83e-06	0.00330
## 431	0.989	1.35e-03	0.00428
## 432	1.006	3.29e-06	0.00290
## 433	1.004	6.75e-05	0.00254
## 434	0.996	3.28e-04	0.00215
## 435	1.005	9.41e-07	0.00217
## 436	1.005	1.43e-04	0.00385
## 437	1.005	9.77e-07	0.00194
## 438	1.005	1.24e-06	0.00247
## 439	1.002	2.10e-04	0.00326
## 440	1.004	8.50e-05	0.00271
## 441	1.001	3.97e-04	0.00380
## 442	1.004	1.99e-04	0.00378
## 443	1.004	3.70e-05	0.00240
## 444	1.005	1.27e-04	0.00382
## 445	1.003	1.74e-04	0.00299
## 446	0.996	4.07e-04	0.00258
## 447	1.001	1.20e-04	0.00170
## 448	1.005	4.93e-07	0.00244
## 449	0.997	3.82e-04	0.00267
## 450	1.007	1.27e-05	0.00390
## 451	1.006	4.43e-07	0.00314
## 452	1.006	1.34e-04	0.00442
## 453	1.007	5.04e-05	0.00450
## 454	1.000	2.36e-04	0.00252
## 455	1.006	4.62e-08	0.00291
## 456	0.998	2.57e-04	0.00214
## 457	1.005	7.83e-05	0.00374
## 458	1.006	1.42e-05	0.00365
## 459	1.005	3.08e-05	0.00241
## 460	0.996	2.35e-04	0.00155
## 461	1.005	1.79e-05	0.00220
## 462	1.004	1.66e-04	0.00355
## 463	1.004	1.27e-04	0.00353
## 464	1.004	7.91e-05	0.00265
## 465	1.006	2.40e-06	0.00308
## 466	1.008	1.99e-05	0.00540
## 467	1.006	3.47e-05	0.00359
## 468	1.006	3.44e-05	0.00334
## 469	1.005	8.08e-07	0.00230

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## 470 0.997 4.44e-04 0.00288
## 471 1.005 2.33e-05 0.00244
## 472 0.999 2.36e-04 0.00226
## 473 1.001 2.68e-04 0.00327
## 474 1.006 1.94e-05 0.00302
## 475 1.001 1.73e-04 0.00248
## 476 1.000 1.55e-04 0.00181
## 477 1.006 1.22e-04 0.00433
## 478 1.005 1.09e-04 0.00403
## 479 1.003 1.26e-04 0.00272
## 480 0.999 3.27e-04 0.00284
## 481 1.005 2.47e-06 0.00249
## 482 0.996 9.71e-04 0.00471
## 483 0.998 3.15e-04 0.00244
## 484 1.005 9.25e-06 0.00266
## 485 1.002 1.90e-04 0.00279
## 486 1.006 3.61e-05 0.00389
## 487 0.996 3.55e-04 0.00227
## 488 1.006 2.12e-07 0.00271
## 489 1.002 1.14e-04 0.00230
## 490 1.005 3.18e-05 0.00273
## 491 1.002 1.78e-04 0.00272
## 492 1.001 2.04e-04 0.00268
## 493 1.007 2.75e-05 0.00422
## 494 1.004 2.34e-05 0.00177
## 495 0.998 6.86e-04 0.00421
## 496 1.006 1.20e-05 0.00322
## 497 1.006 1.05e-05 0.00289
## 498 0.999 5.09e-04 0.00394
## 499 1.003 3.07e-04 0.00416
## 500 1.004 8.57e-05 0.00280
## 501 1.006 3.73e-05 0.00404
## 502 1.007 1.35e-07 0.00383
## 503 1.007 2.69e-05 0.00417
## 504 1.006 2.13e-05 0.00338
## 505 1.003 1.62e-04 0.00312
## 506 1.000 3.49e-04 0.00311
## 507 1.004 1.51e-04 0.00337
## 508 1.002 2.12e-04 0.00302
## 509 1.004 2.40e-05 0.00181
## 510 1.006 2.05e-04 0.00500
## 511 1.004 1.02e-04 0.00318
## 512 1.003 8.08e-05 0.00231
## 513 1.004 9.29e-05 0.00303
## 514 1.004 1.25e-04 0.00339
## 515 0.998 4.35e-04 0.00307
## 516 1.005 5.42e-06 0.00234
## 517 0.999 3.16e-04 0.00263
## 518 1.000 3.60e-04 0.00327
## 519 1.004 1.28e-05 0.00173
```

## 520	1.004	3.98e-05	0.00238
## 521	1.002	1.68e-04	0.00290
## 522	1.005	1.17e-04	0.00371
## 523	0.999	2.18e-04	0.00222
## 524	1.001	1.50e-04	0.00197
## 525	1.006	4.21e-05	0.00354
## 526	1.006	9.79e-07	0.00332
## 527	1.005	3.70e-05	0.00287
## 528	1.005	7.89e-08	0.00169
## 529	1.006	5.91e-05	0.00406
## 530	1.005	3.60e-06	0.00226
## 531	1.005	1.19e-05	0.00244
## 532	0.996	2.72e-04	0.00185
## 533	1.006	5.98e-05	0.00368
## 534	1.003	5.98e-05	0.00211
## 535	0.997	3.48e-04	0.00242
## 536	1.004	8.11e-05	0.00297
## 537	1.006	1.25e-05	0.00318
## 538	1.006	4.50e-05	0.00340
## 539	1.006	9.20e-07	0.00283
## 540	1.005	1.19e-06	0.00243
## 541	1.001	2.25e-04	0.00279
## 542	1.004	2.36e-05	0.00182
## 543	1.003	1.04e-04	0.00239
## 544	0.998	6.36e-04	0.00399
## 545	1.003	1.47e-04	0.00292
## 546	0.999	3.95e-04	0.00310
## 547	1.005	3.60e-05	0.00280
## 548	1.004	1.01e-04	0.00333
## 549	1.004	1.25e-05	0.00157
## 550	1.006	2.13e-06	0.00295
## 551	1.005	2.45e-07	0.00238
## 552	1.005	6.04e-06	0.00191
## 553	1.005	1.51e-05	0.00278
## 554	0.999	2.36e-04	0.00213
## 555	1.006	9.09e-06	0.00342
## 556	1.005	2.72e-05	0.00264
## 557	1.006	2.64e-06	0.00314
## 558	1.000	1.35e-04	0.00157
## 559	1.003	8.37e-05	0.00206
## 560	1.004	6.59e-05	0.00251
## 561	1.004	9.45e-05	0.00327
## 562	1.004	1.50e-04	0.00357
## 563	1.004	6.04e-05	0.00272
## 564	1.005	1.13e-04	0.00366
## 565	1.006	2.09e-05	0.00312
## 566	1.004	2.12e-04	0.00383
## 567	1.006	2.74e-05	0.00316
## 568	1.000	1.38e-04	0.00181
## 569	1.005	1.09e-04	0.00403

## 570	1.005	1.23e-06	0.00229
## 571	1.007	6.69e-06	0.00456
## 572	1.005	6.86e-05	0.00309
## 573	0.995	5.02e-04	0.00271
## 574	1.000	3.23e-04	0.00304
## 575	1.006	7.36e-07	0.00350
## 576	1.004	1.51e-04	0.00368
## 577	0.998	1.43e-04	0.00130
## 578	1.002	2.48e-04	0.00327
## 579	1.004	4.00e-05	0.00203
## 580	0.990	5.23e-04	0.00198
## 581	1.000	2.14e-04	0.00247
## 582	1.005	7.75e-05	0.00315
## 583	1.005	4.24e-05	0.00258
## 584	1.004	4.04e-05	0.00199
## 585	1.004	4.87e-05	0.00262
## 586	1.007	6.31e-07	0.00371
## 587	1.005	9.40e-06	0.00196
## 588	1.006	2.83e-06	0.00362
## 589	1.004	2.26e-05	0.00215
## 590	1.006	2.29e-06	0.00298
## 591	1.005	1.12e-06	0.00181
## 592	1.006	3.77e-06	0.00280
## 593	1.004	1.18e-04	0.00298
## 594	1.002	8.31e-05	0.00180
## 595	0.996	6.56e-04	0.00356
## 596	1.008	4.73e-05	0.00519
## 597	1.003	2.03e-04	0.00342
## 598	1.003	9.84e-05	0.00255
## 599	1.006	1.15e-06	0.00266
## 600	1.001	1.57e-04	0.00223
## 601	1.004	1.35e-05	0.00183
## 602	1.005	4.86e-05	0.00294
## 603	1.005	4.85e-05	0.00280
## 604	1.003	1.25e-04	0.00266
## 605	1.005	9.10e-06	0.00255
## 606	1.006	5.47e-07	0.00270
## 607	1.006	3.39e-12	0.00335
## 608	1.005	6.72e-06	0.00271
## 609	0.996	8.34e-04	0.00416
## 610	0.998	4.81e-04	0.00341
## 611	0.992	8.85e-04	0.00355
## 612	1.006	1.02e-05	0.00335
## 613	1.003	1.33e-04	0.00265
## 614	1.006	2.75e-06	0.00363
## 615	1.003	1.05e-04	0.00231
## 616	1.002	1.67e-04	0.00281
## 617	1.005	6.32e-05	0.00331
## 618	1.006	2.90e-05	0.00342
## 619	0.999	2.92e-04	0.00245

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## 620	1.003	3.96e-04	0.00504	
## 621	1.005	2.66e-05	0.00300	
## 622	1.003	1.21e-04	0.00282	
## 623	1.005	2.12e-06	0.00198	
## 624	0.991	6.02e-04	0.00238	*
## 625	1.001	2.48e-04	0.00278	
## 626	1.002	2.12e-04	0.00305	
## 627	1.005	5.90e-05	0.00285	
## 628	1.007	1.33e-05	0.00401	
## 629	0.998	4.56e-04	0.00331	
## 630	0.999	4.35e-04	0.00342	
## 631	1.006	2.47e-05	0.00335	
## 632	1.004	2.27e-05	0.00197	
## 633	1.004	8.39e-06	0.00146	
## 634	1.006	5.61e-05	0.00379	
## 635	0.995	5.80e-04	0.00305	
## 636	1.005	1.06e-04	0.00359	
## 637	1.005	2.57e-05	0.00256	
## 638	0.996	5.88e-04	0.00329	
## 639	1.003	9.75e-05	0.00240	
## 640	1.005	4.78e-06	0.00255	
## 641	0.994	8.11e-04	0.00356	
## 642	1.003	5.91e-05	0.00194	
## 643	1.004	1.34e-04	0.00353	
## 644	1.004	4.95e-05	0.00255	
## 645	1.003	7.45e-05	0.00223	
## 646	0.998	2.14e-04	0.00175	
## 647	1.006	1.98e-05	0.00323	
## 648	1.005	1.30e-04	0.00378	
## 649	1.001	1.87e-04	0.00246	
## 650	1.001	1.20e-04	0.00183	
## 651	1.002	1.27e-04	0.00224	
## 652	1.005	2.24e-08	0.00169	
## 653	1.004	3.16e-05	0.00217	
## 654	0.993	5.80e-04	0.00266	
## 655	0.998	3.31e-04	0.00266	
## 656	1.005	8.13e-06	0.00195	
## 657	1.006	4.99e-06	0.00334	
## 658	0.990	5.83e-04	0.00214	*
## 659	1.005	5.56e-06	0.00270	
## 660	0.999	3.34e-04	0.00293	
## 661	1.003	7.07e-05	0.00186	
## 662	1.004	2.30e-05	0.00178	
## 663	1.007	6.21e-08	0.00401	
## 664	1.005	6.15e-06	0.00199	
## 665	0.998	2.72e-04	0.00222	
## 666	1.000	1.16e-04	0.00155	
## 667	1.006	9.87e-05	0.00404	
## 668	0.996	2.72e-04	0.00184	
## 669	1.007	2.22e-07	0.00377	

670 1.005 2.01e-07 0.00234
671 1.005 3.80e-07 0.00188
672 1.002 6.75e-05 0.00172
673 1.004 4.14e-05 0.00232
674 0.999 6.61e-04 0.00454
675 1.006 2.80e-05 0.00372
676 1.005 1.59e-06 0.00222
677 1.001 2.95e-04 0.00322
678 0.997 7.60e-04 0.00422
679 1.004 1.05e-04 0.00294
680 1.002 1.76e-04 0.00282
681 1.006 1.12e-07 0.00315
682 1.004 1.17e-04 0.00315
683 1.002 1.66e-04 0.00258
684 0.998 2.01e-04 0.00178
685 1.002 8.79e-05 0.00206
686 1.005 6.14e-06 0.00249
687 0.998 3.95e-04 0.00295
688 1.006 3.70e-05 0.00387
689 1.004 1.32e-04 0.00321
690 1.004 4.28e-05 0.00202
691 1.006 2.54e-05 0.00353
692 1.005 1.87e-07 0.00208
693 1.002 7.44e-05 0.00161
694 1.005 3.60e-05 0.00262
695 1.004 6.01e-05 0.00268
696 1.006 1.94e-06 0.00272
697 0.997 3.95e-04 0.00276
698 1.005 1.41e-04 0.00382
699 1.005 1.61e-05 0.00293
700 1.007 3.79e-06 0.00385
701 1.001 1.73e-04 0.00244
702 0.999 1.96e-04 0.00190
703 1.004 4.29e-05 0.00199
704 1.003 8.05e-05 0.00223
705 0.998 3.86e-04 0.00274
706 1.006 1.35e-05 0.00355
707 1.001 2.98e-04 0.00346
708 1.002 1.62e-04 0.00252
709 1.004 1.26e-04 0.00361
710 0.991 4.21e-04 0.00180
711 1.002 2.41e-04 0.00349
712 1.005 6.92e-07 0.00243
713 1.003 3.04e-04 0.00399
714 1.006 1.66e-06 0.00346
715 1.003 1.29e-04 0.00292
716 1.007 3.73e-07 0.00376
717 1.000 2.14e-04 0.00227
718 1.002 2.17e-04 0.00318
719 1.005 1.17e-04 0.00367

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## 720	1.005	1.18e-05	0.00213
## 721	1.005	6.04e-06	0.00187
## 722	1.003	9.48e-05	0.00264
## 723	0.997	2.11e-04	0.00163
## 724	1.002	1.16e-04	0.00213
## 725	1.004	8.77e-05	0.00317
## 726	1.005	1.13e-05	0.00250
## 727	0.998	3.25e-04	0.00239
## 728	0.999	4.77e-04	0.00372
## 729	1.006	2.02e-07	0.00324
## 730	0.997	4.94e-04	0.00321
## 731	1.004	1.96e-05	0.00165
## 732	1.001	1.43e-04	0.00225
## 733	1.007	1.99e-07	0.00376
## 734	1.001	2.68e-04	0.00321
## 735	1.004	1.51e-04	0.00380
## 736	1.003	1.39e-04	0.00269
## 737	1.006	1.07e-05	0.00359
## 738	1.002	1.70e-04	0.00261
## 739	1.006	4.70e-06	0.00298
## 740	1.006	2.95e-06	0.00360
## 741	1.000	3.01e-04	0.00292
## 742	1.003	1.94e-04	0.00329
## 743	1.006	1.13e-07	0.00284
## 744	1.002	8.95e-05	0.00181
## 745	1.005	1.99e-05	0.00296
## 746	1.006	7.64e-07	0.00331
## 747	0.999	3.93e-04	0.00315
## 748	1.005	3.39e-07	0.00222
## 749	1.006	2.74e-05	0.00368
## 750	1.004	4.53e-05	0.00253
## 751	1.006	6.59e-06	0.00297
## 752	1.005	1.14e-04	0.00381
## 753	1.002	4.40e-04	0.00440
## 754	1.003	8.46e-05	0.00236
## 755	1.005	8.35e-06	0.00270
## 756	1.004	2.19e-05	0.00174
## 757	1.002	2.93e-04	0.00359
## 758	1.006	2.37e-06	0.00338
## 759	1.004	2.39e-05	0.00175
## 760	1.001	1.76e-04	0.00224
## 761	1.001	1.14e-04	0.00191
## 762	1.005	3.10e-05	0.00291
## 763	1.005	7.60e-06	0.00259
## 764	1.002	2.60e-04	0.00324
## 765	0.999	1.99e-04	0.00206
## 766	1.005	5.97e-06	0.00197
## 767	1.004	9.58e-05	0.00279
## 768	1.006	6.40e-05	0.00388
## 769	1.004	2.78e-05	0.00195

770 1.002 6.72e-05 0.00168
771 0.992 4.15e-04 0.00180
772 1.003 2.60e-04 0.00403
773 0.999 2.37e-04 0.00234
774 1.006 6.27e-06 0.00289
775 1.004 2.62e-04 0.00438
776 1.003 1.00e-04 0.00224
777 1.005 1.81e-05 0.00263
778 0.996 2.54e-04 0.00169
779 1.006 5.42e-06 0.00331
780 1.003 8.58e-05 0.00234
781 1.005 2.89e-05 0.00264
782 0.997 2.90e-04 0.00203
783 1.008 7.74e-08 0.00469
784 0.998 3.68e-04 0.00271
785 1.006 9.30e-06 0.00332
786 1.006 4.34e-05 0.00339
787 1.005 8.07e-05 0.00367
788 1.005 3.90e-05 0.00282
789 1.006 9.84e-08 0.00327
790 1.006 1.37e-06 0.00320
791 1.006 1.56e-05 0.00316
792 1.007 1.92e-07 0.00365
793 1.002 2.79e-04 0.00349
794 1.004 2.04e-04 0.00395
795 1.003 1.11e-04 0.00282
796 1.005 4.57e-05 0.00302
797 1.005 2.13e-05 0.00221
798 0.995 4.39e-04 0.00241
799 1.006 7.52e-05 0.00399
800 1.003 1.17e-04 0.00257
801 1.005 5.03e-06 0.00254
802 1.007 4.85e-06 0.00371
803 1.002 1.34e-04 0.00244
804 1.006 5.26e-06 0.00350
805 1.005 3.90e-05 0.00269
806 1.006 2.07e-06 0.00268
807 1.000 1.96e-04 0.00213
808 1.001 7.54e-05 0.00128
809 0.994 4.01e-04 0.00215
810 0.989 1.06e-03 0.00348
811 1.005 1.21e-06 0.00216
812 1.006 2.83e-05 0.00351
813 1.006 5.37e-05 0.00352
814 0.998 2.49e-04 0.00212
815 1.003 1.09e-04 0.00271
816 1.005 2.54e-05 0.00257
817 1.002 2.26e-04 0.00320
818 1.006 1.24e-09 0.00312
819 1.005 9.31e-05 0.00334

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##	820	1.006	6.91e-07	0.00266
##	821	1.002	8.66e-05	0.00184
##	822	1.003	1.45e-04	0.00313
##	823	1.005	6.95e-07	0.00259
##	824	1.001	2.77e-04	0.00318
##	825	1.005	5.76e-05	0.00312
##	826	1.005	3.40e-05	0.00249
##	827	0.992	9.17e-04	0.00352
##	828	1.006	1.20e-04	0.00427
##	829	0.992	6.87e-04	0.00285
##	830	1.005	1.92e-07	0.00193
##	831	1.005	3.61e-05	0.00302
##	832	1.001	1.67e-04	0.00247
##	833	1.003	8.70e-05	0.00242
##	834	1.006	1.01e-04	0.00413
##	835	1.006	1.11e-05	0.00309
##	836	0.996	2.68e-04	0.00181
##	837	1.005	3.76e-05	0.00314
##	838	1.004	3.66e-07	0.00161
##	839	0.998	3.28e-04	0.00262
##	840	1.006	1.56e-05	0.00324
##	841	0.988	6.90e-04	0.00228
##	842	1.004	1.41e-04	0.00351
##	843	1.003	5.84e-05	0.00195
##	844	1.004	5.14e-06	0.00157
##	845	1.005	9.40e-06	0.00252
##	846	1.006	3.15e-05	0.00379
##	847	1.005	7.46e-06	0.00205
##	848	1.004	2.11e-05	0.00197
##	849	1.005	7.64e-07	0.00260
##	850	1.007	1.51e-06	0.00388
##	851	1.004	5.15e-05	0.00241
##	852	1.004	1.10e-04	0.00294
##	853	1.005	6.98e-06	0.00255
##	854	0.996	6.64e-04	0.00355
##	855	1.006	1.84e-05	0.00300
##	856	0.996	3.31e-04	0.00213
##	857	1.006	5.56e-07	0.00326
##	858	1.006	3.74e-06	0.00292
##	859	1.004	1.90e-06	0.00122
##	860	1.006	5.57e-06	0.00359
##	861	1.001	2.13e-04	0.00255
##	862	1.003	9.35e-05	0.00261
##	863	1.002	8.52e-05	0.00167
##	864	1.002	2.88e-04	0.00370
##	865	1.007	1.99e-05	0.00477
##	866	1.004	3.83e-05	0.00191
##	867	0.995	6.21e-04	0.00328
##	868	1.006	5.77e-05	0.00433
##	869	1.006	1.51e-07	0.00351

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## 870 1.004 4.04e-05 0.00242
## 871 1.006 1.23e-05 0.00294
## 872 0.997 7.96e-04 0.00442
## 873 1.005 1.11e-04 0.00402
## 874 1.002 2.80e-04 0.00343
## 875 1.000 3.97e-04 0.00370
## 876 1.007 7.09e-06 0.00432
## 877 1.006 2.81e-06 0.00304
## 878 1.004 7.90e-05 0.00274
## 879 1.002 3.65e-04 0.00435
## 880 1.005 1.01e-05 0.00234
## 881 1.002 1.80e-04 0.00267
## 882 1.005 1.79e-05 0.00284
## 883 1.006 1.07e-05 0.00357
## 884 1.004 4.22e-05 0.00204
## 885 0.997 4.56e-04 0.00296
## 886 1.001 3.35e-04 0.00369
## 887 1.003 1.37e-04 0.00279
## 888 0.994 8.11e-04 0.00356
## 889 1.005 9.74e-05 0.00374
## 890 0.997 3.51e-04 0.00245
## 891 1.000 2.43e-04 0.00256
## 892 0.998 4.01e-04 0.00300
## 893 1.005 4.79e-05 0.00316
## 894 1.002 2.03e-04 0.00289
## 895 1.005 1.19e-08 0.00254
## 896 1.005 6.45e-05 0.00309
## 897 1.002 3.18e-04 0.00372
## 898 1.004 9.57e-05 0.00304
## 899 1.004 2.25e-05 0.00178
## 900 1.003 1.25e-04 0.00275
## 901 1.001 2.72e-04 0.00296
## 902 1.005 3.41e-05 0.00264
## 903 1.006 1.15e-05 0.00293
## 904 1.004 5.35e-05 0.00269
## 905 1.001 1.60e-04 0.00221
## 906 1.005 6.87e-05 0.00344
## 907 1.005 1.78e-05 0.00221
## 908 1.006 9.24e-06 0.00298
## 909 1.001 1.57e-04 0.00233
## 910 0.999 4.28e-04 0.00340
## 911 1.006 1.72e-05 0.00347
## 912 1.004 5.72e-06 0.00157
## 913 1.006 1.65e-06 0.00292
## 914 1.003 7.92e-05 0.00242
## 915 1.002 2.38e-04 0.00312
## 916 1.006 2.33e-06 0.00328
## 917 1.000 1.91e-04 0.00209
## 918 1.002 2.22e-04 0.00305
## 919 1.006 1.51e-08 0.00274
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## 920 1.004 1.47e-05 0.00156
## 921 0.998 2.19e-04 0.00186
## 922 1.006 1.22e-05 0.00304
## 923 1.003 2.04e-04 0.00337
## 924 1.007 8.32e-06 0.00390
## 925 1.003 9.73e-05 0.00262
## 926 1.001 2.07e-04 0.00253
## 927 1.006 1.12e-05 0.00297
## 928 1.003 1.55e-04 0.00315
## 929 1.002 1.68e-04 0.00255
## 930 1.006 5.21e-05 0.00417
## 931 1.006 1.04e-05 0.00297
## 932 1.004 5.71e-05 0.00248
## 933 1.005 7.80e-05 0.00366
## 934 0.995 5.47e-04 0.00283
## 935 1.001 1.49e-04 0.00229
## 936 1.004 1.94e-05 0.00211
## 937 1.004 1.35e-05 0.00159
## 938 1.005 1.74e-06 0.00219
## 939 1.005 1.24e-04 0.00366
## 940 1.000 1.80e-04 0.00199
## 941 1.006 1.04e-05 0.00321
## 942 1.004 8.60e-05 0.00308
## 943 1.002 1.49e-04 0.00235
## 944 1.004 3.88e-05 0.00238
## 945 1.000 3.99e-04 0.00359
## 946 1.002 1.37e-04 0.00219
## 947 1.005 6.89e-07 0.00191
## 948 0.998 3.47e-04 0.00275
## 949 1.000 1.91e-04 0.00216
## 950 1.005 2.00e-05 0.00248
## 951 1.005 2.43e-05 0.00265
## 952 0.997 2.26e-04 0.00162
## 953 0.997 3.92e-04 0.00255
## 954 1.005 6.39e-06 0.00259
## 955 1.004 7.34e-05 0.00249
## 956 1.006 5.23e-05 0.00407
## 957 1.002 1.80e-04 0.00268
## 958 1.005 2.10e-04 0.00494
## 959 1.004 1.43e-05 0.00163
## 960 1.005 2.14e-04 0.00469
## 961 1.007 5.48e-08 0.00429
## 962 0.998 2.14e-04 0.00175
## 963 1.003 3.52e-04 0.00478
## 964 0.990 3.98e-04 0.00161 *
## 965 1.005 2.23e-05 0.00223
## 966 1.005 4.17e-05 0.00295
## 967 1.004 3.81e-05 0.00213
## 968 1.003 9.49e-05 0.00243
## 969 1.004 1.00e-04 0.00323
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## 970	1.006	7.07e-06	0.00355	
## 971	0.998	6.26e-04	0.00393	
## 972	1.006	5.97e-08	0.00317	
## 973	0.988	9.39e-04	0.00296	*
## 974	1.001	7.52e-05	0.00129	
## 975	0.998	1.90e-04	0.00176	
## 976	0.996	3.76e-04	0.00229	
## 977	1.005	3.35e-06	0.00267	
## 978	1.005	2.27e-05	0.00233	
## 979	1.005	4.10e-07	0.00169	
## 980	1.005	1.43e-05	0.00233	
## 981	1.004	5.83e-05	0.00218	
## 982	1.005	8.06e-06	0.00275	
## 983	1.000	2.34e-04	0.00257	
## 984	1.004	6.61e-05	0.00231	
## 985	1.005	2.58e-05	0.00266	
## 986	1.005	6.69e-06	0.00232	
## 987	1.004	1.46e-07	0.00131	
## 988	1.007	7.15e-06	0.00401	
## 989	1.005	3.05e-07	0.00222	
## 990	1.005	4.35e-06	0.00249	
## 991	1.006	1.49e-05	0.00323	
## 992	1.005	2.67e-06	0.00235	
## 993	0.997	4.85e-04	0.00300	
## 994	0.998	2.21e-04	0.00182	
## 995	1.004	3.59e-05	0.00245	
## 996	1.006	1.20e-05	0.00298	
## 997	1.002	1.70e-04	0.00291	
## 998	1.003	8.37e-05	0.00221	
## 999	1.001	1.35e-04	0.00209	
## 1000	0.999	2.25e-04	0.00202	
## 1001	1.005	4.09e-08	0.00176	
## 1002	1.004	1.06e-05	0.00160	
## 1003	1.001	1.69e-04	0.00247	
## 1004	1.002	1.87e-04	0.00266	
## 1005	1.000	1.15e-04	0.00152	
## 1006	1.000	2.71e-04	0.00271	
## 1007	1.005	3.31e-05	0.00267	
## 1008	1.003	8.88e-05	0.00210	
## 1009	1.007	6.18e-06	0.00430	
## 1010	0.999	3.84e-04	0.00306	
## 1011	1.003	8.35e-05	0.00215	
## 1012	0.996	5.86e-04	0.00323	
## 1013	0.995	6.04e-04	0.00322	
## 1014	1.006	1.03e-05	0.00332	
## 1015	1.006	2.36e-06	0.00305	
## 1016	1.003	2.29e-04	0.00354	
## 1017	1.004	2.19e-05	0.00189	
## 1018	1.005	1.14e-05	0.00272	
## 1019	1.005	7.12e-06	0.00277	

```
## 1020 0.997 4.71e-04 0.00302
## 1021 1.002 2.32e-04 0.00333
## 1022 1.002 1.35e-04 0.00219
## 1023 1.006 1.06e-05 0.00344
## 1024 1.005 5.11e-05 0.00274
## 1025 1.005 6.57e-05 0.00312
## 1026 1.001 1.69e-04 0.00221
## 1027 1.004 3.65e-04 0.00521
## 1028 1.004 9.50e-05 0.00304
## 1029 1.006 1.00e-04 0.00405
## 1030 1.004 8.98e-05 0.00269
## 1031 1.005 1.31e-06 0.00265
## 1032 1.005 2.44e-05 0.00298
## 1033 1.006 9.50e-07 0.00298
## 1034 1.005 2.85e-09 0.00236
## 1035 1.002 2.31e-04 0.00334
## 1036 1.004 1.00e-04 0.00325
## 1037 0.996 4.83e-04 0.00283
## 1038 1.003 1.48e-04 0.00293
## 1039 1.005 1.12e-05 0.00276
## 1040 1.001 1.56e-04 0.00212
## 1041 0.998 3.26e-04 0.00244
## 1042 1.005 2.15e-05 0.00279
## 1043 1.001 1.69e-04 0.00244
## 1044 1.006 2.35e-07 0.00308
## 1045 1.003 9.13e-05 0.00216
## 1046 1.004 8.20e-06 0.00158
## 1047 0.992 4.19e-04 0.00181
## 1048 1.001 5.17e-04 0.00447
## 1049 1.003 2.27e-04 0.00364
## 1050 1.004 6.99e-05 0.00290
## 1051 1.000 4.20e-04 0.00355
## 1052 1.000 1.86e-04 0.00227
## 1053 1.004 1.76e-06 0.00144
## 1054 1.002 8.77e-05 0.00184
## 1055 1.002 2.02e-04 0.00287
## 1056 1.004 1.22e-04 0.00301
## 1057 1.001 2.10e-04 0.00266
## 1058 1.005 5.45e-06 0.00208
## 1059 1.006 2.72e-05 0.00339
## 1060 1.006 2.28e-05 0.00334
## 1061 1.006 6.00e-05 0.00360
## 1062 1.005 1.97e-05 0.00235
## 1063 1.001 2.59e-04 0.00294
## 1064 1.005 3.74e-07 0.00215
## 1065 1.003 1.95e-04 0.00359
## 1066 0.998 3.08e-04 0.00244
## 1067 1.006 3.36e-05 0.00354
## 1068 1.000 1.71e-04 0.00215
## 1069 0.997 3.16e-04 0.00222
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## 1070 1.006 1.01e-04 0.00451
## 1071 1.004 9.22e-05 0.00276
## 1072 1.004 2.43e-05 0.00174
## 1073 1.006 7.56e-05 0.00382
## 1074 1.005 2.01e-06 0.00240
## 1075 0.997 4.61e-04 0.00286
## 1076 1.005 8.99e-05 0.00374
## 1077 0.998 2.10e-04 0.00187
## 1078 1.005 2.09e-06 0.00239
## 1079 1.000 2.04e-04 0.00230
## 1080 1.002 8.13e-05 0.00192
## 1081 1.005 4.19e-07 0.00178
## 1082 1.002 1.64e-04 0.00256
## 1083 1.003 1.62e-04 0.00332
## 1084 1.004 1.19e-04 0.00352
## 1085 1.004 7.94e-05 0.00260
## 1086 0.998 1.67e-04 0.00146
## 1087 1.005 3.66e-05 0.00269
## 1088 1.004 5.64e-05 0.00278
## 1089 1.005 4.74e-05 0.00270
## 1090 1.007 1.66e-06 0.00377
## 1091 1.006 2.51e-05 0.00360
## 1092 0.996 2.88e-04 0.00189
## 1093 1.005 1.52e-04 0.00437
## 1094 1.000 2.14e-04 0.00241
## 1095 1.006 1.34e-07 0.00327
## 1096 1.003 1.62e-04 0.00320
## 1097 1.005 5.27e-05 0.00284
## 1098 1.004 7.97e-06 0.00179
## 1099 0.998 4.76e-04 0.00329
## 1100 1.004 5.70e-05 0.00244
## 1101 1.005 4.69e-06 0.00189
## 1102 0.998 3.05e-04 0.00233
## 1103 1.006 3.44e-05 0.00370
## 1104 1.006 3.20e-06 0.00285
## 1105 1.006 2.35e-06 0.00271
## 1106 1.005 5.39e-05 0.00307
## 1107 1.007 5.66e-07 0.00428
## 1108 1.002 3.92e-04 0.00446
## 1109 1.007 7.39e-06 0.00393
## 1110 0.999 2.70e-04 0.00241
## 1111 0.999 2.11e-04 0.00215
## 1112 1.006 1.90e-05 0.00332
## 1113 1.004 1.32e-05 0.00190
## 1114 1.004 9.92e-05 0.00326
## 1115 1.003 1.12e-04 0.00272
## 1116 1.006 5.86e-06 0.00346
## 1117 1.001 1.20e-04 0.00179
## 1118 1.005 9.08e-06 0.00256
## 1119 1.000 3.91e-04 0.00337
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## 1120 1.006 2.07e-05 0.00331
## 1121 1.003 8.68e-05 0.00252
## 1122 1.000 1.77e-04 0.00220
## 1123 1.000 2.01e-04 0.00238
## 1124 1.006 1.34e-05 0.00315
## 1125 1.004 1.60e-05 0.00180
## 1126 1.001 2.33e-04 0.00275
## 1127 1.005 1.51e-06 0.00222
## 1128 0.999 5.34e-04 0.00394
## 1129 1.005 1.55e-04 0.00407
## 1130 1.005 2.06e-05 0.00233
## 1131 1.004 1.12e-04 0.00303
## 1132 1.006 2.07e-06 0.00302
## 1133 1.005 6.48e-06 0.00206
## 1134 1.006 1.24e-05 0.00304
## 1135 1.004 1.96e-04 0.00393
## 1136 1.005 2.74e-05 0.00285
## 1137 1.007 6.82e-05 0.00510
## 1138 1.004 3.72e-05 0.00247
## 1139 0.998 3.72e-04 0.00270
## 1140 1.004 1.05e-04 0.00296
## 1141 1.001 2.88e-04 0.00321
## 1142 1.003 1.38e-04 0.00289
## 1143 1.006 2.50e-05 0.00339
## 1144 1.000 2.46e-04 0.00264
## 1145 1.004 4.00e-05 0.00210
## 1146 1.003 1.39e-04 0.00284
## 1147 1.004 1.43e-04 0.00371
## 1148 1.004 2.06e-05 0.00183
## 1149 1.002 1.34e-04 0.00253
## 1150 1.007 1.49e-05 0.00387
## 1151 1.005 1.35e-06 0.00245
## 1152 1.006 7.66e-06 0.00329
## 1153 1.005 1.17e-06 0.00219
## 1154 1.004 9.89e-05 0.00289
## 1155 1.005 7.31e-05 0.00320
## 1156 1.004 9.07e-05 0.00285
## 1157 1.000 3.64e-04 0.00327
## 1158 1.000 4.81e-04 0.00390
## 1159 1.006 4.38e-06 0.00352
## 1160 1.003 1.50e-04 0.00280
## 1161 1.006 3.79e-06 0.00338
## 1162 1.004 1.90e-06 0.00124
## 1163 1.002 1.26e-04 0.00245
## 1164 1.003 8.14e-05 0.00233
## 1165 1.005 1.19e-05 0.00221
## 1166 1.007 6.67e-05 0.00509
## 1167 1.005 9.60e-08 0.00234
## 1168 0.995 5.60e-04 0.00289
## 1169 0.999 3.24e-04 0.00279
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## 1170 0.993 4.24e-04 0.00203
## 1171 1.004 1.28e-04 0.00304
## 1172 0.999 2.21e-04 0.00224
## 1173 1.004 1.72e-04 0.00393
## 1174 1.006 2.19e-05 0.00379
## 1175 1.002 1.79e-04 0.00262
## 1176 1.003 2.10e-04 0.00346
## 1177 1.006 7.33e-06 0.00337
## 1178 0.999 5.23e-04 0.00398
## 1179 1.006 8.12e-05 0.00450
## 1180 1.004 7.70e-05 0.00295
## 1181 1.002 2.77e-04 0.00367
## 1182 1.001 2.16e-04 0.00267
## 1183 1.006 1.10e-06 0.00302
## 1184 1.007 6.87e-05 0.00474
## 1185 1.002 1.08e-04 0.00222
## 1186 0.999 3.52e-04 0.00291
## 1187 1.002 1.40e-04 0.00253
## 1188 1.006 5.67e-07 0.00333
## 1189 1.003 9.71e-05 0.00258
## 1190 1.006 6.09e-06 0.00341
## 1191 1.003 5.75e-05 0.00209
## 1192 1.003 2.10e-04 0.00368
## 1193 1.006 6.39e-06 0.00297
## 1194 1.005 2.91e-05 0.00245
## 1195 1.005 7.29e-07 0.00225
## 1196 1.001 2.03e-04 0.00277
## 1197 1.002 1.22e-04 0.00226
## 1198 1.003 7.77e-05 0.00198
## 1199 0.996 4.94e-04 0.00280
## 1200 1.006 4.41e-08 0.00273
## 1201 1.004 1.07e-04 0.00318
## 1202 1.002 6.52e-05 0.00154
## 1203 0.997 1.60e-04 0.00130
## 1204 1.003 1.84e-04 0.00345
## 1205 1.002 7.76e-05 0.00187
## 1206 1.005 4.12e-05 0.00290
## 1207 0.999 1.70e-04 0.00180
## 1208 0.999 4.41e-04 0.00347
## 1209 0.998 1.39e-04 0.00126
## 1210 1.005 1.31e-05 0.00252
## 1211 1.002 1.28e-04 0.00226
## 1212 1.003 1.24e-04 0.00249
## 1213 1.004 3.20e-06 0.00166
## 1214 1.006 3.51e-06 0.00286
## 1215 1.001 1.65e-04 0.00217
## 1216 1.006 7.41e-05 0.00394
## 1217 1.004 1.32e-04 0.00358
## 1218 1.002 1.70e-04 0.00274
## 1219 1.006 2.62e-05 0.00345
```

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## 1220 1.002 6.31e-05 0.00155
## 1221 0.998 3.03e-04 0.00231
## 1222 1.000 4.34e-04 0.00383
## 1223 1.006 4.75e-06 0.00289
## 1224 1.005 9.65e-05 0.00343
## 1225 1.003 1.91e-04 0.00322
## 1226 1.006 6.44e-06 0.00297
## 1227 1.004 1.10e-04 0.00305
## 1228 1.005 6.20e-05 0.00316
## 1229 0.998 3.81e-04 0.00282
## 1230 1.005 6.06e-06 0.00262
## 1231 1.006 2.40e-05 0.00363
## 1232 1.006 6.80e-05 0.00370
## 1233 1.002 6.48e-05 0.00157
## 1234 1.004 6.11e-06 0.00141
## 1235 1.004 5.38e-05 0.00213
## 1236 1.003 1.82e-04 0.00332
## 1237 1.004 2.05e-05 0.00189
## 1238 1.004 1.25e-04 0.00336
## 1239 1.005 8.21e-05 0.00341
## 1240 0.996 2.53e-04 0.00170
## 1241 0.990 5.91e-04 0.00220 *
## 1242 0.997 3.37e-04 0.00245
## 1243 1.003 1.31e-04 0.00275
## 1244 1.004 1.52e-04 0.00347
## 1245 1.002 2.32e-04 0.00319
## 1246 0.996 2.63e-04 0.00180
## 1247 1.005 2.92e-05 0.00300
## 1248 1.001 1.72e-04 0.00226
## 1249 1.004 2.04e-05 0.00180
## 1250 1.002 9.33e-05 0.00182
## 1251 1.007 4.17e-05 0.00457
## 1252 0.999 4.35e-04 0.00326
## 1253 1.005 4.99e-06 0.00242
## 1254 1.006 1.35e-04 0.00439
## 1255 1.005 2.71e-07 0.00192
## 1256 0.998 5.30e-04 0.00350
## 1257 1.002 1.15e-04 0.00216
## 1258 1.002 2.93e-04 0.00351
## 1259 1.003 1.07e-04 0.00249
## 1260 0.997 6.14e-04 0.00359
## 1261 1.007 1.05e-05 0.00400
## 1262 1.007 9.07e-05 0.00527
## 1263 0.998 4.30e-04 0.00296
## 1264 1.006 3.38e-08 0.00332
## 1265 0.993 4.69e-04 0.00221
## 1266 1.005 7.26e-13 0.00252
## 1267 1.005 2.67e-06 0.00211
## 1268 1.007 7.94e-06 0.00385
## 1269 1.004 1.76e-05 0.00209
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1270 1.004 1.25e-04 0.00334
1271 1.006 3.71e-05 0.00389
1272 1.006 1.79e-05 0.00329
1273 1.007 2.60e-09 0.00433
1274 1.006 4.39e-06 0.00300
1275 1.006 2.61e-05 0.00343
1276 1.005 1.16e-05 0.00232
1277 1.006 2.28e-06 0.00300
1278 1.005 4.36e-06 0.00191
1279 1.000 2.30e-04 0.00254
1280 1.006 2.03e-05 0.00337
1281 1.005 4.55e-06 0.00223
1282 1.004 7.54e-05 0.00267
1283 1.004 1.46e-04 0.00335
1284 1.002 1.95e-04 0.00280
1285 1.006 4.46e-06 0.00280
1286 1.006 1.16e-05 0.00298
1287 1.006 4.91e-07 0.00358
1288 1.000 2.96e-04 0.00278
1289 1.006 5.50e-07 0.00296
1290 1.005 6.28e-06 0.00266
1291 0.995 2.67e-04 0.00167
1292 1.006 2.19e-06 0.00308
1293 1.000 3.42e-04 0.00338
1294 0.998 2.25e-04 0.00183
1295 1.006 8.07e-05 0.00405
1296 0.997 3.22e-04 0.00221
1297 1.005 5.55e-06 0.00257
1298 1.005 2.38e-05 0.00272
1299 1.006 3.76e-06 0.00306
1300 1.005 1.37e-05 0.00252
1301 1.004 1.16e-04 0.00291
1302 1.004 1.12e-04 0.00329
1303 0.986 9.71e-04 0.00281
1304 1.006 1.20e-05 0.00313
1305 1.003 8.15e-05 0.00235
1306 1.002 9.69e-05 0.00183
1307 1.001 1.24e-04 0.00198
1308 1.006 6.81e-05 0.00378
1309 1.006 9.86e-06 0.00320
1310 0.997 3.64e-04 0.00245
1311 0.995 5.67e-04 0.00302
1312 1.005 2.45e-06 0.00257
1313 1.004 3.35e-05 0.00189
1314 1.004 5.09e-05 0.00240
1315 1.003 1.51e-04 0.00305
1316 0.993 5.81e-04 0.00265
1317 1.005 8.87e-05 0.00376
1318 1.005 1.14e-05 0.00282
1319 1.005 4.25e-05 0.00302

*

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## 1320 1.006 1.08e-07 0.00315
## 1321 0.991 5.20e-04 0.00212 *
## 1322 1.002 8.54e-05 0.00190
## 1323 1.007 1.99e-05 0.00407
## 1324 0.995 4.04e-04 0.00235
## 1325 1.005 4.15e-05 0.00318
## 1326 1.006 1.33e-05 0.00295
## 1327 1.005 2.20e-05 0.00272
## 1328 1.002 2.14e-04 0.00301
## 1329 1.006 4.65e-06 0.00285
## 1330 1.007 2.12e-05 0.00397
## 1331 1.001 3.35e-04 0.00364
## 1332 0.997 2.22e-04 0.00176
## 1333 1.002 2.10e-04 0.00303
## 1334 1.005 1.15e-08 0.00205
## 1335 0.992 4.10e-04 0.00178
## 1336 0.995 5.29e-04 0.00278
## 1337 0.999 3.75e-04 0.00307
## 1338 1.005 7.41e-06 0.00252
## 1339 1.006 6.41e-07 0.00327
## 1340 1.005 1.25e-05 0.00219
## 1341 1.003 8.50e-05 0.00225
## 1342 1.002 1.70e-04 0.00280
## 1343 1.005 9.77e-06 0.00242
## 1344 1.002 1.32e-04 0.00230
## 1345 1.005 1.52e-04 0.00414
## 1346 1.007 6.00e-06 0.00376
## 1347 1.004 2.59e-05 0.00212
## 1348 1.006 8.31e-06 0.00344
## 1349 1.006 5.70e-08 0.00293
## 1350 1.001 1.95e-04 0.00259
## 1351 1.004 2.86e-05 0.00180
## 1352 0.997 2.00e-04 0.00152
## 1353 1.003 1.11e-04 0.00269
## 1354 0.999 1.56e-04 0.00173
## 1355 1.003 5.16e-05 0.00182
## 1356 1.004 5.10e-05 0.00217
## 1357 1.001 1.68e-04 0.00241
## 1358 1.001 7.92e-05 0.00129
## 1359 1.005 1.50e-05 0.00218
## 1360 1.005 5.72e-06 0.00222
## 1361 0.996 9.56e-04 0.00473
## 1362 1.003 9.54e-05 0.00240
## 1363 1.003 1.32e-04 0.00297
## 1364 1.006 5.27e-06 0.00336
## 1365 1.005 6.36e-05 0.00289
## 1366 1.005 4.04e-06 0.00251
## 1367 1.004 7.86e-05 0.00247
## 1368 1.001 2.61e-04 0.00288
## 1369 1.005 2.27e-05 0.00233
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## 1370 1.006 5.57e-08 0.00288
## 1371 1.005 2.65e-08 0.00221
## 1372 1.000 3.34e-04 0.00315
## 1373 1.005 3.26e-05 0.00256
## 1374 1.006 4.41e-05 0.00386
## 1375 1.007 7.27e-06 0.00419
## 1376 1.006 1.94e-05 0.00322
## 1377 0.998 1.87e-04 0.00173
## 1378 1.005 2.24e-06 0.00213
## 1379 0.999 2.92e-04 0.00270
## 1380 0.999 1.75e-04 0.00185
## 1381 1.005 2.55e-05 0.00280
## 1382 1.006 8.70e-07 0.00276
## 1383 1.005 7.79e-06 0.00279
## 1384 1.004 1.49e-04 0.00326
## 1385 1.001 2.30e-04 0.00285
## 1386 1.006 3.02e-05 0.00334
## 1387 1.001 2.09e-04 0.00266
## 1388 1.004 3.16e-07 0.00130
## 1389 1.004 2.46e-05 0.00178
## 1390 1.004 2.72e-05 0.00225
## 1391 0.996 5.15e-04 0.00292
## 1392 0.995 4.22e-04 0.00239
## 1393 0.998 3.27e-04 0.00247
## 1394 1.002 1.69e-04 0.00284
## 1395 1.004 4.71e-06 0.00163
## 1396 1.005 2.08e-05 0.00226
## 1397 1.005 1.09e-04 0.00362
## 1398 1.000 4.58e-04 0.00380
## 1399 1.000 1.91e-04 0.00227
## 1400 1.005 1.10e-06 0.00243
## 1401 1.002 9.96e-05 0.00191
## 1402 1.006 3.15e-07 0.00328
## 1403 1.007 1.32e-04 0.00588
## 1404 1.005 2.74e-05 0.00289
## 1405 1.002 1.90e-04 0.00306
## 1406 1.005 3.29e-05 0.00256
## 1407 1.000 3.09e-04 0.00301
## 1408 1.002 1.85e-04 0.00270
## 1409 1.006 4.40e-06 0.00297
## 1410 1.003 1.66e-04 0.00331
## 1411 1.006 2.57e-05 0.00337
## 1412 1.006 1.96e-05 0.00353
## 1413 1.003 1.29e-04 0.00287
## 1414 1.006 6.50e-05 0.00388
## 1415 1.006 1.40e-06 0.00290
## 1416 1.003 1.18e-04 0.00270
## 1417 1.004 7.65e-05 0.00246
## 1418 1.005 3.46e-08 0.00212
## 1419 1.003 8.81e-05 0.00241
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## 1420 1.005 1.72e-09 0.00246
## 1421 1.003 1.88e-04 0.00336
## 1422 1.006 3.83e-06 0.00357
## 1423 1.004 1.53e-04 0.00348
## 1424 0.999 2.11e-04 0.00207
## 1425 1.005 7.22e-08 0.00215
## 1426 1.004 1.02e-05 0.00179
## 1427 1.006 4.41e-05 0.00347
## 1428 1.005 5.05e-06 0.00230
## 1429 1.005 1.22e-04 0.00410
## 1430 1.003 1.25e-04 0.00288
## 1431 1.005 7.46e-05 0.00312
## 1432 1.004 7.99e-05 0.00276
## 1433 1.003 7.92e-05 0.00246
## 1434 1.005 4.22e-05 0.00303
## 1435 1.003 1.40e-04 0.00274
## 1436 1.005 5.80e-06 0.00199
## 1437 1.003 1.15e-04 0.00251
## 1438 1.005 3.99e-05 0.00311
## 1439 1.004 1.43e-04 0.00337
## 1440 1.006 4.19e-05 0.00359
## 1441 0.999 3.08e-04 0.00259
## 1442 1.002 1.87e-04 0.00278
## 1443 1.002 3.19e-04 0.00367
## 1444 1.004 8.70e-06 0.00148
## 1445 1.006 5.21e-05 0.00350
## 1446 1.004 3.12e-05 0.00231
## 1447 1.005 1.42e-04 0.00380
## 1448 1.006 1.74e-04 0.00496
## 1449 1.000 1.80e-04 0.00213
## 1450 1.005 1.64e-05 0.00224
## 1451 1.005 8.25e-05 0.00377
## 1452 1.003 1.09e-04 0.00261
## 1453 1.002 1.19e-04 0.00218
## 1454 0.991 4.09e-04 0.00175 *
## 1455 1.005 4.61e-05 0.00322
## 1456 1.003 1.57e-04 0.00290
## 1457 1.004 2.35e-04 0.00400
## 1458 1.005 2.05e-06 0.00175
## 1459 1.000 1.20e-04 0.00158
## 1460 1.005 7.87e-05 0.00312
## 1461 1.001 2.49e-04 0.00288
## 1462 1.004 6.13e-05 0.00234
## 1463 1.003 1.39e-04 0.00312
## 1464 1.005 3.07e-05 0.00309
## 1465 0.999 4.03e-04 0.00320
## 1466 1.004 1.70e-05 0.00166
## 1467 1.002 2.16e-04 0.00293
## 1468 1.001 1.36e-04 0.00197
## 1469 1.001 1.01e-04 0.00180
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## 1470 1.003 1.39e-04 0.00303
## 1471 1.006 2.69e-05 0.00387
## 1472 1.004 2.22e-05 0.00174
## 1473 0.993 6.15e-04 0.00275
## 1474 0.999 2.01e-04 0.00193
## 1475 1.004 1.13e-04 0.00325
## 1476 1.006 3.62e-05 0.00379
## 1477 1.006 3.67e-06 0.00291
## 1478 0.996 4.46e-04 0.00261
## 1479 1.006 3.74e-08 0.00290
## 1480 1.006 3.89e-05 0.00401
## 1481 1.003 6.82e-05 0.00206
## 1482 0.996 4.22e-04 0.00256
## 1483 1.003 7.70e-05 0.00202
## 1484 1.003 7.08e-05 0.00205
## 1485 1.006 1.04e-05 0.00286
## 1486 1.006 2.95e-05 0.00391
## 1487 1.004 2.36e-05 0.00182
## 1488 1.002 1.41e-04 0.00264
## 1489 1.002 2.45e-04 0.00321
## 1490 0.991 5.55e-04 0.00222 *
## 1491 1.006 5.18e-05 0.00371
## 1492 1.004 3.62e-05 0.00194
## 1493 1.005 4.41e-05 0.00329
## 1494 1.002 1.44e-04 0.00231
## 1495 1.004 1.22e-04 0.00335
## 1496 1.004 1.59e-04 0.00363
## 1497 1.005 4.24e-06 0.00224
## 1498 1.005 2.31e-05 0.00280
## 1499 1.001 1.96e-04 0.00259
## 1500 0.999 1.34e-04 0.00142
## 1501 1.003 6.42e-05 0.00205
## 1502 1.007 9.06e-06 0.00410
## 1503 1.005 1.88e-06 0.00189
## 1504 1.002 3.50e-04 0.00407
## 1505 1.000 1.72e-04 0.00204
## 1506 1.005 2.50e-05 0.00260
## 1507 1.005 5.05e-06 0.00271
## 1508 0.998 3.06e-04 0.00230
## 1509 1.002 3.27e-04 0.00373
## 1510 1.005 9.81e-06 0.00277
## 1511 1.005 4.16e-05 0.00307
## 1512 0.998 3.30e-04 0.00256
## 1513 1.004 9.07e-05 0.00273
## 1514 1.004 1.98e-05 0.00188
## 1515 1.000 5.16e-04 0.00408
## 1516 1.004 5.35e-05 0.00265
## 1517 1.006 9.38e-07 0.00281
## 1518 0.994 8.15e-04 0.00372
## 1519 1.003 6.50e-05 0.00180
```

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## 1520 1.005 5.18e-05 0.00289
## 1521 1.004 1.85e-05 0.00203
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## 1523 1.005 1.57e-05 0.00268
## 1524 1.002 1.24e-04 0.00233
## 1525 1.005 4.93e-06 0.00244
## 1526 1.002 3.71e-04 0.00427
## 1527 1.005 2.90e-05 0.00256
## 1528 1.004 1.12e-05 0.00172
## 1529 1.000 2.20e-04 0.00226
## 1530 1.005 1.13e-05 0.00231
## 1531 1.006 1.43e-04 0.00462
## 1532 1.005 3.35e-05 0.00280
## 1533 1.006 6.29e-07 0.00327
## 1534 1.004 1.30e-04 0.00314
## 1535 1.004 5.89e-05 0.00236
## 1536 1.006 4.71e-05 0.00365
## 1537 1.006 1.35e-05 0.00305
## 1538 1.005 9.61e-07 0.00199
## 1539 1.001 1.67e-04 0.00214
## 1540 1.004 8.77e-05 0.00311
## 1541 1.005 4.26e-05 0.00282
## 1542 1.005 4.36e-06 0.00239
## 1543 0.995 4.28e-04 0.00229
## 1544 1.003 1.77e-04 0.00343
## 1545 0.998 2.13e-04 0.00175
## 1546 0.997 5.01e-04 0.00305
## 1547 1.005 9.47e-06 0.00250
## 1548 1.006 3.76e-05 0.00412
## 1549 1.005 1.14e-04 0.00375
## 1550 1.004 9.99e-06 0.00168
## 1551 0.993 6.24e-04 0.00280
## 1552 1.003 2.87e-04 0.00388
## 1553 1.004 8.84e-05 0.00297
## 1554 1.002 1.68e-04 0.00281
## 1555 1.004 2.35e-05 0.00176
## 1556 1.007 1.53e-05 0.00466
## 1557 1.002 6.51e-05 0.00154
## 1558 1.006 8.21e-05 0.00397
## 1559 0.998 2.59e-04 0.00221
## 1560 1.004 4.49e-05 0.00231
## 1561 1.005 8.34e-05 0.00328
## 1562 1.006 9.97e-07 0.00351
## 1563 1.002 2.27e-04 0.00322
## 1564 0.998 6.78e-04 0.00413
## 1565 1.003 6.28e-05 0.00216
## 1566 1.005 2.89e-08 0.00233
## 1567 1.005 2.30e-05 0.00232
## 1568 0.998 3.45e-04 0.00267
## 1569 1.005 5.45e-05 0.00319
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1571 0.993 9.65e-04 0.00405
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1574 0.998 3.77e-04 0.00277
1575 1.003 1.19e-04 0.00268
1576 1.005 2.06e-04 0.00482
1577 1.004 1.15e-04 0.00349
1578 1.006 5.39e-06 0.00352
1579 1.002 1.56e-04 0.00268
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1581 1.006 1.83e-05 0.00310
1582 1.006 1.13e-06 0.00288
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1594 1.005 1.01e-07 0.00253
1595 1.006 8.03e-06 0.00289
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1601 1.006 1.05e-06 0.00276
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1604 1.004 1.44e-05 0.00162
1605 1.004 5.27e-05 0.00235
1606 1.005 1.57e-05 0.00250
1607 1.005 6.96e-06 0.00210
1608 0.991 9.29e-04 0.00339
1609 1.005 6.93e-06 0.00199
1610 1.007 4.89e-07 0.00433
1611 1.005 2.45e-06 0.00240
1612 1.005 1.82e-07 0.00235
1613 1.005 5.40e-05 0.00313
1614 1.002 1.52e-04 0.00259
1615 1.005 8.74e-06 0.00271
1616 1.006 1.33e-04 0.00458
1617 1.000 1.70e-04 0.00206
1618 1.006 2.79e-07 0.00346
1619 1.004 8.66e-05 0.00304

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## 1620 0.996 3.59e-04 0.00225
## 1621 1.002 2.21e-04 0.00298
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## 1623 0.999 2.03e-04 0.00201
## 1624 0.999 3.05e-04 0.00266
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## 1627 1.002 2.89e-04 0.00385
## 1628 0.997 2.55e-04 0.00180
## 1629 1.002 7.36e-05 0.00175
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## 1634 1.006 1.42e-05 0.00331
## 1635 0.998 3.30e-04 0.00247
## 1636 1.004 9.33e-06 0.00187
## 1637 1.005 1.10e-05 0.00226
## 1638 1.005 1.13e-05 0.00223
## 1639 1.004 1.59e-04 0.00337
## 1640 1.000 2.96e-04 0.00294
## 1641 1.001 2.22e-04 0.00267
## 1642 1.006 3.90e-06 0.00310
## 1643 1.002 1.95e-04 0.00275
## 1644 1.005 1.19e-04 0.00401
## 1645 1.005 5.17e-05 0.00274
## 1646 1.004 9.88e-05 0.00273
## 1647 1.003 8.10e-05 0.00247
## 1648 1.005 1.08e-04 0.00403
## 1649 1.005 1.69e-06 0.00254
## 1650 1.005 1.08e-05 0.00223
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## 1652 1.005 4.77e-05 0.00338
## 1653 1.004 3.16e-05 0.00235
## 1654 0.996 5.87e-04 0.00323
## 1655 1.006 7.40e-06 0.00351
## 1656 1.006 1.34e-05 0.00299
## 1657 1.003 1.24e-04 0.00291
## 1658 1.000 8.15e-05 0.00127
## 1659 0.999 2.65e-04 0.00239
## 1660 0.999 3.54e-04 0.00294
## 1661 0.996 2.08e-04 0.00149
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## 1663 1.004 3.41e-05 0.00232
## 1664 1.003 8.94e-05 0.00259
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## 1666 1.001 5.01e-04 0.00433
## 1667 1.006 5.52e-06 0.00314
## 1668 1.004 3.35e-05 0.00238
## 1669 0.996 4.89e-04 0.00296
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## 1670 1.005 5.73e-06 0.00252
## 1671 0.999 1.93e-04 0.00203
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## 1674 1.006 1.59e-05 0.00319
## 1675 1.003 2.24e-04 0.00368
## 1676 1.006 4.31e-06 0.00274
## 1677 1.006 3.33e-06 0.00274
## 1678 1.006 2.42e-07 0.00298
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## 1682 0.994 6.27e-04 0.00310
## 1683 1.005 2.10e-05 0.00224
## 1684 1.005 1.15e-08 0.00180
## 1685 1.005 2.35e-04 0.00486
## 1686 1.006 4.01e-05 0.00382
## 1687 1.005 5.81e-06 0.00189
## 1688 1.005 6.98e-05 0.00308
## 1689 1.005 3.00e-06 0.00267
## 1690 1.001 3.00e-04 0.00330
## 1691 1.006 1.16e-05 0.00316
## 1692 1.003 6.50e-05 0.00208
## 1693 1.005 2.90e-05 0.00257
## 1694 1.007 2.11e-06 0.00370
## 1695 1.005 5.30e-06 0.00186
## 1696 1.005 1.10e-06 0.00197
## 1697 0.993 4.67e-04 0.00212
## 1698 1.002 2.33e-04 0.00331
## 1699 1.004 1.28e-04 0.00332
## 1700 1.005 8.43e-05 0.00349
## 1701 1.006 8.48e-05 0.00422
## 1702 1.006 4.63e-06 0.00320
## 1703 0.999 3.45e-04 0.00293
## 1704 0.999 3.29e-04 0.00289
## 1705 1.006 1.10e-04 0.00487
## 1706 1.000 3.40e-04 0.00308
## 1707 1.006 2.34e-08 0.00300
## 1708 1.004 6.88e-05 0.00255
## 1709 1.007 9.77e-06 0.00385
## 1710 1.006 8.90e-07 0.00330
## 1711 1.005 1.12e-06 0.00179
## 1712 1.002 1.46e-04 0.00238
## 1713 1.006 1.07e-05 0.00287
## 1714 1.005 4.77e-06 0.00186
## 1715 0.999 5.80e-04 0.00400
## 1716 0.998 5.54e-04 0.00361
## 1717 1.000 1.95e-04 0.00211
## 1718 1.005 7.79e-05 0.00330
## 1719 1.006 5.65e-06 0.00282
```

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## 1720 0.996 5.58e-04 0.00311
## 1721 0.995 3.78e-04 0.00210
## 1722 1.004 7.79e-05 0.00263
## 1723 1.004 9.64e-05 0.00321
## 1724 1.006 6.11e-08 0.00289
## 1725 1.006 5.44e-06 0.00309
## 1726 1.001 2.23e-04 0.00268
## 1727 1.002 8.46e-05 0.00191
## 1728 1.005 9.55e-05 0.00358
## 1729 1.004 2.18e-05 0.00182
## 1730 1.001 2.42e-04 0.00296
## 1731 1.005 4.92e-06 0.00255
## 1732 0.992 4.22e-04 0.00182
## 1733 1.002 1.25e-04 0.00241
## 1734 1.006 1.27e-05 0.00321
## 1735 1.001 7.52e-05 0.00129
## 1736 1.006 9.10e-06 0.00281
## 1737 1.003 2.14e-04 0.00369
## 1738 1.003 1.50e-04 0.00310
## 1739 1.005 1.60e-06 0.00262
## 1740 1.004 9.08e-05 0.00288
## 1741 1.005 6.21e-07 0.00209
## 1742 1.005 4.28e-07 0.00245
## 1743 1.004 1.24e-04 0.00312
## 1744 1.005 1.71e-06 0.00199
## 1745 1.003 1.38e-04 0.00293
## 1746 1.006 4.93e-05 0.00372
## 1747 1.002 1.73e-04 0.00273
## 1748 1.005 1.33e-05 0.00252
## 1749 1.007 5.71e-07 0.00375
## 1750 1.006 2.31e-06 0.00335
## 1751 1.004 6.29e-05 0.00235
## 1752 1.006 3.71e-05 0.00403
## 1753 1.007 1.02e-05 0.00379
## 1754 1.005 9.21e-06 0.00276
## 1755 1.004 1.02e-05 0.00161
## 1756 1.006 1.32e-05 0.00319
## 1757 1.005 4.50e-07 0.00245
## 1758 1.002 1.84e-04 0.00272
## 1759 1.001 9.51e-05 0.00166
## 1760 1.006 8.56e-06 0.00338
## 1761 1.004 3.78e-05 0.00212
## 1762 1.004 7.63e-06 0.00174
## 1763 1.005 3.24e-07 0.00222
## 1764 1.007 5.34e-06 0.00382
## 1765 1.006 5.38e-05 0.00361
## 1766 1.000 2.84e-04 0.00281
## 1767 1.003 7.95e-05 0.00228
## 1768 1.002 1.31e-04 0.00219
## 1769 1.006 4.83e-06 0.00284
```



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## 1770 1.003 9.63e-05 0.00262
## 1771 1.006 2.64e-05 0.00364
## 1772 1.007 1.43e-06 0.00382
## 1773 1.004 7.24e-05 0.00263
## 1774 1.005 6.85e-06 0.00245
## 1775 0.999 4.32e-04 0.00354
## 1776 0.987 7.35e-04 0.00234 *
## 1777 1.003 8.79e-05 0.00230
## 1778 1.003 2.17e-04 0.00383
## 1779 1.001 1.30e-04 0.00212
## 1780 0.991 3.95e-04 0.00170 *
## 1781 1.005 6.27e-06 0.00189
## 1782 0.996 5.67e-04 0.00309
## 1783 1.002 1.70e-04 0.00288
## 1784 1.005 2.63e-07 0.00262
## 1785 1.006 6.01e-05 0.00423
## 1786 1.001 2.19e-04 0.00261
## 1787 1.006 1.04e-05 0.00332
## 1788 1.006 4.16e-05 0.00372
## 1789 1.005 8.04e-06 0.00268
## 1790 1.005 1.67e-05 0.00255
## 1791 1.002 2.32e-04 0.00325
## 1792 1.003 1.82e-04 0.00339
## 1793 1.005 7.83e-08 0.00167
## 1794 1.005 5.55e-06 0.00202
## 1795 1.003 1.24e-04 0.00285
## 1796 1.002 1.17e-04 0.00234
## 1797 1.000 1.41e-04 0.00165
## 1798 1.008 6.22e-05 0.00576
## 1799 1.007 2.24e-05 0.00453
## 1800 1.005 5.74e-06 0.00219
## 1801 1.005 2.26e-05 0.00290
## 1802 1.005 3.44e-07 0.00197
## 1803 1.001 1.67e-04 0.00237
## 1804 1.000 1.50e-04 0.00180
## 1805 1.002 1.51e-04 0.00242
## 1806 1.006 8.66e-08 0.00304
## 1807 0.999 3.32e-04 0.00279
## 1808 1.000 3.43e-04 0.00312
## 1809 1.002 2.17e-04 0.00292
## 1810 1.005 2.15e-06 0.00243
## 1811 1.005 9.36e-06 0.00282
## 1812 1.004 2.20e-05 0.00182
## 1813 1.006 3.97e-05 0.00403
## 1814 1.005 6.82e-05 0.00344
## 1815 1.007 3.16e-08 0.00403
## 1816 1.003 1.04e-04 0.00247
## 1817 1.001 2.29e-04 0.00294
## 1818 1.001 2.42e-04 0.00284
## 1819 0.999 1.86e-04 0.00181
```

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## 1820 1.005 1.62e-05 0.00275
## 1821 1.003 7.69e-05 0.00242
## 1822 1.005 1.01e-04 0.00334
## 1823 1.006 1.22e-04 0.00448
## 1824 1.004 4.36e-06 0.00176
## 1825 0.997 1.92e-04 0.00143
## 1826 1.005 2.86e-09 0.00213
## 1827 1.006 1.22e-04 0.00436
## 1828 1.000 6.44e-04 0.00465
## 1829 1.003 5.47e-05 0.00197
## 1830 0.998 3.38e-04 0.00265
## 1831 1.002 1.35e-04 0.00232
## 1832 1.001 2.03e-04 0.00247
## 1833 0.992 6.49e-04 0.00264
## 1834 1.003 1.80e-04 0.00308
## 1835 1.006 5.41e-05 0.00397
## 1836 0.986 9.85e-04 0.00284 *
## 1837 1.005 1.71e-06 0.00249
## 1838 1.005 6.04e-05 0.00342
## 1839 1.005 1.28e-05 0.00249
## 1840 1.006 2.58e-06 0.00344
## 1841 1.007 2.20e-05 0.00446
## 1842 1.004 4.10e-06 0.00127
## 1843 1.004 3.73e-06 0.00170
## 1844 1.004 1.14e-06 0.00149
## 1845 0.996 2.21e-04 0.00158
## 1846 1.006 5.59e-05 0.00371
## 1847 1.002 3.46e-04 0.00384
## 1848 0.996 2.82e-04 0.00189
## 1849 0.996 2.56e-04 0.00174
## 1850 1.003 3.97e-04 0.00460
## 1851 1.005 9.68e-08 0.00219
## 1852 0.994 7.25e-04 0.00330
## 1853 1.005 2.83e-05 0.00293
## 1854 0.999 2.76e-04 0.00242
## 1855 0.997 4.86e-04 0.00306
## 1856 1.006 1.28e-05 0.00305
## 1857 0.997 2.60e-04 0.00184
## 1858 1.007 1.24e-04 0.00532
## 1859 1.005 3.83e-05 0.00287
## 1860 1.005 1.43e-04 0.00425
## 1861 1.002 1.66e-04 0.00252
## 1862 1.006 1.95e-05 0.00322
## 1863 1.002 1.90e-04 0.00285
## 1864 1.002 1.18e-04 0.00234
## 1865 1.005 6.87e-06 0.00255
## 1866 1.001 1.05e-04 0.00176
## 1867 1.004 1.01e-04 0.00319
## 1868 1.005 1.39e-06 0.00182
## 1869 1.006 1.28e-05 0.00340
```

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## 1870 1.006 5.32e-06 0.00329
## 1871 1.005 3.20e-08 0.00221
## 1872 1.002 1.30e-04 0.00214
## 1873 1.005 2.03e-05 0.00231
## 1874 1.004 3.91e-05 0.00218
## 1875 1.001 7.52e-05 0.00130
## 1876 1.003 6.14e-05 0.00213
## 1877 1.005 1.38e-04 0.00423
## 1878 1.005 7.70e-05 0.00342
## 1879 0.999 5.45e-04 0.00407
## 1880 1.005 1.05e-05 0.00273
## 1881 1.006 3.98e-05 0.00352
## 1882 1.006 2.39e-05 0.00309
## 1883 1.000 1.43e-04 0.00167
## 1884 1.005 3.42e-05 0.00316
## 1885 1.003 1.61e-04 0.00298
## 1886 0.993 5.22e-04 0.00244
## 1887 0.999 3.44e-04 0.00281
## 1888 1.001 4.86e-04 0.00424
## 1889 1.005 1.65e-04 0.00410
## 1890 1.004 1.91e-04 0.00391
## 1891 1.006 8.17e-06 0.00354
## 1892 1.006 7.44e-06 0.00333
## 1893 0.996 6.07e-04 0.00344
## 1894 1.003 1.39e-04 0.00281
## 1895 1.000 2.71e-04 0.00279
## 1896 1.006 5.80e-06 0.00296
## 1897 1.004 6.25e-06 0.00135
## 1898 1.004 9.29e-06 0.00188
## 1899 0.995 3.54e-04 0.00197
## 1900 0.996 6.13e-04 0.00335
## 1901 1.005 1.66e-05 0.00222
## 1902 1.006 2.15e-05 0.00345
## 1903 1.004 1.48e-04 0.00353
## 1904 1.005 8.64e-06 0.00263
## 1905 1.004 8.53e-06 0.00186
## 1906 1.003 1.91e-04 0.00357
## 1907 1.006 8.24e-06 0.00320
## 1908 1.005 1.20e-06 0.00206
## 1909 1.005 5.64e-05 0.00295
## 1910 1.003 1.91e-04 0.00333
## 1911 1.004 4.72e-05 0.00226
## 1912 0.997 4.01e-04 0.00268
## 1913 1.006 9.93e-06 0.00298
## 1914 1.005 1.46e-05 0.00231
## 1915 0.997 3.45e-04 0.00237
## 1916 1.005 2.62e-05 0.00274
## 1917 1.005 8.57e-07 0.00241
## 1918 1.004 1.27e-04 0.00317
## 1919 1.005 9.97e-07 0.00187
```

##	1920	1.001	4.05e-04	0.00380	
##	1921	1.006	2.12e-06	0.00351	
##	1922	0.998	2.91e-04	0.00239	
##	1923	0.997	4.37e-04	0.00294	
##	1924	0.990	6.21e-04	0.00235	*
##	1925	0.997	3.71e-04	0.00256	
##	1926	1.004	3.64e-05	0.00193	
##	1927	1.003	5.21e-05	0.00203	
##	1928	1.004	2.32e-05	0.00177	
##	1929	1.004	1.17e-05	0.00160	
##	1930	1.001	2.27e-04	0.00265	
##	1931	1.005	1.52e-06	0.00229	
##	1932	1.006	4.49e-07	0.00280	
##	1933	1.005	2.18e-06	0.00239	
##	1934	1.004	2.53e-05	0.00176	
##	1935	1.004	4.62e-05	0.00257	
##	1936	1.005	8.57e-06	0.00279	
##	1937	1.002	1.44e-04	0.00251	
##	1938	1.004	8.32e-07	0.00164	
##	1939	1.001	1.61e-04	0.00225	
##	1940	0.998	5.28e-04	0.00353	
##	1941	1.005	1.48e-05	0.00260	
##	1942	1.004	1.22e-04	0.00315	
##	1943	1.006	8.03e-06	0.00339	
##	1944	1.002	1.24e-04	0.00227	
##	1945	1.006	5.92e-07	0.00358	
##	1946	0.996	6.12e-04	0.00335	
##	1947	1.004	8.25e-05	0.00284	
##	1948	1.002	3.29e-04	0.00376	
##	1949	1.002	1.87e-04	0.00267	
##	1950	1.002	6.43e-05	0.00156	
##	1951	1.002	1.70e-04	0.00267	
##	1952	1.007	4.26e-06	0.00373	
##	1953	1.006	2.42e-05	0.00319	
##	1954	1.001	2.16e-04	0.00271	
##	1955	1.005	1.08e-04	0.00405	
##	1956	1.005	1.08e-04	0.00361	
##	1957	1.005	1.99e-05	0.00279	
##	1958	1.002	2.04e-04	0.00285	
##	1959	1.000	1.87e-04	0.00213	
##	1960	1.007	2.91e-08	0.00367	
##	1961	0.993	5.28e-04	0.00250	
##	1962	1.004	1.26e-04	0.00330	
##	1963	0.983	1.18e-03	0.00295	*
##	1964	1.004	9.23e-05	0.00277	
##	1965	1.007	1.06e-05	0.00412	
##	1966	1.002	1.15e-04	0.00238	
##	1967	1.004	9.53e-06	0.00163	
##	1968	1.000	2.63e-04	0.00275	
##	1969	1.005	1.28e-05	0.00281	

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## 1970 1.002 1.07e-04 0.00190
## 1971 1.005 1.67e-06 0.00192
## 1972 1.005 3.38e-05 0.00262
## 1973 0.999 2.80e-04 0.00256
## 1974 1.007 2.26e-06 0.00389
## 1975 1.005 1.75e-08 0.00218
## 1976 0.998 4.24e-04 0.00303
## 1977 0.996 5.13e-04 0.00287
## 1978 1.005 1.30e-05 0.00211
## 1979 1.005 7.09e-05 0.00366
## 1980 1.003 2.00e-04 0.00327
## 1981 0.997 5.95e-04 0.00359
## 1982 1.006 5.64e-06 0.00361
## 1983 1.000 3.71e-04 0.00329
## 1984 0.995 4.64e-04 0.00251
## 1985 1.007 3.07e-05 0.00440
## 1986 1.003 8.73e-05 0.00231
## 1987 1.005 2.79e-05 0.00299
## 1988 0.999 2.27e-04 0.00223
## 1989 0.997 2.96e-04 0.00223
## 1990 1.004 3.49e-06 0.00125
## 1991 1.002 8.38e-05 0.00192
## 1992 1.006 3.56e-05 0.00347
## 1993 1.005 1.98e-05 0.00278
## 1994 1.002 3.55e-04 0.00397
## 1995 1.000 1.11e-04 0.00143
## 1996 1.000 3.22e-04 0.00303
## 1997 1.004 2.03e-05 0.00169
## 1998 1.007 1.04e-06 0.00425
## 1999 0.995 6.68e-04 0.00338
## 2000 1.002 1.66e-04 0.00250
## 2001 0.997 5.01e-04 0.00306
## 2002 0.997 3.04e-04 0.00218
## 2003 1.002 8.29e-05 0.00189
## 2004 1.004 2.69e-04 0.00429
## 2005 1.005 2.24e-05 0.00265
## 2006 1.002 1.00e-04 0.00201
## 2007 1.006 6.56e-06 0.00371
## 2008 0.997 5.06e-04 0.00312
## 2009 1.005 6.86e-07 0.00174
## 2010 1.006 4.87e-05 0.00379
## 2011 1.004 8.10e-05 0.00287
## 2012 1.002 1.20e-04 0.00238
## 2013 1.005 1.33e-07 0.00221
## 2014 0.998 2.18e-04 0.00180
## 2015 0.992 6.65e-04 0.00278
## 2016 1.006 2.16e-05 0.00362
## 2017 1.006 1.55e-06 0.00316
## 2018 0.999 2.59e-04 0.00235
## 2019 1.004 1.08e-04 0.00292
```

##	2020	1.000	2.94e-04	0.00282	
##	2021	1.005	4.05e-07	0.00259	
##	2022	1.007	3.33e-05	0.00425	
##	2023	1.004	5.26e-06	0.00170	
##	2024	1.005	3.42e-06	0.00218	
##	2025	0.991	9.95e-04	0.00359	*
##	2026	1.005	1.31e-04	0.00416	
##	2027	1.004	1.64e-04	0.00351	
##	2028	1.002	1.77e-04	0.00259	
##	2029	0.993	4.14e-04	0.00204	
##	2030	1.006	2.64e-06	0.00301	
##	2031	1.007	3.24e-05	0.00414	
##	2032	0.997	4.24e-04	0.00282	
##	2033	0.996	3.27e-04	0.00211	
##	2034	1.001	1.69e-04	0.00224	
##	2035	1.000	1.51e-04	0.00178	
##	2036	1.005	1.77e-05	0.00225	
##	2037	1.005	6.43e-06	0.00260	
##	2038	1.006	8.28e-05	0.00456	
##	2039	1.000	2.13e-04	0.00225	
##	2040	1.004	9.36e-06	0.00160	
##	2041	1.005	9.96e-06	0.00265	
##	2042	1.004	1.84e-04	0.00376	
##	2043	1.002	2.46e-04	0.00322	
##	2044	1.003	1.46e-04	0.00285	
##	2045	1.005	5.48e-05	0.00347	
##	2046	1.007	5.91e-06	0.00408	
##	2047	1.006	1.04e-05	0.00293	
##	2048	1.003	1.27e-04	0.00254	
##	2049	0.996	4.60e-04	0.00282	
##	2050	0.999	2.21e-04	0.00210	
##	2051	1.004	9.44e-05	0.00276	
##	2052	1.004	8.54e-05	0.00293	
##	2053	0.998	5.61e-04	0.00366	
##	2054	1.005	2.63e-05	0.00250	
##	2055	1.002	1.68e-04	0.00271	
##	2056	1.004	1.77e-05	0.00208	
##	2057	0.995	4.85e-04	0.00269	
##	2058	1.006	9.26e-08	0.00274	
##	2059	1.006	2.67e-06	0.00309	
##	2060	1.005	3.47e-07	0.00172	
##	2061	1.001	1.94e-04	0.00251	
##	2062	1.006	8.18e-08	0.00303	
##	2063	1.004	6.51e-05	0.00248	
##	2064	1.006	7.79e-05	0.00405	
##	2065	1.004	1.23e-04	0.00308	
##	2066	0.991	7.45e-04	0.00292	*
##	2067	1.007	1.79e-06	0.00372	
##	2068	1.005	4.09e-08	0.00222	
##	2069	1.004	1.32e-05	0.00156	

```
## 2070 0.998 5.68e-04 0.00376
## 2071 1.002 1.99e-04 0.00282
## 2072 1.005 5.92e-05 0.00290
## 2073 1.001 1.13e-04 0.00164
## 2074 1.005 4.66e-05 0.00300
## 2075 1.006 4.52e-05 0.00388
## 2076 1.006 6.93e-07 0.00344
## 2077 1.001 1.80e-04 0.00256
## 2078 1.005 2.76e-05 0.00276
## 2079 0.993 4.11e-04 0.00204
## 2080 1.001 2.53e-04 0.00289
## 2081 1.002 1.13e-04 0.00214
## 2082 1.000 2.44e-04 0.00265
## 2083 0.998 5.19e-04 0.00342
## 2084 1.005 4.62e-05 0.00282
## 2085 1.007 1.69e-06 0.00408
## 2086 1.006 5.91e-05 0.00420
## 2087 1.005 2.86e-06 0.00220
## 2088 1.005 2.90e-05 0.00262
## 2089 1.005 3.53e-05 0.00294
## 2090 1.004 1.19e-05 0.00161
## 2091 1.002 8.01e-05 0.00187
## 2092 0.991 4.29e-04 0.00181 *
## 2093 0.997 3.18e-04 0.00214
## 2094 0.999 4.95e-04 0.00368
## 2095 1.003 1.33e-04 0.00282
## 2096 1.005 4.09e-05 0.00315
## 2097 0.996 5.31e-04 0.00310
## 2098 1.000 2.91e-04 0.00297
## 2099 0.998 2.76e-04 0.00222
## 2100 1.003 9.56e-05 0.00252
## 2101 1.001 1.05e-04 0.00184
## 2102 1.006 7.47e-07 0.00328
## 2103 1.001 2.12e-04 0.00270
## 2104 1.005 2.50e-05 0.00306
## 2105 1.005 1.74e-06 0.00243
## 2106 1.004 2.01e-05 0.00171
## 2107 1.005 3.92e-08 0.00175
## 2108 1.005 9.55e-06 0.00248
## 2109 1.003 9.46e-05 0.00258
## 2110 1.006 9.50e-06 0.00303
## 2111 1.006 1.03e-06 0.00285
## 2112 0.998 3.59e-04 0.00280
## 2113 1.006 1.27e-05 0.00313
## 2114 1.000 2.24e-04 0.00241
## 2115 1.005 9.77e-07 0.00213
## 2116 1.005 2.42e-06 0.00205
## 2117 1.004 2.35e-05 0.00176
## 2118 1.002 2.22e-04 0.00330
## 2119 1.000 1.42e-04 0.00183
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## 2120 1.000 3.92e-04 0.00335
## 2121 1.007 2.34e-06 0.00369
## 2122 1.002 7.96e-05 0.00181
## 2123 0.993 9.14e-04 0.00385
## 2124 1.006 4.47e-05 0.00366
## 2125 1.002 6.46e-05 0.00155
## 2126 0.995 5.38e-04 0.00281
## 2127 1.007 9.73e-07 0.00392
## 2128 1.004 2.07e-06 0.00140
## 2129 1.002 8.24e-05 0.00194
## 2130 1.004 2.43e-05 0.00179
## 2131 1.004 9.76e-05 0.00281
## 2132 0.999 3.71e-04 0.00307
## 2133 1.006 2.74e-05 0.00398
## 2134 1.006 1.36e-05 0.00301
## 2135 1.000 2.03e-04 0.00227
## 2136 1.000 3.00e-04 0.00284
## 2137 1.004 9.11e-06 0.00178
## 2138 1.006 5.06e-05 0.00383
## 2139 1.005 1.80e-04 0.00475
## 2140 1.003 9.22e-05 0.00216
## 2141 1.001 1.65e-04 0.00212
## 2142 1.005 1.13e-05 0.00205
## 2143 1.004 8.94e-06 0.00150
## 2144 1.005 1.75e-05 0.00222
## 2145 1.001 1.22e-04 0.00194
## 2146 0.998 2.23e-04 0.00183
## 2147 1.006 1.22e-08 0.00320
## 2148 1.001 1.59e-04 0.00209
## 2149 1.001 1.88e-04 0.00247
## 2150 1.005 3.23e-07 0.00226
## 2151 1.001 1.67e-04 0.00222
## 2152 1.002 1.25e-04 0.00225
## 2153 1.003 8.44e-05 0.00206
## 2154 1.005 1.22e-07 0.00254
## 2155 1.006 1.27e-05 0.00328
## 2156 1.005 2.63e-05 0.00233
## 2157 1.002 1.22e-04 0.00209
## 2158 1.002 2.49e-04 0.00325
## 2159 1.002 1.19e-04 0.00220
## 2160 1.006 4.43e-06 0.00334
## 2161 1.004 7.20e-06 0.00141
## 2162 1.006 2.75e-05 0.00338
## 2163 1.004 5.62e-05 0.00243
## 2164 1.003 9.17e-05 0.00248
## 2165 1.006 5.84e-06 0.00323
## 2166 1.005 2.10e-05 0.00254
## 2167 1.002 1.65e-04 0.00279
## 2168 1.003 7.84e-05 0.00194
## 2169 0.999 3.45e-04 0.00280
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## 2170 1.004 3.74e-06 0.00133
## 2171 0.998 4.38e-04 0.00316
## 2172 1.005 3.65e-06 0.00260
## 2173 1.007 1.65e-05 0.00391
## 2174 1.005 1.94e-06 0.00195
## 2175 1.004 9.89e-06 0.00166
## 2176 1.007 8.93e-06 0.00425
## 2177 1.005 1.41e-05 0.00248
## 2178 1.005 3.65e-05 0.00264
## 2179 1.003 8.64e-05 0.00220
## 2180 1.005 7.28e-05 0.00316
## 2181 0.993 5.69e-04 0.00268
## 2182 1.004 1.46e-06 0.00152
## 2183 1.006 5.12e-08 0.00277
## 2184 1.004 1.02e-04 0.00321
## 2185 1.005 6.70e-06 0.00253
## 2186 1.005 5.33e-06 0.00273
## 2187 1.004 4.60e-05 0.00254
## 2188 1.006 7.41e-10 0.00348
## 2189 1.006 8.79e-07 0.00314
## 2190 1.002 8.10e-05 0.00185
## 2191 1.005 1.46e-05 0.00215
## 2192 1.004 1.05e-05 0.00190
## 2193 1.008 1.07e-05 0.00494
## 2194 1.005 1.01e-04 0.00361
## 2195 1.005 2.46e-08 0.00222
## 2196 1.005 7.07e-05 0.00309
## 2197 1.006 5.33e-06 0.00281
## 2198 1.002 1.22e-04 0.00244
## 2199 1.006 6.16e-09 0.00303
## 2200 0.991 6.64e-04 0.00256 *
## 2201 1.001 2.21e-04 0.00283
## 2202 0.998 4.59e-04 0.00313
## 2203 1.003 1.45e-04 0.00293
## 2204 1.006 3.67e-05 0.00344
## 2205 1.005 4.35e-05 0.00316
## 2206 1.006 1.13e-05 0.00336
## 2207 1.003 1.05e-04 0.00273
## 2208 1.004 7.48e-06 0.00151
## 2209 1.006 1.13e-05 0.00310
## 2210 1.001 1.55e-04 0.00237
## 2211 1.007 4.59e-08 0.00427
## 2212 1.006 7.21e-05 0.00428
## 2213 1.004 1.25e-05 0.00196
## 2214 1.005 1.40e-05 0.00272
## 2215 0.999 3.60e-04 0.00285
## 2216 1.006 1.93e-05 0.00317
## 2217 1.004 5.47e-05 0.00249
## 2218 1.000 1.74e-04 0.00212
## 2219 1.000 1.76e-04 0.00216
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## 2220 1.001 1.88e-04 0.00265
## 2221 1.005 1.17e-04 0.00354
## 2222 1.007 1.53e-05 0.00438
## 2223 1.005 1.45e-07 0.00242
## 2224 1.006 3.17e-05 0.00370
## 2225 0.999 2.19e-04 0.00217
## 2226 1.005 7.67e-07 0.00175
## 2227 1.000 9.36e-05 0.00128
## 2228 1.004 6.01e-07 0.00152
## 2229 1.007 3.50e-06 0.00413
## 2230 1.007 2.35e-05 0.00419
## 2231 1.005 2.94e-05 0.00303
## 2232 0.997 3.06e-04 0.00210
## 2233 1.005 1.26e-04 0.00399
## 2234 0.997 4.40e-04 0.00281
## 2235 1.007 7.23e-06 0.00395
## 2236 1.006 5.70e-06 0.00308
## 2237 1.005 1.53e-07 0.00221
## 2238 1.005 1.81e-06 0.00180
## 2239 1.003 1.49e-04 0.00318
## 2240 0.991 7.79e-04 0.00294 *
## 2241 1.006 8.18e-06 0.00337
## 2242 1.005 1.64e-04 0.00432
## 2243 1.004 1.51e-07 0.00158
## 2244 1.005 5.97e-05 0.00304
## 2245 1.003 1.45e-04 0.00303
## 2246 1.004 5.00e-06 0.00144
## 2247 1.001 1.89e-04 0.00258
## 2248 1.005 4.49e-06 0.00266
## 2249 1.006 4.27e-05 0.00398
## 2250 1.007 3.31e-08 0.00370
## 2251 1.004 8.03e-05 0.00266
## 2252 1.006 7.10e-06 0.00331
## 2253 1.006 6.08e-06 0.00303
## 2254 1.006 7.04e-08 0.00338
## 2255 1.005 8.29e-06 0.00251
## 2256 1.000 3.19e-04 0.00322
## 2257 1.004 7.03e-05 0.00290
## 2258 1.002 7.96e-05 0.00186
## 2259 1.002 5.12e-04 0.00497
## 2260 1.005 5.73e-07 0.00239
## 2261 1.004 1.73e-04 0.00369
## 2262 1.005 5.97e-05 0.00344
## 2263 1.005 1.98e-08 0.00221
## 2264 1.005 8.87e-07 0.00225
## 2265 1.001 1.19e-04 0.00177
## 2266 1.004 9.67e-05 0.00313
## 2267 1.000 2.67e-04 0.00273
## 2268 1.003 1.43e-04 0.00295
## 2269 1.004 1.71e-06 0.00159
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## 2270 1.000 4.01e-04 0.00341
## 2271 1.002 1.03e-04 0.00212
## 2272 1.003 2.05e-04 0.00346
## 2273 0.994 6.41e-04 0.00300
## 2274 1.003 1.35e-04 0.00292
## 2275 1.007 2.25e-06 0.00396
## 2276 0.996 5.91e-04 0.00332
## 2277 0.999 3.42e-04 0.00301
## 2278 0.998 6.28e-04 0.00387
## 2279 1.001 7.95e-05 0.00151
## 2280 1.005 8.52e-05 0.00324
## 2281 0.995 7.17e-04 0.00363
## 2282 1.004 2.46e-04 0.00436
## 2283 0.991 7.50e-04 0.00287 *
## 2284 0.998 3.62e-04 0.00263
## 2285 1.006 3.05e-07 0.00342
## 2286 1.001 3.97e-04 0.00407
## 2287 1.003 6.34e-05 0.00203
## 2288 1.005 2.05e-06 0.00210
## 2289 1.006 6.56e-06 0.00284
## 2290 1.004 9.97e-05 0.00277
## 2291 0.999 3.24e-04 0.00288
## 2292 1.002 1.51e-04 0.00265
## 2293 0.993 5.25e-04 0.00242
## 2294 1.006 2.35e-05 0.00348
## 2295 1.006 4.88e-07 0.00306
## 2296 0.995 4.37e-04 0.00238
## 2297 0.998 4.58e-04 0.00337
## 2298 1.005 9.63e-06 0.00254
## 2299 0.996 3.27e-04 0.00203
## 2300 1.006 2.36e-05 0.00334
## 2301 1.001 1.94e-04 0.00249
## 2302 0.997 1.57e-04 0.00129
## 2303 1.005 1.13e-04 0.00370
## 2304 1.006 4.07e-06 0.00319
## 2305 1.006 5.53e-05 0.00366
## 2306 1.006 2.01e-06 0.00340
## 2307 1.006 1.27e-04 0.00431
## 2308 1.004 4.62e-06 0.00130
## 2309 1.003 8.41e-05 0.00211
## 2310 1.005 9.16e-06 0.00196
## 2311 1.005 6.35e-05 0.00323
## 2312 1.004 2.08e-05 0.00166
## 2313 1.005 3.40e-08 0.00221
## 2314 1.006 8.44e-08 0.00356
## 2315 0.999 3.19e-04 0.00270
## 2316 1.005 3.24e-06 0.00196
## 2317 1.005 1.26e-04 0.00380
## 2318 1.005 2.69e-06 0.00215
## 2319 1.001 1.23e-04 0.00176
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## 2320 1.003 2.68e-04 0.00375
## 2321 1.004 3.57e-05 0.00236
## 2322 1.006 5.26e-06 0.00282
## 2323 1.000 3.37e-04 0.00307
## 2324 1.000 3.12e-04 0.00302
## 2325 1.006 3.68e-05 0.00338
## 2326 1.005 1.02e-04 0.00350
## 2327 1.004 3.40e-05 0.00239
## 2328 1.006 1.99e-05 0.00331
## 2329 1.007 1.45e-06 0.00370
## 2330 0.997 4.01e-04 0.00257
## 2331 1.003 1.09e-04 0.00271
## 2332 1.000 2.02e-04 0.00227
## 2333 0.997 3.43e-04 0.00243
## 2334 1.005 1.62e-05 0.00282
## 2335 1.003 7.13e-05 0.00206
## 2336 1.006 2.15e-05 0.00387
## 2337 1.005 4.73e-07 0.00264
## 2338 1.003 2.05e-04 0.00362
## 2339 1.002 1.46e-04 0.00241
## 2340 1.008 7.50e-05 0.00589
## 2341 1.005 4.24e-05 0.00332
## 2342 1.006 1.69e-05 0.00351
## 2343 1.005 2.25e-05 0.00248
## 2344 1.008 8.62e-06 0.00506
## 2345 1.007 3.12e-06 0.00371
## 2346 0.995 3.25e-04 0.00196
## 2347 1.005 1.25e-05 0.00283
## 2348 1.005 3.53e-05 0.00259
## 2349 0.996 2.76e-04 0.00188
## 2350 1.005 3.06e-06 0.00262
## 2351 1.006 1.38e-05 0.00326
## 2352 1.005 4.15e-05 0.00258
## 2353 1.007 9.20e-08 0.00382
## 2354 1.005 1.87e-08 0.00216
## 2355 1.006 7.92e-05 0.00417
## 2356 1.005 6.72e-06 0.00194
## 2357 0.997 3.80e-04 0.00249
## 2358 1.006 9.02e-05 0.00450
## 2359 1.001 9.27e-05 0.00166
## 2360 1.000 3.03e-04 0.00296
## 2361 1.002 4.19e-04 0.00447
## 2362 1.002 8.33e-05 0.00193
## 2363 1.003 1.16e-04 0.00264
## 2364 1.005 9.28e-08 0.00250
## 2365 1.006 1.14e-07 0.00355
## 2366 1.005 3.51e-08 0.00233
## 2367 1.004 8.20e-05 0.00254
## 2368 1.004 1.76e-05 0.00192
## 2369 1.006 1.93e-08 0.00345
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## 2370 1.004 2.11e-05 0.00178
## 2371 1.007 9.08e-08 0.00365
## 2372 1.003 1.36e-04 0.00308
## 2373 1.006 1.10e-05 0.00355
## 2374 0.998 2.53e-04 0.00216
## 2375 1.001 2.68e-04 0.00319
## 2376 1.005 7.01e-05 0.00327
## 2377 1.004 7.06e-06 0.00146
## 2378 1.006 1.31e-05 0.00334
## 2379 1.003 1.36e-04 0.00297
## 2380 1.001 2.11e-04 0.00281
## 2381 1.004 1.68e-04 0.00396
## 2382 1.006 2.34e-05 0.00329
## 2383 0.998 5.91e-04 0.00373
## 2384 1.001 1.73e-04 0.00226
## 2385 1.006 9.11e-06 0.00306
## 2386 1.004 6.47e-06 0.00178
## 2387 1.001 2.12e-04 0.00260
## 2388 0.998 2.81e-04 0.00232
## 2389 0.999 3.41e-04 0.00286
## 2390 1.005 3.13e-05 0.00279
## 2391 1.000 3.05e-04 0.00303
## 2392 1.004 1.60e-04 0.00363
## 2393 1.003 6.17e-05 0.00191
## 2394 1.003 2.21e-04 0.00381
## 2395 1.002 3.42e-04 0.00406
## 2396 1.005 2.69e-04 0.00512
## 2397 1.005 1.43e-04 0.00437
## 2398 1.005 1.79e-05 0.00220
## 2399 1.005 9.52e-06 0.00274
## 2400 1.004 8.72e-05 0.00275
## 2401 1.003 1.26e-04 0.00265
## 2402 1.003 9.44e-05 0.00255
## 2403 1.002 1.09e-04 0.00193
## 2404 1.005 4.18e-07 0.00180
## 2405 1.005 9.10e-05 0.00354
## 2406 1.003 1.18e-04 0.00267
## 2407 1.006 9.80e-09 0.00330
## 2408 0.992 1.11e-03 0.00412
## 2409 1.008 6.72e-05 0.00539
## 2410 1.005 1.12e-05 0.00232
## 2411 1.001 2.02e-04 0.00272
## 2412 0.999 2.28e-04 0.00226
## 2413 1.005 9.79e-05 0.00345
## 2414 1.001 2.90e-04 0.00305
## 2415 1.005 3.51e-05 0.00312
## 2416 1.005 1.77e-04 0.00442
## 2417 1.007 8.91e-05 0.00531
## 2418 0.996 2.83e-04 0.00192
## 2419 1.004 5.05e-06 0.00132
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## 2420 0.993 6.78e-04 0.00294
## 2421 1.004 1.74e-05 0.00174
## 2422 1.004 1.74e-04 0.00386
## 2423 1.000 3.61e-04 0.00336
## 2424 1.000 3.04e-04 0.00303
## 2425 1.006 3.03e-05 0.00347
## 2426 1.006 2.51e-05 0.00380
## 2427 1.001 3.44e-04 0.00367
## 2428 1.005 1.19e-05 0.00285
## 2429 1.006 1.04e-04 0.00416
## 2430 1.004 2.09e-05 0.00218
## 2431 1.004 1.63e-04 0.00352
## 2432 1.002 1.79e-04 0.00285
## 2433 1.004 6.69e-05 0.00287
## 2434 1.003 2.47e-04 0.00405
## 2435 1.005 2.51e-06 0.00205
## 2436 1.005 1.02e-05 0.00225
## 2437 0.997 5.01e-04 0.00315
## 2438 1.004 6.53e-05 0.00246
## 2439 1.006 2.73e-08 0.00300
## 2440 1.002 1.31e-04 0.00225
## 2441 1.004 1.16e-04 0.00294
## 2442 1.002 1.40e-04 0.00231
## 2443 0.999 2.20e-04 0.00200
## 2444 1.004 9.18e-05 0.00295
## 2445 1.004 1.68e-04 0.00361
## 2446 1.006 8.09e-08 0.00313
## 2447 0.999 4.31e-04 0.00340
## 2448 1.002 1.02e-04 0.00193
## 2449 0.995 3.33e-04 0.00198
## 2450 1.006 2.37e-06 0.00297
## 2451 1.002 2.34e-04 0.00329
## 2452 1.005 8.82e-09 0.00216
## 2453 1.005 9.96e-05 0.00348
## 2454 1.004 1.25e-04 0.00332
## 2455 1.004 3.14e-05 0.00202
## 2456 1.005 1.06e-06 0.00188
## 2457 1.006 4.05e-06 0.00341
## 2458 1.006 1.44e-04 0.00470
## 2459 0.997 4.55e-04 0.00292
## 2460 1.002 6.01e-05 0.00161
## 2461 1.001 3.76e-04 0.00391
## 2462 1.005 4.36e-06 0.00230
## 2463 1.004 8.26e-05 0.00252
## 2464 1.002 3.49e-04 0.00408
## 2465 1.004 2.56e-06 0.00129
## 2466 1.006 6.20e-08 0.00275
## 2467 0.998 3.04e-04 0.00229
## 2468 1.005 2.31e-05 0.00260
## 2469 1.004 1.83e-05 0.00208
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## 2470 1.001 1.37e-04 0.00203
## 2471 1.007 1.19e-06 0.00385
## 2472 1.006 1.29e-05 0.00295
## 2473 0.999 3.95e-04 0.00306
## 2474 1.002 7.39e-05 0.00181
## 2475 1.006 9.03e-07 0.00299
## 2476 0.999 3.67e-04 0.00304
## 2477 1.006 3.12e-07 0.00335
## 2478 1.002 1.31e-04 0.00230
## 2479 0.998 5.53e-04 0.00382
## 2480 1.004 1.36e-05 0.00191
## 2481 1.001 1.29e-04 0.00212
## 2482 1.002 2.01e-04 0.00307
## 2483 1.006 1.02e-05 0.00294
## 2484 0.993 6.34e-04 0.00283
## 2485 1.006 5.59e-06 0.00297
## 2486 1.005 1.47e-04 0.00440
## 2487 1.005 4.43e-06 0.00250
## 2488 1.000 5.85e-04 0.00434
## 2489 0.997 5.16e-04 0.00319
## 2490 0.998 2.53e-04 0.00205
## 2491 1.005 4.93e-06 0.00184
## 2492 1.005 1.33e-06 0.00209
## 2493 1.005 2.86e-05 0.00237
## 2494 1.005 4.43e-05 0.00296
## 2495 1.007 4.73e-06 0.00399
## 2496 1.006 4.46e-08 0.00299
## 2497 1.005 1.19e-05 0.00277
## 2498 1.006 4.84e-08 0.00304
## 2499 1.005 9.23e-08 0.00177
## 2500 1.001 1.62e-04 0.00216
## 2501 1.005 3.21e-06 0.00197
## 2502 1.007 4.17e-07 0.00368
## 2503 1.006 2.51e-08 0.00309
## 2504 1.005 1.68e-05 0.00246
## 2505 1.006 2.10e-07 0.00310
## 2506 1.002 7.03e-05 0.00169
## 2507 1.005 1.96e-04 0.00430
## 2508 1.006 3.25e-05 0.00357
## 2509 1.005 2.62e-06 0.00192
## 2510 1.002 1.49e-04 0.00260
## 2511 1.005 3.14e-06 0.00241
## 2512 1.004 5.37e-05 0.00212
## 2513 1.003 1.23e-04 0.00248
## 2514 0.999 2.74e-04 0.00234
## 2515 0.996 5.99e-04 0.00332
## 2516 1.006 1.40e-06 0.00318
## 2517 1.001 1.81e-04 0.00244
## 2518 1.006 2.91e-05 0.00320
## 2519 1.004 1.27e-06 0.00155
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##	2520	1.006	2.02e-05	0.00326	
##	2521	1.006	6.51e-07	0.00327	
##	2522	0.991	4.23e-04	0.00181	*
##	2523	1.002	7.95e-05	0.00187	
##	2524	1.002	1.32e-04	0.00230	
##	2525	0.991	1.13e-03	0.00406	*
##	2526	0.998	3.88e-04	0.00290	
##	2527	1.006	4.53e-09	0.00304	
##	2528	1.003	1.68e-04	0.00322	
##	2529	1.007	5.35e-06	0.00436	
##	2530	1.006	3.67e-06	0.00288	
##	2531	1.006	1.18e-06	0.00285	
##	2532	0.989	6.07e-04	0.00218	*
##	2533	1.006	4.00e-06	0.00287	
##	2534	1.006	7.07e-05	0.00446	
##	2535	1.005	2.19e-06	0.00219	
##	2536	1.005	9.71e-08	0.00229	
##	2537	1.007	3.42e-06	0.00391	
##	2538	1.005	6.86e-05	0.00355	
##	2539	1.003	2.14e-04	0.00342	
##	2540	1.004	1.88e-04	0.00410	
##	2541	1.006	2.80e-06	0.00335	
##	2542	1.004	7.69e-05	0.00298	
##	2543	1.007	1.51e-07	0.00425	
##	2544	0.998	2.53e-04	0.00198	
##	2545	1.004	2.20e-05	0.00174	
##	2546	1.005	2.77e-06	0.00216	
##	2547	1.005	1.52e-05	0.00226	
##	2548	1.005	4.47e-06	0.00202	
##	2549	1.005	5.11e-05	0.00286	
##	2550	1.003	9.90e-05	0.00250	
##	2551	1.003	1.32e-04	0.00269	
##	2552	1.004	1.41e-04	0.00343	
##	2553	1.002	7.86e-05	0.00179	
##	2554	1.004	1.68e-06	0.00150	
##	2555	1.005	5.22e-08	0.00260	
##	2556	0.997	4.44e-04	0.00292	
##	2557	1.006	1.58e-06	0.00324	
##	2558	1.007	3.06e-06	0.00436	
##	2559	1.003	2.03e-04	0.00338	
##	2560	0.998	3.96e-04	0.00291	
##	2561	1.006	2.61e-05	0.00388	
##	2562	1.005	1.22e-05	0.00209	
##	2563	0.996	5.27e-04	0.00307	
##	2564	1.005	1.36e-06	0.00225	
##	2565	1.006	3.57e-06	0.00272	
##	2566	1.001	1.29e-04	0.00192	
##	2567	1.005	7.43e-05	0.00304	
##	2568	1.006	3.66e-06	0.00289	
##	2569	1.000	2.42e-04	0.00241	


```
## 2570 1.001 1.73e-04 0.00248
## 2571 1.005 5.05e-06 0.00236
## 2572 1.005 6.49e-05 0.00338
## 2573 1.004 3.97e-05 0.00213
## 2574 1.001 3.63e-04 0.00374
## 2575 1.005 8.54e-07 0.00168
## 2576 1.001 4.56e-04 0.00413
## 2577 1.004 1.42e-05 0.00176
## 2578 0.998 5.27e-04 0.00352
## 2579 1.007 4.71e-06 0.00451
## 2580 1.007 1.26e-05 0.00396
## 2581 1.005 2.41e-08 0.00176
## 2582 1.006 3.29e-06 0.00275
## 2583 1.005 8.60e-07 0.00171
## 2584 1.004 5.13e-05 0.00210
## 2585 1.003 6.43e-05 0.00204
## 2586 1.003 3.02e-04 0.00403
## 2587 1.003 1.23e-04 0.00270
## 2588 1.004 1.47e-05 0.00161
## 2589 1.005 8.03e-06 0.00216
## 2590 1.005 1.04e-05 0.00246
## 2591 1.006 2.51e-07 0.00305
## 2592 1.005 8.13e-05 0.00322
## 2593 1.005 1.58e-05 0.00266
## 2594 0.998 2.25e-04 0.00201
## 2595 1.005 2.99e-05 0.00300
## 2596 0.998 1.69e-04 0.00158
## 2597 1.006 5.52e-07 0.00337
## 2598 1.005 2.33e-05 0.00243
## 2599 1.006 1.44e-09 0.00285
## 2600 1.000 2.48e-04 0.00262
## 2601 1.005 1.60e-05 0.00268
## 2602 1.002 2.06e-04 0.00307
## 2603 1.002 8.58e-05 0.00191
## 2604 0.996 7.25e-04 0.00390
## 2605 0.996 3.90e-04 0.00246
## 2606 0.995 9.08e-04 0.00434
## 2607 1.001 1.32e-04 0.00184
## 2608 1.004 1.78e-04 0.00407
## 2609 1.003 1.04e-04 0.00239
## 2610 0.990 1.03e-03 0.00356 *
## 2611 1.005 9.49e-06 0.00233
## 2612 0.997 4.22e-04 0.00273
## 2613 0.993 4.22e-04 0.00207
## 2614 1.004 1.17e-06 0.00123
## 2615 1.001 2.43e-04 0.00287
## 2616 1.005 6.49e-05 0.00325
## 2617 1.006 4.20e-06 0.00287
## 2618 1.004 1.43e-04 0.00352
## 2619 1.001 3.35e-04 0.00349
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## 2620 1.005 1.24e-04 0.00389
## 2621 1.005 6.47e-05 0.00292
## 2622 1.007 1.01e-05 0.00429
## 2623 1.005 2.96e-06 0.00209
## 2624 1.002 2.83e-04 0.00365
## 2625 1.000 1.32e-04 0.00174
## 2626 1.006 6.64e-06 0.00352
## 2627 1.005 5.67e-05 0.00307
## 2628 1.007 1.08e-05 0.00430
## 2629 1.006 8.50e-06 0.00327
## 2630 1.003 1.95e-04 0.00338
## 2631 1.006 2.82e-07 0.00287
## 2632 1.006 3.64e-06 0.00278
## 2633 1.007 9.91e-07 0.00384
## 2634 0.993 5.46e-04 0.00248
## 2635 0.996 3.97e-04 0.00235
## 2636 1.003 2.21e-04 0.00358
## 2637 1.005 8.40e-05 0.00384
## 2638 0.998 4.38e-04 0.00315
## 2639 1.000 1.65e-04 0.00197
## 2640 0.997 5.33e-04 0.00339
## 2641 1.004 2.31e-05 0.00207
## 2642 1.006 1.04e-06 0.00273
## 2643 1.004 4.20e-05 0.00202
## 2644 1.005 5.96e-05 0.00304
## 2645 1.005 8.60e-07 0.00245
## 2646 1.001 2.53e-04 0.00285
## 2647 1.001 1.20e-04 0.00177
## 2648 1.002 1.55e-04 0.00250
## 2649 1.006 2.54e-05 0.00327
## 2650 1.004 7.25e-05 0.00256
## 2651 1.004 2.19e-04 0.00402
## 2652 1.005 1.87e-05 0.00298
## 2653 1.004 1.18e-04 0.00301
## 2654 1.005 1.60e-06 0.00233
## 2655 1.005 1.03e-06 0.00258
## 2656 1.004 7.30e-05 0.00268
## 2657 1.007 1.01e-06 0.00456
## 2658 1.002 2.45e-04 0.00321
## 2659 1.004 3.31e-05 0.00213
## 2660 1.005 2.87e-05 0.00285
## 2661 1.005 1.47e-04 0.00413
## 2662 1.006 4.35e-06 0.00348
## 2663 1.006 2.67e-06 0.00289
## 2664 0.991 5.75e-04 0.00233
## 2665 1.001 2.41e-04 0.00304
## 2666 1.006 5.75e-05 0.00360
## 2667 1.006 5.68e-05 0.00391
## 2668 1.004 1.68e-06 0.00165
## 2669 1.002 1.97e-04 0.00286
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## 2670 1.005 5.55e-05 0.00280
## 2671 1.005 3.04e-07 0.00172
## 2672 1.004 2.67e-06 0.00128
## 2673 1.001 8.95e-05 0.00141
## 2674 1.004 1.95e-06 0.00128
## 2675 1.002 9.50e-05 0.00204
## 2676 1.004 3.73e-05 0.00229
## 2677 1.007 2.35e-07 0.00394
## 2678 0.998 2.83e-04 0.00227
## 2679 1.002 1.60e-04 0.00247
## 2680 1.006 2.45e-05 0.00316
## 2681 1.007 3.94e-10 0.00380
## 2682 1.002 1.45e-04 0.00251
## 2683 1.003 1.62e-04 0.00327
## 2684 1.002 1.44e-04 0.00260
## 2685 1.006 4.95e-06 0.00282
## 2686 1.003 1.50e-04 0.00322
## 2687 1.004 1.20e-04 0.00308
## 2688 1.004 4.88e-05 0.00203
## 2689 1.006 1.43e-05 0.00306
## 2690 1.005 1.33e-05 0.00220
## 2691 1.006 1.46e-06 0.00271
## 2692 1.008 6.60e-06 0.00472
## 2693 1.005 2.16e-05 0.00231
## 2694 1.004 2.17e-05 0.00176
## 2695 1.001 2.83e-04 0.00338
## 2696 1.004 8.41e-05 0.00293
## 2697 1.005 2.18e-06 0.00233
## 2698 1.002 7.08e-05 0.00171
## 2699 0.999 2.21e-04 0.00223
## 2700 1.006 8.50e-06 0.00344
## 2701 1.006 4.08e-06 0.00285
## 2702 1.002 2.13e-04 0.00293
## 2703 1.003 1.52e-04 0.00308
## 2704 1.004 1.09e-04 0.00326
## 2705 1.004 2.27e-04 0.00416
## 2706 1.004 3.60e-06 0.00165
## 2707 1.000 2.81e-04 0.00271
## 2708 1.004 1.08e-04 0.00313
## 2709 1.004 4.28e-05 0.00202
## 2710 1.005 5.43e-05 0.00347
## 2711 1.005 2.75e-05 0.00296
## 2712 1.004 7.47e-05 0.00249
## 2713 1.004 2.18e-05 0.00209
## 2714 1.007 2.88e-06 0.00413
## 2715 1.007 1.01e-06 0.00435
## 2716 0.997 3.00e-04 0.00207
## 2717 1.003 1.05e-04 0.00235
## 2718 1.005 3.45e-08 0.00171
## 2719 1.004 9.14e-06 0.00164
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## 2720 1.005 3.67e-06 0.00255
## 2721 1.003 1.54e-04 0.00296
## 2722 1.005 1.33e-07 0.00217
## 2723 1.004 6.58e-05 0.00250
## 2724 1.005 1.03e-04 0.00384
## 2725 1.003 5.99e-05 0.00210
## 2726 1.003 8.14e-05 0.00244
## 2727 1.006 3.68e-05 0.00337
## 2728 1.005 1.98e-05 0.00251
## 2729 1.001 2.40e-04 0.00303
## 2730 1.004 1.52e-05 0.00156
## 2731 1.003 1.56e-04 0.00284
## 2732 1.004 1.42e-04 0.00373
## 2733 1.005 3.70e-05 0.00263
## 2734 1.006 3.38e-06 0.00350
## 2735 1.006 4.84e-05 0.00363
## 2736 0.996 2.72e-04 0.00185
## 2737 1.004 6.20e-05 0.00239
## 2738 1.005 2.90e-05 0.00282
## 2739 1.006 2.88e-07 0.00284
## 2740 1.004 8.09e-05 0.00298
## 2741 1.005 5.57e-05 0.00301
## 2742 1.005 5.15e-08 0.00176
## 2743 1.004 3.26e-05 0.00193
## 2744 1.002 2.33e-04 0.00304
## 2745 1.005 7.89e-05 0.00327
## 2746 1.004 2.72e-05 0.00216
## 2747 1.003 1.58e-04 0.00320
## 2748 0.992 1.10e-03 0.00415
## 2749 1.004 7.10e-05 0.00288
## 2750 1.005 1.10e-04 0.00391
## 2751 1.006 3.85e-06 0.00272
## 2752 0.992 3.97e-04 0.00176
## 2753 1.006 3.45e-06 0.00355
## 2754 1.004 1.94e-05 0.00167
## 2755 1.005 2.56e-05 0.00266
## 2756 1.004 7.15e-06 0.00151
## 2757 1.002 3.11e-04 0.00372
## 2758 1.005 1.46e-04 0.00382
## 2759 1.007 1.17e-05 0.00402
## 2760 1.006 9.70e-06 0.00360
## 2761 0.998 1.30e-04 0.00131
## 2762 1.005 1.04e-05 0.00216
## 2763 1.006 1.21e-04 0.00429
## 2764 1.004 7.24e-06 0.00145
## 2765 0.990 5.85e-04 0.00219 *
## 2766 1.002 1.04e-04 0.00213
## 2767 1.005 1.31e-04 0.00372
## 2768 1.005 2.02e-05 0.00288
## 2769 1.005 1.14e-04 0.00351
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##	2770	1.003	6.15e-05	0.00219	
##	2771	0.990	1.04e-03	0.00367	*
##	2772	1.001	2.05e-04	0.00266	
##	2773	1.004	1.36e-05	0.00152	
##	2774	1.001	2.13e-04	0.00264	
##	2775	1.003	7.58e-05	0.00192	
##	2776	0.990	9.32e-04	0.00327	*
##	2777	1.004	3.25e-04	0.00465	
##	2778	1.006	1.36e-05	0.00312	
##	2779	1.003	1.37e-04	0.00297	
##	2780	1.004	2.66e-04	0.00424	
##	2781	1.004	1.83e-04	0.00374	
##	2782	1.006	1.19e-05	0.00307	
##	2783	1.006	4.26e-06	0.00305	
##	2784	1.007	9.91e-06	0.00379	
##	2785	0.999	2.47e-04	0.00227	
##	2786	0.993	6.73e-04	0.00292	
##	2787	1.006	1.63e-06	0.00358	
##	2788	1.004	5.29e-05	0.00210	
##	2789	0.998	2.88e-04	0.00239	
##	2790	1.005	2.34e-05	0.00237	
##	2791	1.002	7.67e-05	0.00192	
##	2792	1.005	1.14e-04	0.00349	
##	2793	1.004	5.37e-05	0.00256	
##	2794	1.002	9.44e-05	0.00206	
##	2795	1.006	2.28e-06	0.00286	
##	2796	1.004	9.97e-06	0.00191	
##	2797	1.005	3.46e-05	0.00268	
##	2798	1.001	2.15e-04	0.00287	
##	2799	1.005	4.53e-07	0.00228	
##	2800	0.997	7.90e-04	0.00448	
##	2801	1.005	2.43e-05	0.00297	
##	2802	1.006	6.29e-06	0.00303	
##	2803	1.005	7.84e-06	0.00205	
##	2804	1.000	4.97e-04	0.00398	
##	2805	1.005	1.35e-04	0.00429	
##	2806	1.005	6.23e-05	0.00355	
##	2807	1.005	1.72e-07	0.00172	
##	2808	0.992	6.47e-04	0.00276	
##	2809	1.006	1.41e-06	0.00317	
##	2810	1.007	7.47e-06	0.00415	
##	2811	1.003	2.18e-04	0.00339	
##	2812	1.006	5.90e-06	0.00315	
##	2813	1.005	8.19e-08	0.00183	
##	2814	0.999	4.33e-04	0.00332	
##	2815	1.004	5.93e-05	0.00232	
##	2816	1.005	4.81e-07	0.00240	
##	2817	1.004	7.64e-05	0.00244	
##	2818	0.989	1.14e-03	0.00372	*
##	2819	1.005	1.02e-06	0.00254	

```
## 2820 1.006 4.30e-06 0.00281
## 2821 1.004 5.17e-05 0.00214
## 2822 1.004 6.11e-05 0.00266
## 2823 1.002 1.17e-04 0.00217
## 2824 1.006 1.25e-05 0.00299
## 2825 1.002 1.02e-04 0.00186
## 2826 1.006 8.97e-06 0.00329
## 2827 1.005 1.20e-04 0.00372
## 2828 1.006 2.22e-05 0.00342
## 2829 1.006 8.13e-06 0.00353
## 2830 1.004 1.41e-07 0.00161
## 2831 1.007 2.18e-08 0.00372
## 2832 1.003 1.28e-04 0.00278
## 2833 0.992 4.04e-04 0.00178
## 2834 1.005 8.88e-10 0.00182
## 2835 1.005 1.47e-06 0.00183
## 2836 1.005 9.71e-05 0.00378
## 2837 1.003 1.47e-04 0.00288
## 2838 1.005 1.50e-04 0.00429
## 2839 1.005 2.03e-06 0.00196
## 2840 1.006 8.93e-05 0.00404
## 2841 1.001 3.28e-04 0.00357
## 2842 1.003 2.24e-04 0.00343
## 2843 1.002 1.85e-04 0.00283
## 2844 1.005 2.79e-05 0.00285
## 2845 1.004 1.55e-05 0.00158
## 2846 1.004 1.64e-04 0.00370
## 2847 1.005 2.47e-06 0.00251
## 2848 1.005 9.72e-06 0.00245
## 2849 1.005 6.39e-05 0.00293
## 2850 1.005 1.27e-04 0.00414
## 2851 1.005 7.13e-07 0.00170
## 2852 1.001 1.56e-04 0.00207
## 2853 1.007 8.09e-07 0.00375
## 2854 1.004 4.29e-05 0.00242
## 2855 1.006 2.46e-06 0.00290
## 2856 1.004 1.60e-04 0.00352
## 2857 1.003 7.49e-05 0.00196
## 2858 1.001 1.24e-04 0.00182
## 2859 1.002 8.00e-05 0.00180
## 2860 1.004 1.53e-04 0.00364
## 2861 1.006 2.25e-06 0.00291
## 2862 0.999 2.68e-04 0.00234
## 2863 1.004 2.47e-06 0.00125
## 2864 1.000 1.94e-04 0.00228
## 2865 1.003 6.24e-05 0.00190
## 2866 1.005 4.34e-05 0.00307
## 2867 1.003 1.06e-04 0.00230
## 2868 1.005 8.21e-09 0.00188
## 2869 1.002 1.16e-04 0.00199
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## 2870 1.005 5.07e-06 0.00242
## 2871 1.002 1.33e-04 0.00221
## 2872 1.004 1.01e-05 0.00165
## 2873 0.996 4.77e-04 0.00291
## 2874 1.000 2.97e-04 0.00308
## 2875 0.996 5.22e-04 0.00305
## 2876 0.999 2.63e-04 0.00230
## 2877 1.005 2.74e-05 0.00312
## 2878 1.001 1.80e-04 0.00233
## 2879 1.006 2.55e-06 0.00287
## 2880 1.006 9.21e-06 0.00325
## 2881 1.006 9.31e-06 0.00317
## 2882 1.006 3.86e-05 0.00390
## 2883 0.998 2.19e-04 0.00176
## 2884 1.003 1.49e-04 0.00313
## 2885 1.007 6.30e-06 0.00450
## 2886 0.998 6.57e-04 0.00401
## 2887 1.002 7.93e-05 0.00188
## 2888 1.004 2.35e-05 0.00176
## 2889 0.994 5.65e-04 0.00270
## 2890 0.986 9.10e-04 0.00265 *
## 2891 1.005 5.33e-06 0.00219
## 2892 1.004 1.44e-05 0.00163
## 2893 1.005 5.34e-07 0.00229
## 2894 1.007 1.88e-04 0.00555
## 2895 1.007 1.95e-05 0.00406
## 2896 1.003 1.37e-04 0.00271
## 2897 1.007 6.01e-06 0.00373
## 2898 0.999 3.03e-04 0.00272
## 2899 1.006 9.80e-05 0.00404
## 2900 0.998 2.36e-04 0.00207
## 2901 1.004 1.24e-04 0.00338
## 2902 1.004 9.00e-05 0.00276
## 2903 1.002 1.40e-04 0.00236
## 2904 1.003 1.71e-04 0.00300
## 2905 1.005 1.93e-06 0.00262
## 2906 1.005 5.20e-06 0.00233
## 2907 1.001 2.32e-04 0.00281
## 2908 1.000 2.88e-04 0.00290
## 2909 1.006 1.22e-07 0.00332
## 2910 1.004 9.73e-05 0.00300
## 2911 1.006 5.23e-06 0.00304
## 2912 1.007 5.20e-05 0.00466
## 2913 1.006 4.83e-06 0.00284
## 2914 1.003 4.19e-04 0.00492
## 2915 1.007 5.46e-05 0.00453
## 2916 1.005 3.21e-05 0.00300
## 2917 1.003 5.16e-05 0.00189
## 2918 1.000 3.07e-04 0.00313
## 2919 1.006 7.79e-05 0.00440
```

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## 2920 1.000 1.46e-04 0.00177
## 2921 1.005 6.23e-05 0.00346
## 2922 1.005 9.53e-07 0.00256
## 2923 0.997 1.62e-04 0.00129
## 2924 1.007 1.52e-05 0.00415
## 2925 1.007 4.58e-06 0.00421
## 2926 1.005 2.88e-06 0.00225
## 2927 1.001 3.94e-04 0.00386
## 2928 1.004 7.95e-05 0.00300
## 2929 1.006 1.22e-06 0.00279
## 2930 1.005 1.25e-05 0.00258
## 2931 1.005 1.60e-05 0.00245
## 2932 1.001 1.74e-04 0.00228
## 2933 1.005 4.21e-05 0.00291
## 2934 1.006 5.47e-05 0.00353
## 2935 1.002 3.70e-04 0.00413
## 2936 0.999 6.94e-04 0.00448
## 2937 1.006 2.34e-06 0.00329
## 2938 1.004 3.41e-07 0.00163
## 2939 1.005 8.66e-06 0.00256
## 2940 1.006 1.57e-04 0.00466
## 2941 1.001 1.63e-04 0.00226
## 2942 1.005 1.05e-04 0.00342
## 2943 1.004 9.69e-05 0.00318
## 2944 1.001 1.71e-04 0.00221
## 2945 1.006 3.59e-07 0.00287
## 2946 1.004 3.48e-05 0.00189
## 2947 1.005 5.72e-05 0.00352
## 2948 1.005 1.55e-05 0.00215
## 2949 1.002 1.86e-04 0.00293
## 2950 1.001 1.20e-04 0.00200
## 2951 1.003 5.21e-05 0.00192
## 2952 1.003 1.06e-04 0.00260
## 2953 0.997 3.26e-04 0.00230
## 2954 1.004 2.28e-05 0.00208
## 2955 1.005 1.58e-04 0.00399
## 2956 1.002 1.59e-04 0.00258
## 2957 1.004 6.82e-05 0.00255
## 2958 0.999 5.61e-04 0.00398
## 2959 1.005 1.12e-05 0.00196
## 2960 1.005 3.93e-05 0.00304
## 2961 0.996 5.39e-04 0.00303
## 2962 1.000 3.99e-04 0.00358
## 2963 1.005 3.35e-06 0.00246
## 2964 1.000 4.09e-04 0.00355
## 2965 1.006 2.23e-07 0.00307
## 2966 1.002 9.74e-05 0.00206
## 2967 1.005 4.62e-06 0.00203
## 2968 1.006 2.10e-06 0.00301
## 2969 0.995 6.87e-04 0.00341
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## 2970 1.000 3.07e-04 0.00287
## 2971 1.003 1.27e-04 0.00286
## 2972 1.005 4.41e-05 0.00302
## 2973 1.004 4.14e-05 0.00207
## 2974 1.003 1.56e-04 0.00305
## 2975 1.007 1.14e-05 0.00423
## 2976 1.006 3.32e-06 0.00280
## 2977 1.005 9.07e-06 0.00265
## 2978 1.005 5.13e-07 0.00200
## 2979 1.004 2.07e-05 0.00196
## 2980 1.005 1.60e-05 0.00216
## 2981 1.004 1.05e-04 0.00337
## 2982 1.006 4.50e-05 0.00349
## 2983 1.005 1.05e-10 0.00173
## 2984 1.006 7.34e-06 0.00292
## 2985 1.005 4.21e-05 0.00266
## 2986 1.000 3.24e-04 0.00318
## 2987 1.004 2.07e-04 0.00431
## 2988 1.005 9.34e-05 0.00357
## 2989 1.005 1.28e-05 0.00219
## 2990 1.007 4.18e-07 0.00413
## 2991 1.004 1.86e-04 0.00372
## 2992 1.004 1.22e-04 0.00313
## 2993 0.997 5.95e-04 0.00359
## 2994 0.998 2.19e-04 0.00191
## 2995 1.004 9.90e-06 0.00187
## 2996 1.002 8.52e-05 0.00184
## 2997 1.004 1.66e-05 0.00158
## 2998 1.005 2.50e-05 0.00258
## 2999 0.999 3.78e-04 0.00317
## 3000 1.003 1.42e-04 0.00306
## 3001 1.005 5.54e-05 0.00280
## 3002 1.002 8.93e-05 0.00188
## 3003 0.999 2.54e-04 0.00246
## 3004 1.004 8.11e-06 0.00146
## 3005 1.004 8.45e-05 0.00264
## 3006 1.004 2.70e-04 0.00438
## 3007 1.005 3.58e-06 0.00264
## 3008 1.006 2.40e-06 0.00272
## 3009 1.003 1.43e-04 0.00274
## 3010 1.001 2.31e-04 0.00287
## 3011 1.005 4.42e-06 0.00224
## 3012 0.999 2.39e-04 0.00226
## 3013 1.005 2.27e-05 0.00294
## 3014 1.006 2.18e-08 0.00353
## 3015 0.992 7.12e-04 0.00287
## 3016 1.006 9.35e-06 0.00372
## 3017 1.004 1.90e-05 0.00168
## 3018 1.004 2.30e-05 0.00177
## 3019 1.004 1.98e-05 0.00194
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## 3020 1.005 1.66e-05 0.00214
## 3021 1.006 1.96e-06 0.00280
## 3022 1.002 1.12e-04 0.00224
## 3023 1.004 3.50e-05 0.00183
## 3024 0.997 7.88e-04 0.00429
## 3025 0.995 4.80e-04 0.00265
## 3026 1.002 8.09e-05 0.00185
## 3027 0.999 3.86e-04 0.00305
## 3028 1.005 1.25e-06 0.00215
## 3029 1.005 1.11e-05 0.00285
## 3030 1.003 1.05e-04 0.00252
## 3031 1.000 2.13e-04 0.00226
## 3032 1.007 1.88e-06 0.00451
## 3033 1.004 9.67e-07 0.00122
## 3034 1.005 6.57e-05 0.00319
## 3035 1.007 3.18e-07 0.00382
## 3036 0.988 7.31e-04 0.00243 *
## 3037 1.003 1.21e-04 0.00269
## 3038 0.994 8.56e-04 0.00384
## 3039 1.002 3.82e-04 0.00403
## 3040 0.998 2.18e-04 0.00179
## 3041 1.006 3.31e-05 0.00337
## 3042 1.005 4.08e-05 0.00258
## 3043 0.999 4.56e-04 0.00341
## 3044 1.002 7.32e-05 0.00173
## 3045 0.991 4.10e-04 0.00172 *
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## 3048 1.005 7.15e-05 0.00317
## 3049 1.005 1.70e-05 0.00281
## 3050 1.006 3.13e-05 0.00397
## 3051 0.997 5.83e-04 0.00342
## 3052 1.006 1.45e-06 0.00325
## 3053 1.004 1.28e-06 0.00122
## 3054 0.998 6.01e-04 0.00381
## 3055 1.006 2.43e-08 0.00301
## 3056 1.005 1.58e-04 0.00394
## 3057 1.003 1.12e-04 0.00254
## 3058 1.006 1.56e-04 0.00491
## 3059 0.999 1.74e-04 0.00184
## 3060 1.000 1.14e-04 0.00139
## 3061 1.001 1.06e-04 0.00175
## 3062 0.997 2.26e-04 0.00166
## 3063 1.002 1.41e-04 0.00246
## 3064 1.004 7.24e-05 0.00283
## 3065 1.004 3.25e-05 0.00181
## 3066 1.006 1.38e-04 0.00441
## 3067 1.006 2.36e-06 0.00281
## 3068 1.006 7.57e-07 0.00284
## 3069 1.007 2.32e-05 0.00410
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## 3070 1.005 3.71e-05 0.00285
## 3071 1.005 3.41e-05 0.00250
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## 3073 1.006 1.81e-08 0.00328
## 3074 1.004 5.14e-05 0.00258
## 3075 1.000 3.59e-04 0.00345
## 3076 1.003 1.57e-04 0.00298
## 3077 1.001 1.40e-04 0.00213
## 3078 1.005 8.53e-08 0.00263
## 3079 1.005 1.53e-07 0.00231
## 3080 1.004 2.09e-05 0.00185
## 3081 1.005 1.08e-04 0.00385
## 3082 1.000 3.45e-04 0.00340
## 3083 1.003 6.90e-05 0.00195
## 3084 1.006 1.83e-07 0.00291
## 3085 1.005 1.41e-05 0.00245
## 3086 0.999 2.55e-04 0.00241
## 3087 1.006 1.72e-05 0.00305
## 3088 1.000 3.26e-04 0.00301
## 3089 1.006 1.70e-05 0.00304
## 3090 1.005 4.42e-05 0.00297
## 3091 1.000 2.71e-04 0.00264
## 3092 1.006 3.89e-06 0.00344
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## 3097 1.005 7.74e-05 0.00319
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## 3099 0.996 5.58e-04 0.00306
## 3100 0.996 2.87e-04 0.00190
## 3101 1.005 2.78e-05 0.00276
## 3102 1.005 1.24e-06 0.00172
## 3103 1.005 2.85e-08 0.00238
## 3104 1.005 5.77e-05 0.00339
## 3105 1.005 1.02e-06 0.00263
## 3106 1.004 2.30e-05 0.00184
## 3107 0.991 7.60e-04 0.00284 *
## 3108 1.007 1.98e-08 0.00368
## 3109 0.999 2.05e-04 0.00198
## 3110 1.004 1.72e-04 0.00361
## 3111 1.002 1.77e-04 0.00260
## 3112 1.005 1.19e-04 0.00365
## 3113 1.006 3.22e-05 0.00325
## 3114 1.004 1.08e-07 0.00149
## 3115 1.002 1.51e-04 0.00245
## 3116 1.006 1.01e-08 0.00288
## 3117 0.998 6.31e-04 0.00390
## 3118 1.007 8.98e-07 0.00427
## 3119 0.999 1.27e-04 0.00142
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## 3120 1.005 3.20e-05 0.00300
## 3121 1.004 1.89e-05 0.00174
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## 3125 1.005 3.39e-05 0.00298
## 3126 1.006 3.71e-05 0.00362
## 3127 1.006 2.22e-05 0.00357
## 3128 0.999 2.44e-04 0.00234
## 3129 1.007 6.38e-06 0.00435
## 3130 1.005 2.17e-06 0.00254
## 3131 1.001 2.45e-04 0.00293
## 3132 1.000 1.12e-04 0.00136
## 3133 1.003 7.98e-05 0.00226
## 3134 0.997 2.09e-04 0.00167
## 3135 0.997 6.83e-04 0.00402
## 3136 1.001 1.81e-04 0.00227
## 3137 1.005 2.61e-04 0.00485
## 3138 0.991 4.16e-04 0.00179 *
## 3139 1.005 1.66e-04 0.00417
## 3140 1.004 1.72e-05 0.00169
## 3141 1.001 1.68e-04 0.00243
## 3142 1.004 2.39e-04 0.00407
## 3143 1.001 3.39e-04 0.00360
## 3144 1.005 5.93e-05 0.00307
## 3145 1.004 1.16e-04 0.00323
## 3146 1.002 1.52e-04 0.00269
## 3147 1.002 1.59e-04 0.00283
## 3148 1.004 1.33e-04 0.00353
## 3149 1.004 5.58e-05 0.00241
## 3150 1.000 2.91e-04 0.00275
## 3151 1.005 1.51e-06 0.00175
## 3152 1.004 9.47e-06 0.00173
## 3153 0.995 2.94e-04 0.00181
## 3154 0.997 4.68e-04 0.00294
## 3155 0.992 5.75e-04 0.00252
## 3156 1.006 2.34e-05 0.00381
## 3157 1.004 5.50e-06 0.00140
## 3158 1.002 2.04e-04 0.00311
## 3159 1.002 2.44e-04 0.00320
## 3160 1.000 1.88e-04 0.00222
## 3161 1.004 2.22e-06 0.00138
## 3162 1.005 5.35e-05 0.00319
## 3163 1.006 1.25e-05 0.00348
## 3164 1.005 3.18e-06 0.00228
## 3165 1.006 1.88e-06 0.00316
## 3166 1.001 2.22e-04 0.00272
## 3167 1.005 7.44e-06 0.00232
## 3168 1.001 2.46e-04 0.00292
## 3169 1.004 7.44e-06 0.00183
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## 3170 1.005 9.65e-05 0.00376
## 3171 1.002 2.45e-04 0.00355
## 3172 1.005 5.82e-07 0.00255
## 3173 1.007 1.06e-05 0.00465
## 3174 0.995 8.18e-04 0.00395
## 3175 1.005 5.66e-06 0.00222
## 3176 1.004 2.20e-05 0.00174
## 3177 1.006 2.39e-06 0.00329
## 3178 1.005 9.36e-05 0.00342
## 3179 1.003 3.10e-04 0.00443
## 3180 1.005 5.05e-07 0.00259
## 3181 1.001 4.23e-04 0.00389
## 3182 1.005 4.21e-06 0.00181
## 3183 1.003 1.62e-04 0.00293
## 3184 0.995 3.16e-04 0.00193
## 3185 1.004 1.23e-05 0.00192
## 3186 1.007 4.99e-07 0.00378
## 3187 1.003 2.28e-04 0.00369
## 3188 1.006 4.72e-07 0.00265
## 3189 1.006 6.16e-06 0.00306
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## 3191 1.001 2.39e-04 0.00285
## 3192 1.004 1.38e-05 0.00179
## 3193 0.997 6.07e-04 0.00355
## 3194 1.001 1.37e-04 0.00219
## 3195 1.006 3.05e-06 0.00272
## 3196 0.997 2.96e-04 0.00222
## 3197 1.006 2.42e-05 0.00364
## 3198 1.001 1.69e-04 0.00226
## 3199 1.005 2.42e-05 0.00232
## 3200 1.005 1.82e-06 0.00250
## 3201 1.005 3.84e-08 0.00244
## 3202 1.004 1.94e-05 0.00166
## 3203 1.004 3.54e-05 0.00214
## 3204 1.005 4.34e-05 0.00316
## 3205 1.004 4.13e-05 0.00212
## 3206 1.007 5.76e-06 0.00399
## 3207 1.004 4.27e-06 0.00138
## 3208 1.003 1.23e-04 0.00286
## 3209 1.006 1.84e-05 0.00351
## 3210 1.003 1.17e-04 0.00286
## 3211 1.002 1.25e-04 0.00222
## 3212 0.997 4.58e-04 0.00294
## 3213 1.004 4.27e-05 0.00200
## 3214 1.006 7.51e-06 0.00357
## 3215 1.005 5.27e-06 0.00248
## 3216 1.006 1.49e-05 0.00299
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## 3218 1.003 9.09e-05 0.00239
## 3219 1.004 1.77e-04 0.00402
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## 3220 1.001 2.84e-04 0.00304
## 3221 1.002 1.70e-04 0.00279
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## 3224 1.003 6.90e-05 0.00199
## 3225 1.003 5.71e-05 0.00179
## 3226 1.005 6.72e-06 0.00246
## 3227 1.005 8.61e-05 0.00379
## 3228 1.005 2.66e-06 0.00267
## 3229 1.003 3.43e-04 0.00433
## 3230 1.005 3.82e-07 0.00190
## 3231 1.007 2.46e-06 0.00383
## 3232 1.003 9.17e-05 0.00245
## 3233 1.005 2.68e-06 0.00248
## 3234 1.005 3.18e-09 0.00178
## 3235 1.004 6.47e-05 0.00227
## 3236 0.994 6.59e-04 0.00308
## 3237 0.991 4.11e-04 0.00178
## 3238 1.006 5.85e-06 0.00305
## 3239 1.003 2.01e-04 0.00334
## 3240 1.003 1.09e-04 0.00249
## 3241 0.997 6.27e-04 0.00369
## 3242 0.998 3.15e-04 0.00252
## 3243 1.006 6.23e-06 0.00294
## 3244 1.004 7.30e-05 0.00267
## 3245 1.004 1.24e-04 0.00322
## 3246 1.005 2.64e-05 0.00233
## 3247 1.001 2.99e-04 0.00316
## 3248 1.005 5.91e-05 0.00321
## 3249 1.002 1.83e-04 0.00270
## 3250 0.998 4.27e-04 0.00296
## 3251 1.006 2.79e-05 0.00347
## 3252 1.005 1.31e-05 0.00260
## 3253 0.999 2.43e-04 0.00232
## 3254 1.002 1.90e-04 0.00289
## 3255 0.999 1.63e-04 0.00172
## 3256 0.997 4.04e-04 0.00260
## 3257 1.005 1.25e-05 0.00213
## 3258 0.999 3.60e-04 0.00302
## 3259 1.007 2.46e-05 0.00426
## 3260 1.001 3.67e-04 0.00382
## 3261 0.998 2.32e-04 0.00204
## 3262 1.005 1.61e-05 0.00271
## 3263 1.005 4.38e-10 0.00181
## 3264 1.005 1.03e-04 0.00364
## 3265 1.006 2.53e-09 0.00277
## 3266 0.996 5.69e-04 0.00316
## 3267 1.005 7.47e-05 0.00304
## 3268 1.002 1.35e-04 0.00254
## 3269 0.997 2.74e-04 0.00195
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## 3270 1.002 1.43e-04 0.00255
## 3271 1.005 5.88e-06 0.00273
## 3272 1.002 8.69e-05 0.00183
## 3273 1.004 5.17e-06 0.00161
## 3274 1.006 1.18e-07 0.00314
## 3275 1.005 4.77e-06 0.00236
## 3276 1.006 5.67e-06 0.00335
## 3277 1.005 1.03e-04 0.00351
## 3278 1.005 3.93e-05 0.00256
## 3279 1.006 4.62e-07 0.00307
## 3280 1.000 1.72e-04 0.00215
## 3281 1.006 1.60e-05 0.00328
## 3282 1.002 1.26e-04 0.00213
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## 3284 1.005 3.05e-06 0.00238
## 3285 1.003 1.86e-04 0.00336
## 3286 1.004 1.40e-04 0.00367
## 3287 1.005 1.31e-05 0.00263
## 3288 1.001 3.39e-04 0.00355
## 3289 1.001 2.47e-04 0.00312
## 3290 1.001 1.29e-04 0.00205
## 3291 1.005 3.53e-05 0.00259
## 3292 1.004 7.09e-05 0.00245
## 3293 1.006 4.73e-06 0.00294
## 3294 1.004 2.12e-05 0.00171
## 3295 1.005 5.44e-06 0.00240
## 3296 1.004 1.18e-06 0.00145
## 3297 1.002 8.46e-05 0.00191
## 3298 1.000 1.97e-04 0.00213
## 3299 1.002 2.16e-04 0.00291
## 3300 1.005 2.57e-05 0.00309
## 3301 1.000 2.72e-04 0.00283
## 3302 1.001 2.85e-04 0.00333
## 3303 1.006 5.57e-06 0.00337
## 3304 1.006 1.95e-05 0.00326
## 3305 1.004 2.09e-06 0.00124
## 3306 1.003 1.30e-04 0.00290
## 3307 1.006 8.63e-05 0.00435
## 3308 1.004 2.33e-05 0.00177
## 3309 1.004 2.01e-05 0.00181
## 3310 1.004 7.43e-05 0.00286
## 3311 1.005 3.53e-05 0.00259
## 3312 1.007 6.45e-05 0.00480
## 3313 1.006 1.07e-05 0.00328
## 3314 0.998 4.74e-04 0.00324
## 3315 1.000 2.98e-04 0.00292
## 3316 1.004 1.83e-04 0.00392
## 3317 1.006 3.50e-07 0.00288
## 3318 1.004 6.83e-05 0.00236
## 3319 1.005 8.56e-06 0.00238
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## 3320 0.999 2.48e-04 0.00233
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## 3324 0.997 1.68e-04 0.00131
## 3325 1.004 8.38e-05 0.00287
## 3326 1.000 2.62e-04 0.00259
## 3327 0.997 2.54e-04 0.00179
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## 3335 1.004 7.16e-05 0.00256
## 3336 1.006 6.80e-05 0.00414
## 3337 1.006 4.86e-05 0.00362
## 3338 1.005 5.26e-06 0.00189
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## 3345 0.997 2.26e-04 0.00178
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## 3347 1.004 6.06e-05 0.00231
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## 3354 1.004 2.25e-05 0.00182
## 3355 1.001 1.53e-04 0.00226
## 3356 1.008 1.11e-05 0.00513
## 3357 0.996 3.79e-04 0.00238
## 3358 1.006 1.14e-05 0.00371
## 3359 1.002 2.01e-04 0.00297
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## 3364 1.002 1.97e-04 0.00315
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## 3368 1.003 6.46e-05 0.00223
## 3369 0.997 5.54e-04 0.00351
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## 3370 1.005 1.50e-05 0.00268
## 3371 1.004 4.33e-05 0.00256
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## 3390 1.006 2.26e-05 0.00378
## 3391 1.006 1.68e-05 0.00332
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## 3397 1.003 1.03e-04 0.00270
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## 3413 1.005 6.36e-05 0.00311
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## 3419 1.002 7.62e-05 0.00177
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## 3425 1.007 2.19e-05 0.00410
## 3426 1.002 1.10e-04 0.00211
## 3427 1.005 4.22e-06 0.00201
## 3428 1.004 3.27e-05 0.00231
## 3429 1.005 3.95e-05 0.00253
## 3430 0.997 1.83e-04 0.00148
## 3431 1.005 7.72e-06 0.00197
## 3432 1.004 4.19e-05 0.00251
## 3433 1.003 8.50e-05 0.00206
## 3434 0.993 8.01e-04 0.00335
## 3435 1.005 6.89e-06 0.00186
## 3436 1.006 1.53e-05 0.00316
## 3437 1.001 1.74e-04 0.00247
## 3438 1.006 7.33e-05 0.00380
## 3439 1.006 4.04e-05 0.00392
## 3440 1.003 9.38e-05 0.00234
## 3441 1.004 3.85e-05 0.00227
## 3442 1.003 9.00e-05 0.00248
## 3443 0.997 5.59e-04 0.00340
## 3444 1.004 7.38e-05 0.00254
## 3445 1.004 6.52e-05 0.00262
## 3446 1.005 8.49e-05 0.00364
## 3447 1.001 1.04e-04 0.00177
## 3448 1.005 5.70e-05 0.00283
## 3449 1.005 2.19e-04 0.00480
## 3450 1.003 5.70e-05 0.00197
## 3451 1.006 2.40e-07 0.00322
## 3452 1.004 4.29e-05 0.00208
## 3453 1.001 1.66e-04 0.00216
## 3454 1.005 1.13e-05 0.00267
## 3455 1.004 1.11e-04 0.00299
## 3456 1.006 2.21e-07 0.00336
## 3457 1.003 7.63e-05 0.00218
## 3458 1.002 1.84e-04 0.00272
## 3459 1.002 1.95e-04 0.00296
## 3460 1.001 8.83e-05 0.00161
## 3461 1.006 1.04e-06 0.00279
## 3462 1.004 5.62e-05 0.00245
## 3463 1.005 2.18e-05 0.00223
## 3464 0.996 3.78e-04 0.00228
## 3465 1.004 7.65e-05 0.00249
## 3466 1.004 2.12e-06 0.00138
## 3467 1.004 1.52e-04 0.00331
## 3468 0.998 3.35e-04 0.00269
## 3469 1.006 6.82e-05 0.00403
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## 3470 1.005 1.28e-05 0.00214
## 3471 1.005 9.95e-05 0.00351
## 3472 0.998 1.53e-04 0.00139
## 3473 1.004 1.28e-04 0.00318
## 3474 0.997 2.27e-04 0.00179
## 3475 1.005 9.29e-06 0.00269
## 3476 1.002 1.25e-04 0.00216
## 3477 1.003 7.45e-05 0.00217
## 3478 1.002 1.60e-04 0.00263
## 3479 1.003 2.21e-04 0.00349
## 3480 1.002 7.77e-05 0.00160
## 3481 1.005 5.77e-05 0.00331
## 3482 1.005 3.83e-06 0.00187
## 3483 1.002 1.98e-04 0.00294
## 3484 1.005 6.63e-05 0.00325
## 3485 0.997 4.00e-04 0.00267
## 3486 1.006 1.27e-05 0.00314
## 3487 1.003 1.57e-04 0.00332
## 3488 1.002 1.23e-04 0.00226
## 3489 1.003 1.37e-04 0.00286
## 3490 1.003 6.25e-05 0.00207
## 3491 1.003 1.06e-04 0.00271
## 3492 0.997 3.34e-04 0.00230
## 3493 0.996 4.48e-04 0.00266
## 3494 0.992 3.98e-04 0.00176
## 3495 1.004 6.78e-05 0.00270
## 3496 1.006 1.50e-07 0.00352
## 3497 1.005 7.49e-05 0.00351
## 3498 1.005 3.53e-05 0.00280
## 3499 1.005 1.32e-05 0.00245
## 3500 1.002 1.57e-04 0.00261
## 3501 1.001 2.28e-04 0.00276
## 3502 1.004 1.97e-05 0.00170
## 3503 1.005 6.33e-08 0.00251
## 3504 1.001 1.03e-04 0.00177
## 3505 0.996 1.98e-04 0.00145
## 3506 1.005 8.28e-08 0.00246
## 3507 1.006 8.55e-06 0.00322
## 3508 1.005 1.39e-05 0.00260
## 3509 1.005 1.30e-05 0.00264
## 3510 1.004 5.19e-05 0.00234
## 3511 0.997 2.26e-04 0.00166
## 3512 0.986 9.85e-04 0.00287 *
## 3513 1.004 2.23e-05 0.00181
## 3514 1.000 2.42e-04 0.00267
## 3515 1.005 1.76e-05 0.00212
## 3516 1.006 1.98e-06 0.00273
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## 3518 1.005 2.00e-06 0.00238
## 3519 1.003 7.74e-05 0.00240
```

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## 3522 1.003 1.23e-04 0.00264
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## 3524 0.998 4.28e-04 0.00303
## 3525 1.004 1.85e-04 0.00362
## 3526 1.004 4.26e-06 0.00142
## 3527 0.998 3.59e-04 0.00269
## 3528 1.004 2.03e-05 0.00184
## 3529 0.993 8.55e-04 0.00363
## 3530 1.005 1.12e-05 0.00218
## 3531 0.997 3.43e-04 0.00235
## 3532 1.006 2.55e-05 0.00315
## 3533 1.006 2.14e-05 0.00351
## 3534 0.997 2.45e-04 0.00178
## 3535 1.006 4.32e-06 0.00280
## 3536 1.007 6.77e-05 0.00491
## 3537 1.006 3.69e-05 0.00400
## 3538 1.006 6.02e-06 0.00330
## 3539 0.999 3.62e-04 0.00313
## 3540 1.001 1.70e-04 0.00231
## 3541 1.005 1.39e-05 0.00281
## 3542 1.006 8.46e-06 0.00298
## 3543 1.007 5.83e-06 0.00408
## 3544 1.005 2.08e-05 0.00273
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## 3547 1.007 7.07e-06 0.00379
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## 3549 0.999 2.28e-04 0.00211
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## 3551 1.005 8.03e-06 0.00193
## 3552 1.005 2.23e-04 0.00487
## 3553 1.002 2.00e-04 0.00285
## 3554 1.005 2.85e-07 0.00173
## 3555 1.002 6.76e-05 0.00179
## 3556 0.999 2.45e-04 0.00235
## 3557 1.004 9.01e-05 0.00313
## 3558 1.000 3.06e-04 0.00311
## 3559 1.005 4.50e-05 0.00331
## 3560 0.997 2.72e-04 0.00204
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## 3562 1.001 3.63e-04 0.00365
## 3563 1.001 2.66e-04 0.00314
## 3564 1.004 5.12e-06 0.00130
## 3565 1.005 1.76e-06 0.00219
## 3566 1.004 1.03e-04 0.00303
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## 3568 1.005 1.41e-05 0.00260
## 3569 1.004 4.42e-05 0.00203
```

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## 3571 1.006 3.96e-09 0.00356
## 3572 0.992 7.91e-04 0.00321
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## 3574 1.002 1.55e-04 0.00267
## 3575 0.999 5.08e-04 0.00376
## 3576 1.005 3.22e-05 0.00256
## 3577 0.996 2.77e-04 0.00186
## 3578 1.006 4.21e-05 0.00379
## 3579 1.000 2.57e-04 0.00280
## 3580 1.006 1.47e-04 0.00466
## 3581 0.996 7.51e-04 0.00388
## 3582 1.004 7.58e-05 0.00301
## 3583 1.003 2.77e-04 0.00408
## 3584 1.005 1.05e-04 0.00363
## 3585 1.005 2.11e-06 0.00243
## 3586 1.001 3.48e-04 0.00353
## 3587 0.997 2.06e-04 0.00167
## 3588 1.001 9.65e-05 0.00146
## 3589 1.003 2.09e-04 0.00361
## 3590 1.003 1.19e-04 0.00247
## 3591 0.995 4.37e-04 0.00234
## 3592 1.001 2.49e-04 0.00284
## 3593 1.002 1.56e-04 0.00263
## 3594 1.007 9.17e-06 0.00414
## 3595 0.998 5.02e-04 0.00344
## 3596 1.006 1.39e-07 0.00317
## 3597 1.005 4.24e-05 0.00333
## 3598 0.996 2.59e-04 0.00179
## 3599 1.005 2.69e-06 0.00214
## 3600 1.004 4.51e-05 0.00227
## 3601 1.004 7.10e-05 0.00286
## 3602 1.005 1.98e-05 0.00236
## 3603 0.998 2.87e-04 0.00218
## 3604 1.004 5.77e-05 0.00220
## 3605 1.003 9.12e-05 0.00253
## 3606 1.005 7.79e-05 0.00326
## 3607 0.998 1.40e-04 0.00138
## 3608 1.005 1.42e-04 0.00423
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## 3611 1.007 1.28e-05 0.00425
## 3612 1.002 3.24e-04 0.00397
## 3613 1.006 2.75e-05 0.00316
## 3614 1.004 3.90e-05 0.00231
## 3615 1.006 1.82e-04 0.00490
## 3616 1.000 4.30e-04 0.00358
## 3617 1.004 2.09e-05 0.00198
## 3618 1.001 2.09e-04 0.00280
## 3619 1.005 1.32e-04 0.00381
```

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## 3620 1.006 8.80e-06 0.00283
## 3621 1.006 4.38e-05 0.00350
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## 3624 1.006 2.45e-05 0.00319
## 3625 0.991 6.00e-04 0.00246
## 3626 0.999 4.36e-04 0.00339
## 3627 1.000 2.64e-04 0.00269
## 3628 0.996 3.01e-04 0.00196
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## 3630 1.006 2.54e-06 0.00298
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## 3633 0.999 5.07e-04 0.00366
## 3634 1.003 1.16e-04 0.00243
## 3635 1.002 1.99e-04 0.00295
## 3636 1.006 7.81e-06 0.00316
## 3637 0.998 2.93e-04 0.00238
## 3638 1.005 3.13e-08 0.00208
## 3639 1.005 6.60e-07 0.00264
## 3640 1.004 1.62e-05 0.00164
## 3641 1.005 5.87e-05 0.00314
## 3642 0.997 2.42e-04 0.00187
## 3643 1.003 1.09e-04 0.00277
## 3644 1.005 5.71e-06 0.00240
## 3645 1.007 4.86e-06 0.00449
## 3646 1.007 5.18e-09 0.00374
## 3647 1.000 4.22e-04 0.00380
## 3648 1.007 3.70e-05 0.00464
## 3649 1.003 2.01e-04 0.00336
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## 3651 1.007 1.72e-05 0.00473
## 3652 1.005 3.71e-06 0.00263
## 3653 1.004 5.49e-05 0.00258
## 3654 1.005 1.10e-05 0.00267
## 3655 1.005 1.32e-04 0.00394
## 3656 1.004 8.32e-05 0.00291
## 3657 0.995 2.79e-04 0.00171
## 3658 0.996 3.00e-04 0.00194
## 3659 1.003 9.09e-05 0.00216
## 3660 1.006 5.69e-06 0.00343
## 3661 0.998 3.98e-04 0.00295
## 3662 1.002 4.24e-04 0.00454
## 3663 1.005 7.61e-05 0.00371
## 3664 1.002 1.27e-04 0.00245
## 3665 1.006 1.17e-05 0.00287
## 3666 1.002 6.31e-05 0.00154
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## 3668 0.999 1.91e-04 0.00199
## 3669 0.996 2.52e-04 0.00173
```

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## 3670 1.004 2.48e-05 0.00178
## 3671 1.006 7.83e-06 0.00291
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## 3674 0.993 4.15e-04 0.00204
## 3675 0.999 6.21e-04 0.00443
## 3676 1.000 1.93e-04 0.00228
## 3677 1.001 7.57e-05 0.00127
## 3678 1.006 3.56e-05 0.00332
## 3679 1.001 1.18e-04 0.00190
## 3680 1.007 2.55e-05 0.00435
## 3681 1.001 9.29e-05 0.00163
## 3682 0.999 5.43e-04 0.00401
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## 3684 1.002 8.11e-05 0.00196
## 3685 0.999 4.18e-04 0.00346
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## 3687 1.004 3.19e-04 0.00462
## 3688 1.006 3.79e-05 0.00345
## 3689 0.988 7.95e-04 0.00253 *
## 3690 1.000 2.12e-04 0.00224
## 3691 0.996 4.34e-04 0.00268
## 3692 1.003 1.73e-04 0.00324
## 3693 1.004 7.98e-05 0.00301
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## 3697 1.001 1.98e-04 0.00267
## 3698 1.005 7.35e-06 0.00197
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## 3701 1.002 2.12e-04 0.00307
## 3702 1.005 1.39e-05 0.00254
## 3703 1.005 5.38e-06 0.00235
## 3704 1.002 1.45e-04 0.00229
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## 3706 1.006 1.18e-07 0.00302
## 3707 1.006 2.05e-06 0.00296
## 3708 1.000 3.38e-04 0.00315
## 3709 1.006 1.83e-05 0.00331
## 3710 0.997 3.32e-04 0.00233
## 3711 1.004 8.98e-05 0.00283
## 3712 1.005 4.47e-05 0.00291
## 3713 1.004 1.32e-04 0.00312
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## 3715 1.006 8.83e-06 0.00307
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## 3719 1.006 2.71e-07 0.00268
```

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## 3720 1.001 7.93e-05 0.00150
## 3721 1.001 1.98e-04 0.00272
## 3722 1.004 3.85e-05 0.00209
## 3723 1.005 1.30e-06 0.00253
## 3724 1.005 4.87e-07 0.00256
## 3725 0.996 3.41e-04 0.00225
## 3726 0.997 1.57e-04 0.00128
## 3727 1.007 4.66e-05 0.00432
## 3728 1.008 8.98e-06 0.00482
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## 3731 1.005 2.37e-05 0.00253
## 3732 0.999 2.26e-04 0.00218
## 3733 1.004 1.52e-04 0.00357
## 3734 1.004 9.67e-06 0.00165
## 3735 0.998 2.38e-04 0.00197
## 3736 1.006 2.79e-06 0.00309
## 3737 1.004 1.12e-04 0.00327
## 3738 0.994 4.98e-04 0.00251
## 3739 1.004 1.11e-04 0.00289
## 3740 1.003 1.10e-04 0.00247
## 3741 1.001 1.10e-04 0.00189
## 3742 1.004 1.58e-04 0.00364
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## 3758 1.003 1.11e-04 0.00242
## 3759 1.004 2.19e-05 0.00197
## 3760 1.004 4.90e-05 0.00230
## 3761 0.999 4.52e-04 0.00355
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## 3763 1.003 8.26e-05 0.00243
## 3764 1.005 2.53e-05 0.00266
## 3765 1.005 3.38e-06 0.00233
## 3766 1.002 8.19e-05 0.00184
## 3767 1.004 1.53e-04 0.00368
## 3768 0.999 3.95e-04 0.00308
## 3769 1.005 7.99e-05 0.00361
```



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## 3770 1.001 1.84e-04 0.00229
## 3771 1.005 7.20e-05 0.00347
## 3772 1.005 2.64e-06 0.00183
## 3773 1.003 1.48e-04 0.00278
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## 3775 1.006 6.47e-07 0.00327
## 3776 1.004 2.08e-06 0.00127
## 3777 0.998 3.62e-04 0.00265
## 3778 1.004 8.42e-05 0.00281
## 3779 1.002 1.27e-04 0.00217
## 3780 1.004 9.94e-05 0.00313
## 3781 1.000 1.86e-04 0.00225
## 3782 1.005 9.99e-05 0.00389
## 3783 0.987 1.04e-03 0.00309 *
## 3784 1.004 1.60e-05 0.00160
## 3785 0.990 5.66e-04 0.00209 *
## 3786 0.998 1.38e-04 0.00124
## 3787 1.002 1.23e-04 0.00234
## 3788 1.004 1.74e-05 0.00161
## 3789 1.004 1.47e-04 0.00334
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## 3793 1.002 1.67e-04 0.00249
## 3794 0.991 8.38e-04 0.00321 *
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## 3802 1.002 1.52e-04 0.00243
## 3803 1.005 2.04e-05 0.00219
## 3804 1.005 8.15e-10 0.00172
## 3805 1.003 8.24e-05 0.00222
## 3806 1.004 7.22e-05 0.00242
## 3807 1.005 1.27e-05 0.00218
## 3808 1.005 2.38e-05 0.00290
## 3809 1.005 7.53e-06 0.00208
## 3810 1.002 6.68e-05 0.00148
## 3811 1.007 1.38e-05 0.00465
## 3812 1.005 6.72e-07 0.00219
## 3813 1.005 1.56e-05 0.00277
## 3814 1.006 3.91e-05 0.00351
## 3815 1.006 2.32e-05 0.00362
## 3816 1.003 6.36e-05 0.00204
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## 3818 1.005 3.42e-05 0.00275
## 3819 1.001 1.73e-04 0.00238
```

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## 3826 1.005 2.66e-05 0.00290
## 3827 1.003 2.55e-04 0.00365
## 3828 0.990 1.02e-03 0.00350 *
## 3829 1.004 2.06e-06 0.00143
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## 3831 1.003 2.60e-04 0.00404
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## 3841 1.004 2.84e-05 0.00198
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## 3843 0.992 6.26e-04 0.00265
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## 3845 1.005 1.24e-07 0.00223
## 3846 1.005 4.74e-05 0.00289
## 3847 1.003 1.01e-04 0.00257
## 3848 1.004 8.23e-05 0.00312
## 3849 1.007 2.83e-06 0.00412
## 3850 1.004 6.90e-05 0.00290
## 3851 1.005 2.26e-05 0.00244
## 3852 1.005 2.23e-06 0.00247
## 3853 1.004 7.64e-05 0.00270
## 3854 1.004 1.46e-04 0.00341
## 3855 1.004 1.82e-04 0.00413
## 3856 1.006 3.87e-06 0.00294
## 3857 0.998 3.82e-04 0.00282
## 3858 1.001 1.31e-04 0.00190
## 3859 1.005 5.42e-05 0.00307
## 3860 1.005 8.97e-06 0.00268
## 3861 1.006 9.76e-05 0.00421
## 3862 0.999 3.02e-04 0.00258
## 3863 1.002 1.03e-04 0.00214
## 3864 1.007 3.18e-05 0.00413
## 3865 1.005 6.95e-05 0.00307
## 3866 1.001 3.97e-04 0.00381
## 3867 1.007 8.21e-07 0.00386
## 3868 1.002 7.70e-05 0.00166
## 3869 0.998 3.81e-04 0.00293
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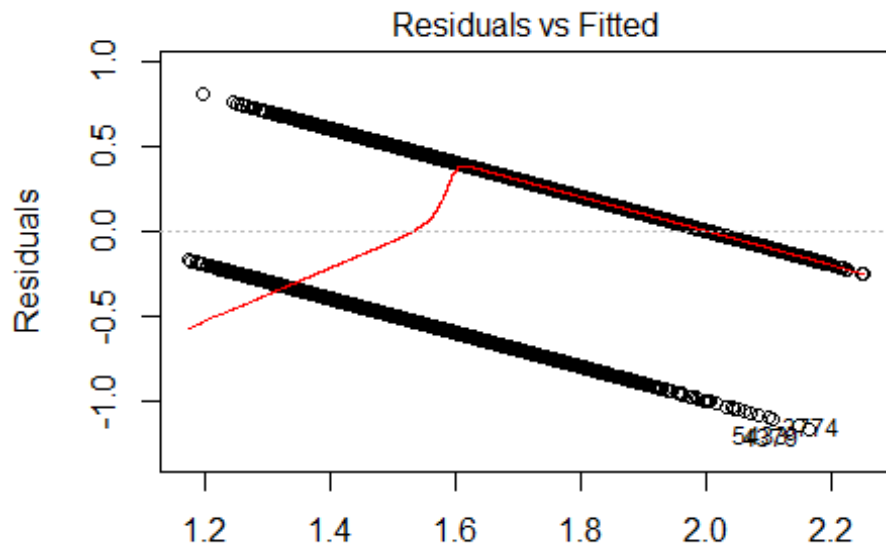
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## 3874 1.004 9.83e-05 0.00288
## 3875 1.005 3.14e-05 0.00292
## 3876 1.002 9.10e-05 0.00179
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## 3878 1.000 3.23e-04 0.00305
## 3879 0.996 2.23e-04 0.00150
## 3880 1.006 4.72e-05 0.00342
## 3881 0.999 2.07e-04 0.00209
## 3882 1.002 1.35e-04 0.00239
## 3883 1.004 4.87e-06 0.00154
## 3884 0.990 7.64e-04 0.00275 *
## 3885 1.005 1.47e-05 0.00268
## 3886 1.004 1.06e-05 0.00168
## 3887 1.002 1.89e-04 0.00297
## 3888 1.006 5.02e-07 0.00320
## 3889 1.005 1.97e-06 0.00217
## 3890 1.004 5.64e-07 0.00154
## 3891 1.005 1.49e-07 0.00258
## 3892 1.005 2.31e-06 0.00193
## 3893 1.003 1.35e-04 0.00279
## 3894 1.004 6.19e-07 0.00147
## 3895 1.005 1.03e-05 0.00267
## 3896 1.004 1.37e-04 0.00331
## 3897 1.006 6.76e-05 0.00375
## 3898 1.005 5.85e-06 0.00217
## 3899 1.000 4.17e-04 0.00364
## 3900 1.002 1.60e-04 0.00280
## 3901 1.003 2.37e-04 0.00351
## 3902 1.005 2.18e-05 0.00283
## 3903 1.005 3.06e-06 0.00248
## 3904 0.998 2.40e-04 0.00204
## 3905 0.993 4.20e-04 0.00195
## 3906 1.005 9.01e-07 0.00225
## 3907 1.005 4.11e-06 0.00271
## 3908 1.004 9.97e-07 0.00148
## 3909 1.006 3.29e-05 0.00331
## 3910 1.000 2.20e-04 0.00226
## 3911 1.002 1.33e-04 0.00222
## 3912 1.001 1.43e-04 0.00219
## 3913 1.004 6.85e-05 0.00240
## 3914 1.007 8.74e-06 0.00393
## 3915 1.005 7.63e-05 0.00377
## 3916 1.003 1.71e-04 0.00316
## 3917 1.003 8.21e-05 0.00210
## 3918 0.997 4.38e-04 0.00297
## 3919 1.006 4.62e-05 0.00380
```

```
## 3920 1.004 1.40e-04 0.00358
## 3921 0.994 5.95e-04 0.00280
## 3922 0.998 3.01e-04 0.00239
## 3923 1.005 1.50e-05 0.00283
## 3924 1.005 1.15e-05 0.00280
## 3925 1.006 6.44e-05 0.00378
## 3926 1.004 9.68e-05 0.00281
## 3927 1.004 1.46e-05 0.00180
## 3928 1.007 4.42e-05 0.00434
## 3929 1.006 7.90e-06 0.00279
## 3930 1.005 1.02e-04 0.00382
## 3931 1.004 3.78e-05 0.00214
## 3932 1.003 6.96e-05 0.00206
## 3933 1.002 1.91e-04 0.00295
## 3934 1.003 1.45e-04 0.00302
## 3935 1.005 3.44e-05 0.00302
## 3936 0.997 2.28e-04 0.00170
## 3937 1.002 1.46e-04 0.00267
## 3938 1.004 7.72e-06 0.00179
## 3939 0.996 6.69e-04 0.00356
## 3940 0.998 6.33e-04 0.00418
## 3941 1.004 6.96e-05 0.00264
## 3942 1.005 6.52e-05 0.00347
## 3943 1.004 9.33e-05 0.00323
## 3944 1.001 2.21e-04 0.00259
## 3945 1.006 2.59e-05 0.00333
## 3946 1.005 4.52e-06 0.00266
## 3947 1.002 1.98e-04 0.00291
## 3948 0.995 4.23e-04 0.00232
## 3949 1.002 2.41e-04 0.00343
## 3950 1.005 9.97e-05 0.00366
## 3951 1.005 6.01e-05 0.00333
## 3952 1.001 1.64e-04 0.00223
## 3953 1.006 1.92e-05 0.00365
## 3954 1.003 1.48e-04 0.00291
## 3955 1.003 1.76e-04 0.00310
## 3956 1.004 7.15e-05 0.00269
## 3957 1.005 8.14e-06 0.00252
## 3958 1.006 1.23e-07 0.00297
## 3959 1.002 1.24e-04 0.00219
## 3960 1.006 2.32e-07 0.00299
## 3961 1.004 2.70e-06 0.00171
## 3962 1.006 1.16e-05 0.00303
## 3963 0.998 2.30e-04 0.00204
## 3964 1.006 4.56e-08 0.00290
## 3965 0.988 7.09e-04 0.00235
## 3966 1.005 2.26e-05 0.00298
## 3967 1.006 3.23e-05 0.00331
## 3968 1.005 5.99e-05 0.00352
## 3969 1.003 1.01e-04 0.00230
```

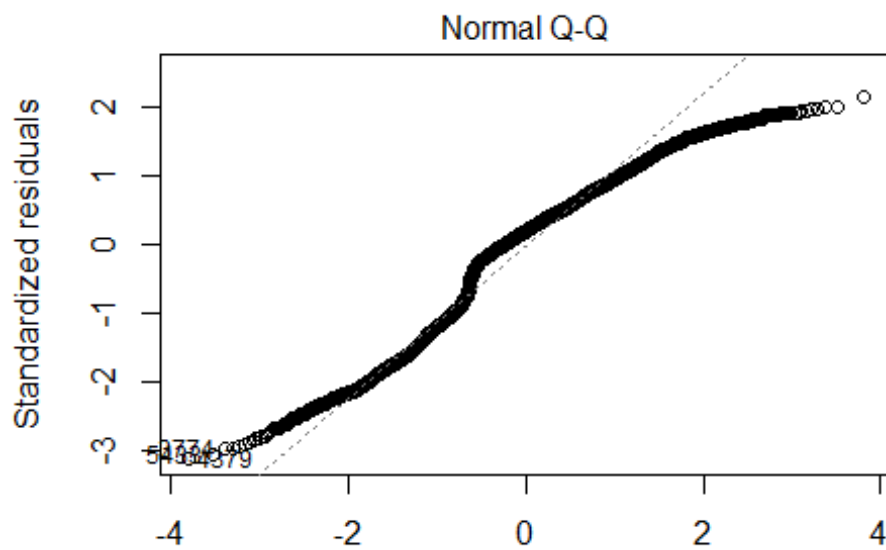
*

```
## 3970 0.999 3.27e-04 0.00281
## 3971 1.005 1.50e-06 0.00257
## 3972 0.997 3.98e-04 0.00257
## 3973 1.005 1.90e-07 0.00250
## 3974 1.001 1.40e-04 0.00202
## 3975 0.997 4.67e-04 0.00289
## 3976 1.007 6.00e-06 0.00392
## 3977 0.999 3.33e-04 0.00289
## 3978 1.005 7.52e-06 0.00262
## 3979 1.005 1.21e-04 0.00392
## 3980 1.007 1.17e-06 0.00385
## 3981 1.001 7.69e-05 0.00146
## 3982 1.006 2.18e-06 0.00271
## 3983 1.004 2.22e-04 0.00430
## 3984 0.996 2.64e-04 0.00179
## 3985 1.003 1.93e-04 0.00362
## 3986 1.007 3.47e-06 0.00369
## 3987 1.006 4.23e-05 0.00355
## 3988 0.998 2.94e-04 0.00235
## 3989 0.998 4.95e-04 0.00332
## 3990 1.005 1.51e-06 0.00185
## 3991 1.007 2.05e-06 0.00413
## 3992 1.006 6.04e-06 0.00317
## 3993 1.002 8.65e-05 0.00190
## 3994 0.999 2.42e-04 0.00226
## 3995 1.004 5.63e-05 0.00267
## 3996 1.005 1.94e-05 0.00259
## 3997 1.005 8.96e-08 0.00178
## 3998 1.005 2.39e-05 0.00284
## 3999 0.995 4.76e-04 0.00269
## [ reached getOption("max.print") -- omitted 3033 rows ]
```

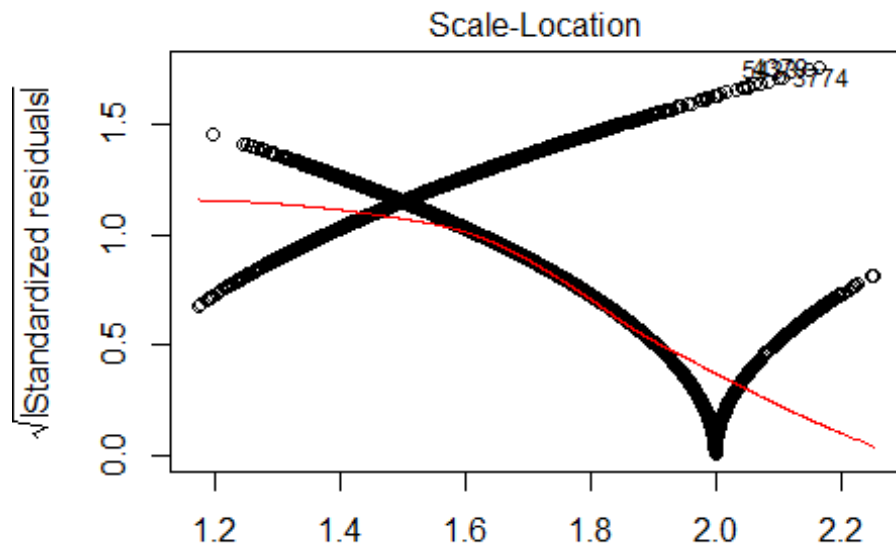
```
##Diagnostics Plots for visualization
plot(fit)
```



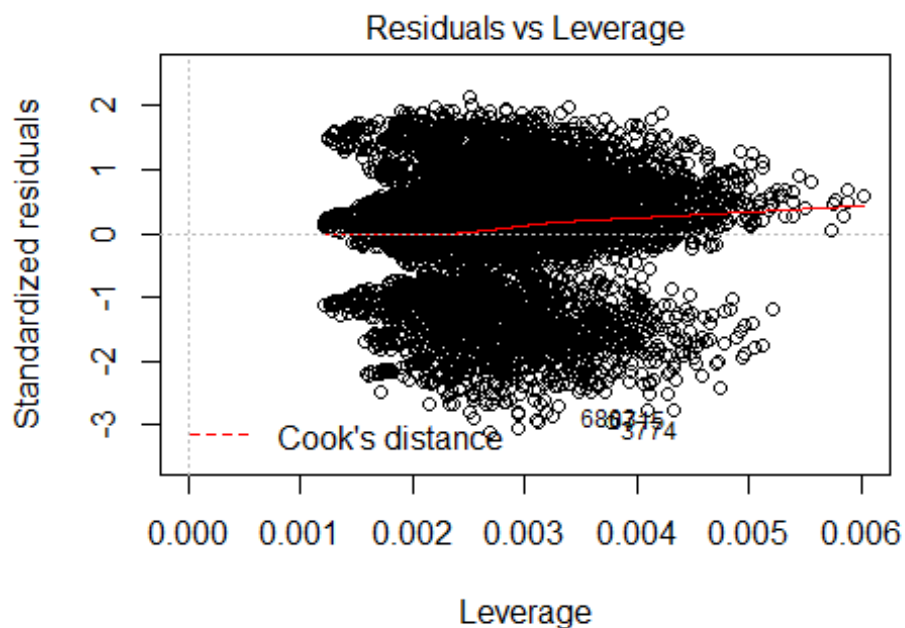
Fitted values
 $\text{turn} \sim \text{Gender} + \text{SeniorCitizen} + \text{Partner} + \text{Dependents} + \text{Tenure} + \text{Pt}$



Theoretical Quantiles
 $\text{turn} \sim \text{Gender} + \text{SeniorCitizen} + \text{Partner} + \text{Dependents} + \text{Tenure} + \text{Pt}$



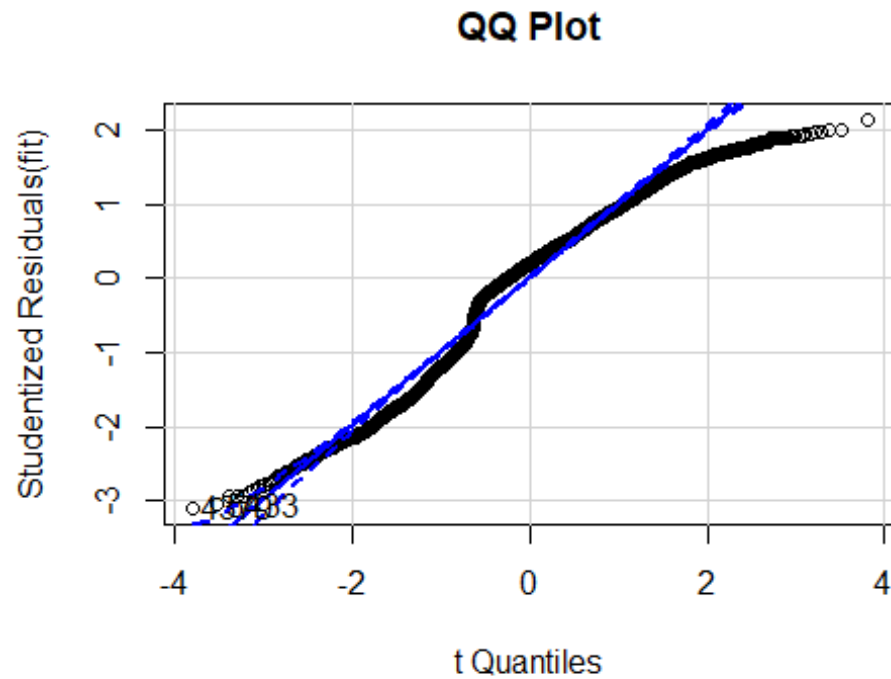
turn ~ Gender + SeniorCitizen + Partner + Dependents + Tenure + Pt



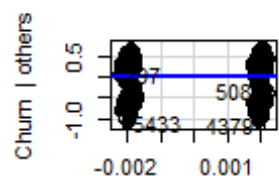
turn ~ Gender + SeniorCitizen + Partner + Dependents + Tenure + Pt

#Finding Outliers and plotting scatterplot for visual analysis
outlierTest(fit)

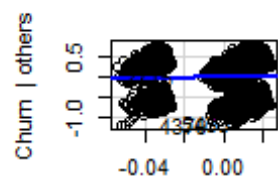
```
## No Studentized residuals with Bonferonni p < 0.05
## Largest |rstudent|:
##      rstudent unadjusted p-value Bonferonni p
## 4379 -3.101834          0.0019309          NA
qqPlot(fit, main="QQ Plot")
```



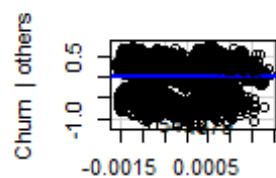
```
## [1] 4379 5433
#Plotting Leverage plots
leveragePlots(fit)
```

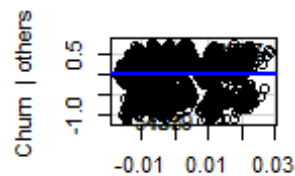
Gender | others



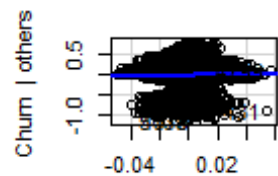
SeniorCitizen | others



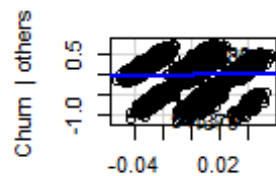
Partner | others



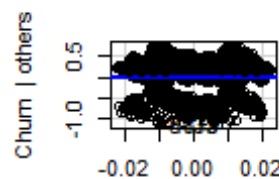
Dependents | others



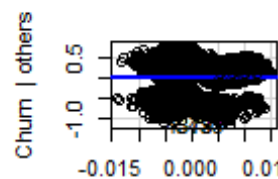
Tenure | others



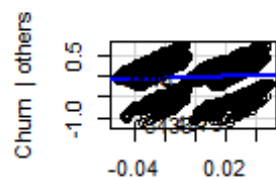
PhoneService | others



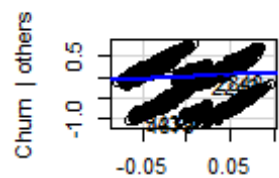
MultipleLines | others



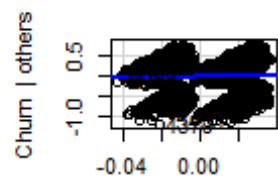
InternetService | others



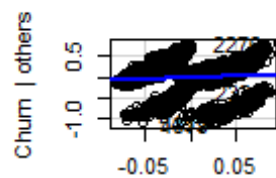
OnlineBackup | others



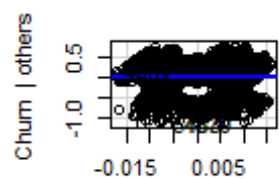
OnlineSecurity | others



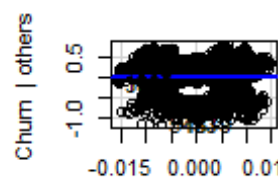
DeviceProtection | others



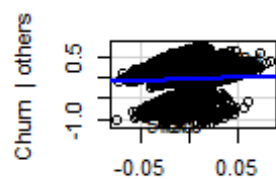
TechSupport | others



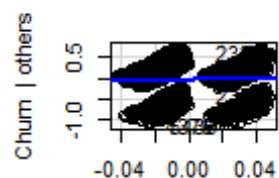
StreamingTV | others



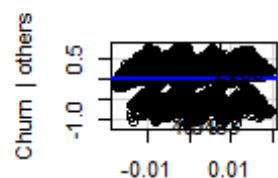
StreamingMovies | others



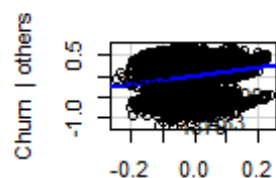
Contract | others



PaperlessBilling | others

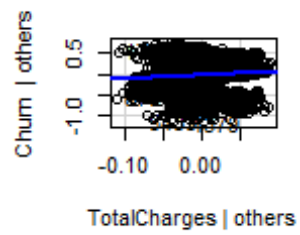


PaymentMethod | others



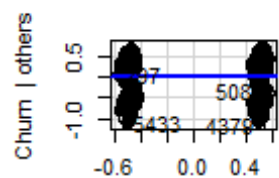
MonthlyCharges | others

Leverage Plots

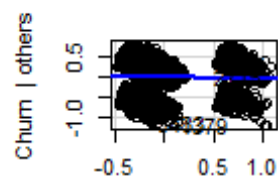


Plotting variable plots for Influential Observations

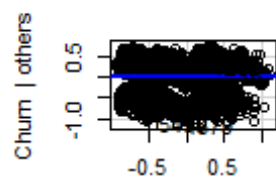
avPlots(fit)



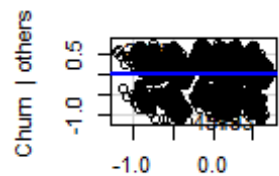
Gender | others



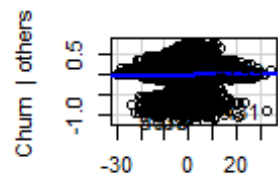
SeniorCitizen | others



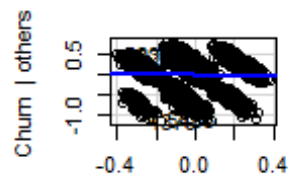
Partner | others



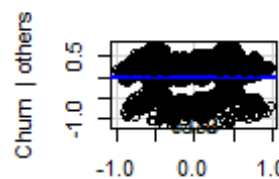
Dependents | others



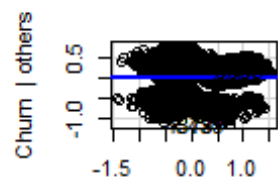
Tenure | others



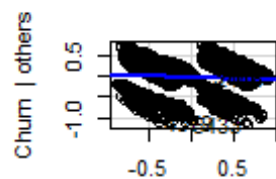
PhoneService | others



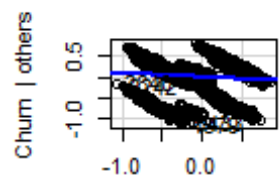
MultipleLines | others



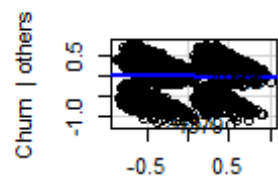
InternetService | others



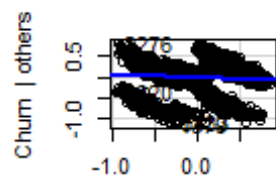
OnlineBackup | others



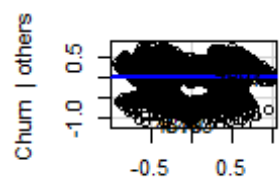
OnlineSecurity | others



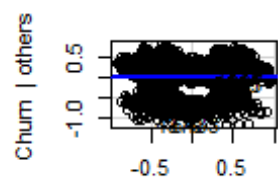
DeviceProtection | others



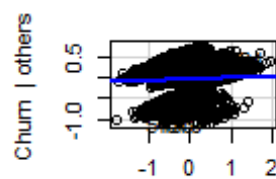
TechSupport | others



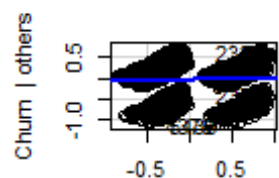
StreamingTV | others



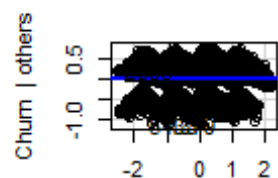
StreamingMovies | others



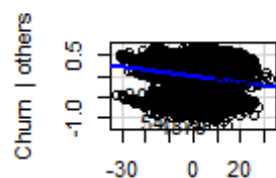
Contract | others



PaperlessBilling | others

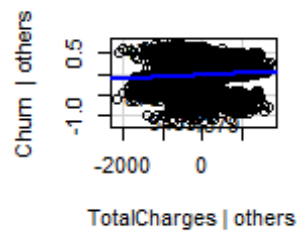


PaymentMethod | others

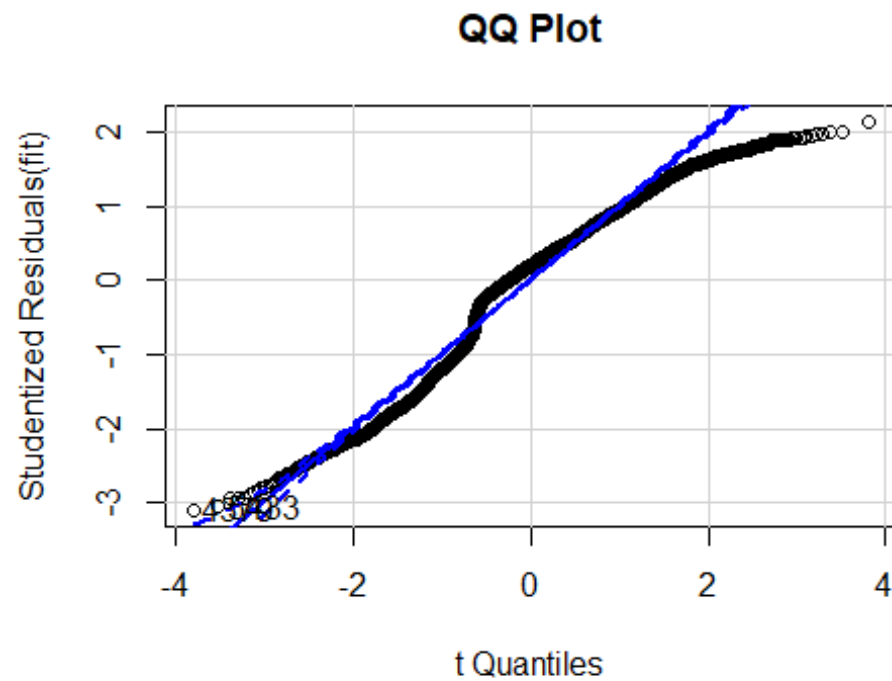


MonthlyCharges | others

Added-Variable Plots

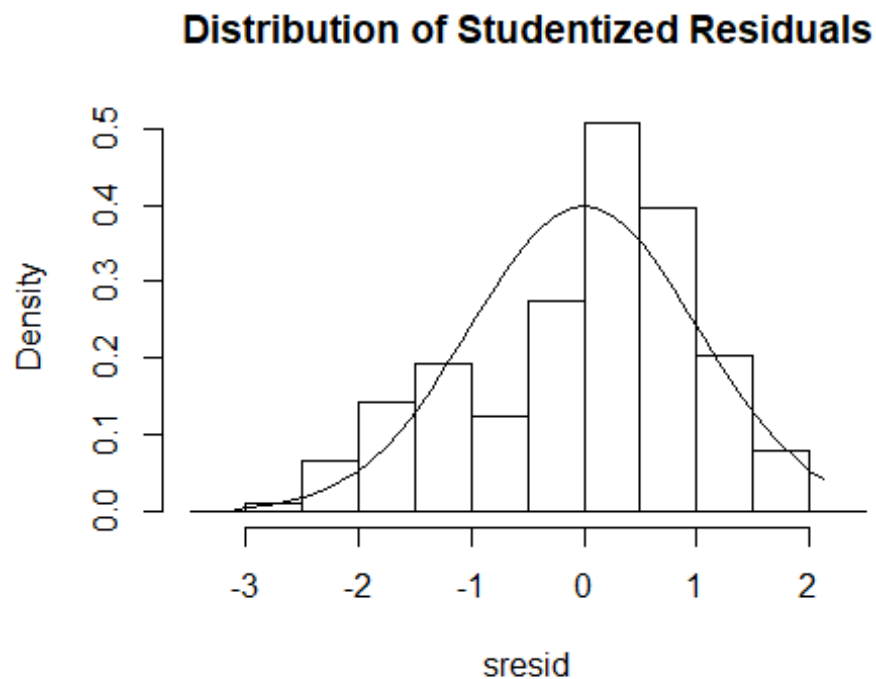


```
# Normality of Residuals and qqplot for studentized resid  
qqPlot(fit, main="QQ Plot")
```



```
## [1] 4379 5433

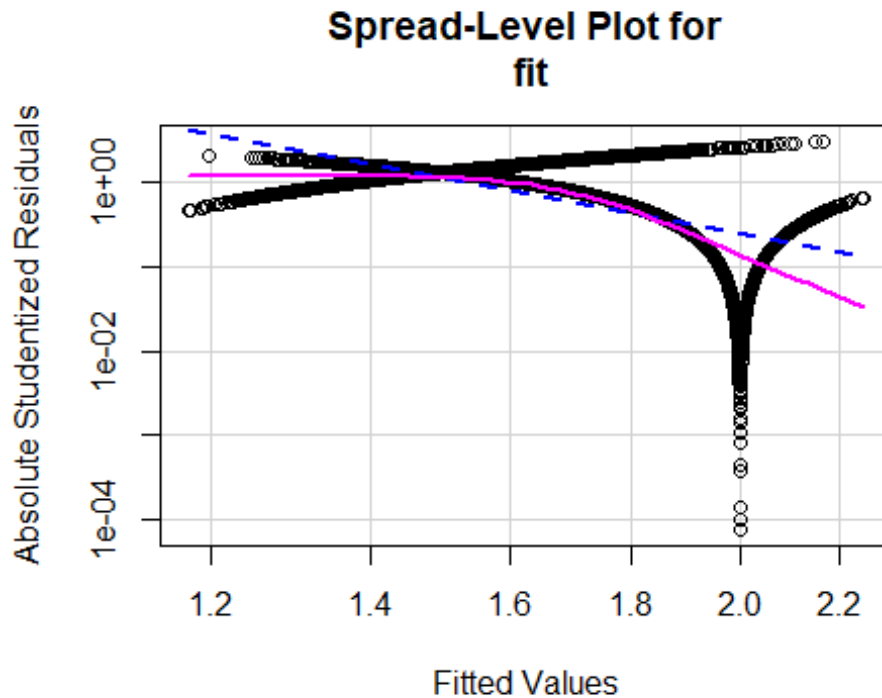
#Distribution of studentized residuals
sresid <- studres(fit)
hist(sresid, freq=FALSE,
     main="Distribution of Studentized Residuals")
xfit<-seq(min(sresid),max(sresid),length=40)
yfit<-dnorm(xfit)
lines(xfit, yfit)
```



```
#Non-constant Error Variance
#Evaluating homoscedasticity
#Non-constant error variance test
ncvTest(fit)

## Non-constant Variance Score Test
## Variance formula: ~ fitted.values
## Chisquare = 914.0037    Df = 1    p = 8.863657e-201

#Plotting studentized residuals v/s. fitted values
spreadLevelPlot(fit)
```



```
##
## Suggested power transformation: 6.282503

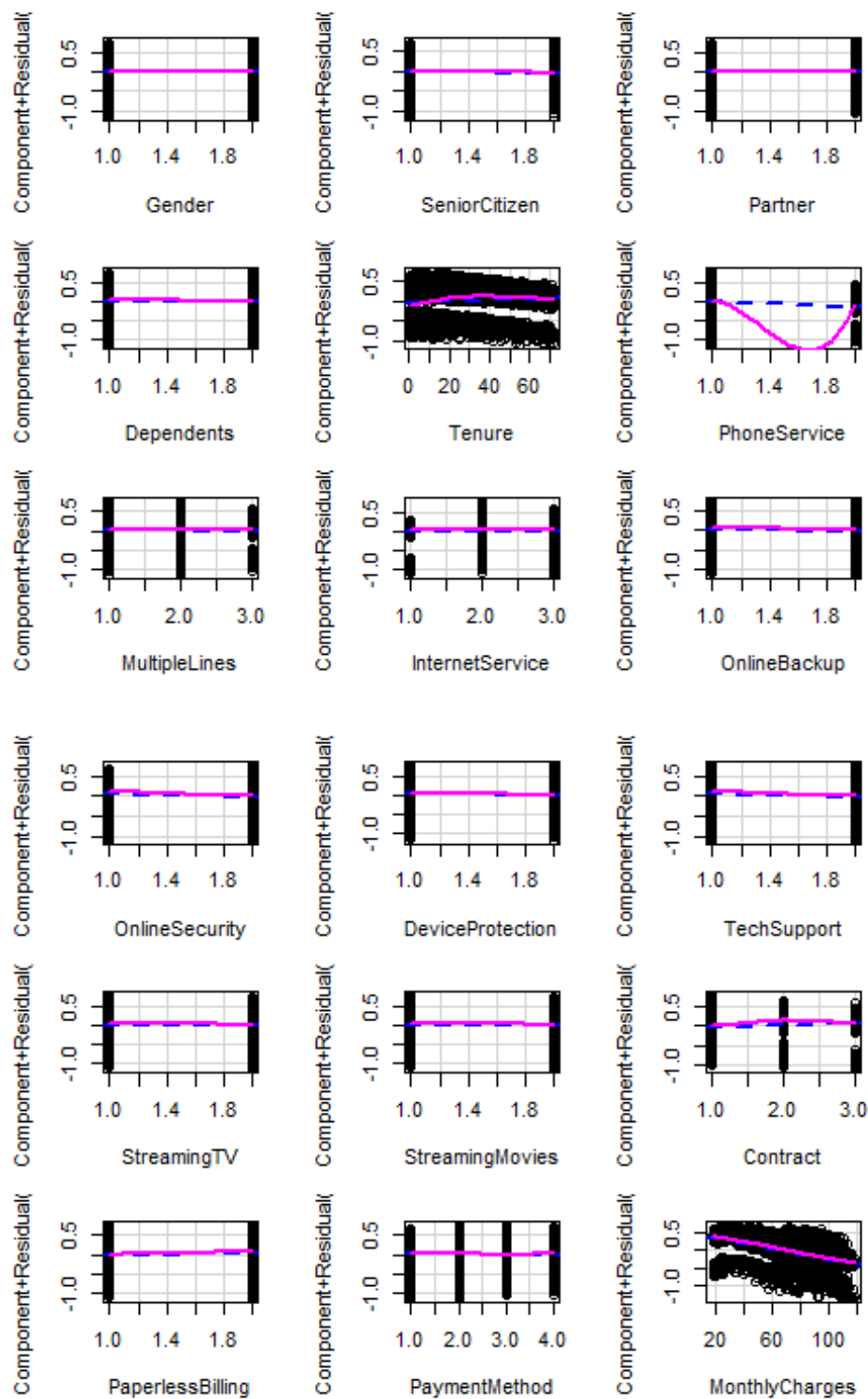
#Multi-collinearity
# Evaluate Collinearity
vif(fit) # variance inflation factors
```

##	Gender	SeniorCitizen	Partner	Dependents
##	1.001896	1.149619	1.461181	1.379675
##	Tenure	PhoneService	MultipleLines	InternetService
##	7.493307	3.653103	2.726882	1.923602
##	OnlineBackup	OnlineSecurity	DeviceProtection	TechSupport
##	1.517621	1.494666	1.593000	1.541748
##	StreamingTV	StreamingMovies	Contract	PaperlessBilling
##	1.939452	1.945417	2.492521	1.202420
##	PaymentMethod	MonthlyCharges	TotalCharges	
##	1.186114	6.434736	10.616907	

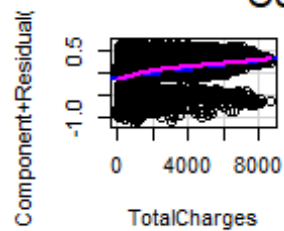
```
sqrt(vif(fit)) > 2
```

##	Gender	SeniorCitizen	Partner	Dependents
##	FALSE	FALSE	FALSE	FALSE
##	Tenure	PhoneService	MultipleLines	InternetService
##	TRUE	FALSE	FALSE	FALSE
##	OnlineBackup	OnlineSecurity	DeviceProtection	TechSupport
##	FALSE	FALSE	FALSE	FALSE
##	StreamingTV	StreamingMovies	Contract	PaperlessBilling

```
##           FALSE           FALSE           FALSE           FALSE
##   PaymentMethod MonthlyCharges TotalCharges
##           FALSE           TRUE           TRUE
#Nonlinearity
# component + residual plot
crPlots(fit)
```



Component + Residual Plots



#Global test of model assumptions

*##In the below steps we are performing regressions using all independent variable and we keep
##on eliminating the ones which are not significant in the next regression until we see
##constant values for R2*

```
gvmodel <- gvlma(fit)
summary(gvmodel)
```

```
##
## Call:
## lm(formula = Churn ~ Gender + SeniorCitizen + Partner + Dependents +
##      Tenure + PhoneService + MultipleLines + InternetService +
##      OnlineBackup + OnlineSecurity + DeviceProtection + TechSupport +
##      StreamingTV + StreamingMovies + Contract + PaperlessBilling +
##      PaymentMethod + MonthlyCharges + TotalCharges, data = tablechurn)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -1.16590 -0.29353  0.07249  0.26751  0.80298
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  2.714e+00  9.660e-02  28.098  < 2e-16 ***
## Gender       3.950e-03  8.991e-03   0.439  0.660414
```

```

## SeniorCitizen    -5.014e-02  1.306e-02  -3.840  0.000124 ***
## Partner          1.714e-03  1.086e-02   0.158  0.874621
## Dependents       -2.389e-02  1.153e-02  -2.072  0.038282 *
## Tenure           1.677e-03  5.009e-04   3.348  0.000818 ***
## PhoneService     -1.394e-01  2.904e-02  -4.799  1.63e-06 ***
## MultipleLines    -2.248e-02  1.131e-02  -1.987  0.046912 *
## InternetService   9.770e-03  8.449e-03   1.156  0.247568
## OnlineBackup     -5.578e-02  1.164e-02  -4.792  1.68e-06 ***
## OnlineSecurity   -9.139e-02  1.214e-02  -7.526  5.88e-14 ***
## DeviceProtection -4.199e-02  1.193e-02  -3.518  0.000437 ***
## TechSupport      -9.267e-02  1.229e-02  -7.541  5.23e-14 ***
## StreamingTV      -1.756e-02  1.286e-02  -1.366  0.172065
## StreamingMovies  -1.631e-02  1.285e-02  -1.269  0.204469
## Contract          4.278e-02  8.513e-03   5.025  5.16e-07 ***
## PaperlessBilling  5.032e-02  1.002e-02   5.020  5.28e-07 ***
## PaymentMethod    -7.811e-03  4.582e-03  -1.705  0.088325 .
## MonthlyCharges   -7.487e-03  3.787e-04 -19.771  < 2e-16 ***
## TotalCharges      5.178e-05  6.456e-06   8.020  1.23e-15 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.3766 on 7012 degrees of freedom
## Multiple R-squared:  0.2752, Adjusted R-squared:  0.2733
## F-statistic: 140.1 on 19 and 7012 DF,  p-value: < 2.2e-16
##
##
## ASSESSMENT OF THE LINEAR MODEL ASSUMPTIONS
## USING THE GLOBAL TEST ON 4 DEGREES-OF-FREEDOM:
## Level of Significance = 0.05
##
## Call:
## gvlma(x = fit)
##
##              Value    p-value              Decision
## Global Stat      664.671 0.000e+00 Assumptions NOT satisfied!
## Skewness         366.591 0.000e+00 Assumptions NOT satisfied!
## Kurtosis          51.526 7.064e-13 Assumptions NOT satisfied!
## Link Function    244.686 0.000e+00 Assumptions NOT satisfied!
## Heteroscedasticity 1.867 1.718e-01 Assumptions acceptable.

fit

##
## Call:
## lm(formula = Churn ~ Gender + SeniorCitizen + Partner + Dependents +
##     Tenure + PhoneService + MultipleLines + InternetService +
##     OnlineBackup + OnlineSecurity + DeviceProtection + TechSupport +
##     StreamingTV + StreamingMovies + Contract + PaperlessBilling +
##     PaymentMethod + MonthlyCharges + TotalCharges, data = tablechurn)
##

```

```
## Coefficients:
##      (Intercept)      Gender      SeniorCitizen      Partner
##      2.714e+00      3.950e-03      -5.014e-02      1.714e-03
##      Dependents      Tenure      PhoneService      MultipleLines
##      -2.389e-02      1.677e-03      -1.394e-01      -2.248e-02
##      InternetService      OnlineBackup      OnlineSecurity      DeviceProtection
##      9.770e-03      -5.578e-02      -9.139e-02      -4.199e-02
##      TechSupport      StreamingTV      StreamingMovies      Contract
##      -9.267e-02      -1.756e-02      -1.631e-02      4.278e-02
##      PaperlessBilling      PaymentMethod      MonthlyCharges      TotalCharges
##      5.032e-02      -7.811e-03      -7.487e-03      5.178e-05
```

```
summary(fit)
```

```
##
## Call:
## lm(formula = Churn ~ Gender + SeniorCitizen + Partner + Dependents +
##      Tenure + PhoneService + MultipleLines + InternetService +
##      OnlineBackup + OnlineSecurity + DeviceProtection + TechSupport +
##      StreamingTV + StreamingMovies + Contract + PaperlessBilling +
##      PaymentMethod + MonthlyCharges + TotalCharges, data = tablechurn)
##
```

```
## Residuals:
##      Min      1Q  Median      3Q      Max
## -1.16590 -0.29353  0.07249  0.26751  0.80298
##
```

```
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  2.714e+00  9.660e-02  28.098 < 2e-16 ***
## Gender       3.950e-03  8.991e-03   0.439 0.660414
## SeniorCitizen -5.014e-02  1.306e-02  -3.840 0.000124 ***
## Partner      1.714e-03  1.086e-02   0.158 0.874621
## Dependents   -2.389e-02  1.153e-02  -2.072 0.038282 *
## Tenure       1.677e-03  5.009e-04   3.348 0.000818 ***
## PhoneService -1.394e-01  2.904e-02  -4.799 1.63e-06 ***
## MultipleLines -2.248e-02  1.131e-02  -1.987 0.046912 *
## InternetService 9.770e-03  8.449e-03   1.156 0.247568
## OnlineBackup  -5.578e-02  1.164e-02  -4.792 1.68e-06 ***
## OnlineSecurity -9.139e-02  1.214e-02  -7.526 5.88e-14 ***
## DeviceProtection -4.199e-02  1.193e-02  -3.518 0.000437 ***
## TechSupport   -9.267e-02  1.229e-02  -7.541 5.23e-14 ***
## StreamingTV   -1.756e-02  1.286e-02  -1.366 0.172065
## StreamingMovies -1.631e-02  1.285e-02  -1.269 0.204469
## Contract      4.278e-02  8.513e-03   5.025 5.16e-07 ***
## PaperlessBilling 5.032e-02  1.002e-02   5.020 5.28e-07 ***
## PaymentMethod -7.811e-03  4.582e-03  -1.705 0.088325 .
## MonthlyCharges -7.487e-03  3.787e-04 -19.771 < 2e-16 ***
## TotalCharges  5.178e-05  6.456e-06   8.020 1.23e-15 ***
## ---
```

```
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
##
## Residual standard error: 0.3766 on 7012 degrees of freedom
## Multiple R-squared:  0.2752, Adjusted R-squared:  0.2733
## F-statistic: 140.1 on 19 and 7012 DF,  p-value: < 2.2e-16

fit1<-fit
fit2<- lm(Churn~Gender+SeniorCitizen+Partner+Dependents+Tenure+PhoneService
+MultipleLines+InternetService+OnlineBackup+OnlineSecurity
+DeviceProtection+TechSupport+StreamingTV+StreamingMovies
+Contract+PaperlessBilling+MonthlyCharges
+TotalCharges, data=tablechurn)
summary(fit2)

##
## Call:
## lm(formula = Churn ~ Gender + SeniorCitizen + Partner + Dependents +
##      Tenure + PhoneService + MultipleLines + InternetService +
##      OnlineBackup + OnlineSecurity + DeviceProtection + TechSupport +
##      StreamingTV + StreamingMovies + Contract + PaperlessBilling +
##      MonthlyCharges + TotalCharges, data = tablechurn)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -1.15675 -0.29405  0.07269  0.26618  0.80173
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   2.685e+00  9.508e-02  28.238 < 2e-16 ***
## Gender         3.673e-03  8.991e-03   0.409 0.682870
## SeniorCitizen -5.002e-02  1.306e-02  -3.831 0.000129 ***
## Partner        1.343e-03  1.086e-02   0.124 0.901592
## Dependents    -2.372e-02  1.153e-02  -2.057 0.039706 *
## Tenure         1.838e-03  4.920e-04   3.737 0.000188 ***
## PhoneService  -1.394e-01  2.905e-02  -4.799 1.63e-06 ***
## MultipleLines  -2.224e-02  1.131e-02  -1.966 0.049322 *
## InternetService 1.023e-02  8.446e-03   1.212 0.225669
## OnlineBackup   -5.574e-02  1.164e-02  -4.788 1.72e-06 ***
## OnlineSecurity -9.131e-02  1.215e-02  -7.518 6.24e-14 ***
## DeviceProtection -4.213e-02  1.194e-02  -3.530 0.000418 ***
## TechSupport    -9.277e-02  1.229e-02  -7.548 4.96e-14 ***
## StreamingTV    -1.709e-02  1.286e-02  -1.330 0.183666
## StreamingMovies -1.601e-02  1.285e-02  -1.246 0.212850
## Contract        4.305e-02  8.513e-03   5.057 4.37e-07 ***
## PaperlessBilling 4.995e-02  1.002e-02   4.984 6.39e-07 ***
## MonthlyCharges -7.428e-03  3.771e-04 -19.695 < 2e-16 ***
## TotalCharges    5.099e-05  6.440e-06   7.917 2.81e-15 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.3767 on 7013 degrees of freedom
```

```
## Multiple R-squared:  0.2749, Adjusted R-squared:  0.2731
## F-statistic: 147.7 on 18 and 7013 DF,  p-value: < 2.2e-16

fit3<- lm(Churn~Gender+SeniorCitizen+Partner+Dependents+Tenure+PhoneService
          +MultipleLines+InternetService+OnlineBackup+OnlineSecurity
          +DeviceProtection+TechSupport+StreamingTV+
          Contract+PaperlessBilling+MonthlyCharges
          +TotalCharges, data=tablechurn)
summary(fit3)

##
## Call:
## lm(formula = Churn ~ Gender + SeniorCitizen + Partner + Dependents +
##      Tenure + PhoneService + MultipleLines + InternetService +
##      OnlineBackup + OnlineSecurity + DeviceProtection + TechSupport +
##      StreamingTV + Contract + PaperlessBilling + MonthlyCharges +
##      TotalCharges, data = tablechurn)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -1.16051 -0.29141  0.07225  0.26624  0.80783
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   2.637e+00  8.688e-02  30.351 < 2e-16 ***
## Gender         3.585e-03  8.991e-03   0.399 0.690116
## SeniorCitizen  -5.029e-02  1.306e-02  -3.851 0.000119 ***
## Partner        1.243e-03  1.086e-02   0.114 0.908887
## Dependents     -2.370e-02  1.153e-02  -2.056 0.039846 *
## Tenure         1.814e-03  4.916e-04   3.690 0.000226 ***
## PhoneService   -1.318e-01  2.840e-02  -4.641 3.54e-06 ***
## MultipleLines  -2.337e-02  1.127e-02  -2.073 0.038233 *
## InternetService 1.023e-02  8.446e-03   1.211 0.225933
## OnlineBackup    -5.419e-02  1.158e-02  -4.681 2.90e-06 ***
## OnlineSecurity  -8.973e-02  1.208e-02  -7.428 1.23e-13 ***
## DeviceProtection -4.236e-02  1.193e-02  -3.549 0.000388 ***
## TechSupport     -9.238e-02  1.229e-02  -7.519 6.19e-14 ***
## StreamingTV     -1.878e-02  1.279e-02  -1.469 0.141814
## Contract        4.440e-02  8.444e-03   5.259 1.49e-07 ***
## PaperlessBilling 5.006e-02  1.002e-02   4.995 6.03e-07 ***
## MonthlyCharges  -7.269e-03  3.549e-04 -20.481 < 2e-16 ***
## TotalCharges    5.171e-05  6.414e-06   8.062 8.73e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.3767 on 7014 degrees of freedom
## Multiple R-squared:  0.2748, Adjusted R-squared:  0.273
## F-statistic: 156.3 on 17 and 7014 DF,  p-value: < 2.2e-16
```

```

fit4<- lm(Churn~Gender+SeniorCitizen+Partner+Dependents+Tenure+PhoneService
          +MultipleLines+InternetService+OnlineBackup+OnlineSecurity
          +DeviceProtection+TechSupport+Contract+PaperlessBilling+MonthlyCharges
          +TotalCharges, data=tablechurn)
summary(fit4)

##
## Call:
## lm(formula = Churn ~ Gender + SeniorCitizen + Partner + Dependents +
##      Tenure + PhoneService + MultipleLines + InternetService +
##      OnlineBackup + OnlineSecurity + DeviceProtection + TechSupport +
##      Contract + PaperlessBilling + MonthlyCharges + TotalCharges,
##      data = tablechurn)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -1.16571 -0.28928  0.07148  0.26612  0.81598
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   2.575e+00  7.608e-02  33.847 < 2e-16 ***
## Gender         3.532e-03  8.992e-03   0.393 0.694445
## SeniorCitizen -5.102e-02  1.305e-02  -3.910 9.31e-05 ***
## Partner        1.112e-03  1.086e-02   0.102 0.918482
## Dependents    -2.420e-02  1.153e-02  -2.100 0.035773 *
## Tenure         1.784e-03  4.912e-04   3.632 0.000284 ***
## PhoneService  -1.219e-01  2.760e-02  -4.418 1.01e-05 ***
## MultipleLines -2.496e-02  1.122e-02  -2.225 0.026143 *
## InternetService 1.013e-02  8.447e-03   1.199 0.230417
## OnlineBackup   -5.247e-02  1.152e-02  -4.556 5.31e-06 ***
## OnlineSecurity -8.740e-02  1.198e-02  -7.298 3.24e-13 ***
## DeviceProtection -4.236e-02  1.194e-02  -3.550 0.000388 ***
## TechSupport    -9.194e-02  1.228e-02  -7.485 8.05e-14 ***
## Contract       4.613e-02  8.362e-03   5.516 3.59e-08 ***
## PaperlessBilling 4.991e-02  1.002e-02   4.980 6.51e-07 ***
## MonthlyCharges -7.055e-03  3.238e-04 -21.788 < 2e-16 ***
## TotalCharges   5.260e-05  6.386e-06   8.237 < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.3767 on 7015 degrees of freedom
## Multiple R-squared:  0.2745, Adjusted R-squared:  0.2729
## F-statistic: 165.9 on 16 and 7015 DF, p-value: < 2.2e-16

fit5<- lm(Churn~Gender+SeniorCitizen+Partner+Dependents+Tenure+PhoneService
          +MultipleLines+InternetService+OnlineSecurity
          +DeviceProtection+TechSupport+Contract+PaperlessBilling+MonthlyCharges

```

```

+TotalCharges, data=tablechurn)
summary(fit5)

##
## Call:
## lm(formula = Churn ~ Gender + SeniorCitizen + Partner + Dependents +
##      Tenure + PhoneService + MultipleLines + InternetService +
##      OnlineSecurity + DeviceProtection + TechSupport + Contract +
##      PaperlessBilling + MonthlyCharges + TotalCharges, data = tablechurn)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -1.19592 -0.29079  0.07252  0.26750  0.80480
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   2.443e+00  7.042e-02  34.691 < 2e-16 ***
## Gender        2.921e-03  9.003e-03   0.324 0.745619
## SeniorCitizen -5.133e-02  1.307e-02  -3.929 8.62e-05 ***
## Partner       1.329e-03  1.088e-02   0.122 0.902810
## Dependents    -2.550e-02  1.154e-02  -2.210 0.027160 *
## Tenure        1.760e-03  4.919e-04   3.578 0.000349 ***
## PhoneService  -1.107e-01  2.753e-02  -4.022 5.84e-05 ***
## MultipleLines -2.757e-02  1.122e-02  -2.457 0.014049 *
## InternetService 1.603e-02  8.359e-03   1.917 0.055260 .
## OnlineSecurity -8.723e-02  1.199e-02  -7.274 3.88e-13 ***
## DeviceProtection -3.951e-02  1.194e-02  -3.311 0.000935 ***
## TechSupport    -9.150e-02  1.230e-02  -7.439 1.14e-13 ***
## Contract       4.681e-02  8.373e-03   5.591 2.34e-08 ***
## PaperlessBilling 5.042e-02  1.004e-02   5.024 5.19e-07 ***
## MonthlyCharges -6.895e-03  3.223e-04 -21.391 < 2e-16 ***
## TotalCharges   5.734e-05  6.310e-06   9.087 < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.3772 on 7016 degrees of freedom
## Multiple R-squared:  0.2724, Adjusted R-squared:  0.2708
## F-statistic: 175.1 on 15 and 7016 DF, p-value: < 2.2e-16

fit6<- lm(Churn~Gender+SeniorCitizen+Partner+Dependents+Tenure+PhoneService
+MultipleLines+OnlineSecurity
+DeviceProtection+TechSupport+Contract+PaperlessBilling+MonthlyCharges
+TotalCharges, data=tablechurn)
summary(fit6)

##
## Call:
## lm(formula = Churn ~ Gender + SeniorCitizen + Partner + Dependents +
##      Tenure + PhoneService + MultipleLines + OnlineSecurity +

```

```
##      DeviceProtection + TechSupport + Contract + PaperlessBilling +
##      MonthlyCharges + TotalCharges, data = tablechurn)
##
## Residuals:
##      Min        1Q      Median        3Q        Max
## -1.18559 -0.29352  0.07063  0.26881  0.80231
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   2.483e+00  6.723e-02  36.936 < 2e-16 ***
## Gender         3.160e-03  9.004e-03   0.351 0.725623
## SeniorCitizen -5.201e-02  1.306e-02  -3.981 6.93e-05 ***
## Partner        1.465e-03  1.088e-02   0.135 0.892890
## Dependents    -2.551e-02  1.154e-02  -2.210 0.027110 *
## Tenure         1.794e-03  4.916e-04   3.649 0.000265 ***
## PhoneService  -9.332e-02  2.600e-02  -3.590 0.000333 ***
## MultipleLines  -2.857e-02  1.121e-02  -2.548 0.010842 *
## OnlineSecurity -9.400e-02  1.146e-02  -8.202 2.80e-16 ***
## DeviceProtection -4.200e-02  1.187e-02  -3.539 0.000404 ***
## TechSupport   -9.767e-02  1.187e-02  -8.225 2.31e-16 ***
## Contract       4.456e-02  8.292e-03   5.374 7.95e-08 ***
## PaperlessBilling 4.994e-02  1.003e-02   4.977 6.61e-07 ***
## MonthlyCharges -6.753e-03  3.138e-04 -21.522 < 2e-16 ***
## TotalCharges   5.606e-05  6.276e-06   8.933 < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.3773 on 7017 degrees of freedom
## Multiple R-squared:  0.272, Adjusted R-squared:  0.2706
## F-statistic: 187.3 on 14 and 7017 DF,  p-value: < 2.2e-16

fit7<- lm(Churn~SeniorCitizen+Dependents+Tenure+PhoneService
          +MultipleLines+OnlineSecurity
          +DeviceProtection+TechSupport+Contract+PaperlessBilling+MonthlyCharges
          +TotalCharges, data=tablechurn)
summary(fit7)

##
## Call:
## lm(formula = Churn ~ SeniorCitizen + Dependents + Tenure + PhoneService +
##      MultipleLines + OnlineSecurity + DeviceProtection + TechSupport +
##      Contract + PaperlessBilling + MonthlyCharges + TotalCharges,
##      data = tablechurn)
##
## Residuals:
##      Min        1Q      Median        3Q        Max
## -1.18779 -0.29342  0.07041  0.26863  0.80440
##
## Coefficients:
```



```
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    2.489e+00  6.480e-02  38.418 < 2e-16 ***
## SeniorCitizen -5.218e-02  1.300e-02  -4.016 5.99e-05 ***
## Dependents    -2.486e-02  1.036e-02  -2.400 0.016420 *
## Tenure         1.786e-03  4.881e-04   3.660 0.000254 ***
## PhoneService  -9.319e-02  2.599e-02  -3.586 0.000338 ***
## MultipleLines -2.863e-02  1.121e-02  -2.554 0.010660 *
## OnlineSecurity -9.393e-02  1.146e-02  -8.197 2.90e-16 ***
## DeviceProtection -4.199e-02  1.186e-02  -3.539 0.000404 ***
## TechSupport   -9.768e-02  1.187e-02  -8.230 < 2e-16 ***
## Contract       4.452e-02  8.289e-03   5.370 8.11e-08 ***
## PaperlessBilling 4.998e-02  1.003e-02   4.981 6.47e-07 ***
## MonthlyCharges -6.755e-03  3.136e-04 -21.538 < 2e-16 ***
## TotalCharges   5.608e-05  6.274e-06   8.938 < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.3773 on 7019 degrees of freedom
## Multiple R-squared:  0.272, Adjusted R-squared:  0.2708
## F-statistic: 218.5 on 12 and 7019 DF, p-value: < 2.2e-16

fit7<- lm(Churn~SeniorCitizen+Dependents+Tenure+PhoneService+OnlineSecurity
+DeviceProtection+TechSupport+Contract+PaperlessBilling+MonthlyCharges
+TotalCharges, data=tablechurn)
summary(fit7)

##
## Call:
## lm(formula = Churn ~ SeniorCitizen + Dependents + Tenure + PhoneService +
##      OnlineSecurity + DeviceProtection + TechSupport + Contract +
##      PaperlessBilling + MonthlyCharges + TotalCharges, data = tablechurn)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -1.20248 -0.29768  0.07117  0.26882  0.79270
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    2.531e+00  6.274e-02  40.339 < 2e-16 ***
## SeniorCitizen  -5.345e-02  1.299e-02  -4.114 3.93e-05 ***
## Dependents    -2.492e-02  1.036e-02  -2.405 0.016190 *
## Tenure         1.663e-03  4.859e-04   3.424 0.000621 ***
## PhoneService  -1.437e-01  1.688e-02  -8.511 < 2e-16 ***
## OnlineSecurity -9.623e-02  1.143e-02  -8.421 < 2e-16 ***
## DeviceProtection -4.425e-02  1.184e-02  -3.738 0.000187 ***
## TechSupport   -1.006e-01  1.182e-02  -8.508 < 2e-16 ***
## Contract       4.430e-02  8.292e-03   5.342 9.46e-08 ***
## PaperlessBilling 5.013e-02  1.004e-02   4.995 6.02e-07 ***
## MonthlyCharges -6.950e-03  3.044e-04 -22.836 < 2e-16 ***
```

```

## TotalCharges      5.541e-05  6.271e-06   8.835  < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.3774 on 7020 degrees of freedom
## Multiple R-squared:  0.2713, Adjusted R-squared:  0.2702
## F-statistic: 237.6 on 11 and 7020 DF,  p-value: < 2.2e-16

fit8<- lm(Churn~SeniorCitizen+Tenure+PhoneService+OnlineSecurity
+DeviceProtection+TechSupport+Contract+PaperlessBilling+MonthlyCharges
+TotalCharges, data=tablechurn)
summary(fit8)

##
## Call:
## lm(formula = Churn ~ SeniorCitizen + Tenure + PhoneService +
##      OnlineSecurity + DeviceProtection + TechSupport + Contract +
##      PaperlessBilling + MonthlyCharges + TotalCharges, data = tablechurn)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -1.21609 -0.29808  0.07179  0.27000  0.79348
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   2.495e+00  6.099e-02  40.917  < 2e-16 ***
## SeniorCitizen -5.853e-02  1.282e-02  -4.564 5.10e-06 ***
## Tenure         1.709e-03  4.857e-04   3.519 0.000435 ***
## PhoneService  -1.448e-01  1.688e-02  -8.581  < 2e-16 ***
## OnlineSecurity -9.735e-02  1.142e-02  -8.523  < 2e-16 ***
## DeviceProtection -4.437e-02  1.184e-02  -3.748 0.000180 ***
## TechSupport    -1.008e-01  1.182e-02  -8.526  < 2e-16 ***
## Contract       4.617e-02  8.258e-03   5.591 2.34e-08 ***
## PaperlessBilling 5.074e-02  1.004e-02   5.055 4.40e-07 ***
## MonthlyCharges -6.984e-03  3.041e-04 -22.965  < 2e-16 ***
## TotalCharges    5.527e-05  6.273e-06   8.811  < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.3775 on 7021 degrees of freedom
## Multiple R-squared:  0.2707, Adjusted R-squared:  0.2697
## F-statistic: 260.6 on 10 and 7021 DF,  p-value: < 2.2e-16

fit9<- lm(Churn~Tenure+MonthlyCharges+TotalCharges, data=tablechurn)
summary(fit9)

##
## Call:
## lm(formula = Churn ~ Tenure + MonthlyCharges + TotalCharges,
##      data = tablechurn)

```

```
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -1.05221 -0.31778  0.09134  0.25874  0.80134
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  1.931e+00  1.795e-02  107.57 < 2e-16 ***
## Tenure       2.774e-03  4.570e-04    6.07 1.34e-09 ***
## MonthlyCharges -7.083e-03  2.770e-04 -25.57 < 2e-16 ***
## TotalCharges  7.528e-05  6.318e-06   11.91 < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.3891 on 7028 degrees of freedom
## Multiple R-squared:  0.2247, Adjusted R-squared:  0.2243
## F-statistic: 678.8 on 3 and 7028 DF,  p-value: < 2.2e-16

##By running the above regression we notice that independent variables like
SeniorCitizen,Tenure,PhoneService,OnlineSecurity
##DeviceProtection,TechSupportContract,PaperlessBilling,MonthlyCharges and
TotalCharges could be factors
##that cause person to churn

#Comparing model
anova(fit1,fit8)

## Analysis of Variance Table
##
## Model 1: Churn ~ Gender + SeniorCitizen + Partner + Dependents + Tenure +
##      PhoneService + MultipleLines + InternetService + OnlineBackup +
##      OnlineSecurity + DeviceProtection + TechSupport + StreamingTV +
##      StreamingMovies + Contract + PaperlessBilling + PaymentMethod +
##      MonthlyCharges + TotalCharges
## Model 2: Churn ~ SeniorCitizen + Tenure + PhoneService + OnlineSecurity +
##      DeviceProtection + TechSupport + Contract + PaperlessBilling +
##      MonthlyCharges + TotalCharges
##      Res.Df      RSS Df Sum of Sq      F      Pr(>F)
## 1      7012    994.57
## 2      7021   1000.75  -9      -6.1797  4.8409 1.778e-06 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

step <- stepAIC(fit, direction="both")

## Start:  AIC=-13714
## Churn ~ Gender + SeniorCitizen + Partner + Dependents + Tenure +
##      PhoneService + MultipleLines + InternetService + OnlineBackup +
##      OnlineSecurity + DeviceProtection + TechSupport + StreamingTV +
##      StreamingMovies + Contract + PaperlessBilling + PaymentMethod +
##      MonthlyCharges + TotalCharges
```

```

##
##           Df Sum of Sq      RSS      AIC
## - Partner      1      0.004  994.57 -13716
## - Gender        1      0.027  994.60 -13716
## - InternetService  1      0.190  994.76 -13715
## - StreamingMovies  1      0.228  994.80 -13714
## - StreamingTV     1      0.265  994.84 -13714
## <none>                                994.57 -13714
## - PaymentMethod   1      0.412  994.98 -13713
## - MultipleLines    1      0.560  995.13 -13712
## - Dependents      1      0.609  995.18 -13712
## - Tenure          1      1.590  996.16 -13705
## - DeviceProtection 1      1.756  996.33 -13704
## - SeniorCitizen    1      2.092  996.66 -13701
## - OnlineBackup     1      3.258  997.83 -13693
## - PhoneService     1      3.267  997.84 -13693
## - PaperlessBilling 1      3.575  998.15 -13691
## - Contract         1      3.582  998.15 -13691
## - OnlineSecurity    1      8.034 1002.60 -13659
## - TechSupport       1      8.067 1002.64 -13659
## - TotalCharges      1      9.124 1003.69 -13652
## - MonthlyCharges    1     55.442 1050.01 -13334
##
## Step:  AIC=-13715.97
## Churn ~ Gender + SeniorCitizen + Dependents + Tenure + PhoneService +
##      MultipleLines + InternetService + OnlineBackup + OnlineSecurity +
##      DeviceProtection + TechSupport + StreamingTV + StreamingMovies +
##      Contract + PaperlessBilling + PaymentMethod + MonthlyCharges +
##      TotalCharges
##
##           Df Sum of Sq      RSS      AIC
## - Gender      1      0.028  994.60 -13718
## - InternetService  1      0.190  994.76 -13717
## - StreamingMovies  1      0.228  994.80 -13716
## - StreamingTV     1      0.264  994.84 -13716
## <none>                                994.57 -13716
## - PaymentMethod   1      0.411  994.98 -13715
## - MultipleLines    1      0.562  995.14 -13714
## + Partner          1      0.004  994.57 -13714
## - Dependents      1      0.706  995.28 -13713
## - Tenure          1      1.594  996.17 -13707
## - DeviceProtection 1      1.754  996.33 -13706
## - SeniorCitizen    1      2.131  996.71 -13703
## - OnlineBackup     1      3.258  997.83 -13695
## - PhoneService     1      3.264  997.84 -13695
## - PaperlessBilling 1      3.575  998.15 -13693
## - Contract         1      3.580  998.15 -13693
## - OnlineSecurity    1      8.032 1002.61 -13661
## - TechSupport       1      8.077 1002.65 -13661
## - TotalCharges      1      9.122 1003.70 -13654

```

```

## - MonthlyCharges      1      55.460 1050.03 -13336
##
## Step:  AIC=-13717.78
## Churn ~ SeniorCitizen + Dependents + Tenure + PhoneService +
##      MultipleLines + InternetService + OnlineBackup + OnlineSecurity +
##      DeviceProtection + TechSupport + StreamingTV + StreamingMovies +
##      Contract + PaperlessBilling + PaymentMethod + MonthlyCharges +
##      TotalCharges
##
##
##              Df Sum of Sq      RSS      AIC
## - InternetService      1      0.192  994.79 -13718
## - StreamingMovies      1      0.227  994.83 -13718
## - StreamingTV          1      0.263  994.87 -13718
## <none>                  994.60 -13718
## - PaymentMethod        1      0.407  995.01 -13717
## + Gender                1      0.028  994.57 -13716
## + Partner               1      0.004  994.60 -13716
## - MultipleLines         1      0.564  995.17 -13716
## - Dependents            1      0.709  995.31 -13715
## - Tenure                1      1.595  996.20 -13708
## - DeviceProtection      1      1.755  996.36 -13707
## - SeniorCitizen         1      2.131  996.73 -13705
## - OnlineBackup          1      3.250  997.85 -13697
## - PhoneService          1      3.260  997.86 -13697
## - Contract              1      3.577  998.18 -13694
## - PaperlessBilling      1      3.581  998.18 -13694
## - OnlineSecurity        1      8.016 1002.62 -13663
## - TechSupport           1      8.070 1002.67 -13663
## - TotalCharges          1      9.138 1003.74 -13656
## - MonthlyCharges        1     55.471 1050.07 -13338
##
## Step:  AIC=-13718.42
## Churn ~ SeniorCitizen + Dependents + Tenure + PhoneService +
##      MultipleLines + OnlineBackup + OnlineSecurity + DeviceProtection +
##      TechSupport + StreamingTV + StreamingMovies + Contract +
##      PaperlessBilling + PaymentMethod + MonthlyCharges + TotalCharges
##
##
##              Df Sum of Sq      RSS      AIC
## - StreamingMovies      1      0.227  995.02 -13719
## - StreamingTV          1      0.260  995.05 -13719
## <none>                  994.79 -13718
## + InternetService      1      0.192  994.60 -13718
## - PaymentMethod        1      0.425  995.22 -13717
## + Gender                1      0.030  994.76 -13717
## + Partner               1      0.004  994.79 -13716
## - MultipleLines         1      0.591  995.39 -13716
## - Dependents            1      0.704  995.50 -13715
## - Tenure                1      1.630  996.42 -13709
## - DeviceProtection      1      1.916  996.71 -13707
## - SeniorCitizen         1      2.167  996.96 -13705

```

```

## - PhoneService      1      3.078  997.87 -13699
## - Contract          1      3.416  998.21 -13696
## - PaperlessBilling  1      3.542  998.34 -13695
## - OnlineBackup      1      3.573  998.37 -13695
## - TotalCharges      1      8.950 1003.74 -13657
## - TechSupport       1      9.356 1004.15 -13655
## - OnlineSecurity    1      9.522 1004.32 -13653
## - MonthlyCharges    1     56.102 1050.90 -13335
##
## Step:  AIC=-13718.82
## Churn ~ SeniorCitizen + Dependents + Tenure + PhoneService +
##      MultipleLines + OnlineBackup + OnlineSecurity + DeviceProtection +
##      TechSupport + StreamingTV + Contract + PaperlessBilling +
##      PaymentMethod + MonthlyCharges + TotalCharges
##
##              Df Sum of Sq      RSS      AIC
## <none>                995.02 -13719
## - StreamingTV         1      0.317  995.34 -13719
## + StreamingMovies     1      0.227  994.79 -13718
## + InternetService     1      0.192  994.83 -13718
## - PaymentMethod       1      0.417  995.44 -13718
## + Gender              1      0.029  994.99 -13717
## + Partner              1      0.004  995.02 -13717
## - MultipleLines       1      0.656  995.68 -13716
## - Dependents          1      0.706  995.73 -13716
## - Tenure              1      1.588  996.61 -13710
## - DeviceProtection    1      1.937  996.96 -13707
## - SeniorCitizen       1      2.189  997.21 -13705
## - PhoneService        1      2.860  997.88 -13701
## - OnlineBackup        1      3.421  998.44 -13697
## - PaperlessBilling    1      3.558  998.58 -13696
## - Contract            1      3.709  998.73 -13695
## - TotalCharges        1      9.282 1004.30 -13656
## - TechSupport         1      9.287 1004.31 -13656
## - OnlineSecurity      1      9.316 1004.34 -13655
## - MonthlyCharges      1     60.876 1055.90 -13303

```

step\$anova

```

## Stepwise Model Path
## Analysis of Deviance Table
##
## Initial Model:
## Churn ~ Gender + SeniorCitizen + Partner + Dependents + Tenure +
##      PhoneService + MultipleLines + InternetService + OnlineBackup +
##      OnlineSecurity + DeviceProtection + TechSupport + StreamingTV +
##      StreamingMovies + Contract + PaperlessBilling + PaymentMethod +
##      MonthlyCharges + TotalCharges
##
## Final Model:

```

```

## Churn ~ SeniorCitizen + Dependents + Tenure + PhoneService +
##      MultipleLines + OnlineBackup + OnlineSecurity + DeviceProtection +
##      TechSupport + StreamingTV + Contract + PaperlessBilling +
##      PaymentMethod + MonthlyCharges + TotalCharges
##
##
##           Step Df      Deviance Resid. Df Resid. Dev      AIC
## 1
## 2      - Partner  1 0.003531785      7013   994.5741 -13715.97
## 3      - Gender  1 0.027527274      7014   994.6016 -13717.78
## 4 - InternetService  1 0.192459783      7015   994.7941 -13718.42
## 5 - StreamingMovies  1 0.226610422      7016   995.0207 -13718.82

predict.lm(fit8, data.frame(SeniorCitizen = 0,Tenure =20,PhoneService =
1,OnlineSecurity = 2,
                           DeviceProtection = 1,TechSupport = 2,Contract =
3,PaperlessBilling = 1,
                           MonthlyCharges = 100,TotalCharges=1000) )

##           1
## 1.490098

##By running the above prediction model using values like the user not being
senior citizen,Tenure
##being 20 months, Leveraging Phoneservice,DeviceProtection and
PaperlessBilling, not using OnlineSecurity
##and TechSupport, having contract of 2 years, MonthlyCharges and
TotalCharges being 100 &1000 respectively
##there is a likelihood of this customer churning

```