

Alicia Mullins

From: Debashis Basu
Sent: Wednesday, May 09, 2007 8:21 PM
To: Roland Benke; Donald Hooper; Kaushik Das
Subject: LUT's from three sample cases
Attachments: sum_1024_all_pars_without_cutoff.out; sum_1024_all_pars_120cutoff.out; sum_1024_all_pars_mixed_cutoff.out; without-cutoff.rtf; 120cutoff.rtf; mixedcutoff.rtf; lutFromTephra.cpp

I did three runs.

Case 1: When the cut-off is made 0.0

Case 2: When the cut-off is made 1.2

Case 3: Mixed cut-off (when the first three is 0.12 and the last value is 0.0)

I am attaching all the lookup table print-outs.

I am also attaching the print outs of the part of the .cpp files with this mail highlighting the changes.

Looks like the problem of the high area values is not there for the mixed cutoff cases.

I assume we will need further discussion on this.

Regards

Debashis

Properties Page

Return-path: <dbasu@cnwra.swri.edu>
Received: from romeo ([129.162.200.147])
by rogain.cnwra.swri.edu (Sun ONE Messaging Server 6.0 (built Oct 29 2003))
with ESMTP id <0JHS006SHUATEJ40@rogain.cnwra.swri.edu>; Wed,
09 May 2007 19:20:54 -0500 (CDT)
Date: Wed, 09 May 2007 19:20:53 -0500
From: Debashis Basu <dbasu@cnwra.swri.edu>
Subject: LUT's from three sample cases
To: 'Roland Benke' <rbenke@cnwra.swri.edu>,
'Don Hooper' <dhooper@cnwra.swri.edu>, Kaushik Das <kdas@cnwra.swri.edu>
Reply-to: dbasu@cnwra.swri.edu
Message-id: <000e01c79299\$12775310\$93c8a281@cnwra.swri.edu>
Organization: GED
MIME-version: 1.0
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2900.3028
X-Mailer: Microsoft Outlook, Build 10.0.6626
Content-type: multipart/mixed;
boundary="====_NextPart_000_000F_01C7926F.29A14B10"
Importance: Normal
X-Priority: 3 (Normal)
X-MSMail-priority: Normal

```

        if(ash_mass > 0.00){ // Cutoff Number from B. Hill
            mass_ash_fluvial += ash_mass;
            mass_hlw_fluvial += hlw_mass;
            area_fluvial += 1;
        }
    }
    //otherwise (x,y) is inside the wind-blown remobilization
area
else if( (x>=eolian_xmin && x<=(eolian_xmin+(37*spacing)))
&&
(y>=eolian_ymin && y<=(eolian_ymin+(56*spacing)))
){
    eoloian_count++;
    if(ash_mass > 0.00){ // Cutoff Number from B. Hill
        mass_ash_eolian += ash_mass;
        mass_hlw_eolian += hlw_mass;
        area_eolian += 1;
    }
}
//otherwise (x,y) is inside the wind-blown remobilization area
else if( (x>=eolian_xmin && x<=(eolian_xmin+(37*spacing))) &&
(y>=eolian_ymin && y<=(eolian_ymin+(56*spacing))) ){
    eoloian_count++;
    if(ash_mass > 0.00){
        mass_ash_eolian += ash_mass;
        mass_hlw_eolian += hlw_mass;
        area_eolian += 1;
    }
}
if( ( (int) x== (int) insitu_x) && ( (int) y== (int) insitu_y)
){
    if(ash_mass > 0.00){
        ash_institu = ash_mass;
        hlw_institu = hlw_mass;
        fprintf(stderr, "ash_institu = %.6le -----"
hlw_institu = %.6le\n", ash_institu, hlw_institu);
    }
}

//should use grid_ymin and grid_xmin to figure these
out
int i = 0;
int j = 0;
eruptionPoints->points.push_back(IJPairPtr(new
IJPair(i,j,x,y,ash_mass, hlw_mass)));
}
fprintf(stderr, "%i\n\n", erupt+1);

```

```

        if(ash_mass > 0.12){ // Cutoff Number from B. Hill
            mass_ash_fluvial += ash_mass;
            mass_hlw_fluvial += hlw_mass;
            area_fluvial += 1;
        }
    }
    //otherwise (x,y) is inside the wind-blown remobilization
area
else if( (x>=eolian_xmin && x<=(eolian_xmin+(37*spacing)))
&&
(y>=eolian_ymin && y<=(eolian_ymin+(56*spacing)))
){
    eoloian_count++;
    if(ash_mass > 0.12){ // Cutoff Number from B. Hill
        mass_ash_eolian += ash_mass;
        mass_hlw_eolian += hlw_mass;
        area_eolian += 1;
    }
}
//otherwise (x,y) is inside the wind-blown remobilization area
else if( (x>=eolian_xmin && x<=(eolian_xmin+(37*spacing))) &&
(y>=eolian_ymin && y<=(eolian_ymin+(56*spacing))) ){
    eoloian_count++;
    if(ash_mass > 0.12){
        mass_ash_eolian += ash_mass;
        mass_hlw_eolian += hlw_mass;
        area_eolian += 1;
    }
}
if( ( (int) x== (int) insitu_x) && ( (int) y== (int) insitu_y)
){
    if(ash_mass > 0.12){
        ash_institu = ash_mass;
        hlw_institu = hlw_mass;
        fprintf(stderr, "ash_institu = %.6le -----"
hlw_institu = %.6le\n", ash_institu, hlw_institu);
    }
}

//should use grid_ymin and grid_xmin to figure these
out
int i = 0;
int j = 0;
eruptionPoints->points.push_back(IJPairPtr(new
IJPair(i,j,x,y,ash_mass, hlw_mass)));
}
fprintf(stderr, "%i\n\n", erupt+1);

```

```

        if(ash_mass > 0.12){ // Cutoff Number from B. Hill
            mass_ash_fluvial += ash_mass;
            mass_hlw_fluvial += hlw_mass;
            area_fluvial += 1;
        }
    }
    //otherwise (x,y) is inside the wind-blown remobilization
area
else if( (x>=eolian_xmin && x<=(eolian_xmin+(37*spacing)))
&&
(y>=eolian_ymin && y<=(eolian_ymin+(56*spacing)))
)
{
    eoloian_count++;
    if(ash_mass > 0.12){ // Cutoff Number from B. Hill
        mass_ash_eolian += ash_mass;
        mass_hlw_eolian += hlw_mass;
        area_eolian += 1;
    }
}
//otherwise (x,y) is inside the wind-blown remobilization area
else if( (x>=eolian_xmin && x<=(eolian_xmin+(37*spacing))) &&
(y>=eolian_ymin && y<=(eolian_ymin+(56*spacing))) ){
    eoloian_count++;
    if(ash_mass > 0.12){
        mass_ash_eolian += ash_mass;
        mass_hlw_eolian += hlw_mass;
        area_eolian += 1;
    }
}
if( ( (int) x== (int) insitu_x) && ( (int) y== (int) insitu_y)
)
{
    if(ash mass > 0.00){
        ash_insitu = ash_mass;
        hlw_insitu = hlw_mass;
        fprintf(stderr, "ash_insitu = %.6le -----"
hlw_insitu = %.6le\n", ash_insitu, hlw_insitu);
    }
}

//should use grid_ymin and grid_xmin to figure these
out
int i = 0;
int j = 0;
eruptionPoints->points.push_back(IJPairPtr(new
IJPair(i,j,x,y,ash_mass, hlw_mass)));
}
fprintf(stderr, "%i\n\n", erupt+1);

```

```

#include "lutFromTephra.h"
#include <map>
#include <iostream>
#include <fstream>
#include <sstream>
#include <string>
#include <errno.h>
using namespace std;

// ----

LutFromTephra::LutFromTephra()
{
    grid = IJContainerPtr(new IJContainer());
    grid_xmin = 533000.0;
    grid_ymax = 4030000.0;
    grid_xmax = 570000.0;
    grid_ymin = 4100000.0;
}

*****
*   NAME: sum
*
*   PURPOSE: this function sums the areas, mass of ash, and mass of
*           hlw for the H2O remobilized and Wind-blown areas and the
*           masses for the RMEI location.
*
*   METHOD:
*
*   INPUT: points file with x(m), y(m), ashmass(kg/m2), fuelmass(kg/m2)
*   NOTE: Make sure the spacing of the points in the
*         points file includes the RMEI location. For
*         example, if the RMEI = 50,60 then don't make
*         xmin == 5 with a spacing of 10. You'll skip
*         right over the RMEI location.
*
*550000.000000 4075000.000000 2.2321e-02 5.9126e-04
*550000.000000 4076000.000000 1.0112e+00 2.6795e-02
*550000.000000 4077000.000000 1.7631e+01 4.6678e-01
*550000.000000 4078000.000000 5.3872e+01 1.4261e+00
*
*   OUTPUT:
#c_HLW_I,C_ash_I,m_HLW_f,m_ash_f,area_f,m_HLW_e,m_ash_e,area_e\n");
#g/m2,g/m2,g/m2,g/m2,m2,g/m2,g/m2,m2 (HLW masses are based on 1MTU of HLW erupted).\n");

```

```
*1.586200e-07 6.012100e-06 2.742464e+02 1.035623e+04 1.200000e+08 1.510569e+00 5.701683e+01 2.600000e+07  
*8.717200e-01 3.411800e+03 8.285483e+01 3.246579e+05 4.400000e+07 2.815876e+02 1.102750e+06 9.250000e+08  
*7.682400e-06 4.565700e-02 1.262596e+02 7.458070e+05 1.270000e+08 1.972166e+00 1.164610e+04 1.310000e+08
```

```
*
```

```
*
```

```
*****
```

GLOSSARY:

area_eolian = number of grid grid points within the wind blown location that contains ash/hlw mass (unitless)

area_fluvial = number of grid points within the remobilized-by-water location that contains ash/hlw mass (unitless)

ash_insitu = mass of ash at the RMEI location (g/m²)

ash_mass = ash mass at a point on the grid (value re-written each time a new point is read from the input file (kg/m²))

eolian_xmin = min x-coord for wind remobilization area (m)

eolian_ymin = max y-coord for wind remobilization area (m)

fluvial_xmin = min x-coord for H₂O remobilization area (m)

fluvial_ymin = max y-coord for H₂O remobilization area (m)

grid_xmin = min x-coord for grid area (m)

hlw_insitu = mass of high level waste at the RMEI location (g/m²)

hlw_mass = hlw mass at a point on the grid (value re-written each time a new point is read from the input file (kg/m²))

mass_ash_eolian = mass of ash within the wind blown location (g)

mass_ash_fluvial = mass of ash within the remobilized-by-water location (g)

mass_hlw_eolian = mass of high level waste within the wind blown location (g)

mass_hlw_fluvial = mass of high level waste within the remobilized-by-water location (g)

spacing = space between points (m)

```
***** */
```

```
bool LutFromTephra::initEruptions(char *fileName){  
    char line[400];  
    int ret=1, kount=0, erupt=0;  
    int eoloian_count=0;  
    double x, y;  
    double fluvial_xmin;  
    double fluvial_ymin;  
    double eolian_xmin;  
    double eolian_ymin;  
    double spacing;  
    double grid_spacing;  
    double area_fluvial=0.0;  
    double mass_ash_fluvial=0.0;  
    double mass_hlw_fluvial=0.0;
```

```

double area_eolian=0.0;
double mass_ash_eolian=0.0;
double mass_hlw_eolian=0.0;
double ash_institu=0.0;
double hlw_institu=0.0;
double ash_mass, hlw_mass;
double total_ash_mass=0.0;
double total_hlw_mass=0.0;

FILE *infile;
FILE *outfile;
FILE *outfile2;

cout << "*****" << endl;
cout << "* Sum the areas and masses for Remobilization *" << endl;
cout << "*****" << endl;
eolian_xmin = 533000.0;
eolian_ymin = 4030000.0;
fluvial_xmin = 546000.0;
fluvial_ymin = 4059000.0;
spacing      = 1000;
grid_spacing = 500;

infile = fopen(fileName, "r");
if(infile == NULL){
    printf("\nFile Error\n-----\n 1024_all_pars does not exist.\n");
    exit(1);
}

outfile = fopen("sum_1024_all_pars.out", "w");
if(outfile == NULL){
    printf("\nFile Error\n-----\n does not exist.\n");
    exit(1);
}
outfile2 = fopen("sum_1024_all_pars2.out", "w");
if(outfile2 == NULL){
    printf("\nFile Error\n-----\n  does not exist.\n");
    exit(1);
}
fprintf(outfile, "c_HLW_I,C_ash_I,m_HLW_f,m_ash_f,area_f,m_HLW_e,m_ash_e,area_e\n");
fprintf(outfile, "g/m2,g/m2,g,g,m2,g,g,m2 (HLW masses are based on 1MTU of HLW erupted).\n");

```

```

fprintf(outfile2, "m_HLW_f,m_ash_f,m_HLW_e,m_ash_e,m_HLW_total,m_ash_total\n");
fprintf(outfile2, "kg/kg/kg/kg/kg/kg (HLW masses are based on 1MTU of HLW erupted).\n");

fprintf(stderr, "\nEruptions analysed: \n", insitu_x,insitu_y);

IJContainerPtr eruptionPoints = IJContainerPtr(new IJContainer());
while(fgets(line, 400, infile) != NULL){ //for each eruption...
    while(ret = sscanf(line, "%lf %lf %le %le", &x, &y, &ash_mass, &hlw_mass), ret != 4){
        if (ret == EOF && errno == EINTR) continue;
        fprintf(stderr, "\nEOF reached\n");
        fprintf(stderr, "\n(%lf,%lf) ash: %lf, fuel: %lf \n", x, y, ash_mass, hlw_mass);
        //return -1;
        break;
    }
    total_hlw_mass += hlw_mass;
    total_ash_mass += ash_mass;

    kount++;

    if(kount==(numberGridPoints+1)){
        kount=0;
        erupt++;
        fprintf(stderr, "%i ", erupt);
        //convert kg/m2 to g/m2 for insitu concentrations: mult by 1000
        //convert kg/m2 to g for ash and hlw mass: mult by 1000, mult by area
        //convert #gridspaces in fluvial/eolian to actual areas: mult by grid_spacing*grid_spacing for m2

        if( (int) eruptionPoints->points.size() != (int) numberGridPoints)
            cout << "eruption " << erupt << " has only " << eruptionPoints->points.size() << endl;

        fprintf(outfile,"%6e,%6e,%6e,%6e,%6e,%6e,%6e\n", hlw_insitu*1000, ash_insitu*1000, mass_hlw_fluvial*1000*grid_spacing*grid_spacing,
mass_ash_fluvial*1000*grid_spacing*grid_spacing, area_fluvial*grid_spacing*grid_spacing, mass_hlw_eolian*1000*grid_spacing*grid_spacing,
mass_ash_eolian*1000*grid_spacing*grid_spacing, area_eolian*grid_spacing*grid_spacing);

        fprintf(outfile2,"%12e,%12e,%12e,%12e,%12e\n", mass_hlw_fluvial*grid_spacing*grid_spacing, mass_ash_fluvial*grid_spacing*grid_spacing,
mass_hlw_eolian*grid_spacing*grid_spacing, mass_ash_eolian*grid_spacing*grid_spacing, total_hlw_mass*grid_spacing*grid_spacing,
total_ash_mass*grid_spacing*grid_spacing);

        kount=1;
        area_fluvial=0.0;
        mass_ash_fluvial=0.0;
        mass_hlw_fluvial=0.0;
        area_eolian=0.0;
    }
}

```

```

mass_ash_eolian=0.0;
mass_hlw_eolian=0.0;
ash_insu=0.0;
hlw_insu=0.0;
eruptionPoints = IJContainerPtr(new IJContainer());

total_hlw_mass = 0;
total_ash_mass = 0;
}

//if (x,y) is inside the water remobilization area
if( (x>=fluvial_xmin && x<=(fluvial_xmin+(18*spacing))) && ( y>=fluvial_ymin && y<=(fluvial_ymin+(39*spacing))) ){
    if( ((fluvial_xmin+(4*spacing)<=x && x<=fluvial_xmin+( 5*spacing)) && (fluvial_ymin      <=y && y< fluvial_ymin+( 1*spacing))) ||
        ((fluvial_xmin+(4*spacing)<=x && x<=fluvial_xmin+( 6*spacing)) && (fluvial_ymin+( 1*spacing)<=y && y< fluvial_ymin+( 2*spacing))) ||
        ((fluvial_xmin+(5*spacing)<=x && x<=fluvial_xmin+( 6*spacing)) && (fluvial_ymin+( 2*spacing)< y && y< fluvial_ymin+( 4*spacing))) ||
        ((fluvial_xmin+(5*spacing)<=x && x<=fluvial_xmin+( 8*spacing)) && (fluvial_ymin+( 4*spacing)<=y && y< fluvial_ymin+( 5*spacing))) ||
        ((fluvial_xmin+(7*spacing)<=x && x<=fluvial_xmin+( 8*spacing)) && (fluvial_ymin+( 5*spacing)< y && y< fluvial_ymin+(12*spacing))) ||
        ((fluvial_xmin+(3*spacing)<=x && x<=fluvial_xmin+( 8*spacing)) && (fluvial_ymin+(12*spacing)<=y && y< fluvial_ymin+(15*spacing))) ||
        ((fluvial_xmin+(1*spacing)<=x && x<=fluvial_xmin+( 9*spacing)) && (fluvial_ymin+(15*spacing)<=y && y< fluvial_ymin+(17*spacing))) ||
        ((fluvial_xmin+(1*spacing)<=x && x<=fluvial_xmin+(11*spacing)) && (fluvial_ymin+(17*spacing)<=y && y< fluvial_ymin+(20*spacing))) ||
        ((fluvial_xmin      <=x && x<=fluvial_xmin+(13*spacing)) && (fluvial_ymin+(20*spacing)<=y && y< fluvial_ymin+(23*spacing))) ||
        ((fluvial_xmin      <=x && x<=fluvial_xmin+(15*spacing)) && (fluvial_ymin+(23*spacing)<=y && y< fluvial_ymin+(29*spacing))) ||
        ((fluvial_xmin+(7*spacing)<=x && x<=fluvial_xmin+(15*spacing)) && (fluvial_ymin+(29*spacing)< y && y< fluvial_ymin+(31*spacing))) ||
        ((fluvial_xmin+(7*spacing)<=x && x<=fluvial_xmin+(18*spacing)) && (fluvial_ymin+(31*spacing)<=y && y< fluvial_ymin+(34*spacing))) ||
        ((fluvial_xmin+(7*spacing)<=x && x<=fluvial_xmin+(15*spacing)) && (fluvial_ymin+(34*spacing)< y && y< fluvial_ymin+(37*spacing))) ||
        ((fluvial_xmin+(7*spacing)<=x && x<=fluvial_xmin+(12*spacing)) && (fluvial_ymin+(37*spacing)< y && y< fluvial_ymin+(39*spacing)))){

if(ash_mass > 0.00){ // Cutoff Number from B. Hill
    mass_ash_fluvial += ash_mass;
    mass_hlw_fluvial += hlw_mass;
    area_fluvial += 1;
}
}

//otherwise (x,y) is inside the wind-blown remobilization area
else if( (x>=eolian_xmin && x<=(eolian_xmin+(37*spacing))) &&
          (y>=eolian_ymin && y<=(eolian_ymin+(56*spacing))) ){

    eolian_count++;

if(ash_mass > 0.00){ // Cutoff Number from B. Hill
    mass_ash_eolian += ash_mass;
    mass_hlw_eolian += hlw_mass;
    area_eolian += 1;
}
}

//otherwise (x,y) is inside the wind-blown remobilization area

```

```

else if( (x>=eolian_xmin && x<=(eolian_xmin+(37*spacing))) &&
        (y>=eolian_ymin && y<=(eolian_ymin+(56*spacing))) ){
    eoloian_count++;
    if(ash_mass > 0.12){
        mass_ash_eolian += ash_mass;
        mass_hlw_eolian += hlw_mass;
        area_eolian += 1;
    }
}
if( ( (int) x== (int) insitu_x) && ( (int) y== (int) insitu_y ) ){
    if(ash_mass > 0.12){
        ash_institu = ash_mass;
        hlw_institu = hlw_mass;
        fprintf(stderr, "ash_institu = %.6le ----- hlw_institu = %.6le\n", ash_institu, hlw_institu);
    }
}
//should use grid_ymin and grid_xmin to figure these out
int i = 0;
int j = 0;
eruptionPoints->points.push_back(IJPairPtr(new IJPair(i,j,x,y,ash_mass, hlw_mass)));
}
printf(stderr, "%i\n\n", erupt+1);

//convert kg/m2 to g for ash and hlw mass: mult by 1000, mult by area
//convert #gridspaces in fluvial/eolian to actual areas: mult by grid_spacing*grid_spacing for m2
fprintf(outfile,"%le,%le,%le,%le,%le,%le,%le,%le\n", hlw_institu*1000, ash_institu*1000, mass_hlw_fluvial*1000*grid_spacing*grid_spacing,
mass_ash_fluvial*1000*grid_spacing*grid_spacing, area_fluvial*grid_spacing*grid_spacing, mass_hlw_eolian*1000*grid_spacing*grid_spacing,
mass_ash_eolian*1000*grid_spacing*grid_spacing, area_eolian*grid_spacing*grid_spacing);

fprintf(outfile,"%le,%le,%le,%le,%le,%le\n", mass_hlw_fluvial*grid_spacing*grid_spacing, mass_ash_fluvial*grid_spacing*grid_spacing,
mass_hlw_eolian*grid_spacing*grid_spacing, mass_ash_eolian*grid_spacing*grid_spacing, total_hlw_mass*grid_spacing*grid_spacing,
total_ash_mass*grid_spacing*grid_spacing);

printf("\noutput file sum_1024_all_pars.out created\n\n");

return (true);
}

void LutFromTephra::setInstituLocation(double x, double y){

```

```

//set the insitu location

    insitu_x = x;
    insitu_y = y;
    cout << "RMEI location = " << insitu_x << ", " << insitu_y << endl;
}

bool LutFromTephra::readInputGrid(char *file)
{
    //read the input grid file
    // store the location of the grid points

    ifstream inputStream;
    inputStream.open(file,ios::in);

    if(inputStream.is_open()==false){
        cout << "Unable to open "<< file << " for reading" << endl;
        exit(1);
    }

    grid_xmax = -9e99;
    grid_ymax = -9e99;
    grid_xmin = 9e99;
    grid_ymin = 9e99;

    int lineNumber =0;

    string line;
    while( getline(inputStream, line) )
    {
        lineNumber++;
        istringstream lineStream(line, istringstream::in);

        double x, y;

        //file has y then x format
        if( !(lineStream >> y) )
            cout << "problem with y" << lineNumber << endl;
        if( !(lineStream >> x) )
            cout << "problem with x on " << lineNumber;

        grid->points.push_back(IJPairPtr(new IJPair(0,0,x,y,0.0, 0.0)));
    }
}

```

```
    if(x>grid_xmax)
        grid_xmax = x;
    if(y>grid_ymax)
        grid_ymax = y;
    if(y<grid_ymin)
        grid_ymin = y;
    if(x<grid_xmin)
        grid_xmin = x;
}

numberGridPoints = grid->points.size();

cout << "Read grid " << endl;
cout << "    " << grid->points.size() << " number of points" << endl;
cout << "    x: " << grid_xmin << " to " << grid_xmax << endl;
cout << "    y: " << grid_ymin << " to " << grid_ymax << endl;
return true;
}
```

c_HLW_I	C_ash_I	m_HLW_f	m_ash_f	area_f	m_HLW_e	m_ash_e	area_e	m2 (HLW masses are based on 1MTU of HLW erupted).
g/m2	g/m2	g	g	m2	g	g	g	
5.76E-12	6.91E-06	1.02E+06	1.22E+12	1.17E+08	7.81E+03	9.32E+09	3.13E+07	
5.28E-05	3.41E+03	1.65E+05	1.07E+13	3.85E+07	8.02E+05	5.20E+13	9.21E+08	
5.20E-10	4.58E-02	1.02E+06	8.89E+13	1.20E+08	2.30E+04	2.01E+12	1.40E+08	
4.59E-08	1.24E+00	1.03E+06	2.77E+13	1.09E+08	8.38E+03	2.25E+11	9.03E+07	
3.52E-07	1.77E+01	1.02E+06	5.13E+13	1.84E+08	2.04E+04	1.03E+12	3.77E+08	
3.13E-10	1.11E-02	8.82E+05	3.12E+13	2.25E+07	1.57E+05	5.53E+12	1.11E+08	
6.39E-16	1.60E-08	1.04E+06	2.58E+13	6.35E+07	2.19E+02	5.43E+09	8.75E+06	
1.34E-13	5.06E-06	2.47E+04	9.33E+11	6.75E+06	1.00E+06	3.77E+13	1.70E+08	
4.47E-16	7.90E-10	1.04E+06	1.82E+12	3.80E+07	9.31E+02	1.63E+09	4.00E+06	
2.50E-04	7.51E+03	1.47E+05	4.43E+12	6.03E+07	8.05E+05	2.42E+13	9.36E+08	
8.85E-07	2.40E+01	9.17E+05	2.48E+13	8.00E+07	1.21E+05	3.27E+12	2.27E+08	
2.42E-10	7.30E-04	1.00E+06	3.02E+12	4.55E+07	3.31E+04	9.94E+10	7.43E+07	
1.41E-06	1.39E+01	1.02E+06	1.01E+13	1.79E+08	1.46E+04	1.44E+11	1.26E+08	
1.52E-06	3.44E+01	3.15E+05	7.16E+12	9.28E+07	6.99E+05	1.58E+13	5.64E+08	
1.14E-05	9.45E+02	3.31E+05	2.75E+13	7.25E+07	6.99E+05	5.80E+13	6.00E+08	
4.42E-10	6.48E-03	9.60E+05	1.40E+13	2.23E+08	6.83E+04	9.98E+11	9.65E+07	
3.88E-08	3.84E-01	5.94E+05	5.87E+12	8.63E+07	3.75E+05	3.71E+12	3.18E+08	
8.23E-11	3.91E-03	8.71E+05	4.13E+13	2.01E+08	1.03E+05	4.90E+12	2.86E+08	
9.38E-10	2.90E-03	9.85E+05	3.04E+12	5.68E+07	5.13E+04	1.58E+11	1.25E+08	
2.32E-06	5.30E+01	9.80E+05	2.24E+13	2.98E+08	5.21E+04	1.19E+12	4.54E+08	
3.84E-11	6.09E-04	8.30E+05	1.31E+13	1.56E+08	1.35E+05	2.13E+12	5.35E+07	
7.60E-06	1.24E+02	5.79E+05	9.46E+12	1.49E+08	4.57E+05	7.46E+12	3.28E+08	
7.76E-32	6.96E-24	9.39E+05	8.37E+13	2.03E+08	4.39E+03	3.91E+11	2.28E+07	
1.07E-05	1.97E+02	8.00E+05	1.47E+13	9.83E+07	2.36E+05	4.35E+12	6.82E+08	
3.76E-09	4.94E-02	1.04E+06	1.36E+13	8.50E+07	2.44E+03	3.19E+10	5.50E+07	
4.46E-12	4.95E-05	4.32E+05	4.80E+12	5.00E+07	5.60E+05	6.21E+12	4.53E+08	
2.73E-07	4.22E-01	9.74E+05	1.50E+12	6.68E+07	6.11E+04	9.41E+10	4.90E+07	
7.55E-14	5.33E-06	1.03E+06	7.22E+13	1.90E+08	8.19E+03	5.75E+11	6.15E+07	
8.69E-06	8.43E+02	6.64E+04	6.45E+12	2.50E+07	8.83E+05	8.58E+13	7.94E+08	
4.98E-06	6.12E+01	7.62E+05	9.37E+12	6.20E+07	2.76E+05	3.40E+12	2.57E+08	
1.17E-12	4.45E-06	8.16E+05	3.09E+12	1.79E+08	1.60E+05	6.06E+11	1.76E+08	
9.80E-15	3.98E-07	1.00E+06	4.05E+13	1.88E+08	2.66E+04	1.07E+12	1.84E+08	
3.94E-06	1.05E+01	6.66E+05	1.77E+12	5.95E+07	3.48E+05	9.26E+11	2.85E+08	
5.29E-14	7.23E-07	1.01E+06	1.38E+13	1.09E+08	2.37E+04	3.22E+11	1.84E+08	
3.97E-13	3.04E-06	2.95E+04	2.26E+11	9.25E+06	9.60E+05	7.36E+12	2.81E+08	
1.53E-09	1.14E-01	1.04E+06	7.70E+13	1.01E+08	1.47E+03	1.09E+11	1.07E+08	
9.78E-10	3.68E-03	1.03E+06	3.84E+12	2.19E+08	3.70E+03	1.38E+10	2.50E+07	
2.17E-09	5.03E-03	6.61E+05	1.52E+12	1.27E+08	3.21E+05	7.41E+11	1.26E+08	
6.10E-27	2.90E-20	7.49E+05	3.54E+12	1.46E+08	5.20E+04	2.46E+11	2.75E+07	
6.98E-08	2.59E-01	2.92E+05	1.08E+12	2.10E+07	7.19E+05	2.67E+12	2.89E+08	
5.70E-08	3.36E-01	6.35E+05	3.73E+12	3.45E+07	3.97E+05	2.33E+12	1.89E+08	
3.43E-10	8.56E-03	9.39E+05	2.34E+13	2.59E+08	9.18E+04	2.28E+12	2.76E+08	
7.84E-05	1.29E+03	7.37E+05	1.22E+13	6.50E+07	3.00E+05	4.95E+12	6.42E+08	
8.36E-07	2.76E+00	5.61E+05	1.85E+12	1.69E+08	4.00E+05	1.32E+12	2.21E+08	
5.42E-19	2.69E-12	5.95E+05	2.93E+12	2.26E+08	2.62E+05	1.29E+12	1.81E+08	
5.32E-11	3.48E-04	1.04E+06	6.74E+12	1.00E+08	1.50E+03	9.74E+09	1.93E+07	
3.37E-06	2.64E+02	9.54E+05	7.47E+13	2.92E+08	8.44E+04	6.61E+12	7.18E+08	
7.14E-06	1.12E+01	7.97E+05	1.25E+12	8.30E+07	2.28E+05	3.59E+11	2.33E+08	
1.37E-06	1.46E+01	1.00E+06	1.07E+13	2.17E+08	3.34E+04	3.56E+11	2.84E+08	
2.45E-11	3.83E-05	7.23E+05	1.12E+12	6.43E+07	2.73E+05	4.23E+11	4.30E+07	
1.87E-18	2.40E-11	8.66E+05	1.10E+13	1.91E+08	1.02E+05	1.30E+12	7.45E+07	
3.87E-11	4.20E-04	9.98E+05	1.08E+13	2.42E+08	7.41E+02	7.99E+09	1.80E+07	
1.46E-16	6.09E-09	1.04E+06	4.31E+13	1.24E+08	3.21E+02	1.33E+10	3.23E+07	
4.73E-13	2.03E-05	1.03E+06	4.40E+13	1.65E+08	6.54E+03	2.79E+11	6.05E+07	
2.10E-18	9.88E-11	2.79E+05	1.31E+13	4.10E+07	4.10E+05	1.92E+13	1.23E+08	
5.92E-06	9.03E+01	7.74E+05	1.18E+13	2.18E+08	2.63E+05	4.02E+12	4.87E+08	

1.07E-27	1.41E-21	9.97E+05	1.30E+12	5.58E+07	0.00E+00	0.00E+00	0.00E+00
1.59E-19	9.79E-12	1.00E+06	6.14E+13	2.08E+08	6.42E+02	3.93E+10	2.18E+07
4.22E-05	2.35E+02	2.94E+05	1.64E+12	3.48E+07	7.41E+05	4.13E+12	4.71E+08
2.78E-09	1.82E-01	9.56E+05	6.24E+13	1.07E+08	8.40E+04	5.48E+12	1.65E+08
2.65E-05	3.72E+02	5.07E+05	7.14E+12	4.90E+07	5.21E+05	7.33E+12	3.54E+08
1.26E-23	3.26E-17	9.95E+05	2.55E+12	5.43E+07	2.73E+04	6.98E+10	2.58E+07
6.30E-05	1.05E+02	8.27E+05	1.37E+12	1.81E+08	1.90E+05	3.16E+11	3.39E+08
3.63E-59	2.79E-51	9.46E+05	7.23E+13	1.76E+08	1.29E+00	9.83E+07	2.50E+05
3.60E-32	3.39E-24	9.24E+05	8.64E+13	1.69E+08	0.00E+00	0.00E+00	0.00E+00
3.26E-13	7.47E-06	9.22E+05	2.10E+13	1.07E+08	7.93E+03	1.80E+11	3.90E+07
6.56E-16	2.78E-08	8.88E+05	3.75E+13	9.65E+07	1.15E+04	4.85E+11	1.78E+07
2.89E-08	7.58E-01	5.56E+05	1.46E+13	1.15E+08	4.27E+05	1.12E+13	7.92E+08
1.40E-26	5.86E-20	1.01E+06	4.22E+12	1.73E+08	0.00E+00	0.00E+00	0.00E+00
2.82E-23	4.00E-17	6.84E+05	9.63E+11	2.68E+07	2.31E+05	3.25E+11	3.43E+07
1.01E-15	3.52E-08	1.13E+05	3.92E+12	1.58E+07	9.00E+05	3.13E+13	2.47E+08
4.89E-44	9.90E-37	5.35E+05	1.08E+13	8.30E+07	2.18E+05	4.39E+12	1.09E+08
5.22E-08	1.95E-01	1.03E+06	3.83E+12	7.80E+07	8.23E+03	3.06E+10	2.73E+07
3.61E-03	3.43E+05	2.55E+05	2.42E+13	1.22E+08	7.09E+05	6.75E+13	1.05E+09
2.15E-16	6.88E-09	8.79E+05	2.80E+13	1.26E+08	1.54E+05	4.90E+12	2.95E+08
2.86E-23	1.04E-15	7.68E+04	2.77E+12	2.90E+07	6.08E+05	2.19E+13	1.12E+08
6.41E-18	5.06E-10	9.99E+05	7.84E+13	2.00E+08	1.80E+02	1.41E+10	1.65E+07
2.59E-08	4.68E-02	3.49E+04	6.32E+10	2.03E+07	8.74E+05	1.58E+12	2.15E+08
3.68E-20	9.50E-14	9.11E+05	2.34E+12	1.96E+08	4.04E+03	1.04E+10	1.15E+07
5.20E-05	6.70E+01	7.26E+04	9.36E+10	3.38E+07	7.10E+05	9.15E+11	3.09E+08
1.18E-06	9.74E+00	7.47E+05	6.17E+12	5.70E+07	2.91E+05	2.40E+12	1.93E+08
2.75E-07	1.20E+01	4.34E+05	1.89E+13	2.43E+08	5.73E+05	2.49E+13	5.14E+08
1.42E-28	3.78E-21	1.03E+06	2.73E+13	7.25E+07	9.38E+01	2.48E+09	3.00E+06
6.36E-09	7.93E-03	7.31E+05	9.13E+11	8.50E+07	2.84E+05	3.54E+11	3.07E+08
5.15E-06	1.20E+01	5.93E+05	1.39E+12	4.60E+07	4.39E+05	1.03E+12	2.25E+08
1.19E-05	4.22E+02	9.74E+05	3.45E+13	2.62E+08	5.11E+04	1.81E+12	4.13E+08
8.74E-11	2.13E-03	1.01E+06	2.46E+13	1.03E+08	2.52E+04	6.12E+11	8.25E+07
8.24E-21	3.48E-13	2.43E+04	1.02E+12	5.75E+06	9.74E+05	4.10E+13	1.62E+08
6.25E-05	6.97E+03	3.75E+05	4.19E+13	2.27E+08	6.39E+05	7.13E+13	7.90E+08
3.63E-29	6.17E-23	1.02E+06	1.72E+12	4.08E+07	9.08E+03	1.53E+10	8.50E+06
3.17E-18	1.65E-11	8.95E+05	4.61E+12	1.54E+08	0.00E+00	0.00E+00	0.00E+00
3.97E-09	4.59E-03	2.09E+05	2.42E+11	4.80E+07	8.08E+05	9.34E+11	2.85E+08
1.02E-05	9.50E+02	3.70E+05	3.45E+13	8.45E+07	6.06E+05	5.65E+13	5.91E+08
6.22E-08	1.09E+00	9.62E+05	1.69E+13	2.62E+08	4.54E+04	7.97E+11	1.31E+08
5.40E-19	3.51E-11	1.04E+06	6.71E+13	1.19E+08	3.64E+01	2.35E+09	7.50E+06
7.42E-09	4.96E-02	7.12E+05	4.74E+12	6.90E+07	3.24E+05	2.16E+12	1.77E+08
9.00E-22	9.66E-14	9.96E+05	1.06E+14	6.00E+07	4.33E+04	4.62E+12	2.01E+08
3.58E-10	1.26E-03	1.00E+06	3.51E+12	6.25E+07	3.40E+04	1.19E+11	1.14E+08
3.79E-07	3.59E+01	1.00E+06	9.48E+13	1.62E+08	3.51E+04	3.31E+12	4.45E+08
1.16E-08	5.04E-02	1.04E+06	4.49E+12	5.68E+07	3.01E+03	1.30E+10	1.40E+07
9.47E-07	1.13E+00	1.02E+06	1.22E+12	5.63E+07	1.45E+04	1.73E+10	4.33E+07
5.70E-06	3.69E+02	9.54E+05	6.18E+13	2.43E+08	8.46E+04	5.47E+12	5.93E+08
3.69E-18	3.25E-10	9.41E+05	8.23E+13	4.95E+07	9.68E+04	8.46E+12	9.93E+07
3.94E-10	1.07E-02	7.07E+05	1.90E+13	4.68E+07	3.30E+05	8.86E+12	2.00E+08
3.61E-08	1.82E+00	7.87E+05	3.97E+13	1.11E+08	2.51E+05	1.26E+13	2.48E+08
4.86E-08	1.72E+00	8.32E+05	2.94E+13	4.03E+07	2.07E+05	7.32E+12	1.48E+08
2.23E-06	5.55E+01	9.56E+05	2.37E+13	2.90E+07	8.45E+04	2.10E+12	1.41E+08
1.67E-07	6.29E+00	1.01E+06	3.79E+13	1.67E+08	3.28E+04	1.24E+12	3.45E+08
2.57E-12	4.54E-06	9.35E+05	1.64E+12	2.33E+07	1.03E+05	1.80E+11	2.65E+07
1.61E-05	4.85E+02	3.33E+05	1.00E+13	1.19E+08	6.98E+05	2.10E+13	8.58E+08
3.18E-16	8.64E-09	1.40E+05	3.79E+12	1.53E+07	8.84E+05	2.39E+13	2.35E+08
4.83E-14	1.46E-07	1.04E+06	3.12E+12	1.30E+08	2.31E+01	6.94E+07	5.00E+05
2.57E-07	2.54E+00	1.00E+06	9.88E+12	1.51E+08	2.91E+04	2.87E+11	2.14E+08
6.11E-21	1.39E-13	8.62E+05	1.95E+13	2.09E+08	8.88E+03	2.01E+11	3.40E+07
6.46E-11	5.38E-03	7.67E+05	6.37E+13	2.55E+08	2.38E+05	1.98E+13	3.93E+08
2.37E-10	3.48E-03	5.66E+05	8.27E+12	1.86E+08	3.72E+05	5.43E+12	2.33E+08
4.87E-06	4.81E+01	5.91E+05	5.84E+12	1.67E+08	4.44E+05	4.40E+12	4.31E+08

1.29E-13	6.13E-06	6.57E+05	3.12E+13	7.30E+07	3.00E+05	1.43E+13	2.26E+08
1.18E-12	3.67E-06	6.14E+05	1.89E+12	1.38E+07	4.22E+05	1.30E+12	9.10E+07
1.80E-06	4.11E+01	7.78E+05	1.78E+13	2.04E+08	2.60E+05	5.95E+12	3.53E+08
8.20E-14	1.30E-06	1.01E+06	1.60E+13	2.25E+08	3.89E+03	6.12E+10	4.35E+07
1.25E-06	2.04E+01	3.32E+05	5.42E+12	6.48E+07	6.63E+05	1.08E+13	2.86E+08
1.53E-11	1.37E-03	1.02E+06	9.12E+13	2.35E+08	2.54E+03	2.26E+11	5.65E+07
6.42E-17	1.19E-09	7.76E+05	1.43E+13	1.41E+08	2.34E+04	4.30E+11	2.18E+07
1.10E-13	1.44E-06	9.65E+05	1.26E+13	5.05E+07	7.33E+04	9.57E+11	2.13E+08
2.80E-13	3.13E-06	7.73E+05	8.58E+12	2.02E+08	1.42E+01	1.57E+08	1.00E+06
2.91E-14	4.51E-08	9.45E+05	1.46E+12	8.98E+07	1.68E+04	2.59E+10	1.25E+07
1.82E-06	1.27E+02	4.21E+05	2.95E+13	1.50E+07	6.18E+05	4.34E+13	4.41E+08
3.18E-08	3.09E+00	3.91E+05	3.80E+13	8.85E+07	5.64E+05	5.48E+13	7.53E+08
1.29E-12	1.59E-05	1.01E+06	1.25E+13	9.83E+07	2.68E+04	3.29E+11	1.23E+08
1.70E-05	6.42E+01	9.15E+05	3.46E+12	8.03E+07	1.19E+05	4.51E+11	2.80E+08
9.58E-17	3.89E-09	1.03E+06	4.17E+13	2.17E+08	3.12E+01	1.26E+09	7.00E+06
1.68E-21	4.49E-15	8.62E+05	2.29E+12	1.34E+08	5.18E+04	1.38E+11	3.13E+07
1.46E-15	1.98E-08	4.44E+05	6.04E+12	7.43E+07	5.55E+05	7.55E+12	2.09E+08
1.14E-10	8.73E-04	6.51E+05	4.99E+12	5.43E+07	3.39E+05	2.60E+12	2.06E+08
7.56E-17	5.60E-09	1.03E+06	7.63E+13	1.97E+08	1.06E+04	7.89E+11	2.35E+08
2.23E-08	8.36E-02	8.51E+05	3.18E+12	7.30E+07	1.81E+05	6.76E+11	2.18E+08
4.39E-06	1.01E+01	4.55E+05	1.05E+12	2.78E+07	5.80E+05	1.34E+12	1.78E+08
2.41E-08	1.14E-01	1.02E+06	4.82E+12	1.80E+08	1.48E+04	6.98E+10	8.85E+07
1.13E-08	4.19E-02	1.03E+06	3.80E+12	2.06E+08	1.01E+04	3.75E+10	6.95E+07
1.64E-06	9.62E+00	7.59E+05	4.45E+12	3.95E+07	2.78E+05	1.63E+12	2.16E+08
8.41E-05	2.09E+03	6.29E+05	1.56E+13	1.60E+08	3.69E+05	9.17E+12	1.07E+09
5.18E-05	8.54E+02	9.08E+05	1.50E+13	1.51E+08	1.29E+05	2.13E+12	5.70E+08
2.46E-25	8.16E-19	9.12E+05	3.01E+12	1.97E+08	2.83E+04	9.31E+10	4.70E+07
5.95E-06	2.93E+01	8.51E+05	4.19E+12	9.68E+07	1.85E+05	9.12E+11	2.08E+08
1.38E-12	9.02E-06	9.95E+05	6.47E+12	1.04E+08	4.27E+04	2.78E+11	8.68E+07
2.22E-10	1.75E-02	9.72E+05	7.62E+13	2.24E+08	5.29E+04	4.14E+12	1.31E+08
1.56E-10	2.47E-04	1.02E+06	1.61E+12	1.54E+08	3.22E+03	5.05E+09	2.08E+07
1.06E-08	1.14E-01	3.08E+05	3.29E+12	6.38E+07	6.48E+05	6.92E+12	2.67E+08
3.43E-06	5.33E+00	9.54E+05	1.48E+12	1.06E+08	5.13E+04	7.96E+10	6.73E+07
2.13E-14	2.72E-07	5.04E+04	6.41E+11	8.75E+06	9.30E+05	1.18E+13	1.76E+08
3.41E-06	3.68E+01	7.03E+05	7.59E+12	1.09E+08	3.32E+05	3.58E+12	4.84E+08
3.41E-06	1.42E+02	1.01E+06	4.18E+13	1.29E+08	3.12E+04	1.29E+12	1.33E+08
6.71E-09	2.88E-01	1.01E+06	4.32E+13	8.53E+07	2.77E+04	1.18E+12	2.49E+08
5.26E-06	2.46E+02	8.33E+05	3.90E+13	1.76E+08	2.03E+05	9.49E+12	6.82E+08
2.92E-04	4.46E+03	5.87E+05	8.95E+12	2.31E+08	4.32E+05	6.59E+12	7.40E+08
1.63E-11	2.14E-05	1.02E+06	1.33E+12	3.03E+07	1.98E+04	2.58E+10	1.80E+07
3.35E-05	2.05E+03	7.36E+05	4.51E+13	8.70E+07	2.97E+05	1.82E+13	8.19E+08
2.07E-07	1.16E+00	8.89E+05	4.96E+12	1.83E+08	1.40E+05	7.80E+11	1.89E+08
3.83E-10	2.51E-02	3.60E+05	2.35E+13	3.40E+07	6.66E+05	4.34E+13	2.77E+08
5.22E-09	7.38E-02	9.51E+05	1.34E+13	7.03E+07	8.68E+04	1.22E+12	1.09E+08
5.81E-10	1.50E-03	1.02E+06	2.61E+12	4.00E+07	1.93E+04	4.95E+10	2.43E+07
1.17E-32	1.96E-26	7.82E+05	1.30E+12	1.40E+08	0.00E+00	0.00E+00	0.00E+00
1.38E-13	1.06E-05	1.03E+06	7.90E+13	2.11E+08	4.60E+03	3.51E+11	5.13E+07
7.92E-07	7.40E+01	3.25E+05	3.04E+13	1.05E+08	5.82E+05	5.45E+13	9.08E+08
1.41E-14	3.23E-07	9.00E+05	2.05E+13	2.03E+08	1.05E+05	2.38E+12	6.73E+07
1.35E-15	5.73E-08	7.82E+05	3.30E+13	2.13E+08	1.63E+05	6.88E+12	1.29E+08
1.28E-06	3.36E+01	1.00E+06	2.62E+13	1.50E+08	3.90E+04	1.02E+12	3.01E+08
4.94E-08	2.07E-01	8.84E+05	3.68E+12	5.03E+07	1.54E+05	6.39E+11	8.65E+07
6.04E-24	8.55E-18	9.98E+05	1.40E+12	9.80E+07	0.00E+00	0.00E+00	0.00E+00
2.87E-08	1.00E+00	1.03E+06	3.58E+13	1.35E+08	7.17E+03	2.49E+11	1.21E+08
1.95E-09	3.95E-02	1.03E+06	2.07E+13	2.41E+08	8.75E+03	1.76E+11	1.29E+08
1.01E-16	3.79E-10	6.84E+05	2.54E+12	5.00E+07	3.47E+05	1.29E+12	1.00E+08
9.14E-10	8.73E-02	9.76E+05	9.29E+13	2.86E+08	4.58E+04	4.36E+12	2.43E+08
3.78E-08	1.21E+00	6.35E+05	2.02E+13	1.53E+08	4.05E+05	1.29E+13	2.02E+08
3.21E-13	1.16E-05	1.38E+05	4.96E+12	4.43E+07	7.54E+05	2.71E+13	1.93E+08
1.21E-04	9.50E+03	7.76E+05	6.09E+13	9.33E+07	2.63E+05	2.06E+13	1.03E+09
2.65E-32	4.83E-26	7.28E+05	1.32E+12	1.32E+08	6.03E+04	1.09E+11	2.08E+07

3.73E-09	9.59E-03	8.96E+05	2.30E+12	1.90E+08	1.25E+05	3.21E+11	1.43E+08
2.97E-07	3.83E-01	9.24E+05	1.19E+12	2.40E+08	8.32E+04	1.07E+11	1.56E+08
7.62E-39	6.33E-32	2.13E+03	1.77E+10	3.00E+06	8.60E+05	7.10E+12	1.00E+08
5.00E-08	2.18E+00	5.53E+05	2.41E+13	1.25E+08	4.78E+05	2.08E+13	2.90E+08
3.48E-25	9.29E-18	1.04E+06	2.75E+13	1.47E+08	9.49E+02	2.52E+10	5.00E+07
1.84E-13	2.29E-07	8.85E+05	1.10E+12	1.43E+08	1.19E+05	1.48E+11	1.38E+08
5.73E-09	1.35E-02	5.97E+05	1.40E+12	4.15E+07	4.29E+05	1.00E+12	1.42E+08
4.69E-15	1.67E-07	7.54E+05	2.67E+13	8.68E+07	8.42E+04	2.99E+12	2.70E+07
5.25E-12	1.28E-04	1.03E+06	2.50E+13	2.30E+08	7.95E+03	1.93E+11	1.43E+08
2.69E-09	1.14E-01	1.04E+06	4.37E+13	1.61E+08	1.27E+03	5.34E+10	7.65E+07
2.01E-11	2.26E-03	1.58E+05	1.76E+13	9.75E+07	8.07E+05	9.00E+13	3.60E+08
2.26E-26	3.83E-20	1.02E+06	1.71E+12	5.83E+07	1.82E+04	3.06E+10	1.35E+07
6.90E-05	3.55E+02	2.14E+05	1.10E+12	3.00E+07	8.19E+05	4.22E+12	4.67E+08
6.98E-34	8.13E-28	9.77E+05	1.13E+12	1.49E+08	1.02E+03	1.18E+09	2.25E+06
3.10E-04	2.89E+04	7.30E+05	6.81E+13	1.10E+08	3.09E+05	2.88E+13	1.31E+09
1.35E-27	2.39E-20	6.86E+05	1.20E+13	1.14E+08	0.00E+00	0.00E+00	0.00E+00
1.06E-12	6.89E-05	9.04E+05	5.83E+13	1.04E+08	1.34E+05	8.67E+12	1.08E+08
2.78E-12	1.86E-05	1.01E+06	6.72E+12	2.19E+08	7.62E+03	5.06E+10	4.38E+07
2.60E-22	2.79E-14	1.04E+06	1.11E+14	1.77E+08	2.46E+02	2.62E+10	2.53E+07
1.94E-33	6.81E-27	1.01E+06	3.55E+12	1.22E+08	0.00E+00	0.00E+00	0.00E+00
1.07E-10	1.02E-02	1.01E+06	9.54E+13	2.79E+08	9.86E+02	9.31E+10	1.04E+08
3.51E-24	1.53E-17	1.04E+06	4.50E+12	6.25E+07	0.00E+00	0.00E+00	0.00E+00
2.32E-12	2.79E-06	1.02E+06	1.22E+12	7.48E+07	9.45E+03	1.13E+10	2.95E+07
9.24E-05	5.98E+03	8.74E+05	5.66E+13	1.97E+08	1.63E+05	1.06E+13	7.95E+08
2.33E-26	2.05E-18	1.03E+06	9.02E+13	1.75E+08	7.01E+02	6.12E+10	1.08E+07
8.90E-07	2.40E+01	1.01E+06	2.72E+13	1.07E+08	2.77E+04	7.45E+11	2.76E+08
6.68E-08	3.37E+00	4.73E+05	2.38E+13	9.98E+07	5.62E+05	2.83E+13	3.69E+08
1.32E-09	4.71E-02	1.04E+06	3.67E+13	9.48E+07	2.49E+02	8.80E+09	2.60E+07
1.21E-13	3.02E-06	1.03E+06	2.57E+13	1.02E+08	5.19E+03	1.29E+11	7.73E+07
1.33E-10	5.03E-03	1.04E+06	3.91E+13	2.63E+08	1.72E+03	6.48E+10	5.03E+07
2.36E-08	4.16E-02	1.02E+06	1.79E+12	4.65E+07	1.77E+04	3.10E+10	1.95E+07
2.05E-07	6.18E+00	4.47E+05	1.35E+13	8.15E+07	5.00E+05	1.51E+13	5.05E+08
5.96E-08	1.61E+00	4.23E+05	1.14E+13	5.95E+07	5.91E+05	1.60E+13	3.60E+08
7.17E-09	2.17E-02	1.04E+06	3.12E+12	1.10E+08	3.69E+02	1.11E+09	7.00E+06
2.49E-09	2.47E-02	7.01E+05	6.92E+12	9.18E+07	3.37E+05	3.33E+12	1.85E+08
7.04E-06	1.60E+02	2.39E+05	5.41E+12	7.45E+07	7.38E+05	1.67E+13	7.96E+08
9.69E-06	8.04E+02	9.76E+05	8.11E+13	2.15E+08	6.30E+04	5.23E+12	5.97E+08
8.59E-09	1.26E-01	9.44E+05	1.38E+13	2.46E+08	8.72E+04	1.27E+12	1.48E+08
1.59E-08	1.58E-01	6.92E+05	6.85E+12	2.27E+08	3.26E+05	3.22E+12	1.77E+08
6.71E-46	3.21E-38	7.58E+05	3.60E+13	1.27E+08	0.00E+00	0.00E+00	0.00E+00
1.06E-15	3.30E-09	1.04E+06	3.20E+12	8.58E+07	1.94E+02	5.99E+08	3.50E+06
3.06E-16	7.04E-09	9.51E+05	2.17E+13	2.20E+08	6.16E+03	1.41E+11	6.60E+07
2.92E-23	4.64E-16	9.48E+05	1.49E+13	1.64E+08	0.00E+00	0.00E+00	0.00E+00
1.01E-14	1.66E-07	1.03E+06	1.68E+13	2.13E+08	1.97E+02	3.21E+09	9.50E+06
1.89E-07	1.69E+01	7.76E+05	6.91E+13	1.41E+08	2.59E+05	2.30E+13	3.71E+08
5.79E-15	1.07E-07	9.28E+05	1.71E+13	9.25E+07	1.65E+04	3.04E+11	2.58E+07
3.90E-09	5.13E-02	1.03E+06	1.35E+13	8.73E+07	4.88E+03	6.37E+10	3.05E+07
7.05E-05	7.82E+02	6.42E+05	7.12E+12	8.28E+07	3.93E+05	4.37E+12	7.93E+08
7.28E-10	1.12E-03	3.61E+05	5.57E+11	4.00E+07	5.76E+05	8.88E+11	1.50E+08
5.12E-17	3.62E-09	1.03E+06	7.20E+13	1.48E+08	1.28E+04	8.98E+11	1.36E+08
5.80E-07	5.63E+01	1.01E+06	9.80E+13	2.70E+08	2.93E+04	2.84E+12	5.27E+08
5.28E-14	6.54E-07	1.03E+06	1.27E+13	1.23E+08	4.58E+03	5.63E+10	1.95E+07
8.80E-05	3.33E+02	8.13E+05	3.07E+12	7.95E+07	2.21E+05	8.36E+11	2.82E+08
3.40E-20	1.38E-12	1.03E+06	4.17E+13	2.10E+08	6.28E+01	2.53E+09	5.25E+06
4.96E-10	1.32E-03	1.00E+06	2.67E+12	1.81E+08	2.06E+04	5.48E+10	9.18E+07
1.91E-06	2.61E+01	1.02E+06	1.38E+13	8.58E+07	2.37E+04	3.22E+11	1.65E+08
1.10E-04	8.45E+02	8.56E+05	6.56E+12	1.05E+08	1.80E+05	1.38E+12	4.59E+08
9.75E-39	7.28E-31	1.01E+06	7.52E+13	1.56E+08	0.00E+00	0.00E+00	0.00E+00
3.30E-07	1.23E+00	1.29E+05	4.81E+11	1.35E+07	8.98E+05	3.36E+12	3.24E+08
8.36E-08	1.92E-01	9.72E+05	2.24E+12	1.54E+08	5.93E+04	1.37E+11	1.42E+08
2.07E-12	9.83E-06	9.34E+05	4.41E+12	1.91E+08	5.58E+03	2.64E+10	1.55E+07

3.39E-09	1.26E-02	3.91E+05	1.45E+12	7.28E+07	5.28E+05	1.96E+12	1.47E+08
7.77E-14	4.59E-07	1.03E+06	6.03E+12	1.77E+08	6.66E+03	3.91E+10	5.45E+07
6.68E-10	1.67E-02	9.12E+05	2.27E+13	2.34E+08	1.04E+05	2.59E+12	1.11E+08
9.12E-06	1.50E+02	2.87E+05	4.73E+12	6.80E+07	5.88E+05	9.70E+12	3.12E+08
5.92E-23	1.96E-16	6.68E+05	2.20E+12	7.30E+07	0.00E+00	0.00E+00	0.00E+00
2.45E-06	1.21E+01	1.01E+06	4.97E+12	1.39E+08	2.70E+04	1.33E+11	1.58E+08
5.60E-14	3.67E-07	9.71E+05	6.32E+12	1.07E+08	6.31E+04	4.10E+11	4.30E+07
1.25E-06	9.79E+01	9.09E+05	7.13E+13	2.44E+08	1.30E+05	1.02E+13	7.44E+08
1.90E-06	2.99E+00	3.86E+05	6.07E+11	1.17E+08	6.06E+05	9.53E+11	2.19E+08
2.08E-23	2.24E-16	9.20E+05	9.82E+12	2.04E+08	4.46E+04	4.76E+11	7.28E+07
1.03E-08	1.61E-02	1.01E+06	1.57E+12	9.35E+07	2.51E+04	3.90E+10	3.75E+07
2.07E-11	2.64E-04	6.85E+05	8.72E+12	1.66E+08	3.04E+05	3.86E+12	2.43E+08
1.64E-09	1.76E-02	1.74E+04	1.88E+11	9.25E+06	9.94E+05	1.07E+13	3.24E+08
1.35E-25	5.61E-18	6.32E+05	2.62E+13	6.25E+07	4.01E+05	1.66E+13	8.75E+07
1.10E-16	4.74E-09	2.09E+05	8.93E+12	8.00E+06	8.21E+05	3.50E+13	1.18E+08
1.93E-09	9.06E-02	4.73E+05	2.22E+13	1.82E+08	4.72E+05	2.21E+13	2.23E+08
1.23E-06	1.88E+01	1.01E+06	1.55E+13	2.35E+08	2.33E+04	3.55E+11	3.24E+08
1.30E-16	1.70E-10	1.03E+06	1.34E+12	9.40E+07	4.70E+03	6.12E+09	2.38E+07
2.94E-04	1.80E+04	7.54E+05	4.62E+13	1.46E+08	2.22E+05	1.36E+13	5.94E+08
3.47E-04	1.93E+03	6.01E+05	3.35E+12	1.28E+08	4.32E+05	2.41E+12	5.10E+08
1.58E-10	1.04E-02	1.04E+06	6.78E+13	1.81E+08	4.27E+02	2.79E+10	6.05E+07
3.10E-13	4.39E-06	1.03E+06	1.45E+13	1.67E+08	4.02E+03	5.65E+10	1.75E+07
2.17E-07	5.55E-01	1.04E+06	2.65E+12	7.13E+07	9.18E+02	2.35E+09	7.25E+06
1.06E-12	1.77E-06	9.66E+05	1.61E+12	2.14E+08	2.36E+04	3.92E+10	6.58E+07
1.48E-09	1.13E-01	1.01E+06	7.73E+13	1.32E+08	2.75E+04	2.10E+12	3.91E+08
2.52E-05	2.36E+03	5.05E+05	4.72E+13	1.83E+08	5.14E+05	4.81E+13	9.21E+08
6.20E-16	1.42E-08	9.35E+05	2.13E+13	2.19E+08	7.53E+04	1.71E+12	4.70E+07
1.67E-05	7.03E+02	8.32E+05	3.51E+13	2.44E+08	1.88E+05	7.94E+12	6.85E+08
2.29E-08	5.99E-01	2.51E+05	6.57E+12	4.83E+07	6.59E+05	1.73E+13	3.83E+08
4.18E-22	1.75E-15	1.04E+06	4.31E+12	1.48E+08	0.00E+00	0.00E+00	0.00E+00
6.62E-16	9.37E-10	9.82E+05	1.38E+12	1.42E+08	7.85E+03	1.10E+10	1.43E+07
2.55E-09	8.90E-02	6.76E+05	2.35E+13	5.43E+07	3.59E+05	1.25E+13	2.21E+08
4.81E-12	9.68E-05	1.17E+04	2.35E+11	1.08E+07	7.92E+05	1.59E+13	2.28E+08
6.13E-07	2.28E+00	1.01E+06	3.74E+12	1.56E+08	2.79E+04	1.04E+11	1.42E+08
1.61E-10	1.53E-02	3.89E+05	3.70E+13	6.48E+07	5.86E+05	5.58E+13	4.75E+08
3.80E-11	1.21E-03	2.30E+05	7.31E+12	1.25E+07	8.02E+05	2.55E+13	2.29E+08
8.36E-22	3.03E-14	2.56E+04	9.23E+11	1.73E+07	6.80E+05	2.45E+13	1.88E+08
6.14E-07	4.82E+01	3.55E+05	2.79E+13	1.08E+08	6.78E+05	5.32E+13	8.02E+08
7.70E-24	1.40E-17	5.68E+04	1.03E+11	1.65E+07	5.84E+05	1.06E+12	9.40E+07
4.30E-11	1.11E-04	6.57E+05	1.68E+12	1.49E+08	2.60E+05	6.66E+11	1.24E+08
6.49E-05	8.36E+01	6.52E+05	8.41E+11	9.90E+07	3.59E+05	4.62E+11	4.03E+08
5.60E-06	4.62E+01	6.18E+05	5.10E+12	3.85E+07	4.20E+05	3.47E+12	2.71E+08
8.74E-11	3.82E-03	9.22E+05	4.01E+13	2.60E+08	6.66E+04	2.90E+12	1.06E+08
2.53E-22	6.75E-15	1.03E+06	2.73E+13	1.00E+08	8.76E+03	2.32E+11	2.58E+07
8.01E-14	1.01E-07	9.91E+05	1.24E+12	8.95E+07	2.56E+04	3.20E+10	1.85E+07
2.42E-05	5.66E+01	4.20E+05	9.82E+11	3.18E+07	6.09E+05	1.43E+12	2.69E+08
1.10E-06	3.91E+01	7.99E+05	2.83E+13	2.24E+08	2.26E+05	8.02E+12	5.36E+08
5.63E-11	1.36E-03	5.19E+04	1.26E+12	9.75E+06	9.81E+05	2.38E+13	2.82E+08
2.84E-18	1.20E-10	8.28E+05	3.48E+13	3.43E+07	2.02E+05	8.48E+12	9.53E+07
1.29E-10	1.43E-02	2.94E+05	3.28E+13	1.88E+08	6.83E+05	7.62E+13	5.30E+08
5.74E-08	9.74E-02	1.03E+06	1.75E+12	7.80E+07	1.68E+03	2.83E+09	1.23E+07
2.95E-06	1.52E+01	7.28E+05	3.75E+12	7.93E+07	2.96E+05	1.52E+12	3.57E+08
1.82E-24	2.12E-18	1.00E+06	1.16E+12	1.45E+08	4.59E+02	5.31E+08	1.75E+06
5.76E-07	5.37E+01	7.03E+05	6.56E+13	2.55E+08	2.87E+05	2.68E+13	5.16E+08
4.13E-08	7.27E-01	4.49E+05	7.88E+12	9.58E+07	5.87E+05	1.03E+13	3.06E+08
4.71E-07	3.05E+01	1.03E+06	6.67E+13	8.50E+07	5.15E+03	3.32E+11	9.63E+07
6.10E-08	4.07E-01	8.12E+05	5.40E+12	1.26E+08	2.15E+05	1.43E+12	1.69E+08
1.29E-10	1.38E-02	1.04E+06	1.11E+14	1.60E+08	1.16E+03	1.24E+11	9.75E+07
7.88E-07	2.75E+00	6.75E+05	2.36E+12	2.75E+07	3.62E+05	1.27E+12	1.02E+08
5.30E-29	5.01E-21	2.49E+05	2.36E+13	5.48E+07	6.68E+05	6.31E+13	7.09E+08
5.07E-24	2.21E-17	1.03E+06	4.48E+12	9.43E+07	3.90E+03	1.69E+10	3.33E+07

1.50E-08	1.80E-02	6.78E+05	8.11E+11	3.93E+07	3.55E+05	4.24E+11	7.43E+07
9.66E-06	6.25E+02	5.11E+05	3.31E+13	1.18E+08	4.61E+05	2.99E+13	6.63E+08
9.12E-18	8.02E-10	9.33E+05	8.15E+13	8.30E+07	1.06E+05	9.28E+12	1.28E+08
1.12E-08	3.02E-01	1.04E+06	2.79E+13	1.36E+08	4.04E+03	1.09E+11	1.10E+08
5.04E-09	2.55E-01	8.95E+05	4.51E+13	1.84E+08	1.30E+05	6.53E+12	2.73E+08
1.31E-30	4.67E-23	1.04E+06	3.67E+13	6.13E+07	1.35E+01	4.77E+08	2.00E+06
6.89E-21	1.72E-13	9.22E+05	2.29E+13	5.60E+07	1.17E+05	2.91E+12	8.60E+07
2.16E-08	8.17E-01	8.65E+05	3.26E+13	1.49E+08	1.75E+05	6.57E+12	3.19E+08
9.63E-26	1.70E-19	1.04E+06	1.82E+12	7.25E+07	0.00E+00	0.00E+00	0.00E+00
8.93E-09	2.69E-01	5.99E+05	1.80E+13	2.18E+08	3.69E+05	1.11E+13	2.23E+08
5.01E-16	1.36E-08	4.44E+05	1.20E+13	5.00E+07	5.91E+05	1.60E+13	3.27E+08
7.80E-15	2.36E-08	1.04E+06	3.12E+12	7.75E+07	1.08E+03	3.26E+09	7.50E+06
1.23E-06	1.22E+01	6.89E+05	6.80E+12	2.02E+08	2.62E+05	2.59E+12	1.60E+08
1.81E-05	4.09E+02	9.44E+05	2.14E+13	1.51E+08	9.40E+04	2.13E+12	6.08E+08
2.89E-12	2.40E-04	6.86E+04	5.70E+12	2.08E+07	7.44E+05	6.17E+13	3.04E+08
1.00E-05	1.46E+02	5.79E+05	8.46E+12	1.39E+08	3.90E+05	5.70E+12	6.25E+08
5.11E-05	5.06E+02	5.19E+05	5.14E+12	1.17E+08	4.67E+05	4.62E+12	6.74E+08
2.19E-06	1.04E+02	7.85E+05	3.72E+13	1.62E+08	2.54E+05	1.20E+13	7.19E+08
1.72E-09	5.34E-03	1.03E+06	3.18E+12	5.68E+07	8.47E+03	2.61E+10	1.35E+07
3.93E-16	9.04E-09	9.98E+05	2.28E+13	2.09E+08	3.41E+02	7.79E+09	9.50E+06
1.01E-19	1.61E-12	9.62E+05	1.52E+13	1.90E+08	0.00E+00	0.00E+00	0.00E+00
7.54E-21	1.24E-13	9.48E+05	1.55E+13	1.80E+08	0.00E+00	0.00E+00	0.00E+00
1.22E-24	1.09E-16	9.37E+05	8.35E+13	1.33E+08	0.00E+00	0.00E+00	0.00E+00
9.41E-07	1.73E+01	9.40E+05	1.73E+13	1.67E+08	9.83E+04	1.81E+12	3.00E+08
5.20E-06	6.80E+01	8.16E+05	1.07E+13	7.63E+07	2.23E+05	2.91E+12	2.21E+08
1.16E-08	1.29E-01	6.12E+05	6.79E+12	9.08E+07	3.48E+05	3.86E+12	1.71E+08
8.67E-06	1.34E+01	3.32E+05	5.12E+11	5.48E+07	6.24E+05	9.63E+11	2.55E+08
9.62E-17	6.79E-09	9.07E+05	6.37E+13	1.10E+08	1.22E+05	8.58E+12	1.05E+08
5.13E-06	4.98E+02	5.87E+05	5.70E+13	3.00E+08	4.38E+05	4.25E+13	6.10E+08
3.12E-12	3.87E-05	6.95E+05	8.55E+12	3.98E+07	3.40E+05	4.19E+12	1.43E+08
2.38E-10	9.05E-04	6.48E+05	2.45E+12	1.59E+08	3.65E+05	1.38E+12	1.47E+08
5.77E-06	2.33E+02	9.90E+05	3.99E+13	1.33E+08	4.92E+04	1.98E+12	4.42E+08
2.85E-07	7.58E-01	9.29E+05	2.47E+12	1.20E+08	1.04E+05	2.75E+11	1.77E+08
3.65E-06	4.96E+01	7.07E+05	9.62E+12	4.55E+07	3.27E+05	4.45E+12	3.67E+08
5.53E-06	4.24E+01	8.49E+05	6.51E+12	1.52E+08	1.86E+05	1.43E+12	4.09E+08
6.54E-36	4.88E-28	3.47E+05	2.58E+13	9.00E+06	6.79E+05	5.04E+13	1.02E+08
1.21E-27	4.56E-21	6.91E+05	2.58E+12	3.95E+07	1.50E+04	5.60E+10	2.75E+07
1.52E-14	3.52E-08	9.86E+05	2.27E+12	8.43E+07	1.08E+03	2.49E+09	4.25E+06
3.65E-19	1.74E-12	8.74E+05	4.13E+12	1.90E+08	2.68E+01	1.27E+08	5.00E+05
3.57E-07	1.33E+00	1.01E+06	3.76E+12	1.37E+08	2.11E+04	7.84E+10	1.28E+08
5.77E-08	3.39E-01	9.94E+05	5.83E+12	7.58E+07	4.39E+04	2.57E+11	1.61E+08
2.52E-11	6.29E-04	2.07E+05	5.14E+12	5.68E+07	7.18E+05	1.78E+13	3.99E+08
1.00E-06	1.65E+01	8.01E+05	1.32E+13	8.23E+07	2.33E+05	3.84E+12	4.98E+08
7.09E-35	2.35E-28	5.94E+05	1.96E+12	1.00E+08	0.00E+00	0.00E+00	0.00E+00
8.00E-06	3.94E+01	3.40E+05	1.67E+12	4.60E+07	6.46E+05	3.18E+12	3.70E+08
2.47E-09	1.61E-02	6.16E+05	4.01E+12	8.23E+07	4.01E+05	2.61E+12	1.92E+08
6.56E-17	5.17E-09	9.44E+05	7.40E+13	2.21E+08	5.20E+04	4.07E+12	1.61E+08
8.44E-07	1.33E+00	2.11E+05	3.32E+11	1.85E+07	8.08E+05	1.27E+12	2.35E+08
9.26E-08	9.88E-01	3.00E+05	3.20E+12	4.53E+07	7.34E+05	7.83E+12	3.06E+08
6.55E-12	1.02E-05	9.96E+05	1.55E+12	1.72E+08	2.75E+04	4.26E+10	8.10E+07
4.96E-17	6.34E-10	5.19E+05	6.60E+12	1.04E+08	4.45E+05	5.66E+12	2.58E+08
1.30E-09	1.41E-02	6.75E+05	7.28E+12	1.94E+08	3.43E+05	3.70E+12	1.56E+08
2.81E-08	1.16E+00	9.16E+05	3.79E+13	6.03E+07	1.23E+05	5.11E+12	2.00E+08
5.55E-08	2.38E+00	1.04E+06	4.43E+13	1.35E+08	2.25E+03	9.62E+10	1.14E+08
6.87E-05	3.22E+03	3.32E+05	1.56E+13	1.49E+08	5.05E+05	2.37E+13	8.64E+08
5.26E-08	8.04E-01	8.79E+05	1.34E+13	1.81E+08	1.54E+05	2.35E+12	4.90E+08
3.45E-08	4.52E-02	1.03E+06	1.34E+12	5.23E+07	6.77E+03	8.82E+09	1.05E+07
1.34E-10	8.21E-03	9.83E+05	6.03E+13	1.65E+08	5.48E+04	3.36E+12	3.30E+08
2.33E-06	1.30E+01	2.50E+05	1.40E+12	3.60E+07	7.67E+05	4.28E+12	3.85E+08
8.36E-16	5.49E-08	1.04E+06	6.77E+13	1.93E+08	1.86E+03	1.21E+11	8.40E+07
9.24E-08	1.31E+00	9.58E+05	1.35E+13	1.91E+08	8.02E+04	1.13E+12	1.38E+08

1.29E-06	3.30E+00	8.48E+05	2.17E+12	2.23E+07	1.90E+05	4.85E+11	8.38E+07
9.71E-06	1.61E+01	9.12E+05	1.52E+12	1.61E+08	1.09E+05	1.81E+11	2.56E+08
1.69E-36	1.30E-28	8.54E+05	6.53E+13	1.08E+08	1.43E+05	1.09E+13	1.05E+08
3.89E-06	3.64E+02	7.04E+05	6.58E+13	1.53E+08	3.27E+05	3.06E+13	6.54E+08
2.61E-08	5.97E-01	9.99E+05	2.27E+13	1.62E+08	3.91E+04	8.90E+11	3.47E+08
2.27E-06	9.59E+01	8.93E+05	3.77E+13	1.41E+08	1.36E+05	5.74E+12	4.75E+08
2.69E-27	7.10E-20	7.25E+05	1.90E+13	1.90E+08	5.49E+04	1.44E+12	2.80E+07
2.10E-23	8.76E-17	4.80E+05	2.00E+12	1.08E+08	4.87E+05	2.03E+12	1.00E+08
8.63E-10	1.22E-03	8.31E+05	1.17E+12	5.25E+07	2.03E+05	2.86E+11	5.30E+07
4.33E-10	1.51E-02	9.16E+05	3.18E+13	1.28E+08	1.20E+05	4.17E+12	1.37E+08
1.60E-07	3.23E+00	6.61E+05	1.33E+13	1.15E+08	3.77E+05	7.58E+12	3.28E+08
3.02E-16	1.13E-09	1.03E+06	3.82E+12	1.75E+08	5.67E+03	2.11E+10	5.40E+07
3.02E-07	2.88E+01	9.67E+05	9.21E+13	2.87E+08	6.10E+04	5.80E+12	4.02E+08
3.67E-08	1.17E+00	1.04E+06	3.30E+13	1.76E+08	2.31E+03	7.33E+10	1.14E+08
3.56E-08	1.28E+00	1.02E+06	3.69E+13	3.03E+08	1.00E+04	3.60E+11	2.87E+08
2.35E-10	1.85E-02	1.40E+05	1.10E+13	2.83E+07	8.77E+05	6.88E+13	2.76E+08
8.52E-07	1.54E+00	1.20E+05	2.17E+11	2.33E+07	8.95E+05	1.62E+12	2.92E+08
6.50E-05	1.67E+02	4.55E+05	1.17E+12	6.58E+07	5.47E+05	1.40E+12	4.95E+08
8.34E-12	1.08E-05	2.45E+05	3.16E+11	2.65E+07	6.39E+05	8.23E+11	1.45E+08
1.72E-08	1.42E-01	8.41E+05	6.95E+12	5.78E+07	1.93E+05	1.59E+12	3.18E+08
1.06E-06	4.62E+01	5.43E+05	2.36E+13	1.53E+08	4.90E+05	2.13E+13	6.39E+08
8.54E-08	2.27E+00	8.87E+05	2.35E+13	4.93E+07	1.53E+05	4.04E+12	1.23E+08
4.97E-04	6.19E+02	1.79E+05	2.23E+11	2.68E+07	8.09E+05	1.01E+12	2.98E+08
2.48E-11	5.80E-05	6.55E+05	1.53E+12	4.93E+07	3.51E+05	8.22E+11	2.31E+08
2.67E-05	9.47E+02	9.02E+05	3.20E+13	1.08E+08	1.35E+05	4.79E+12	6.29E+08
2.07E-04	5.01E+03	5.40E+05	1.31E+13	1.04E+08	4.97E+05	1.21E+13	6.84E+08
9.01E-32	3.82E-24	1.32E+05	5.55E+12	1.30E+07	8.57E+05	3.61E+13	1.49E+08
8.52E-06	9.50E+02	9.82E+05	1.10E+14	2.33E+08	5.71E+04	6.37E+12	7.51E+08
2.03E-18	3.45E-12	1.00E+06	1.69E+12	2.45E+07	3.50E+04	5.91E+10	2.60E+07
3.59E-14	1.85E-07	5.23E+05	2.69E+12	1.45E+08	3.84E+05	1.98E+12	3.26E+08
8.86E-09	1.03E-02	9.29E+05	1.07E+12	7.48E+07	9.83E+04	1.14E+11	1.26E+08
2.13E-24	2.00E-16	8.17E+05	7.62E+13	1.22E+08	0.00E+00	0.00E+00	0.00E+00
1.08E-14	1.91E-07	1.29E+05	2.27E+12	3.28E+07	5.92E+05	1.04E+13	1.59E+08
2.47E-40	1.60E-32	1.04E+06	6.69E+13	1.58E+08	0.00E+00	0.00E+00	0.00E+00
1.06E-06	7.03E+00	7.42E+05	4.94E+12	8.35E+07	2.88E+05	1.92E+12	5.73E+08
7.66E-15	8.23E-07	1.04E+06	1.11E+14	1.49E+08	1.38E+02	1.48E+10	1.85E+07
4.52E-08	1.59E-01	7.34E+05	2.57E+12	2.08E+07	3.04E+05	1.06E+12	9.75E+07
1.60E-15	1.52E-07	7.34E+05	6.94E+13	2.37E+08	2.27E+05	2.15E+13	1.27E+08
1.63E-16	7.10E-10	1.04E+06	4.50E+12	6.85E+07	1.53E+03	6.63E+09	9.75E+06
5.79E-07	6.94E-01	1.02E+06	1.22E+12	9.85E+07	1.53E+04	1.82E+10	3.93E+07
1.43E-06	9.26E+01	7.49E+05	4.85E+13	9.60E+07	2.82E+05	1.83E+13	6.54E+08
2.31E-14	2.02E-06	1.01E+06	8.83E+13	1.11E+08	2.98E+04	2.60E+12	3.67E+08
3.06E-04	8.24E+03	5.82E+05	1.57E+13	6.43E+07	4.38E+05	1.18E+13	5.75E+08
5.07E-07	2.55E+01	1.02E+06	5.13E+13	2.44E+08	2.02E+04	1.02E+12	3.90E+08
8.50E-06	3.01E+02	9.94E+05	3.51E+13	6.33E+07	4.50E+04	1.59E+12	1.27E+08
2.97E-15	7.43E-08	1.04E+06	2.58E+13	1.18E+08	0.00E+00	0.00E+00	0.00E+00
1.63E-26	6.18E-19	9.63E+05	3.63E+13	2.16E+08	1.01E+04	3.82E+11	4.65E+07
4.77E-08	8.42E-02	1.04E+06	1.82E+12	3.90E+07	2.54E+03	4.46E+09	8.25E+06
3.96E-08	1.19E+00	9.77E+05	2.94E+13	2.87E+08	5.43E+04	1.64E+12	2.49E+08
3.17E-08	8.62E-01	1.03E+06	2.80E+13	1.17E+08	6.19E+03	1.67E+11	8.63E+07
1.57E-60	4.77E-54	8.64E+05	2.60E+12	1.05E+08	1.48E+05	4.45E+11	5.70E+07
4.16E-04	4.10E+03	2.75E+05	2.72E+12	7.63E+07	7.49E+05	7.40E+12	5.18E+08
1.15E-24	2.63E-17	8.57E+05	1.94E+13	1.64E+08	0.00E+00	0.00E+00	0.00E+00
7.56E-06	6.27E+02	6.97E+05	5.79E+13	2.96E+08	3.19E+05	2.65E+13	6.42E+08
1.41E-07	2.06E+00	2.07E+05	3.03E+12	5.75E+07	7.91E+05	1.16E+13	4.37E+08
2.68E-07	2.65E+00	4.90E+05	4.85E+12	1.18E+08	5.27E+05	5.21E+12	3.14E+08
3.66E-12	1.73E-04	2.22E+05	1.05E+13	3.90E+07	5.89E+05	2.79E+13	4.09E+08
1.95E-12	6.05E-06	1.03E+06	3.19E+12	8.98E+07	3.83E+03	1.18E+10	2.88E+07
7.25E-21	1.67E-13	7.12E+05	1.63E+13	9.18E+07	9.62E+04	2.20E+12	2.68E+07
7.35E-11	1.16E-03	1.02E+06	1.60E+13	2.25E+08	2.00E+04	3.16E+11	1.82E+08
1.34E-05	2.18E+02	7.95E+05	1.30E+13	8.05E+07	2.32E+05	3.79E+12	4.99E+08

9.14E-26	8.19E-18	2.59E+05	2.31E+13	7.08E+07	5.80E+05	5.17E+13	1.57E+08
1.93E-05	3.55E+02	7.60E+05	1.40E+13	3.15E+08	2.76E+05	5.08E+12	4.97E+08
4.11E-11	5.41E-04	1.04E+06	1.36E+13	9.40E+07	7.44E+02	9.73E+09	2.85E+07
9.35E-07	1.04E+01	9.77E+05	1.08E+13	1.77E+08	5.95E+04	6.60E+11	3.89E+08
3.90E-07	6.01E-01	4.00E+05	6.17E+11	2.10E+07	6.30E+05	9.71E+11	2.03E+08
4.30E-17	3.04E-09	1.02E+06	7.18E+13	2.24E+08	2.71E+02	1.90E+10	4.15E+07
2.73E-17	2.67E-09	2.23E+05	2.17E+13	3.65E+07	5.17E+05	5.02E+13	9.33E+07
1.17E-05	1.44E+02	9.80E+05	1.21E+13	1.49E+08	5.85E+04	7.20E+11	1.20E+08
1.49E-11	5.66E-05	1.02E+06	3.86E+12	2.15E+08	6.94E+03	2.62E+10	6.15E+07
9.40E-08	3.80E+00	1.02E+06	4.11E+13	1.35E+08	1.98E+04	8.00E+11	2.58E+08
2.46E-06	6.55E+00	9.12E+05	2.42E+12	9.83E+07	1.22E+05	3.23E+11	1.55E+08
1.55E-33	2.13E-26	9.32E+05	1.27E+13	6.38E+07	9.08E+04	1.23E+12	8.75E+07
2.03E-05	1.55E+02	4.15E+05	3.18E+12	1.53E+08	6.05E+05	4.64E+12	3.19E+08
8.20E-12	6.11E-04	1.03E+06	7.67E+13	1.50E+08	5.47E+03	4.05E+11	1.43E+08
2.41E-06	9.01E+00	6.78E+05	2.53E+12	4.20E+07	3.59E+05	1.34E+12	1.75E+08
1.41E-12	3.27E-06	8.94E+05	2.06E+12	1.57E+08	1.28E+05	2.94E+11	5.68E+07
4.99E-21	2.37E-14	8.53E+05	4.03E+12	1.28E+08	0.00E+00	0.00E+00	0.00E+00
2.31E-13	8.61E-07	9.47E+05	3.51E+12	1.85E+08	3.88E+03	1.44E+10	4.53E+07
8.76E-07	5.14E+00	9.22E+05	5.41E+12	9.53E+07	1.14E+05	6.68E+11	2.65E+08
8.14E-14	2.03E-06	9.93E+05	2.47E+13	2.32E+08	4.95E+03	1.23E+11	5.63E+07
8.31E-08	1.37E+00	9.02E+05	1.49E+13	2.02E+08	1.37E+05	2.25E+12	2.77E+08
1.32E-07	4.36E-01	9.37E+05	3.09E+12	1.63E+08	8.30E+04	2.73E+11	1.02E+08
9.23E-06	4.54E+01	7.43E+05	3.66E+12	1.43E+08	2.86E+05	1.41E+12	2.64E+08
2.06E-18	1.35E-11	9.97E+04	6.49E+11	9.50E+06	8.02E+05	5.22E+12	1.15E+08
1.97E-07	1.54E+01	4.31E+05	3.38E+13	4.28E+07	5.57E+05	4.37E+13	4.59E+08
2.03E-13	3.21E-07	8.82E+05	1.39E+12	1.06E+08	7.92E+04	1.25E+11	3.00E+07
2.01E-15	2.14E-08	9.01E+05	9.61E+12	2.04E+08	1.07E+05	1.14E+12	1.85E+08
1.04E-09	1.62E-03	1.03E+06	1.60E+12	1.34E+08	1.13E+03	1.76E+09	8.25E+06
5.45E-21	6.97E-14	9.52E+05	1.21E+13	1.89E+08	6.33E+00	8.04E+07	5.00E+05
1.80E-06	1.94E+01	9.41E+05	1.02E+13	1.57E+08	9.15E+04	9.88E+11	3.26E+08
1.89E-16	7.84E-09	1.00E+06	4.14E+13	4.70E+07	3.87E+04	1.60E+12	1.96E+08
1.83E-22	7.87E-15	1.02E+06	4.37E+13	8.35E+07	4.29E+02	1.83E+10	6.50E+06
1.79E-07	8.37E+00	6.81E+05	3.19E+13	2.12E+08	3.06E+05	1.43E+13	5.23E+08
8.64E-05	1.32E+03	1.52E+05	2.33E+12	4.55E+07	8.64E+05	1.32E+13	6.40E+08
3.50E-26	4.59E-20	1.03E+06	1.35E+12	1.10E+08	0.00E+00	0.00E+00	0.00E+00
3.17E-24	1.95E-16	9.18E+05	5.63E+13	2.07E+08	6.33E+02	3.88E+10	1.15E+07
4.38E-10	2.46E-03	6.32E+05	3.53E+12	7.80E+07	3.94E+05	2.20E+12	1.53E+08
3.87E-78	2.54E-70	6.71E+05	4.38E+13	1.34E+08	0.00E+00	0.00E+00	0.00E+00
3.02E-17	4.27E-10	1.02E+06	1.44E+13	1.68E+08	9.37E+03	1.32E+11	9.53E+07
1.96E-20	5.05E-14	1.01E+06	2.59E+12	5.75E+07	2.50E+04	6.38E+10	5.88E+07
3.52E-07	5.85E-01	1.01E+06	1.69E+12	2.08E+08	1.12E+04	1.87E+10	4.28E+07
3.27E-12	2.51E-04	1.03E+06	7.90E+13	1.54E+08	4.44E+03	3.39E+11	6.20E+07
7.19E-12	6.76E-04	9.88E+05	9.24E+13	2.36E+08	2.50E+03	2.34E+11	3.78E+07
2.91E-07	6.63E+00	7.98E+05	1.81E+13	8.35E+07	2.32E+05	5.28E+12	5.07E+08
7.06E-08	2.98E+00	1.02E+06	4.30E+13	3.06E+08	1.23E+04	5.20E+11	3.10E+08
5.48E-06	1.44E+02	7.12E+05	1.87E+13	1.16E+08	2.66E+05	6.97E+12	3.00E+08
2.04E-08	8.52E-02	7.56E+05	3.15E+12	3.98E+07	2.81E+05	1.17E+12	1.36E+08
7.08E-08	9.97E-02	1.01E+06	1.42E+12	8.95E+07	2.05E+04	2.88E+10	7.23E+07
8.49E-21	2.97E-13	8.19E+05	2.84E+13	1.47E+08	1.95E+05	6.76E+12	6.05E+07
9.21E-06	1.85E+02	3.02E+05	6.08E+12	2.48E+07	7.35E+05	1.48E+13	5.13E+08
2.01E-06	7.49E+00	8.19E+05	3.04E+12	7.45E+07	1.22E+05	4.54E+11	7.25E+07
1.66E-10	1.58E-02	4.99E+05	4.75E+13	1.25E+08	4.66E+05	4.44E+13	7.51E+08
2.19E-07	6.98E+00	7.54E+05	2.40E+13	4.90E+07	2.85E+05	9.06E+12	3.08E+08
4.94E-04	1.78E+04	5.97E+05	2.15E+13	2.66E+08	3.41E+05	1.23E+13	7.20E+08
5.72E-09	4.49E-01	5.88E+05	4.62E+13	7.30E+07	4.30E+05	3.37E+13	6.24E+08
1.78E-11	3.24E-05	6.21E+05	1.12E+12	1.28E+08	1.92E+05	3.47E+11	1.06E+08
5.23E-37	1.35E-30	8.59E+05	2.20E+12	1.27E+08	0.00E+00	0.00E+00	0.00E+00
2.88E-09	3.71E-03	5.79E+05	7.47E+11	1.86E+08	4.21E+05	5.42E+11	1.58E+08
3.62E-06	2.99E+01	8.64E+05	7.13E+12	1.55E+08	1.74E+05	1.43E+12	2.07E+08
6.78E-10	2.95E-02	2.07E+04	9.02E+11	7.08E+07	9.57E+05	4.16E+13	4.19E+08
6.32E-10	1.68E-02	1.04E+06	2.75E+13	1.04E+08	9.42E+02	2.49E+10	4.43E+07

6.99E-04	8.72E+02	3.19E+05	3.98E+11	5.63E+07	6.59E+05	8.23E+11	4.09E+08
5.68E-14	1.34E-07	1.00E+06	2.35E+12	1.39E+08	2.89E+03	6.76E+09	1.15E+07
1.00E-06	3.56E+01	4.37E+05	1.55E+13	2.50E+08	4.53E+05	1.61E+13	2.84E+08
6.62E-25	1.62E-17	9.62E+05	2.33E+13	1.43E+08	1.28E+01	3.10E+08	1.25E+06
1.11E-08	4.70E-01	7.05E+05	2.97E+13	5.05E+07	3.35E+05	1.41E+13	1.85E+08
1.53E-04	1.71E+04	3.54E+05	3.95E+13	8.75E+07	4.69E+05	5.23E+13	9.05E+08
4.88E-39	8.30E-33	1.02E+06	1.72E+12	1.02E+08	1.78E+04	3.00E+10	4.88E+07
4.21E-13	2.18E-06	7.56E+05	3.89E+12	1.66E+08	6.22E+02	3.21E+09	2.75E+06
1.76E-11	2.03E-05	9.70E+05	1.12E+12	8.30E+07	5.88E+04	6.79E+10	1.05E+08
4.21E-07	3.93E+01	1.02E+06	9.56E+13	3.00E+08	1.40E+04	1.31E+12	4.36E+08
2.94E-06	5.17E+01	6.47E+05	1.14E+13	1.24E+08	3.91E+05	6.86E+12	4.71E+08
4.10E-24	2.66E-16	8.86E+05	5.72E+13	2.05E+07	1.53E+05	9.85E+12	1.04E+08
2.43E-15	1.63E-08	9.65E+05	6.42E+12	2.18E+08	3.63E+02	2.41E+09	9.50E+06
6.94E-14	7.46E-06	9.87E+05	1.05E+14	8.03E+07	5.32E+04	5.67E+12	1.08E+08
1.63E-07	5.70E-01	9.73E+05	3.40E+12	8.85E+07	6.29E+04	2.20E+11	1.31E+08
2.94E-06	2.78E+02	4.84E+05	4.58E+13	2.18E+08	5.49E+05	5.19E+13	6.48E+08
2.69E-13	1.17E-06	1.04E+06	4.51E+12	4.53E+07	4.52E+01	1.96E+08	5.00E+05
2.37E-06	2.83E+00	6.91E+05	8.25E+11	2.05E+07	3.43E+05	4.10E+11	9.70E+07
1.31E-06	8.46E+01	6.82E+05	4.42E+13	2.03E+08	3.04E+05	1.97E+13	4.93E+08
6.30E-09	5.54E-01	9.74E+05	8.51E+13	8.88E+07	6.60E+04	5.77E+12	1.41E+08
6.60E-06	1.78E+02	1.00E+06	2.70E+13	2.05E+08	3.64E+04	9.79E+11	1.80E+08
9.10E-12	4.58E-04	4.47E+05	2.25E+13	7.83E+07	5.44E+05	2.74E+13	7.65E+08
4.20E-12	1.50E-04	9.77E+05	3.45E+13	5.68E+07	6.37E+04	2.25E+12	6.45E+07
1.22E-17	3.06E-10	1.04E+06	2.58E+13	7.58E+07	6.94E+02	1.72E+10	1.78E+07
1.01E-06	3.80E+01	3.91E+05	1.47E+13	5.08E+07	6.48E+05	2.44E+13	4.26E+08
3.64E-12	6.43E-06	1.02E+06	1.80E+12	5.13E+07	1.29E+04	2.27E+10	4.05E+07
6.48E-05	1.95E+03	6.81E+05	2.05E+13	1.56E+08	3.54E+05	1.07E+13	9.50E+08
9.39E-17	2.56E-09	1.04E+06	2.81E+13	2.03E+08	3.05E+01	8.25E+08	4.25E+06
9.92E-11	3.00E-04	5.63E+05	1.69E+12	5.08E+07	4.71E+05	1.42E+12	1.11E+08
1.94E-06	1.92E+01	5.39E+05	5.33E+12	7.05E+07	4.91E+05	4.85E+12	3.24E+08
1.06E-08	2.41E-01	7.98E+05	1.81E+13	2.14E+08	1.62E+05	3.67E+12	2.19E+08
1.45E-07	1.21E+01	9.59E+05	7.96E+13	2.55E+08	7.66E+04	6.36E+12	5.73E+08
3.98E-06	5.82E+01	8.23E+05	1.20E+13	1.47E+08	2.05E+05	2.99E+12	3.34E+08
5.98E-06	5.91E+01	6.30E+05	6.23E+12	2.04E+08	3.16E+05	3.13E+12	5.93E+08
1.72E-08	8.18E-01	5.05E+05	2.40E+13	1.08E+08	5.19E+05	2.46E+13	3.15E+08
4.01E-10	1.24E-03	8.13E+05	2.51E+12	2.68E+07	2.25E+05	6.95E+11	5.30E+07
4.49E-06	1.03E+02	6.99E+05	1.60E+13	1.06E+08	3.36E+05	7.67E+12	3.75E+08
1.83E-10	2.90E-03	9.83E+05	1.55E+13	2.56E+08	4.27E+04	6.73E+11	1.92E+08
1.48E-09	2.43E-02	1.03E+06	1.69E+13	2.43E+08	3.86E+03	6.31E+10	1.08E+08
4.21E-07	3.74E+01	5.66E+05	5.04E+13	1.41E+08	4.74E+05	4.22E+13	6.46E+08
1.25E-05	2.31E+02	3.29E+05	6.07E+12	6.40E+07	6.31E+05	1.16E+13	4.27E+08
1.63E-08	2.14E-01	1.03E+06	1.35E+13	8.98E+07	7.87E+03	1.03E+11	1.05E+08
3.47E-05	3.85E+02	6.85E+05	7.60E+12	6.48E+07	3.48E+05	3.86E+12	6.24E+08
6.08E-10	9.42E-04	8.52E+05	1.31E+12	6.40E+07	1.79E+05	2.76E+11	6.78E+07
5.13E-08	3.62E+00	1.03E+06	7.23E+13	1.02E+08	9.30E+03	6.53E+11	2.06E+08
3.06E-08	2.97E+00	9.03E+05	8.77E+13	2.75E+08	1.24E+05	1.21E+13	4.28E+08
7.53E-18	9.32E-11	1.04E+06	1.28E+13	1.52E+08	1.32E+03	1.62E+10	4.28E+07
1.69E-09	6.40E-03	2.26E+05	8.53E+11	1.25E+07	8.08E+05	3.05E+12	1.96E+08
8.88E-09	3.60E-01	1.03E+06	4.17E+13	1.05E+08	6.56E+03	2.64E+11	1.51E+08
5.66E-06	1.50E+01	9.54E+05	2.53E+12	1.44E+08	7.78E+04	2.07E+11	2.02E+08
2.14E-08	2.92E-01	9.94E+05	1.35E+13	2.28E+08	4.31E+04	5.86E+11	1.23E+08
1.48E-08	1.14E-01	8.02E+05	6.15E+12	7.55E+07	2.35E+05	1.80E+12	1.66E+08
7.83E-16	5.85E-08	1.03E+06	7.63E+13	1.71E+08	1.00E+04	7.42E+11	6.33E+07
9.22E-10	3.46E-03	7.98E+05	2.98E+12	1.60E+08	2.23E+05	8.35E+11	1.85E+08
3.32E-06	7.64E+00	3.80E+05	8.77E+11	1.25E+07	6.54E+05	1.51E+12	2.09E+08
3.87E-16	1.84E-09	9.55E+05	4.51E+12	1.86E+08	1.00E+04	4.74E+10	1.40E+07
1.18E-06	4.39E+00	7.30E+05	2.71E+12	6.75E+07	3.05E+05	1.13E+12	2.14E+08
7.53E-07	4.43E+00	5.34E+05	3.13E+12	3.53E+07	5.04E+05	2.95E+12	1.89E+08
7.63E-21	1.91E-13	8.48E+05	2.11E+13	1.91E+08	1.58E+04	3.92E+11	3.38E+07
2.48E-05	4.09E+02	9.47E+05	1.56E+13	1.31E+08	9.10E+04	1.50E+12	4.53E+08
3.28E-08	1.08E-01	9.83E+05	3.24E+12	2.05E+08	4.85E+04	1.60E+11	7.95E+07

1.27E-06	6.24E+00	6.05E+04	2.98E+11	1.78E+07	8.15E+05	4.01E+12	3.84E+08
4.81E-11	3.14E-04	2.16E+05	1.41E+12	1.13E+07	8.15E+05	5.30E+12	2.04E+08
3.93E-10	3.09E-02	1.01E+06	7.88E+13	2.84E+08	2.39E+04	1.87E+12	3.09E+08
9.97E-13	1.58E-06	4.07E+05	6.40E+11	3.18E+07	5.59E+05	8.79E+11	1.13E+08
5.56E-12	5.95E-05	7.63E+05	8.15E+12	1.81E+08	2.53E+05	2.70E+12	3.19E+08
1.35E-21	2.11E-15	9.96E+05	1.55E+12	1.98E+08	1.78E+04	2.76E+10	5.60E+07
3.55E-09	4.53E-02	6.19E+05	7.88E+12	1.20E+08	3.53E+05	4.48E+12	1.85E+08
1.81E-07	1.96E+00	1.00E+06	1.08E+13	2.68E+08	3.31E+04	3.58E+11	2.77E+08
6.95E-24	2.90E-16	1.04E+06	4.30E+13	1.45E+08	1.90E+02	7.86E+09	2.70E+07
2.44E-36	1.05E-28	1.01E+06	4.29E+13	1.96E+08	1.39E+02	5.95E+09	9.25E+06
5.69E-20	2.68E-12	2.11E+03	9.91E+10	8.50E+06	5.91E+05	2.77E+13	1.48E+08
3.02E-05	4.61E+02	6.40E+05	9.78E+12	8.80E+07	3.82E+05	5.82E+12	7.70E+08
2.09E-16	2.75E-10	9.99E+05	1.30E+12	7.08E+07	3.23E+04	4.21E+10	1.60E+07
1.23E-09	7.58E-02	9.68E+05	5.93E+13	2.59E+08	6.82E+04	4.18E+12	1.93E+08
8.87E-15	4.98E-08	1.00E+06	5.59E+12	1.95E+08	0.00E+00	0.00E+00	0.00E+00
9.51E-17	6.24E-09	2.29E+05	1.49E+13	9.75E+06	8.00E+05	5.22E+13	1.64E+08
2.22E-11	3.14E-04	9.80E+05	1.38E+13	1.51E+08	5.81E+04	8.18E+11	1.97E+08
1.30E-05	3.32E+01	1.02E+06	2.62E+12	1.00E+08	7.52E+03	1.92E+10	4.10E+07
1.13E-08	1.88E-02	7.01E+05	1.17E+12	1.43E+08	3.02E+05	5.02E+11	1.30E+08
4.20E-07	3.22E+01	5.21E+05	3.98E+13	7.88E+07	5.16E+05	3.94E+13	3.34E+08
2.44E-08	2.29E+00	7.60E+05	7.11E+13	3.02E+08	2.75E+05	2.57E+13	4.61E+08
3.41E-06	7.76E+01	8.77E+05	1.99E+13	2.73E+08	1.59E+05	3.61E+12	4.17E+08
1.92E-12	8.16E-05	9.31E+05	3.93E+13	2.26E+08	6.40E+04	2.70E+12	5.03E+07
1.10E-04	2.87E+03	8.15E+05	2.14E+13	1.55E+08	1.98E+05	5.18E+12	5.70E+08
5.17E-13	2.17E-06	1.04E+06	4.31E+12	1.03E+08	2.26E+03	9.42E+09	2.85E+07
4.28E-09	6.02E-03	2.50E+05	3.52E+11	1.48E+07	7.80E+05	1.10E+12	1.81E+08
5.91E-22	2.07E-14	1.02E+06	3.55E+13	2.03E+08	4.72E+01	1.64E+09	5.25E+06
3.16E-06	6.35E+01	9.89E+05	1.99E+13	1.63E+08	4.94E+04	9.92E+11	3.95E+08
3.13E-37	1.17E-30	4.09E+05	1.52E+12	6.08E+07	4.48E+05	1.67E+12	1.03E+08
4.93E-06	4.69E+02	8.89E+05	8.47E+13	2.65E+08	1.48E+05	1.41E+13	7.47E+08
2.03E-15	6.49E-08	1.04E+06	3.29E+13	1.87E+08	1.83E+03	5.81E+10	2.85E+07
1.35E-09	4.87E-02	5.12E+05	1.84E+13	8.60E+07	5.19E+05	1.87E+13	2.23E+08
2.71E-10	2.13E-02	9.00E+04	7.07E+12	7.28E+07	6.29E+05	4.94E+13	5.10E+08
8.84E-25	1.61E-18	7.04E+05	1.27E+12	1.18E+08	5.36E+04	9.70E+10	2.05E+07
8.28E-07	2.12E+00	2.59E+05	6.64E+11	4.25E+07	7.33E+05	1.88E+12	2.43E+08
2.12E-05	2.73E+01	6.10E+05	7.86E+11	9.48E+07	3.93E+05	5.07E+11	4.04E+08
3.68E-07	3.04E+00	7.08E+05	5.85E+12	7.38E+07	3.24E+05	2.68E+12	3.24E+08
3.32E-04	1.44E+04	8.26E+05	3.59E+13	2.73E+08	2.12E+05	9.22E+12	1.07E+09
3.43E-20	9.16E-13	1.04E+06	2.75E+13	1.67E+08	0.00E+00	0.00E+00	0.00E+00
1.43E-06	1.78E+00	8.27E+05	1.03E+12	8.58E+07	2.04E+05	2.54E+11	8.35E+07
7.23E-07	1.69E+00	6.47E+05	1.51E+12	6.48E+07	3.87E+05	9.06E+11	1.46E+08
2.93E-06	1.04E+02	9.62E+05	3.41E+13	3.15E+08	7.43E+04	2.63E+12	3.27E+08
4.03E-10	9.81E-03	1.03E+06	2.50E+13	1.73E+08	7.00E+03	1.70E+11	1.40E+08
2.12E-12	8.94E-05	1.39E+05	5.84E+12	1.15E+07	8.96E+05	3.77E+13	2.62E+08
3.24E-07	3.62E+01	3.24E+05	3.61E+13	1.50E+08	6.76E+05	7.54E+13	4.07E+08
2.01E-09	3.40E-03	1.04E+06	1.75E+12	7.03E+07	1.94E+01	3.28E+07	2.50E+05
2.94E-06	1.51E+01	6.92E+04	3.57E+11	2.00E+07	8.58E+05	4.42E+12	4.45E+08
5.17E-32	6.01E-26	1.22E+05	1.41E+11	2.35E+07	7.24E+05	8.37E+11	1.06E+08
1.39E-09	1.30E-01	8.97E+05	8.37E+13	2.74E+08	1.39E+05	1.29E+13	3.25E+08
5.45E-08	9.55E-01	8.72E+05	1.53E+13	1.23E+08	1.61E+05	2.82E+12	4.47E+08
3.68E-12	2.39E-04	1.03E+06	6.67E+13	5.55E+07	6.74E+03	4.34E+11	3.93E+07
2.54E-11	1.70E-04	8.23E+05	5.48E+12	1.87E+08	2.00E+05	1.33E+12	9.63E+07
7.74E-13	8.32E-05	1.04E+06	1.11E+14	8.65E+07	3.44E+03	3.67E+11	1.33E+08
6.78E-17	2.37E-10	6.27E+04	2.19E+11	5.50E+06	9.69E+05	3.39E+12	1.73E+08
1.01E-13	9.56E-06	5.80E+05	5.48E+13	8.85E+07	4.25E+05	4.02E+13	8.39E+08
4.41E-12	1.91E-05	1.03E+06	4.48E+12	1.22E+08	6.50E+02	2.82E+09	1.03E+07
9.12E-10	1.10E-03	9.47E+05	1.13E+12	3.15E+07	8.90E+04	1.06E+11	3.63E+07
5.33E-17	3.47E-09	3.70E+05	2.40E+13	2.29E+08	5.50E+05	3.56E+13	2.59E+08
2.70E-08	2.37E+00	1.03E+06	9.04E+13	1.29E+08	5.62E+03	4.91E+11	1.90E+08
9.98E-10	2.70E-02	1.04E+06	2.79E+13	1.48E+08	4.04E+03	1.09E+11	6.23E+07
2.22E-15	1.12E-07	1.03E+06	5.18E+13	2.18E+08	7.83E+01	3.94E+09	1.00E+07

2.30E-65	8.18E-58	1.49E+05	5.27E+12	2.53E+07	8.11E+05	2.87E+13	8.15E+07
1.29E-10	3.23E-03	7.92E+05	1.97E+13	3.53E+07	2.45E+05	6.08E+12	1.21E+08
4.02E-19	1.53E-11	9.85E+05	3.71E+13	1.94E+08	1.03E+04	3.90E+11	1.53E+07
9.22E-18	1.63E-11	1.04E+06	1.82E+12	5.25E+07	0.00E+00	0.00E+00	0.00E+00
5.33E-04	1.60E+04	4.21E+05	1.27E+13	2.03E+08	3.27E+05	9.85E+12	8.58E+08
1.61E-10	4.36E-03	9.71E+05	2.63E+13	8.73E+07	6.77E+04	1.83E+12	3.76E+08
1.85E-09	5.61E-03	7.89E+05	2.37E+12	3.20E+07	2.49E+05	7.49E+11	6.58E+07
1.42E-08	1.40E-01	7.71E+05	7.62E+12	1.30E+08	2.66E+05	2.63E+12	2.77E+08
1.11E-15	2.53E-08	6.15E+05	1.40E+13	1.94E+08	6.50E+04	1.47E+12	4.78E+07
3.70E-11	3.08E-03	7.51E+05	6.24E+13	1.14E+08	2.67E+05	2.21E+13	3.80E+08
3.23E-11	4.74E-04	9.65E+05	1.41E+13	2.30E+08	6.47E+04	9.44E+11	1.92E+08
3.24E-12	3.22E-05	9.86E+05	9.76E+12	2.31E+08	8.85E+03	8.76E+10	6.83E+07
6.37E-05	3.02E+03	9.04E+05	4.29E+13	2.40E+08	1.35E+05	6.40E+12	6.83E+08
1.14E-26	3.54E-20	1.03E+06	3.18E+12	7.40E+07	1.01E+03	3.10E+09	4.50E+06
9.95E-15	2.29E-07	7.44E+05	1.70E+13	2.28E+08	2.19E+05	5.01E+12	1.96E+08
5.62E-04	8.85E+03	6.04E+05	9.52E+12	1.38E+08	4.01E+05	6.32E+12	5.72E+08
8.52E-18	1.40E-10	2.33E+05	3.81E+12	7.05E+07	5.38E+05	8.78E+12	1.27E+08
1.56E-06	1.39E+02	5.27E+05	4.69E+13	7.03E+07	5.09E+05	4.53E+13	4.29E+08
3.94E-07	7.26E+00	4.84E+05	8.93E+12	8.50E+07	5.40E+05	9.94E+12	3.61E+08
3.22E-06	4.22E+01	8.72E+05	1.14E+13	4.93E+07	1.67E+05	2.18E+12	2.29E+08
7.19E-26	8.04E-19	4.09E+05	4.53E+12	1.12E+08	8.64E+04	9.59E+11	1.65E+07
1.27E-05	1.96E+01	3.57E+05	5.50E+11	3.15E+07	6.45E+05	9.94E+11	2.72E+08
2.28E-07	1.60E+01	6.46E+05	4.54E+13	3.45E+07	3.93E+05	2.76E+13	3.24E+08
8.15E-09	7.93E-01	2.66E+05	2.59E+13	1.34E+08	5.79E+05	5.62E+13	4.99E+08
3.70E-13	4.58E-06	1.04E+06	1.28E+13	1.25E+08	4.60E+02	5.66E+09	2.05E+07
6.47E-06	2.45E+01	9.48E+05	3.58E+12	9.53E+07	8.64E+04	3.26E+11	2.31E+08
1.79E-05	7.20E+02	9.54E+05	3.85E+13	1.16E+08	8.47E+04	3.42E+12	3.95E+08
7.99E-10	2.13E-03	3.40E+05	9.02E+11	2.45E+07	6.64E+05	1.76E+12	1.88E+08
2.80E-42	3.83E-35	9.99E+05	1.36E+13	1.54E+08	0.00E+00	0.00E+00	0.00E+00
6.45E-11	4.97E-04	9.62E+05	7.38E+12	2.10E+08	6.61E+04	5.07E+11	1.60E+08
7.51E-09	5.59E-01	6.42E+05	4.76E+13	2.68E+07	3.79E+05	2.81E+13	2.45E+08
2.27E-07	8.52E-01	1.02E+06	3.82E+12	1.19E+08	1.51E+04	5.64E+10	6.43E+07
1.01E-04	2.32E+02	6.92E+05	1.59E+12	5.45E+07	3.38E+05	7.78E+11	2.87E+08
1.36E-12	6.44E-06	9.75E+05	4.61E+12	2.24E+08	4.27E+03	2.02E+10	5.40E+07
7.58E-07	2.82E+00	9.79E+05	3.63E+12	1.11E+08	5.56E+04	2.06E+11	2.14E+08
1.23E-29	7.25E-23	1.56E+05	9.16E+11	2.55E+07	7.15E+05	4.19E+12	1.05E+08
7.28E-07	1.81E+01	5.62E+05	1.40E+13	8.23E+07	4.26E+05	1.06E+13	3.99E+08
5.04E-09	8.32E-02	7.92E+05	1.31E+13	1.39E+08	2.24E+05	3.70E+12	2.55E+08
1.31E-11	4.32E-05	8.11E+05	2.67E+12	9.78E+07	1.99E+05	6.55E+11	2.35E+08
9.28E-06	4.57E+01	5.39E+05	2.66E+12	8.43E+07	4.93E+05	2.43E+12	3.35E+08
5.72E-18	3.74E-11	2.27E+05	1.48E+12	1.28E+07	7.62E+05	4.96E+12	1.27E+08
5.92E-12	4.67E-04	7.36E+05	5.77E+13	1.21E+08	2.66E+05	2.08E+13	1.37E+08
7.80E-23	1.23E-16	8.91E+04	1.40E+11	2.43E+07	6.25E+05	9.84E+11	1.70E+08
5.72E-06	6.10E+01	3.21E+05	3.42E+12	8.50E+07	6.53E+05	6.97E+12	4.82E+08
6.75E-06	1.05E+01	5.85E+05	9.09E+11	4.68E+07	4.40E+05	6.83E+11	1.76E+08
1.86E-08	2.37E-01	8.00E+05	1.02E+13	9.60E+07	2.25E+05	2.86E+12	4.00E+08
1.34E-19	1.45E-12	7.79E+04	8.41E+11	6.33E+07	7.64E+05	8.25E+12	2.54E+08
1.00E-10	4.15E-03	7.41E+05	3.07E+13	4.58E+07	2.65E+05	1.10E+13	1.53E+08
1.65E-32	7.07E-25	1.02E+06	4.37E+13	2.03E+08	6.04E+03	2.57E+11	2.73E+07
2.31E-30	1.09E-22	1.32E+05	6.17E+12	8.65E+07	3.68E+05	1.73E+13	1.44E+08
2.94E-06	4.48E+01	9.46E+05	1.44E+13	3.05E+08	4.78E+04	7.29E+11	3.40E+08
5.09E-15	6.68E-09	8.35E+05	1.09E+12	4.83E+07	1.96E+05	2.56E+11	7.20E+07
3.96E-06	2.43E+02	8.88E+05	5.44E+13	1.22E+08	1.45E+05	8.89E+12	6.78E+08
8.71E-07	4.86E+00	5.36E+05	2.99E+12	6.85E+07	4.90E+05	2.73E+12	2.50E+08
1.30E-07	8.54E+00	1.02E+06	6.68E+13	2.24E+08	1.54E+04	1.00E+12	1.48E+08
1.46E-15	2.07E-08	1.03E+06	1.44E+13	2.18E+08	9.10E+03	1.28E+11	6.83E+07
6.86E-15	1.77E-08	1.04E+06	2.66E+12	4.30E+07	0.00E+00	0.00E+00	0.00E+00
6.26E-08	1.04E-01	8.20E+05	1.36E+12	1.01E+08	1.94E+05	3.22E+11	2.04E+08
6.76E-11	5.20E-03	4.09E+05	3.13E+13	2.45E+07	6.09E+05	4.65E+13	2.35E+08
5.69E-08	5.34E+00	6.09E+05	5.69E+13	2.11E+08	4.29E+05	4.02E+13	3.79E+08
4.56E-12	1.04E-04	1.03E+06	2.34E+13	1.97E+08	5.45E+03	1.24E+11	4.25E+07

1.38E-05	5.83E+02	7.30E+05	3.08E+13	1.31E+08	2.47E+05	1.04E+13	5.72E+08
3.37E-13	8.89E-06	9.27E+05	2.43E+13	2.13E+08	3.31E+04	8.67E+11	2.43E+07
2.10E-07	8.80E-01	6.59E+05	2.74E+12	3.98E+07	3.79E+05	1.58E+12	1.43E+08
1.69E-12	2.39E-06	9.49E+05	1.34E+12	8.00E+07	7.96E+04	1.12E+11	3.00E+07
1.67E-09	5.83E-02	7.02E+05	2.44E+13	4.15E+07	3.37E+05	1.17E+13	2.11E+08
1.07E-19	2.17E-12	8.83E+05	1.78E+13	1.33E+08	2.46E+04	4.94E+11	1.50E+07
2.10E-35	7.87E-29	9.85E+05	3.66E+12	1.87E+08	1.23E+03	4.56E+09	4.25E+06
1.26E-09	1.20E-01	9.61E+05	9.15E+13	2.88E+08	6.57E+04	6.25E+12	3.23E+08
3.81E-25	1.22E-17	9.49E+05	3.02E+13	1.09E+08	4.54E+04	1.44E+12	1.95E+07
6.75E-08	2.43E+00	5.27E+05	1.90E+13	1.34E+08	2.95E+05	1.06E+13	3.38E+08
2.40E-05	1.88E+03	4.26E+05	3.35E+13	2.00E+08	5.81E+05	4.55E+13	9.41E+08
1.18E-10	2.15E-04	9.92E+05	1.80E+12	2.28E+08	7.32E+03	1.32E+10	2.23E+07
8.32E-20	2.15E-13	9.66E+05	2.47E+12	1.58E+08	0.00E+00	0.00E+00	0.00E+00
4.95E-09	6.39E-03	8.57E+05	1.10E+12	1.48E+08	1.35E+05	1.73E+11	1.11E+08
7.00E-08	5.80E-01	9.48E+05	7.83E+12	1.21E+08	8.74E+04	7.22E+11	2.84E+08
3.05E-05	1.32E+03	8.68E+05	3.78E+13	1.90E+08	1.67E+05	7.25E+12	7.75E+08
7.85E-26	2.09E-18	1.04E+06	2.75E+13	8.28E+07	2.35E+01	6.22E+08	2.25E+06
1.62E-06	2.02E+00	9.74E+05	1.22E+12	1.29E+08	5.45E+04	6.80E+10	4.90E+07
9.22E-07	2.16E+00	5.94E+05	1.39E+12	4.05E+07	4.40E+05	1.03E+12	1.70E+08
4.25E-08	1.51E+00	2.45E+05	8.68E+12	4.78E+07	6.57E+05	2.33E+13	2.95E+08
9.71E-11	2.37E-03	9.12E+05	2.21E+13	2.04E+08	1.23E+05	2.99E+12	1.21E+08
1.44E-08	6.11E-01	1.03E+06	4.36E+13	1.09E+08	4.64E+03	1.95E+11	7.93E+07
1.53E-08	1.70E+00	8.03E+05	8.96E+13	2.46E+08	1.80E+05	2.01E+13	7.73E+08
2.39E-07	4.05E-01	7.60E+05	1.28E+12	1.63E+07	2.76E+05	4.66E+11	7.00E+07
1.57E-07	8.11E-01	9.72E+05	5.01E+12	1.61E+08	6.27E+04	3.23E+11	1.48E+08
5.35E-12	6.21E-06	9.26E+05	1.07E+12	1.58E+08	9.44E+03	1.09E+10	3.95E+07
1.23E-11	1.15E-03	5.26E+05	4.91E+13	1.73E+08	4.03E+05	3.76E+13	1.85E+08
2.47E-19	4.37E-12	6.11E+05	1.07E+13	2.37E+08	2.62E+05	4.59E+12	2.06E+08
3.43E-16	2.22E-08	1.01E+06	6.54E+13	5.23E+07	2.73E+04	1.76E+12	7.15E+07
1.53E-06	1.02E+01	2.66E+05	1.77E+12	3.65E+07	7.34E+05	4.88E+12	3.11E+08
1.64E-11	1.76E-03	5.33E+05	5.69E+13	1.48E+07	5.06E+05	5.40E+13	2.32E+08
3.26E-13	1.15E-06	6.35E+05	2.22E+12	3.75E+07	4.01E+05	1.40E+12	9.33E+07
1.30E-06	1.23E+02	5.78E+05	5.46E+13	1.54E+08	4.54E+05	4.29E+13	4.50E+08
1.35E-07	5.86E-01	9.63E+05	4.17E+12	1.90E+07	7.61E+04	3.30E+11	5.03E+07
2.78E-06	3.32E+00	8.01E+05	9.57E+11	5.93E+07	2.26E+05	2.70E+11	9.30E+07
7.45E-13	4.85E-05	9.68E+05	6.27E+13	2.32E+08	2.82E+04	1.83E+12	9.83E+07
1.02E-05	8.93E+02	9.33E+05	8.16E+13	4.75E+07	1.07E+05	9.33E+12	2.92E+08
4.87E-08	1.32E+00	1.03E+06	2.78E+13	1.68E+08	6.87E+03	1.85E+11	1.52E+08
1.89E-03	9.52E+04	5.11E+05	2.58E+13	6.33E+07	5.25E+05	2.64E+13	7.61E+08
3.09E-09	1.10E-01	1.01E+06	3.57E+13	8.85E+07	3.00E+04	1.06E+12	5.88E+07
2.88E-13	7.19E-06	1.03E+06	2.57E+13	1.45E+08	4.91E+03	1.22E+11	6.48E+07
2.51E-10	9.51E-03	6.76E+05	2.55E+13	1.04E+08	3.02E+05	1.14E+13	2.31E+08
1.22E-20	2.15E-14	1.04E+06	1.82E+12	7.20E+07	1.05E+03	1.84E+09	7.25E+06
1.14E-10	3.43E-03	6.40E+05	1.93E+13	2.65E+08	2.85E+05	8.57E+12	2.27E+08
8.95E-24	2.44E-16	9.87E+05	2.67E+13	7.95E+07	7.44E+01	2.01E+09	2.75E+06
3.57E-06	1.07E+01	1.01E+06	3.05E+12	5.68E+07	2.26E+04	6.79E+10	7.35E+07
4.39E-08	4.35E-01	8.19E+05	8.09E+12	7.43E+07	2.20E+05	2.17E+12	1.49E+08
9.16E-08	2.08E+00	4.27E+05	9.68E+12	1.58E+08	4.36E+05	9.88E+12	3.40E+08
1.26E-24	1.05E-16	8.09E+05	6.72E+13	2.08E+08	5.60E+03	4.65E+11	3.98E+07
1.66E-08	2.44E-01	7.54E+05	1.10E+13	2.36E+08	2.42E+05	3.53E+12	2.53E+08
1.93E-08	1.92E-01	9.26E+05	9.16E+12	2.84E+08	7.61E+04	7.53E+11	1.88E+08
5.84E-07	2.77E+01	8.03E+05	3.81E+13	1.66E+08	2.36E+05	1.12E+13	5.81E+08
2.23E-05	6.89E+01	9.47E+05	2.92E+12	5.08E+07	8.97E+04	2.77E+11	1.20E+08
2.30E-09	5.26E-02	3.80E+04	8.69E+11	1.08E+07	9.72E+05	2.22E+13	3.09E+08
6.03E-08	9.52E-01	3.71E+05	5.84E+12	5.45E+07	6.64E+05	1.05E+13	2.78E+08
1.75E-16	2.88E-09	3.00E+05	4.90E+12	4.15E+07	5.14E+05	8.40E+12	1.17E+08
4.26E-07	3.79E+01	1.62E+05	1.44E+13	2.43E+07	8.09E+05	7.20E+13	5.45E+08
3.20E-09	5.89E-02	8.93E+05	1.65E+13	2.37E+08	1.35E+05	2.49E+12	3.54E+08
1.19E-10	1.57E-03	1.04E+06	1.36E+13	9.08E+07	1.08E+03	1.41E+10	3.50E+07
5.37E-32	6.00E-25	4.62E+05	5.12E+12	1.36E+08	4.24E+03	4.71E+10	2.75E+07
8.40E-06	1.29E+01	9.58E+05	1.48E+12	1.21E+08	7.26E+04	1.12E+11	6.95E+07

1.83E-32	1.29E-24	1.02E+06	7.17E+13	2.00E+08	5.53E+03	3.88E+11	4.48E+07
7.11E-05	6.91E+03	2.55E+05	2.47E+13	8.65E+07	7.50E+05	7.28E+13	8.89E+08
1.55E-14	1.91E-07	1.04E+06	1.28E+13	1.66E+08	1.88E+03	2.31E+10	5.10E+07
8.88E-12	3.38E-05	1.03E+06	3.88E+12	1.65E+08	1.04E+03	3.94E+09	1.03E+07
1.50E-12	6.10E-05	1.02E+06	4.13E+13	1.90E+08	1.11E+04	4.48E+11	4.85E+07
1.03E-08	2.74E-02	1.03E+06	2.73E+12	2.26E+08	4.77E+03	1.27E+10	3.83E+07
1.20E-22	1.65E-15	9.96E+05	1.35E+13	2.09E+08	9.69E+02	1.32E+10	2.73E+07
2.14E-06	1.64E+01	4.45E+05	3.42E+12	4.53E+07	5.61E+05	4.30E+12	3.03E+08
1.21E-17	9.06E-10	9.10E+05	6.75E+13	1.43E+08	1.16E+05	8.60E+12	1.21E+08
1.12E-06	4.19E+00	3.33E+05	1.24E+12	5.88E+07	6.14E+05	2.29E+12	4.77E+08
1.53E-07	3.54E-01	3.91E+05	9.01E+11	2.50E+07	6.34E+05	1.46E+12	2.15E+08
1.09E-13	5.17E-07	5.02E+05	2.37E+12	1.05E+08	4.20E+05	1.98E+12	1.73E+08
2.46E-10	9.18E-04	8.75E+05	3.25E+12	1.51E+08	1.59E+05	5.91E+11	1.10E+08
2.64E-06	1.55E+01	9.91E+05	5.81E+12	1.31E+08	4.58E+04	2.69E+11	2.17E+08
4.59E-17	1.14E-09	7.21E+05	1.79E+13	2.18E+08	2.46E+05	6.11E+12	2.01E+08
1.36E-11	2.25E-04	9.29E+05	1.53E+13	2.16E+08	9.56E+04	1.58E+12	2.27E+08
2.22E-10	7.36E-04	7.94E+05	2.62E+12	1.28E+08	2.21E+05	7.29E+11	1.91E+08
6.74E-08	3.32E-01	2.96E+05	1.46E+12	1.33E+08	6.28E+05	3.10E+12	3.55E+08
2.13E-06	1.39E+01	1.02E+06	6.66E+12	7.58E+07	1.50E+04	9.77E+10	8.45E+07
6.08E-10	4.76E-02	5.14E+05	4.03E+13	6.40E+07	5.10E+05	3.99E+13	7.03E+08
1.07E-08	1.69E-02	5.90E+05	9.29E+11	5.53E+07	4.32E+05	6.79E+11	1.74E+08
1.99E-09	2.13E-02	1.02E+06	1.08E+13	2.63E+08	9.95E+03	1.06E+11	1.35E+08
9.37E-08	1.46E-01	1.01E+06	1.56E+12	8.30E+07	2.86E+04	4.45E+10	3.10E+07
5.41E-05	6.87E+02	9.11E+05	1.16E+13	2.29E+08	1.25E+05	1.59E+12	3.70E+08
9.41E-07	1.02E+01	6.63E+05	7.16E+12	1.70E+08	3.73E+05	4.02E+12	3.26E+08
1.97E-07	8.21E+00	1.04E+06	4.29E+13	6.35E+07	2.92E+03	1.21E+11	7.13E+07
1.19E-14	5.12E-07	1.02E+06	4.37E+13	2.20E+08	2.74E+00	1.17E+08	7.50E+05
5.66E-10	2.66E-02	6.94E+05	3.25E+13	2.36E+08	6.26E+04	2.94E+12	1.82E+08
5.93E-11	9.10E-04	7.97E+05	1.22E+13	1.96E+08	1.94E+05	2.96E+12	3.23E+08
8.42E-09	1.10E-02	1.02E+06	1.33E+12	3.20E+07	1.80E+04	2.35E+10	1.35E+07
1.20E-15	7.41E-08	1.01E+06	6.20E+13	2.00E+08	1.45E+02	8.86E+09	9.25E+06
1.40E-13	7.85E-07	9.35E+05	5.22E+12	1.57E+08	1.99E+04	1.11E+11	2.48E+07
2.06E-07	1.35E+01	9.86E+05	6.43E+13	9.55E+07	5.38E+04	3.51E+12	2.11E+08
3.85E-22	5.46E-15	4.04E+05	5.69E+12	3.48E+07	4.59E+05	6.46E+12	4.68E+07
1.35E-51	3.47E-45	6.33E+05	1.62E+12	3.15E+07	3.49E+05	8.93E+11	3.93E+07
1.76E-06	2.92E+00	7.32E+05	1.22E+12	1.50E+08	2.87E+05	4.78E+11	3.19E+08
1.63E-07	1.25E+01	1.02E+06	7.80E+13	1.85E+08	1.81E+04	1.38E+12	1.80E+08
1.63E-08	1.52E+00	4.44E+05	4.16E+13	1.23E+08	5.43E+05	5.08E+13	9.41E+08
3.53E-07	8.05E+00	1.01E+06	2.30E+13	2.21E+08	2.69E+04	6.12E+11	2.66E+08
2.52E-11	1.07E-03	6.61E+05	2.79E+13	1.89E+08	2.77E+05	1.17E+13	1.25E+08
5.80E-13	1.53E-05	9.87E+05	2.59E+13	2.54E+08	8.76E+03	2.29E+11	1.45E+08
1.42E-17	5.95E-11	1.04E+06	4.31E+12	1.14E+08	6.87E+02	2.86E+09	7.25E+06
4.46E-14	6.30E-08	8.85E+05	1.24E+12	3.68E+07	1.42E+05	2.00E+11	9.28E+07
8.91E-13	3.11E-05	1.01E+06	3.51E+13	1.76E+08	2.35E+04	8.16E+11	7.48E+07
8.69E-33	1.76E-25	8.31E+05	1.67E+13	1.79E+08	0.00E+00	0.00E+00	0.00E+00
2.26E-08	8.43E-02	7.62E+05	2.83E+12	3.75E+07	2.75E+05	1.02E+12	1.01E+08
2.51E-10	2.40E-02	5.73E+05	5.45E+13	2.67E+08	4.34E+05	4.13E+13	2.86E+08
1.18E-13	3.79E-06	1.04E+06	3.31E+13	1.97E+08	8.70E+01	2.77E+09	1.20E+07
8.27E-17	2.97E-09	4.60E+05	1.66E+13	1.59E+08	3.90E+05	1.40E+13	3.83E+08
2.83E-05	2.22E+03	8.74E+05	6.86E+13	2.99E+08	1.62E+05	1.27E+13	8.76E+08
1.08E-05	1.95E+01	4.92E+05	8.90E+11	5.53E+07	4.76E+05	8.61E+11	2.27E+08
1.48E-07	3.81E-01	8.92E+05	2.29E+12	1.53E+08	1.40E+05	3.58E+11	1.64E+08
7.84E-06	1.01E+01	8.09E+05	1.04E+12	1.06E+08	2.10E+05	2.70E+11	2.36E+08
2.15E-05	1.78E+02	6.71E+05	5.54E+12	5.53E+07	3.67E+05	3.03E+12	3.00E+08
1.35E-08	5.88E-01	9.89E+05	4.30E+13	3.00E+08	4.32E+03	1.88E+11	2.10E+08
1.24E-07	3.28E+00	1.04E+06	2.75E+13	1.17E+08	1.15E+03	3.06E+10	3.55E+07
4.73E-12	5.93E-06	1.03E+06	1.29E+12	1.27E+08	0.00E+00	0.00E+00	0.00E+00
4.94E-05	1.16E+02	6.47E+05	1.51E+12	8.95E+07	3.81E+05	8.92E+11	2.96E+08
1.57E-10	5.61E-03	8.97E+05	3.18E+13	2.68E+08	1.37E+05	4.86E+12	3.27E+08
1.35E-09	3.28E-02	4.35E+05	1.06E+13	2.35E+07	5.99E+05	1.45E+13	2.66E+08
3.63E-59	1.54E-51	9.40E+05	3.96E+13	9.00E+07	0.00E+00	0.00E+00	0.00E+00

3.84E-17	4.31E-09	8.77E+05	9.78E+13	2.19E+08	1.25E+04	1.40E+12	3.85E+07
5.37E-11	9.12E-05	1.02E+06	1.72E+12	2.50E+07	1.96E+04	3.31E+10	1.80E+07
9.24E-10	4.77E-03	7.02E+05	3.62E+12	1.59E+08	3.16E+05	1.63E+12	2.44E+08
9.95E-09	1.16E-02	1.01E+06	1.17E+12	8.33E+07	2.28E+04	2.63E+10	2.18E+07
5.86E-07	5.48E+01	1.01E+06	9.44E+13	1.84E+08	2.84E+04	2.65E+12	5.04E+08
8.40E-20	1.48E-12	6.47E+04	1.14E+12	2.08E+07	5.33E+05	9.35E+12	1.06E+08
8.60E-11	5.59E-03	1.04E+06	6.70E+13	8.18E+07	1.42E+02	9.19E+09	2.73E+07
6.59E-08	4.39E-01	1.00E+06	6.66E+12	1.63E+08	3.51E+04	2.34E+11	2.14E+08
1.02E-28	1.09E-20	1.03E+06	1.10E+14	1.46E+08	6.17E-01	6.58E+07	5.00E+05
3.07E-08	1.08E-01	1.04E+06	3.63E+12	1.01E+08	6.61E+02	2.31E+09	1.15E+07
5.30E-07	5.01E+01	4.77E+05	4.51E+13	1.10E+08	5.54E+05	5.24E+13	3.96E+08
2.22E-09	9.69E-03	1.04E+06	4.50E+12	5.50E+07	4.67E+01	2.02E+08	1.50E+06
1.02E-07	1.23E-01	9.00E+05	1.08E+12	2.88E+07	1.35E+05	1.62E+11	4.90E+07
3.47E-11	2.26E-03	8.16E+05	5.29E+13	2.52E+08	2.72E+04	1.76E+12	2.95E+07
8.65E-08	7.60E+00	8.96E+05	7.84E+13	7.68E+07	1.43E+05	1.25E+13	2.01E+08
3.76E-18	1.02E-10	3.09E+04	8.33E+11	5.25E+06	9.90E+05	2.66E+13	1.14E+08
7.89E-11	4.00E-03	9.96E+05	5.02E+13	2.48E+08	3.72E+04	1.87E+12	1.76E+08
1.33E-11	4.72E-04	1.04E+06	3.67E+13	8.70E+07	2.44E+02	8.63E+09	1.23E+07
2.89E-10	7.23E-03	9.79E+05	2.43E+13	3.88E+07	6.08E+04	1.51E+12	6.28E+07
2.83E-08	1.07E+00	1.03E+06	3.88E+13	2.92E+08	4.03E+03	1.52E+11	1.52E+08
5.37E-19	9.50E-13	6.69E+05	1.18E+12	9.50E+06	3.68E+05	6.45E+11	7.23E+07
4.28E-05	1.29E+03	7.11E+05	2.14E+13	1.62E+08	3.10E+05	9.34E+12	1.01E+09
7.18E-12	1.95E-04	9.91E+05	2.68E+13	1.58E+08	4.76E+04	1.29E+12	2.12E+08
1.92E-21	5.82E-15	1.02E+06	3.08E+12	8.93E+07	0.00E+00	0.00E+00	0.00E+00
1.75E-22	1.74E-15	9.43E+05	9.31E+12	1.64E+08	2.27E+02	2.24E+09	5.75E+06
8.64E-05	1.96E+03	2.01E+05	4.57E+12	9.78E+07	7.69E+05	1.74E+13	7.27E+08
3.84E-10	3.20E-02	1.00E+06	8.32E+13	2.84E+08	5.02E+03	4.16E+11	1.85E+08
7.76E-06	1.13E+02	3.66E+05	5.35E+12	6.03E+07	6.22E+05	9.09E+12	5.71E+08
5.09E-06	5.04E+01	7.38E+05	7.30E+12	9.53E+07	2.99E+05	2.96E+12	2.96E+08
1.50E-15	7.15E-08	9.96E+05	4.73E+13	1.99E+08	6.29E+01	2.98E+09	4.75E+06
2.83E-32	8.79E-26	1.03E+06	3.19E+12	8.18E+07	0.00E+00	0.00E+00	0.00E+00
1.04E-06	2.39E+01	9.48E+05	2.17E+13	1.36E+08	9.05E+04	2.07E+12	5.09E+08
6.64E-14	1.05E-06	9.91E+05	1.56E+13	1.72E+08	1.50E+03	2.37E+10	1.48E+07
3.09E-23	5.08E-16	9.13E+05	1.49E+13	2.06E+08	3.21E+03	5.24E+10	3.43E+07
4.84E-09	4.32E-01	9.68E+05	8.62E+13	2.91E+08	6.90E+04	6.14E+12	2.17E+08
2.75E-05	5.07E+02	4.76E+05	8.77E+12	6.83E+07	4.79E+05	8.83E+12	7.25E+08
1.04E-06	1.36E+01	9.78E+05	1.28E+13	7.48E+07	6.02E+04	7.86E+11	2.26E+08
1.27E-32	1.41E-25	6.23E+02	6.93E+09	3.75E+06	5.16E+05	5.72E+12	1.43E+08
2.59E-05	4.00E+01	9.59E+05	1.48E+12	9.35E+07	6.93E+04	1.07E+11	1.39E+08
3.55E-09	2.50E-01	7.53E+05	5.29E+13	6.83E+07	2.86E+05	2.01E+13	2.27E+08
2.36E-08	2.29E+00	5.47E+05	5.31E+13	1.11E+08	3.67E+05	3.56E+13	3.06E+08
9.10E-06	1.12E+02	9.87E+05	1.21E+13	1.15E+08	5.12E+04	6.29E+11	1.77E+08
1.82E-05	6.88E+01	9.79E+05	3.70E+12	1.80E+08	5.38E+04	2.03E+11	1.86E+08
3.26E-07	1.32E+01	1.03E+06	4.16E+13	1.32E+08	8.05E+03	3.25E+11	1.73E+08
2.35E-07	6.26E-01	9.41E+05	2.50E+12	1.05E+08	8.45E+04	2.24E+11	9.45E+07
1.73E-12	2.37E-05	1.03E+06	1.40E+13	1.64E+08	6.41E+03	8.71E+10	2.83E+07
4.45E-06	3.41E+01	8.11E+05	6.22E+12	9.03E+07	2.20E+05	1.68E+12	3.07E+08
3.93E-09	2.93E-01	8.83E+05	6.55E+13	6.10E+07	1.57E+05	1.16E+13	1.69E+08
1.05E-12	3.93E-06	5.81E+05	2.17E+12	1.13E+08	4.32E+05	1.61E+12	1.03E+08
1.63E-07	3.76E-01	2.71E+05	6.24E+11	2.90E+07	7.63E+05	1.76E+12	1.75E+08
1.99E-22	9.46E-16	8.32E+05	3.93E+12	2.10E+08	3.34E+04	1.58E+11	4.18E+07
4.95E-11	1.85E-04	8.76E+05	3.25E+12	1.26E+08	1.43E+05	5.31E+11	7.38E+07
2.22E-07	1.31E+00	9.29E+05	5.45E+12	6.55E+07	1.10E+05	6.42E+11	1.15E+08
6.80E-15	1.70E-07	9.13E+05	2.27E+13	2.13E+08	6.64E+01	1.65E+09	5.50E+06
3.14E-10	5.20E-03	9.16E+05	1.51E+13	2.36E+08	6.05E+04	9.98E+11	1.53E+08
3.73E-06	1.23E+01	8.32E+05	2.74E+12	1.23E+08	1.96E+05	6.45E+11	3.48E+08
1.75E-06	8.64E+00	2.12E+05	1.04E+12	5.75E+07	7.85E+05	3.87E+12	2.51E+08
4.85E-06	3.16E+01	1.01E+06	6.56E+12	6.58E+07	3.06E+04	1.99E+11	1.06E+08
1.67E-06	1.31E+02	9.95E+05	7.80E+13	2.83E+08	3.90E+04	3.05E+12	5.39E+08
3.23E-17	5.11E-11	7.35E+05	1.16E+12	1.10E+08	2.10E+05	3.31E+11	3.80E+07
2.41E-18	2.59E-11	9.62E+05	1.03E+13	1.77E+08	2.04E+01	2.18E+08	1.00E+06

3.61E-07	5.61E-01	3.47E+05	5.38E+11	1.38E+07	6.87E+05	1.07E+12	1.33E+08
7.52E-12	9.61E-05	9.66E+05	1.23E+13	2.38E+08	6.28E+04	7.98E+11	1.16E+08
9.98E-06	1.08E+02	7.49E+05	8.08E+12	1.17E+08	2.66E+05	2.87E+12	3.37E+08
1.95E-07	8.10E+00	1.03E+06	4.28E+13	1.34E+08	5.35E+03	2.21E+11	1.14E+08
1.33E-18	5.71E-11	9.93E+05	4.24E+13	6.60E+07	4.53E+04	1.93E+12	1.78E+08
4.25E-04	1.99E+04	5.00E+05	2.35E+13	2.12E+08	4.78E+05	2.24E+13	1.04E+09
9.85E-13	1.51E-05	9.79E+05	1.49E+13	2.16E+08	3.98E+03	6.07E+10	2.18E+07
1.33E-19	1.74E-13	1.03E+06	1.35E+12	6.63E+07	1.81E+02	2.35E+08	1.50E+06
1.39E-11	8.57E-04	1.00E+06	6.14E+13	2.66E+08	3.46E+04	2.12E+12	2.22E+08
3.00E-04	1.67E+03	7.54E+05	4.21E+12	1.22E+08	2.77E+05	1.55E+12	5.59E+08
1.40E-05	9.13E+02	8.23E+05	5.37E+13	7.83E+07	2.15E+05	1.40E+13	3.60E+08
4.16E-08	5.88E-01	1.04E+06	1.46E+13	1.41E+08	2.58E+03	3.63E+10	8.25E+07
7.90E-18	2.04E-11	1.04E+06	2.65E+12	5.78E+07	2.77E+03	7.08E+09	9.75E+06
1.17E-06	1.95E+00	1.55E+05	2.58E+11	2.68E+07	7.54E+05	1.25E+12	2.73E+08
3.53E-38	2.71E-30	9.79E+05	7.48E+13	1.79E+08	1.50E+04	1.15E+12	4.50E+07
2.40E-07	2.24E+01	8.92E+05	8.34E+13	3.10E+08	1.46E+05	1.37E+13	6.22E+08
2.08E-10	4.75E-03	1.01E+06	2.30E+13	2.70E+08	1.34E+04	3.05E+11	6.53E+07
1.11E-07	4.71E+00	1.02E+06	4.28E+13	2.13E+08	2.40E+04	1.01E+12	4.51E+08
1.43E-34	3.76E-27	3.02E+05	7.91E+12	4.45E+07	3.22E+05	8.43E+12	1.07E+08
1.51E-09	6.33E-03	9.42E+05	3.92E+12	4.08E+07	9.69E+04	4.03E+11	5.75E+07
6.42E-08	9.07E-02	9.84E+05	1.38E+12	6.10E+07	4.91E+04	6.90E+10	7.55E+07
1.96E-11	6.85E-04	4.79E+05	1.66E+13	1.78E+07	5.49E+05	1.91E+13	1.70E+08
2.04E-16	4.13E-09	9.68E+05	1.95E+13	2.33E+08	4.16E+04	8.36E+11	7.33E+07
3.17E-14	1.18E-07	5.98E+05	2.22E+12	7.05E+07	3.84E+05	1.43E+12	1.25E+08
2.22E-06	2.11E+02	6.18E+05	5.88E+13	1.79E+08	4.19E+05	3.99E+13	8.40E+08
2.52E-06	8.02E+01	9.74E+05	3.10E+13	1.89E+08	6.50E+04	2.07E+12	4.17E+08
5.66E-06	2.03E+02	2.29E+05	8.24E+12	5.78E+07	5.72E+05	2.06E+13	6.89E+08
1.05E-07	8.20E+00	5.90E+05	4.63E+13	2.83E+08	4.36E+05	3.42E+13	6.89E+08
5.27E-16	9.59E-10	3.40E+05	6.16E+11	5.23E+07	7.84E+04	1.42E+11	9.25E+06
5.38E-10	1.39E-03	9.50E+05	2.43E+12	2.47E+08	3.33E+04	8.53E+10	7.63E+07
8.14E-06	1.05E+01	6.07E+05	7.82E+11	8.60E+07	2.91E+05	3.74E+11	1.51E+08
3.17E-16	2.64E-09	9.93E+05	8.20E+12	2.21E+08	5.39E+02	4.45E+09	2.03E+07
1.04E-04	4.50E+03	3.44E+05	1.50E+13	9.35E+07	6.48E+05	2.82E+13	8.07E+08
6.88E-53	1.84E-45	5.28E+05	1.40E+13	2.63E+07	4.42E+05	1.17E+13	7.75E+07
9.98E-08	1.24E-01	6.98E+04	8.72E+10	1.03E+07	8.70E+05	1.09E+12	1.79E+08
5.31E-12	1.24E-05	7.78E+05	1.82E+12	1.22E+08	4.80E+04	1.12E+11	1.03E+08
1.26E-04	4.45E+03	4.10E+05	1.45E+13	8.23E+07	4.47E+05	1.59E+13	5.65E+08
1.66E-05	4.03E+02	8.22E+05	1.99E+13	1.88E+08	1.86E+05	4.52E+12	2.67E+08
8.23E-10	3.48E-02	1.04E+06	4.37E+13	2.13E+08	6.02E+01	2.53E+09	1.33E+07
5.67E-09	6.35E-01	8.80E+05	9.82E+13	2.97E+08	9.97E+04	1.11E+13	6.75E+08
1.65E-13	2.80E-07	1.03E+06	1.73E+12	4.43E+07	1.01E+04	1.70E+10	1.63E+07
1.41E-05	7.27E+01	2.49E+05	1.28E+12	7.40E+07	6.30E+05	3.25E+12	4.95E+08
2.41E-22	2.79E-16	3.89E+05	4.49E+11	9.38E+07	4.60E+05	5.31E+11	9.03E+07
3.25E-07	3.04E+01	8.57E+05	7.99E+13	1.96E+08	1.77E+05	1.65E+13	3.99E+08
4.52E-05	7.92E+02	5.41E+05	9.51E+12	1.81E+08	4.93E+05	8.65E+12	5.43E+08
1.17E-07	7.61E+00	1.03E+06	6.67E+13	6.30E+07	5.61E+03	3.61E+11	1.14E+08
2.83E-24	1.90E-17	1.88E+04	1.25E+11	3.13E+07	6.47E+05	4.31E+12	9.73E+07
5.82E-17	6.25E-09	1.04E+06	1.11E+14	1.34E+08	2.86E+03	3.06E+11	3.15E+07
1.13E-06	3.95E+00	9.70E+05	3.39E+12	1.06E+08	6.53E+04	2.28E+11	1.23E+08
1.22E-27	1.16E-19	4.95E+04	4.68E+12	6.43E+07	6.25E+05	5.91E+13	1.75E+08
2.84E-15	1.23E-08	1.01E+06	4.39E+12	7.58E+07	2.51E+04	1.09E+11	6.85E+07
1.26E-32	1.52E-26	1.00E+06	1.20E+12	1.31E+08	0.00E+00	0.00E+00	0.00E+00
2.90E-14	1.89E-06	9.44E+05	6.11E+13	2.41E+08	1.40E+04	9.05E+11	1.20E+08
2.66E-10	2.34E-02	1.03E+06	9.01E+13	9.63E+07	8.39E+03	7.33E+11	1.88E+08
1.22E-15	3.32E-08	1.03E+06	2.78E+13	1.74E+08	2.68E+03	7.20E+10	5.05E+07
4.90E-08	2.48E+00	6.87E+05	3.46E+13	1.39E+08	3.26E+05	1.64E+13	4.33E+08
1.02E-18	3.64E-11	1.04E+06	3.66E+13	8.48E+07	3.02E+03	1.07E+11	3.78E+07
2.00E-18	5.00E-11	1.01E+06	2.51E+13	9.13E+07	2.68E+04	6.64E+11	6.18E+07
1.74E-06	6.54E+01	8.47E+05	3.19E+13	8.55E+07	1.89E+05	7.10E+12	5.20E+08
4.87E-11	8.60E-05	9.50E+05	1.67E+12	1.53E+07	8.76E+04	1.54E+11	2.90E+07
1.65E-05	4.96E+02	7.63E+05	2.30E+13	3.18E+08	2.63E+05	7.90E+12	7.88E+08

2.47E-09	6.69E-02	1.03E+06	2.80E+13	1.30E+08	5.87E+03	1.59E+11	1.29E+08
1.27E-09	3.83E-03	1.04E+06	3.12E+12	9.03E+07	3.39E+02	1.02E+09	5.75E+06
5.90E-08	5.85E-01	8.62E+05	8.51E+12	1.27E+08	1.77E+05	1.74E+12	1.88E+08
7.74E-08	1.76E+00	1.02E+06	2.31E+13	2.60E+08	1.75E+04	3.97E+11	3.01E+08
6.22E-05	5.16E+03	3.30E+05	2.74E+13	5.78E+07	7.06E+05	5.86E+13	8.36E+08
1.31E-03	1.92E+04	5.80E+05	8.47E+12	8.63E+07	4.55E+05	6.65E+12	6.28E+08
3.88E-07	3.84E+00	6.17E+05	6.11E+12	2.15E+08	3.07E+05	3.04E+12	3.34E+08
1.85E-06	8.76E+01	9.12E+05	4.33E+13	2.00E+08	1.25E+05	5.92E+12	4.33E+08
8.76E-18	2.72E-11	1.04E+06	3.20E+12	6.18E+07	2.85E+02	8.77E+08	4.25E+06
1.09E-04	2.50E+03	4.91E+05	1.12E+13	8.70E+07	5.34E+05	1.22E+13	8.93E+08
7.53E-10	1.19E-02	7.75E+05	1.22E+13	2.23E+08	2.35E+05	3.70E+12	1.93E+08
3.10E-06	5.06E+01	1.27E+05	2.07E+12	3.95E+07	9.02E+05	1.47E+13	4.53E+08
2.00E-06	1.79E+02	3.57E+05	3.18E+13	7.98E+07	6.60E+05	5.88E+13	5.81E+08
4.16E-15	7.72E-08	8.22E+05	1.52E+13	1.72E+08	2.89E+01	5.32E+08	2.00E+06
2.22E-17	2.92E-10	1.04E+06	1.36E+13	1.07E+08	1.75E+02	2.28E+09	7.00E+06
2.20E-06	2.44E+01	9.87E+05	1.10E+13	2.30E+08	4.85E+04	5.38E+11	3.95E+08
3.56E-12	5.52E-06	1.03E+06	1.58E+12	1.13E+08	3.15E+03	4.85E+09	9.75E+06
1.16E-05	8.11E+02	8.94E+05	6.27E+13	6.35E+07	1.45E+05	1.02E+13	4.89E+08
7.41E-06	7.19E+02	5.83E+05	5.67E+13	2.05E+08	4.42E+05	4.29E+13	7.19E+08
2.59E-27	3.21E-20	9.85E+05	1.21E+13	7.33E+07	3.04E+00	3.74E+07	2.50E+05
1.46E-20	5.57E-14	9.50E+05	3.59E+12	2.00E+08	6.41E+03	2.42E+10	1.88E+07
3.44E-08	1.39E+00	7.58E+05	3.06E+13	6.03E+07	2.75E+05	1.11E+13	2.82E+08
2.13E-04	5.67E+02	7.59E+05	2.02E+12	8.90E+07	2.71E+05	7.20E+11	3.28E+08
1.36E-05	1.85E+02	9.68E+05	1.32E+13	6.93E+07	7.09E+04	9.64E+11	2.23E+08
1.08E-20	8.33E-14	9.97E+05	7.64E+12	1.43E+08	2.89E+03	2.21E+10	2.00E+07
1.16E-08	8.68E-01	1.03E+06	7.62E+13	8.60E+07	1.16E+04	8.63E+11	1.24E+08
5.04E-07	1.89E+00	7.11E+05	2.66E+12	7.68E+07	3.25E+05	1.22E+12	1.49E+08
3.74E-10	8.67E-04	6.40E+05	1.47E+12	3.10E+07	3.65E+05	8.42E+11	1.13E+08
3.09E-14	1.47E-07	8.39E+05	3.97E+12	1.47E+08	6.09E+01	2.88E+08	1.00E+06
5.44E-14	2.03E-07	1.01E+06	3.76E+12	1.86E+08	9.29E+03	3.44E+10	6.45E+07
5.89E-07	3.45E+00	5.67E+05	3.33E+12	2.15E+07	4.71E+05	2.76E+12	1.82E+08
6.60E-10	1.65E-02	9.47E+05	2.35E+13	2.71E+08	3.58E+04	8.90E+11	1.46E+08
7.99E-12	1.32E-04	8.72E+05	1.44E+13	1.53E+08	1.30E+05	2.14E+12	1.04E+08
4.06E-09	1.34E-02	1.02E+06	3.37E+12	1.87E+08	8.80E+03	2.90E+10	3.40E+07
1.57E-06	7.75E+00	7.57E+05	3.73E+12	1.11E+08	2.78E+05	1.37E+12	2.22E+08
9.65E-13	6.32E-06	1.02E+06	6.66E+12	7.95E+07	1.35E+04	8.79E+10	3.93E+07
1.86E-07	1.46E+01	9.83E+05	7.70E+13	2.64E+08	5.07E+04	3.98E+12	4.31E+08
2.19E-09	3.46E-03	8.60E+05	1.35E+12	8.55E+07	1.65E+05	2.60E+11	6.90E+07
1.86E-15	2.00E-08	9.41E+05	1.00E+13	2.04E+08	2.40E+04	2.57E+11	8.53E+07
4.89E-10	7.64E-04	9.62E+05	1.49E+12	7.45E+07	7.27E+04	1.13E+11	5.68E+07
1.95E-06	2.48E+01	7.28E+05	9.26E+12	1.16E+08	3.08E+05	3.92E+12	5.69E+08
5.39E-06	5.81E+01	7.16E+05	7.73E+12	1.88E+08	3.19E+05	3.44E+12	5.17E+08
1.17E-16	4.87E-09	1.00E+06	4.15E+13	3.70E+07	3.65E+04	1.51E+12	7.23E+07
1.76E-11	7.58E-04	1.04E+06	4.43E+13	2.29E+08	8.20E+01	3.50E+09	1.40E+07
1.73E-11	8.11E-04	4.68E+03	2.20E+11	1.03E+07	8.94E+05	4.19E+13	4.23E+08
1.46E-37	2.25E-30	5.50E+04	8.40E+11	2.48E+07	2.70E+05	4.11E+12	6.90E+07
5.81E-06	7.56E+00	4.64E+05	6.04E+11	1.83E+07	5.70E+05	7.43E+11	9.75E+07
1.11E-06	6.82E+01	4.40E+05	2.70E+13	8.80E+07	5.90E+05	3.62E+13	6.62E+08
6.72E-09	3.76E-02	9.52E+05	5.31E+12	1.61E+08	5.48E+04	3.06E+11	1.51E+08
8.41E-07	5.51E+01	9.71E+05	6.34E+13	8.88E+07	6.85E+04	4.47E+12	2.76E+08
2.31E-20	3.27E-13	1.03E+06	1.44E+13	1.69E+08	2.42E+00	3.41E+07	2.50E+05
1.42E-13	3.66E-07	9.89E+05	2.53E+12	5.00E+07	4.52E+04	1.16E+11	6.00E+07
3.65E-06	6.07E+00	2.35E+05	3.90E+11	5.98E+07	6.32E+05	1.05E+12	2.96E+08
5.31E-07	4.06E+01	8.77E+05	6.70E+13	7.68E+07	1.63E+05	1.24E+13	4.57E+08
2.55E-07	2.38E+01	1.08E+05	1.01E+13	1.43E+08	9.18E+05	8.59E+13	6.91E+08
2.50E-06	5.68E+01	6.48E+05	1.47E+13	1.59E+08	3.90E+05	8.87E+12	3.59E+08
2.70E-24	1.15E-16	7.00E+05	2.95E+13	2.02E+08	1.80E+05	7.58E+12	5.63E+07
2.10E-06	5.49E+01	3.60E+05	9.45E+12	8.58E+07	6.52E+05	1.71E+13	6.28E+08
1.59E-12	6.63E-06	9.16E+05	3.81E+12	4.95E+07	1.20E+05	5.00E+11	1.89E+08
6.76E-07	9.53E-01	8.15E+05	1.15E+12	7.65E+07	2.08E+05	2.93E+11	6.05E+07
1.32E-13	4.63E-06	9.99E+05	3.47E+13	1.01E+08	3.39E+04	1.18E+12	5.30E+07

8.26E-10	1.67E-02	5.90E+05	1.19E+13	5.20E+07	4.02E+05	8.09E+12	2.17E+08
2.87E-07	1.07E+00	9.91E+05	3.68E+12	9.90E+07	4.59E+04	1.71E+11	5.78E+07
2.07E-05	1.97E+03	2.85E+05	2.71E+13	8.10E+07	7.47E+05	7.11E+13	9.93E+08
4.68E-10	1.49E-02	8.19E+05	2.60E+13	5.85E+07	2.18E+05	6.94E+12	4.50E+08
1.47E-10	5.31E-03	8.19E+05	2.95E+13	1.96E+08	1.81E+05	6.50E+12	2.93E+08
2.48E-10	1.94E-02	4.13E+04	3.24E+12	4.13E+07	6.15E+05	4.82E+13	3.53E+08
5.47E-11	9.88E-05	5.41E+05	9.79E+11	4.78E+07	4.39E+05	7.95E+11	2.35E+08
9.82E-10	2.53E-03	8.36E+05	2.14E+12	2.20E+08	1.60E+05	4.11E+11	2.45E+08
1.42E-08	1.83E-02	6.27E+05	8.07E+11	1.65E+08	1.23E+05	1.59E+11	8.28E+07
1.50E-05	1.23E+02	9.61E+05	7.94E+12	2.52E+08	6.72E+04	5.55E+11	1.69E+08
4.89E-07	2.13E+01	9.53E+05	4.14E+13	3.01E+08	7.92E+04	3.44E+12	5.59E+08
2.03E-76	5.40E-69	1.02E+06	2.69E+13	1.36E+08	1.28E+03	3.40E+10	6.00E+06
1.54E-04	1.92E+02	7.28E+05	9.09E+11	1.14E+08	2.69E+05	3.36E+11	1.72E+08
4.08E-29	9.60E-23	8.64E+05	2.02E+12	1.54E+08	0.00E+00	0.00E+00	0.00E+00
2.26E-08	8.00E-01	7.91E+05	2.81E+13	6.95E+07	2.41E+05	8.54E+12	4.76E+08
5.28E-07	1.28E+01	5.96E+05	1.45E+13	1.57E+08	4.24E+05	1.03E+13	6.42E+08
1.06E-14	4.50E-07	1.04E+06	4.37E+13	2.20E+08	9.56E+01	4.02E+09	1.15E+07
5.35E-06	5.97E+02	7.36E+05	8.22E+13	6.73E+07	2.99E+05	3.33E+13	7.52E+08
1.54E-17	2.60E-11	6.49E+05	1.10E+12	6.18E+07	3.86E+05	6.51E+11	6.40E+07
3.87E-09	2.00E-02	6.98E+05	3.59E+12	2.00E+08	2.75E+05	1.42E+12	4.02E+08
1.26E-06	1.46E+00	7.15E+05	8.26E+11	4.68E+07	3.15E+05	3.64E+11	1.17E+08
1.12E-06	1.05E+02	8.31E+04	7.76E+12	2.08E+07	8.81E+05	8.22E+13	6.39E+08
1.38E-09	2.42E-02	8.98E+05	1.58E+13	2.34E+08	1.31E+05	2.29E+12	3.32E+08
5.13E-10	3.33E-02	1.04E+06	6.70E+13	7.78E+07	3.59E+02	2.32E+10	4.15E+07
3.14E-08	2.09E-01	9.84E+05	6.55E+12	2.47E+08	3.50E+04	2.33E+11	1.75E+08
4.76E-08	5.09E+00	1.04E+06	1.11E+14	1.92E+08	4.84E+02	5.16E+10	8.30E+07
4.14E-18	1.45E-11	9.42E+05	3.29E+12	6.75E+07	9.29E+04	3.25E+11	1.91E+08
9.67E-04	9.13E+04	3.67E+05	3.47E+13	7.25E+07	6.67E+05	6.30E+13	1.00E+09
2.52E-06	1.09E+01	9.67E+05	4.19E+12	4.43E+07	7.12E+04	3.09E+11	1.04E+08
2.05E-06	2.44E+00	1.02E+06	1.22E+12	7.05E+07	1.25E+04	1.50E+10	4.03E+07
1.20E-04	7.77E+03	3.98E+05	2.58E+13	8.10E+07	6.38E+05	4.13E+13	1.23E+09
5.22E-28	4.60E-20	9.89E+05	8.65E+13	5.53E+07	3.63E+04	3.17E+12	2.18E+07
8.72E-22	2.36E-14	4.66E+05	1.25E+13	3.30E+07	5.32E+05	1.43E+13	1.55E+08
1.07E-30	5.45E-23	9.04E+05	4.56E+13	1.86E+08	2.34E+03	1.18E+11	1.95E+07
2.61E-13	9.28E-06	1.04E+06	3.67E+13	1.34E+08	1.07E+02	3.79E+09	1.40E+07
1.39E-07	3.46E+00	1.04E+06	2.57E+13	1.03E+08	3.44E+03	8.53E+10	5.38E+07
8.48E-17	3.21E-09	5.67E+05	2.14E+13	3.28E+07	3.92E+05	1.48E+13	1.31E+08
6.00E-08	1.06E-01	1.04E+06	1.82E+12	6.55E+07	7.45E+02	1.31E+09	6.25E+06
1.69E-12	5.11E-05	8.55E+05	2.57E+13	2.23E+08	3.26E+02	9.81E+09	1.20E+07
3.02E-06	8.17E+01	9.41E+05	2.55E+13	1.51E+08	8.91E+04	2.41E+12	3.00E+08
1.75E-16	5.31E-10	1.04E+06	3.12E+12	1.26E+08	3.61E+02	1.09E+09	6.75E+06
2.55E-07	2.52E+00	2.58E+04	2.55E+11	1.38E+07	9.46E+05	9.35E+12	4.97E+08
2.36E-11	5.38E-04	1.01E+06	2.28E+13	2.57E+08	1.28E+04	2.91E+11	1.45E+08
7.62E-05	6.32E+03	1.19E+05	9.92E+12	5.73E+07	8.80E+05	7.31E+13	7.24E+08
8.28E-16	1.22E-08	8.45E+05	1.23E+13	1.86E+08	8.40E+01	1.23E+09	4.00E+06
6.63E-06	6.56E+01	8.53E+05	8.44E+12	2.00E+08	1.83E+05	1.81E+12	4.53E+08
9.62E-05	4.56E+03	7.54E+05	3.58E+13	2.40E+08	2.83E+05	1.34E+13	7.69E+08
1.72E-10	5.33E-04	9.93E+05	3.06E+12	4.25E+07	4.42E+04	1.36E+11	8.58E+07
1.38E-24	3.17E-17	9.57E+05	2.19E+13	1.12E+08	2.22E+04	5.07E+11	5.05E+07
8.41E-14	1.33E-06	9.99E+05	1.57E+13	1.99E+08	6.20E+02	9.77E+09	1.18E+07
2.86E-06	4.66E+01	5.36E+05	8.76E+12	1.18E+08	5.00E+05	8.16E+12	4.36E+08
6.78E-06	6.03E+02	1.48E+05	1.32E+13	2.58E+07	8.55E+05	7.61E+13	6.59E+08
6.87E-08	2.98E-01	8.86E+05	3.84E+12	3.70E+07	1.53E+05	6.63E+11	4.55E+07

c_HLW_I	C_ash_I	m_HLW_f	m_ash_f	area_f	m_HLW_e	m_ash_e	area_e
g/m2	g/m2	g	g	m2	g	g	m2 (HLW masses are based on 1MTU of HLW erupted).
5.76E-12	6.91E-06	1.03E+06	1.23E+12	3.18E+08	1.23E+04	1.47E+10	1.92E+09
5.28E-05	3.41E+03	1.65E+05	1.07E+13	3.18E+08	8.03E+05	5.20E+13	1.92E+09
5.20E-10	4.58E-02	1.02E+06	8.89E+13	3.18E+08	2.31E+04	2.02E+12	1.92E+09
4.59E-08	1.24E+00	1.03E+06	2.77E+13	3.18E+08	8.69E+03	2.34E+11	1.92E+09
3.52E-07	1.77E+01	1.02E+06	5.13E+13	3.18E+08	2.08E+04	1.05E+12	1.92E+09
3.13E-10	1.11E-02	8.82E+05	3.12E+13	3.18E+08	1.57E+05	5.54E+12	1.92E+09
6.39E-16	1.60E-08	1.04E+06	2.58E+13	3.18E+08	2.62E+02	6.50E+09	1.92E+09
1.34E-13	5.06E-06	2.47E+04	9.33E+11	3.18E+08	1.00E+06	3.77E+13	1.92E+09
4.47E-16	7.90E-10	1.04E+06	1.82E+12	3.18E+08	1.36E+03	2.38E+09	1.92E+09
2.50E-04	7.51E+03	1.47E+05	4.43E+12	3.18E+08	8.06E+05	2.43E+13	1.92E+09
8.85E-07	2.40E+01	9.17E+05	2.48E+13	3.18E+08	1.21E+05	3.29E+12	1.92E+09
2.42E-10	7.30E-04	1.00E+06	3.02E+12	3.18E+08	3.49E+04	1.05E+11	1.92E+09
1.41E-06	1.39E+01	1.02E+06	1.01E+13	3.18E+08	1.58E+04	1.56E+11	1.92E+09
1.52E-06	3.44E+01	3.16E+05	7.16E+12	3.18E+08	6.99E+05	1.59E+13	1.92E+09
1.14E-05	9.45E+02	3.31E+05	2.75E+13	3.18E+08	6.99E+05	5.80E+13	1.92E+09
4.42E-10	6.48E-03	9.60E+05	1.40E+13	3.18E+08	6.88E+04	1.00E+12	1.92E+09
3.88E-08	3.84E-01	5.94E+05	5.88E+12	3.18E+08	3.76E+05	3.72E+12	1.92E+09
8.23E-11	3.91E-03	8.71E+05	4.13E+13	3.18E+08	1.03E+05	4.91E+12	1.92E+09
9.38E-10	2.90E-03	9.85E+05	3.04E+12	3.18E+08	5.34E+04	1.65E+11	1.92E+09
2.32E-06	5.30E+01	9.80E+05	2.24E+13	3.18E+08	5.30E+04	1.21E+12	1.92E+09
3.84E-11	6.09E-04	8.31E+05	1.31E+13	3.18E+08	1.36E+05	2.14E+12	1.92E+09
7.60E-06	1.24E+02	5.79E+05	9.46E+12	3.18E+08	4.58E+05	7.47E+12	1.92E+09
7.76E-32	6.96E-24	9.39E+05	8.37E+13	3.18E+08	4.40E+03	3.92E+11	1.92E+09
1.07E-05	1.97E+02	8.00E+05	1.47E+13	3.18E+08	2.37E+05	4.37E+12	1.92E+09
3.76E-09	4.94E-02	1.04E+06	1.36E+13	3.18E+08	2.92E+03	3.81E+10	1.92E+09
4.46E-12	4.95E-05	4.32E+05	4.80E+12	3.18E+08	5.60E+05	6.22E+12	1.92E+09
2.73E-07	4.22E-01	9.75E+05	1.50E+12	3.18E+08	6.45E+04	9.94E+10	1.92E+09
7.55E-14	5.33E-06	1.03E+06	7.22E+13	3.18E+08	8.22E+03	5.77E+11	1.92E+09
8.69E-06	8.43E+02	6.64E+04	6.45E+12	3.18E+08	8.83E+05	8.58E+13	1.92E+09
4.98E-06	6.12E+01	7.62E+05	9.38E+12	3.18E+08	2.78E+05	3.42E+12	1.92E+09
1.17E-12	4.45E-06	8.17E+05	3.09E+12	3.18E+08	1.61E+05	6.09E+11	1.92E+09
9.80E-15	3.98E-07	1.01E+06	4.05E+13	3.18E+08	2.67E+04	1.08E+12	1.92E+09
3.94E-06	1.05E+01	6.66E+05	1.77E+12	3.18E+08	3.52E+05	9.35E+11	1.92E+09
5.29E-14	7.23E-07	1.01E+06	1.38E+13	3.18E+08	2.39E+04	3.25E+11	1.92E+09
3.97E-13	3.04E-06	2.95E+04	2.27E+11	3.18E+08	9.61E+05	7.37E+12	1.92E+09
1.53E-09	1.14E-01	1.04E+06	7.70E+13	3.18E+08	1.58E+03	1.17E+11	1.92E+09
9.78E-10	3.68E-03	1.03E+06	3.85E+12	3.18E+08	4.52E+03	1.69E+10	1.92E+09
2.17E-09	5.03E-03	6.62E+05	1.53E+12	3.18E+08	3.25E+05	7.49E+11	1.92E+09
6.10E-27	2.90E-20	7.49E+05	3.54E+12	3.18E+08	5.21E+04	2.46E+11	1.92E+09
6.98E-08	2.59E-01	2.92E+05	1.08E+12	3.18E+08	7.21E+05	2.67E+12	1.92E+09
5.70E-08	3.36E-01	6.36E+05	3.73E+12	3.18E+08	3.98E+05	2.33E+12	1.92E+09
3.43E-10	8.56E-03	9.39E+05	2.34E+13	3.18E+08	9.20E+04	2.29E+12	1.92E+09
7.84E-05	1.29E+03	7.37E+05	1.22E+13	3.18E+08	3.01E+05	4.96E+12	1.92E+09
8.36E-07	2.76E+00	5.62E+05	1.85E+12	3.18E+08	4.02E+05	1.33E+12	1.92E+09
5.42E-19	2.69E-12	5.95E+05	2.93E+12	3.18E+08	2.63E+05	1.30E+12	1.92E+09
5.32E-11	3.48E-04	1.04E+06	6.75E+12	3.18E+08	1.72E+03	1.12E+10	1.92E+09
3.37E-06	2.64E+02	9.54E+05	7.47E+13	3.18E+08	8.46E+04	6.63E+12	1.92E+09

7.14E-06	1.12E+01	7.99E+05	1.26E+12	3.18E+08	2.40E+05	3.78E+11	1.92E+09
1.37E-06	1.46E+01	1.00E+06	1.07E+13	3.18E+08	3.54E+04	3.78E+11	1.92E+09
2.45E-11	3.83E-05	7.25E+05	1.13E+12	3.18E+08	2.73E+05	4.24E+11	1.92E+09
1.87E-18	2.40E-11	8.66E+05	1.10E+13	3.18E+08	1.02E+05	1.30E+12	1.92E+09
3.87E-11	4.20E-04	9.98E+05	1.08E+13	3.18E+08	1.10E+03	1.18E+10	1.92E+09
1.46E-16	6.09E-09	1.04E+06	4.31E+13	3.18E+08	4.20E+02	1.74E+10	1.92E+09
4.73E-13	2.03E-05	1.03E+06	4.41E+13	3.18E+08	6.65E+03	2.84E+11	1.92E+09
2.10E-18	9.88E-11	2.79E+05	1.31E+13	3.18E+08	4.10E+05	1.92E+13	1.92E+09
5.92E-06	9.03E+01	7.74E+05	1.18E+13	3.18E+08	2.65E+05	4.04E+12	1.92E+09
1.07E-27	1.41E-21	9.98E+05	1.30E+12	3.18E+08	4.88E-01	6.35E+05	1.92E+09
1.59E-19	9.79E-12	1.00E+06	6.14E+13	3.18E+08	6.57E+02	4.03E+10	1.92E+09
4.22E-05	2.35E+02	2.94E+05	1.64E+12	3.18E+08	7.44E+05	4.15E+12	1.92E+09
2.78E-09	1.82E-01	9.56E+05	6.24E+13	3.18E+08	8.41E+04	5.49E+12	1.92E+09
2.65E-05	3.72E+02	5.07E+05	7.14E+12	3.18E+08	5.21E+05	7.34E+12	1.92E+09
1.26E-23	3.26E-17	9.95E+05	2.55E+12	3.18E+08	2.78E+04	7.10E+10	1.92E+09
6.30E-05	1.05E+02	8.29E+05	1.38E+12	3.18E+08	2.07E+05	3.44E+11	1.92E+09
3.63E-59	2.79E-51	9.46E+05	7.23E+13	3.18E+08	2.02E+00	1.54E+08	1.92E+09
3.60E-32	3.39E-24	9.24E+05	8.64E+13	3.18E+08	1.62E+00	1.52E+08	1.92E+09
3.26E-13	7.47E-06	9.22E+05	2.10E+13	3.18E+08	7.99E+03	1.82E+11	1.92E+09
6.56E-16	2.78E-08	8.88E+05	3.75E+13	3.18E+08	1.15E+04	4.85E+11	1.92E+09
2.89E-08	7.58E-01	5.56E+05	1.46E+13	3.18E+08	4.28E+05	1.12E+13	1.92E+09
1.40E-26	5.86E-20	1.01E+06	4.22E+12	3.18E+08	4.00E+01	1.66E+08	1.92E+09
2.82E-23	4.00E-17	6.84E+05	9.63E+11	3.18E+08	2.31E+05	3.25E+11	1.92E+09
1.01E-15	3.52E-08	1.13E+05	3.92E+12	3.18E+08	9.01E+05	3.13E+13	1.92E+09
4.89E-44	9.90E-37	5.35E+05	1.08E+13	3.18E+08	2.18E+05	4.39E+12	1.92E+09
5.22E-08	1.95E-01	1.03E+06	3.83E+12	3.18E+08	9.41E+03	3.50E+10	1.92E+09
3.61E-03	3.43E+05	2.55E+05	2.42E+13	3.18E+08	7.09E+05	6.75E+13	1.92E+09
2.15E-16	6.88E-09	8.80E+05	2.80E+13	3.18E+08	1.54E+05	4.91E+12	1.92E+09
2.86E-23	1.04E-15	7.68E+04	2.77E+12	3.18E+08	6.08E+05	2.19E+13	1.92E+09
6.41E-18	5.06E-10	9.99E+05	7.84E+13	3.18E+08	1.95E+02	1.53E+10	1.92E+09
2.59E-08	4.68E-02	3.57E+04	6.46E+10	3.18E+08	8.77E+05	1.59E+12	1.92E+09
3.68E-20	9.50E-14	9.12E+05	2.34E+12	3.18E+08	4.31E+03	1.10E+10	1.92E+09
5.20E-05	6.70E+01	7.32E+04	9.43E+10	3.18E+08	7.23E+05	9.32E+11	1.92E+09
1.18E-06	9.74E+00	7.47E+05	6.17E+12	3.18E+08	2.92E+05	2.41E+12	1.92E+09
2.75E-07	1.20E+01	4.34E+05	1.89E+13	3.18E+08	5.73E+05	2.49E+13	1.92E+09
1.42E-28	3.78E-21	1.03E+06	2.73E+13	3.18E+08	9.87E+01	2.61E+09	1.92E+09
6.36E-09	7.93E-03	7.32E+05	9.14E+11	3.18E+08	3.00E+05	3.74E+11	1.92E+09
5.15E-06	1.20E+01	5.94E+05	1.39E+12	3.18E+08	4.43E+05	1.04E+12	1.92E+09
1.19E-05	4.22E+02	9.74E+05	3.45E+13	3.18E+08	5.17E+04	1.83E+12	1.92E+09
8.74E-11	2.13E-03	1.01E+06	2.46E+13	3.18E+08	2.54E+04	6.15E+11	1.92E+09
8.24E-21	3.48E-13	2.43E+04	1.02E+12	3.18E+08	9.74E+05	4.10E+13	1.92E+09
6.25E-05	6.97E+03	3.75E+05	4.19E+13	3.18E+08	6.39E+05	7.13E+13	1.92E+09
3.63E-29	6.17E-23	1.02E+06	1.72E+12	3.18E+08	9.22E+03	1.55E+10	1.92E+09
3.17E-18	1.65E-11	8.95E+05	4.61E+12	3.18E+08	2.25E+01	1.16E+08	1.92E+09
3.97E-09	4.59E-03	2.10E+05	2.43E+11	3.18E+08	8.24E+05	9.52E+11	1.92E+09
1.02E-05	9.50E+02	3.70E+05	3.45E+13	3.18E+08	6.06E+05	5.66E+13	1.92E+09
6.22E-08	1.09E+00	9.62E+05	1.69E+13	3.18E+08	4.59E+04	8.06E+11	1.92E+09
5.40E-19	3.51E-11	1.04E+06	6.71E+13	3.18E+08	5.78E+01	3.74E+09	1.92E+09
7.42E-09	4.96E-02	7.12E+05	4.74E+12	3.18E+08	3.25E+05	2.16E+12	1.92E+09
9.00E-22	9.66E-14	9.96E+05	1.06E+14	3.18E+08	4.33E+04	4.62E+12	1.92E+09
3.58E-10	1.26E-03	1.00E+06	3.51E+12	3.18E+08	3.66E+04	1.28E+11	1.92E+09
3.79E-07	3.59E+01	1.00E+06	9.48E+13	3.18E+08	3.52E+04	3.33E+12	1.92E+09
1.16E-08	5.04E-02	1.04E+06	4.49E+12	3.18E+08	3.57E+03	1.55E+10	1.92E+09
9.47E-07	1.13E+00	1.02E+06	1.22E+12	3.18E+08	1.88E+04	2.25E+10	1.92E+09
5.70E-06	3.69E+02	9.54E+05	6.18E+13	3.18E+08	8.50E+04	5.50E+12	1.92E+09

3.69E-18	3.25E-10	9.41E+05	8.23E+13	3.18E+08	9.68E+04	8.46E+12	1.92E+09
3.94E-10	1.07E-02	7.07E+05	1.90E+13	3.18E+08	3.30E+05	8.87E+12	1.92E+09
3.61E-08	1.82E+00	7.87E+05	3.97E+13	3.18E+08	2.51E+05	1.26E+13	1.92E+09
4.86E-08	1.72E+00	8.32E+05	2.94E+13	3.18E+08	2.07E+05	7.33E+12	1.92E+09
2.23E-06	5.55E+01	9.56E+05	2.37E+13	3.18E+08	8.49E+04	2.11E+12	1.92E+09
1.67E-07	6.29E+00	1.01E+06	3.79E+13	3.18E+08	3.32E+04	1.25E+12	1.92E+09
2.57E-12	4.54E-06	9.35E+05	1.64E+12	3.18E+08	1.04E+05	1.83E+11	1.92E+09
1.61E-05	4.85E+02	3.33E+05	1.00E+13	3.18E+08	6.99E+05	2.10E+13	1.92E+09
3.18E-16	8.64E-09	1.40E+05	3.79E+12	3.18E+08	8.84E+05	2.39E+13	1.92E+09
4.83E-14	1.46E-07	1.04E+06	3.13E+12	3.18E+08	4.52E+02	1.36E+09	1.92E+09
2.57E-07	2.54E+00	1.00E+06	9.88E+12	3.18E+08	3.06E+04	3.02E+11	1.92E+09
6.11E-21	1.39E-13	8.62E+05	1.95E+13	3.18E+08	8.91E+03	2.02E+11	1.92E+09
6.46E-11	5.38E-03	7.67E+05	6.37E+13	3.18E+08	2.38E+05	1.98E+13	1.92E+09
2.37E-10	3.48E-03	5.66E+05	8.28E+12	3.18E+08	3.72E+05	5.43E+12	1.92E+09
4.87E-06	4.81E+01	5.91E+05	5.85E+12	3.18E+08	4.46E+05	4.41E+12	1.92E+09
1.29E-13	6.13E-06	6.57E+05	3.12E+13	3.18E+08	3.01E+05	1.43E+13	1.92E+09
1.18E-12	3.67E-06	6.14E+05	1.89E+12	3.18E+08	4.23E+05	1.30E+12	1.92E+09
1.80E-06	4.11E+01	7.79E+05	1.78E+13	3.18E+08	2.61E+05	5.96E+12	1.92E+09
8.20E-14	1.30E-06	1.01E+06	1.60E+13	3.18E+08	4.01E+03	6.32E+10	1.92E+09
1.25E-06	2.04E+01	3.32E+05	5.42E+12	3.18E+08	6.64E+05	1.08E+13	1.92E+09
1.53E-11	1.37E-03	1.02E+06	9.12E+13	3.18E+08	2.57E+03	2.29E+11	1.92E+09
6.42E-17	1.19E-09	7.76E+05	1.43E+13	3.18E+08	2.34E+04	4.31E+11	1.92E+09
1.10E-13	1.44E-06	9.65E+05	1.26E+13	3.18E+08	7.38E+04	9.64E+11	1.92E+09
2.80E-13	3.13E-06	7.74E+05	8.59E+12	3.18E+08	7.60E+01	8.43E+08	1.92E+09
2.91E-14	4.51E-08	9.46E+05	1.46E+12	3.18E+08	1.73E+04	2.66E+10	1.92E+09
1.82E-06	1.27E+02	4.21E+05	2.95E+13	3.18E+08	6.18E+05	4.34E+13	1.92E+09
3.18E-08	3.09E+00	3.91E+05	3.80E+13	3.18E+08	5.64E+05	5.48E+13	1.92E+09
1.29E-12	1.59E-05	1.01E+06	1.25E+13	3.18E+08	2.72E+04	3.35E+11	1.92E+09
1.70E-05	6.42E+01	9.15E+05	3.46E+12	3.18E+08	1.24E+05	4.70E+11	1.92E+09
9.58E-17	3.89E-09	1.03E+06	4.17E+13	3.18E+08	7.87E+01	3.17E+09	1.92E+09
1.68E-21	4.49E-15	8.62E+05	2.29E+12	3.18E+08	5.20E+04	1.38E+11	1.92E+09
1.46E-15	1.98E-08	4.44E+05	6.04E+12	3.18E+08	5.55E+05	7.55E+12	1.92E+09
1.14E-10	8.73E-04	6.51E+05	4.99E+12	3.18E+08	3.40E+05	2.60E+12	1.92E+09
7.56E-17	5.60E-09	1.03E+06	7.63E+13	3.18E+08	1.08E+04	7.99E+11	1.92E+09
2.23E-08	8.36E-02	8.51E+05	3.18E+12	3.18E+08	1.82E+05	6.81E+11	1.92E+09
4.39E-06	1.01E+01	4.55E+05	1.05E+12	3.18E+08	5.83E+05	1.34E+12	1.92E+09
2.41E-08	1.14E-01	1.02E+06	4.83E+12	3.18E+08	1.68E+04	7.92E+10	1.92E+09
1.13E-08	4.19E-02	1.03E+06	3.81E+12	3.18E+08	1.25E+04	4.64E+10	1.92E+09
1.64E-06	9.62E+00	7.59E+05	4.46E+12	3.18E+08	2.79E+05	1.64E+12	1.92E+09
8.41E-05	2.09E+03	6.29E+05	1.56E+13	3.18E+08	3.70E+05	9.19E+12	1.92E+09
5.18E-05	8.54E+02	9.08E+05	1.50E+13	3.18E+08	1.31E+05	2.16E+12	1.92E+09
2.46E-25	8.16E-19	9.12E+05	3.01E+12	3.18E+08	2.85E+04	9.40E+10	1.92E+09
5.95E-06	2.93E+01	8.51E+05	4.19E+12	3.18E+08	1.88E+05	9.27E+11	1.92E+09
1.38E-12	9.02E-06	9.96E+05	6.48E+12	3.18E+08	4.37E+04	2.84E+11	1.92E+09
2.22E-10	1.75E-02	9.72E+05	7.62E+13	3.18E+08	5.29E+04	4.14E+12	1.92E+09
1.56E-10	2.47E-04	1.03E+06	1.61E+12	3.18E+08	6.33E+03	9.96E+09	1.92E+09
1.06E-08	1.14E-01	3.08E+05	3.29E+12	3.18E+08	6.49E+05	6.92E+12	1.92E+09
3.43E-06	5.33E+00	9.56E+05	1.49E+12	3.18E+08	5.47E+04	8.49E+10	1.92E+09
2.13E-14	2.72E-07	5.04E+04	6.41E+11	3.18E+08	9.30E+05	1.18E+13	1.92E+09
3.41E-06	3.68E+01	7.04E+05	7.59E+12	3.18E+08	3.33E+05	3.60E+12	1.92E+09
3.41E-06	1.42E+02	1.01E+06	4.18E+13	3.18E+08	3.15E+04	1.30E+12	1.92E+09
6.71E-09	2.88E-01	1.01E+06	4.32E+13	3.18E+08	2.80E+04	1.19E+12	1.92E+09
5.26E-06	2.46E+02	8.33E+05	3.90E+13	3.18E+08	2.03E+05	9.52E+12	1.92E+09
2.92E-04	4.46E+03	5.87E+05	8.96E+12	3.18E+08	4.33E+05	6.61E+12	1.92E+09
1.63E-11	2.14E-05	1.02E+06	1.33E+12	3.18E+08	2.12E+04	2.76E+10	1.92E+09

3.35E-05	2.05E+03	7.36E+05	4.51E+13	3.18E+08	2.98E+05	1.82E+13	1.92E+09
2.07E-07	1.16E+00	8.90E+05	4.97E+12	3.18E+08	1.42E+05	7.94E+11	1.92E+09
3.83E-10	2.51E-02	3.60E+05	2.35E+13	3.18E+08	6.66E+05	4.34E+13	1.92E+09
5.22E-09	7.38E-02	9.51E+05	1.34E+13	3.18E+08	8.71E+04	1.23E+12	1.92E+09
5.81E-10	1.50E-03	1.02E+06	2.61E+12	3.18E+08	2.03E+04	5.20E+10	1.92E+09
1.17E-32	1.96E-26	7.83E+05	1.30E+12	3.18E+08	1.08E+01	1.79E+07	1.92E+09
1.38E-13	1.06E-05	1.03E+06	7.90E+13	3.18E+08	4.63E+03	3.54E+11	1.92E+09
7.92E-07	7.40E+01	3.25E+05	3.04E+13	3.18E+08	5.83E+05	5.45E+13	1.92E+09
1.41E-14	3.23E-07	9.00E+05	2.05E+13	3.18E+08	1.05E+05	2.38E+12	1.92E+09
1.35E-15	5.73E-08	7.82E+05	3.30E+13	3.18E+08	1.63E+05	6.88E+12	1.92E+09
1.28E-06	3.36E+01	1.00E+06	2.62E+13	3.18E+08	3.98E+04	1.04E+12	1.92E+09
4.94E-08	2.07E-01	8.85E+05	3.68E+12	3.18E+08	1.55E+05	6.46E+11	1.92E+09
6.04E-24	8.55E-18	9.99E+05	1.41E+12	3.18E+08	5.09E-02	7.16E+04	1.92E+09
2.87E-08	1.00E+00	1.03E+06	3.58E+13	3.18E+08	7.45E+03	2.59E+11	1.92E+09
1.95E-09	3.95E-02	1.03E+06	2.07E+13	3.18E+08	9.03E+03	1.82E+11	1.92E+09
1.01E-16	3.79E-10	6.85E+05	2.54E+12	3.18E+08	3.47E+05	1.29E+12	1.92E+09
9.14E-10	8.73E-02	9.76E+05	9.29E+13	3.18E+08	4.59E+04	4.36E+12	1.92E+09
3.78E-08	1.21E+00	6.35E+05	2.02E+13	3.18E+08	4.05E+05	1.29E+13	1.92E+09
3.21E-13	1.16E-05	1.38E+05	4.96E+12	3.18E+08	7.54E+05	2.71E+13	1.92E+09
1.21E-04	9.50E+03	7.76E+05	6.09E+13	3.18E+08	2.64E+05	2.07E+13	1.92E+09
2.65E-32	4.83E-26	7.29E+05	1.32E+12	3.18E+08	6.05E+04	1.09E+11	1.92E+09
3.73E-09	9.59E-03	8.98E+05	2.30E+12	3.18E+08	1.29E+05	3.31E+11	1.92E+09
2.97E-07	3.83E-01	9.26E+05	1.19E+12	3.18E+08	8.98E+04	1.16E+11	1.92E+09
7.62E-39	6.33E-32	2.14E+03	1.77E+10	3.18E+08	8.60E+05	7.10E+12	1.92E+09
5.00E-08	2.18E+00	5.53E+05	2.41E+13	3.18E+08	4.78E+05	2.08E+13	1.92E+09
3.48E-25	9.29E-18	1.04E+06	2.75E+13	3.18E+08	1.07E+03	2.83E+10	1.92E+09
1.84E-13	2.29E-07	8.88E+05	1.11E+12	3.18E+08	1.24E+05	1.55E+11	1.92E+09
5.73E-09	1.35E-02	5.97E+05	1.40E+12	3.18E+08	4.30E+05	1.01E+12	1.92E+09
4.69E-15	1.67E-07	7.54E+05	2.67E+13	3.18E+08	8.43E+04	2.99E+12	1.92E+09
5.25E-12	1.28E-04	1.03E+06	2.50E+13	3.18E+08	8.19E+03	1.98E+11	1.92E+09
2.69E-09	1.14E-01	1.04E+06	4.37E+13	3.18E+08	1.46E+03	6.15E+10	1.92E+09
2.01E-11	2.26E-03	1.58E+05	1.76E+13	3.18E+08	8.07E+05	9.01E+13	1.92E+09
2.26E-26	3.83E-20	1.02E+06	1.72E+12	3.18E+08	1.83E+04	3.09E+10	1.92E+09
6.90E-05	3.55E+02	2.14E+05	1.10E+12	3.18E+08	8.23E+05	4.24E+12	1.92E+09
6.98E-34	8.13E-28	9.78E+05	1.13E+12	3.18E+08	1.32E+03	1.53E+09	1.92E+09
3.10E-04	2.89E+04	7.30E+05	6.81E+13	3.18E+08	3.09E+05	2.88E+13	1.92E+09
1.35E-27	2.39E-20	6.86E+05	1.20E+13	3.18E+08	1.31E-02	2.31E+05	1.92E+09
1.06E-12	6.89E-05	9.04E+05	5.83E+13	3.18E+08	1.35E+05	8.68E+12	1.92E+09
2.78E-12	1.86E-05	1.01E+06	6.72E+12	3.18E+08	8.00E+03	5.32E+10	1.92E+09
2.60E-22	2.79E-14	1.04E+06	1.11E+14	3.18E+08	2.65E+02	2.83E+10	1.92E+09
1.94E-33	6.81E-27	1.02E+06	3.55E+12	3.18E+08	1.57E-03	5.50E+03	1.92E+09
1.07E-10	1.02E-02	1.01E+06	9.54E+13	3.18E+08	1.06E+03	1.00E+11	1.92E+09
3.51E-24	1.53E-17	1.04E+06	4.50E+12	3.18E+08	8.59E-01	3.73E+06	1.92E+09
2.32E-12	2.79E-06	1.03E+06	1.23E+12	3.18E+08	1.27E+04	1.52E+10	1.92E+09
9.24E-05	5.98E+03	8.74E+05	5.66E+13	3.18E+08	1.63E+05	1.06E+13	1.92E+09
2.33E-26	2.05E-18	1.03E+06	9.02E+13	3.18E+08	7.04E+02	6.15E+10	1.92E+09
8.90E-07	2.40E+01	1.01E+06	2.72E+13	3.18E+08	2.81E+04	7.57E+11	1.92E+09
6.68E-08	3.37E+00	4.73E+05	2.38E+13	3.18E+08	5.62E+05	2.83E+13	1.92E+09
1.32E-09	4.71E-02	1.04E+06	3.67E+13	3.18E+08	3.75E+02	1.33E+10	1.92E+09
1.21E-13	3.02E-06	1.03E+06	2.57E+13	3.18E+08	5.50E+03	1.37E+11	1.92E+09
1.33E-10	5.03E-03	1.04E+06	3.91E+13	3.18E+08	1.86E+03	7.02E+10	1.92E+09
2.36E-08	4.16E-02	1.02E+06	1.79E+12	3.18E+08	1.90E+04	3.34E+10	1.92E+09
2.05E-07	6.18E+00	4.47E+05	1.35E+13	3.18E+08	5.01E+05	1.51E+13	1.92E+09
5.96E-08	1.61E+00	4.23E+05	1.14E+13	3.18E+08	5.92E+05	1.60E+13	1.92E+09
7.17E-09	2.17E-02	1.04E+06	3.12E+12	3.18E+08	1.66E+03	4.99E+09	1.92E+09

2.49E-09	2.47E-02	7.01E+05	6.93E+12	3.18E+08	3.38E+05	3.33E+12	1.92E+09
7.04E-06	1.60E+02	2.39E+05	5.41E+12	3.18E+08	7.39E+05	1.68E+13	1.92E+09
9.69E-06	8.04E+02	9.76E+05	8.11E+13	3.18E+08	6.34E+04	5.26E+12	1.92E+09
8.59E-09	1.26E-01	9.45E+05	1.38E+13	3.18E+08	8.77E+04	1.28E+12	1.92E+09
1.59E-08	1.58E-01	6.92E+05	6.85E+12	3.18E+08	3.26E+05	3.23E+12	1.92E+09
6.71E-46	3.21E-38	7.58E+05	3.60E+13	3.18E+08	1.35E-06	6.40E+01	1.92E+09
1.06E-15	3.30E-09	1.04E+06	3.21E+12	3.18E+08	8.28E+02	2.55E+09	1.92E+09
3.06E-16	7.04E-09	9.51E+05	2.17E+13	3.18E+08	6.20E+03	1.42E+11	1.92E+09
2.92E-23	4.64E-16	9.48E+05	1.49E+13	3.18E+08	8.96E-01	1.41E+07	1.92E+09
1.01E-14	1.66E-07	1.03E+06	1.68E+13	3.18E+08	2.84E+02	4.63E+09	1.92E+09
1.89E-07	1.69E+01	7.76E+05	6.91E+13	3.18E+08	2.59E+05	2.30E+13	1.92E+09
5.79E-15	1.07E-07	9.28E+05	1.71E+13	3.18E+08	1.65E+04	3.05E+11	1.92E+09
3.90E-09	5.13E-02	1.03E+06	1.35E+13	3.18E+08	5.24E+03	6.84E+10	1.92E+09
7.05E-05	7.82E+02	6.42E+05	7.12E+12	3.18E+08	3.96E+05	4.40E+12	1.92E+09
7.28E-10	1.12E-03	3.61E+05	5.57E+11	3.18E+08	5.80E+05	8.94E+11	1.92E+09
5.12E-17	3.62E-09	1.03E+06	7.20E+13	3.18E+08	1.28E+04	8.99E+11	1.92E+09
5.80E-07	5.63E+01	1.01E+06	9.80E+13	3.18E+08	2.95E+04	2.87E+12	1.92E+09
5.28E-14	6.54E-07	1.03E+06	1.27E+13	3.18E+08	4.74E+03	5.83E+10	1.92E+09
8.80E-05	3.33E+02	8.13E+05	3.07E+12	3.18E+08	2.27E+05	8.56E+11	1.92E+09
3.40E-20	1.38E-12	1.03E+06	4.17E+13	3.18E+08	8.19E+01	3.30E+09	1.92E+09
4.96E-10	1.32E-03	1.01E+06	2.67E+12	3.18E+08	2.31E+04	6.14E+10	1.92E+09
1.91E-06	2.61E+01	1.02E+06	1.38E+13	3.18E+08	2.46E+04	3.34E+11	1.92E+09
1.10E-04	8.45E+02	8.56E+05	6.56E+12	3.18E+08	1.82E+05	1.40E+12	1.92E+09
9.75E-39	7.28E-31	1.01E+06	7.52E+13	3.18E+08	2.57E-04	1.90E+04	1.92E+09
3.30E-07	1.23E+00	1.29E+05	4.81E+11	3.18E+08	9.00E+05	3.37E+12	1.92E+09
8.36E-08	1.92E-01	9.74E+05	2.24E+12	3.18E+08	6.47E+04	1.49E+11	1.92E+09
2.07E-12	9.83E-06	9.34E+05	4.41E+12	3.18E+08	5.76E+03	2.72E+10	1.92E+09
3.39E-09	1.26E-02	3.92E+05	1.45E+12	3.18E+08	5.29E+05	1.96E+12	1.92E+09
7.77E-14	4.59E-07	1.03E+06	6.04E+12	3.18E+08	6.97E+03	4.09E+10	1.92E+09
6.68E-10	1.67E-02	9.12E+05	2.27E+13	3.18E+08	1.04E+05	2.59E+12	1.92E+09
9.12E-06	1.50E+02	2.87E+05	4.73E+12	3.18E+08	5.89E+05	9.71E+12	1.92E+09
5.92E-23	1.96E-16	6.68E+05	2.20E+12	3.18E+08	1.36E+01	4.48E+07	1.92E+09
2.45E-06	1.21E+01	1.01E+06	4.97E+12	3.18E+08	2.98E+04	1.47E+11	1.92E+09
5.60E-14	3.67E-07	9.72E+05	6.32E+12	3.18E+08	6.33E+04	4.12E+11	1.92E+09
1.25E-06	9.79E+01	9.09E+05	7.13E+13	3.18E+08	1.30E+05	1.02E+13	1.92E+09
1.90E-06	2.99E+00	3.88E+05	6.10E+11	3.18E+08	6.13E+05	9.63E+11	1.92E+09
2.08E-23	2.24E-16	9.20E+05	9.82E+12	3.18E+08	4.46E+04	4.76E+11	1.92E+09
1.03E-08	1.61E-02	1.01E+06	1.57E+12	3.18E+08	2.71E+04	4.21E+10	1.92E+09
2.07E-11	2.64E-04	6.86E+05	8.72E+12	3.18E+08	3.04E+05	3.87E+12	1.92E+09
1.64E-09	1.76E-02	1.74E+04	1.88E+11	3.18E+08	9.95E+05	1.07E+13	1.92E+09
1.35E-25	5.61E-18	6.32E+05	2.62E+13	3.18E+08	4.02E+05	1.66E+13	1.92E+09
1.10E-16	4.74E-09	2.09E+05	8.93E+12	3.18E+08	8.21E+05	3.50E+13	1.92E+09
1.93E-09	9.06E-02	4.73E+05	2.22E+13	3.18E+08	4.72E+05	2.21E+13	1.92E+09
1.23E-06	1.88E+01	1.01E+06	1.55E+13	3.18E+08	2.45E+04	3.74E+11	1.92E+09
1.30E-16	1.70E-10	1.03E+06	1.34E+12	3.18E+08	7.57E+03	9.86E+09	1.92E+09
2.94E-04	1.80E+04	7.54E+05	4.62E+13	3.18E+08	2.22E+05	1.36E+13	1.92E+09
3.47E-04	1.93E+03	6.01E+05	3.35E+12	3.18E+08	4.38E+05	2.44E+12	1.92E+09
1.58E-10	1.04E-02	1.04E+06	6.78E+13	3.18E+08	5.40E+02	3.53E+10	1.92E+09
3.10E-13	4.39E-06	1.03E+06	1.45E+13	3.18E+08	4.16E+03	5.86E+10	1.92E+09
2.17E-07	5.55E-01	1.04E+06	2.66E+12	3.18E+08	1.73E+03	4.43E+09	1.92E+09
1.06E-12	1.77E-06	9.67E+05	1.61E+12	3.18E+08	2.45E+04	4.06E+10	1.92E+09
1.48E-09	1.13E-01	1.01E+06	7.73E+13	3.18E+08	2.76E+04	2.11E+12	1.92E+09
2.52E-05	2.36E+03	5.05E+05	4.72E+13	3.18E+08	5.15E+05	4.81E+13	1.92E+09
6.20E-16	1.42E-08	9.35E+05	2.13E+13	3.18E+08	7.54E+04	1.72E+12	1.92E+09
1.67E-05	7.03E+02	8.32E+05	3.51E+13	3.18E+08	1.89E+05	7.97E+12	1.92E+09

2.29E-08	5.99E-01	2.51E+05	6.57E+12	3.18E+08	6.59E+05	1.73E+13	1.92E+09
4.18E-22	1.75E-15	1.04E+06	4.32E+12	3.18E+08	9.31E+01	3.87E+08	1.92E+09
6.62E-16	9.37E-10	9.83E+05	1.38E+12	3.18E+08	8.45E+03	1.19E+10	1.92E+09
2.55E-09	8.90E-02	6.76E+05	2.35E+13	3.18E+08	3.59E+05	1.25E+13	1.92E+09
4.81E-12	9.68E-05	1.17E+04	2.35E+11	3.18E+08	7.93E+05	1.59E+13	1.92E+09
6.13E-07	2.28E+00	1.01E+06	3.74E+12	3.18E+08	3.13E+04	1.16E+11	1.92E+09
1.61E-10	1.53E-02	3.89E+05	3.70E+13	3.18E+08	5.86E+05	5.58E+13	1.92E+09
3.80E-11	1.21E-03	2.30E+05	7.31E+12	3.18E+08	8.02E+05	2.55E+13	1.92E+09
8.36E-22	3.03E-14	2.56E+04	9.23E+11	3.18E+08	6.80E+05	2.45E+13	1.92E+09
6.14E-07	4.82E+01	3.55E+05	2.79E+13	3.18E+08	6.78E+05	5.32E+13	1.92E+09
7.70E-24	1.40E-17	5.69E+04	1.03E+11	3.18E+08	5.84E+05	1.06E+12	1.92E+09
4.30E-11	1.11E-04	6.59E+05	1.69E+12	3.18E+08	2.61E+05	6.69E+11	1.92E+09
6.49E-05	8.36E+01	6.53E+05	8.42E+11	3.18E+08	3.79E+05	4.89E+11	1.92E+09
5.60E-06	4.62E+01	6.18E+05	5.10E+12	3.18E+08	4.22E+05	3.48E+12	1.92E+09
8.74E-11	3.82E-03	9.22E+05	4.01E+13	3.18E+08	6.67E+04	2.90E+12	1.92E+09
2.53E-22	6.75E-15	1.03E+06	2.73E+13	3.18E+08	8.79E+03	2.33E+11	1.92E+09
8.01E-14	1.01E-07	9.94E+05	1.24E+12	3.18E+08	2.63E+04	3.28E+10	1.92E+09
2.42E-05	5.66E+01	4.20E+05	9.84E+11	3.18E+08	6.14E+05	1.44E+12	1.92E+09
1.10E-06	3.91E+01	7.99E+05	2.83E+13	3.18E+08	2.26E+05	8.03E+12	1.92E+09
5.63E-11	1.36E-03	5.19E+04	1.26E+12	3.18E+08	9.81E+05	2.38E+13	1.92E+09
2.84E-18	1.20E-10	8.28E+05	3.48E+13	3.18E+08	2.02E+05	8.49E+12	1.92E+09
1.29E-10	1.43E-02	2.94E+05	3.28E+13	3.18E+08	6.83E+05	7.62E+13	1.92E+09
5.74E-08	9.74E-02	1.04E+06	1.75E+12	3.18E+08	3.77E+03	6.36E+09	1.92E+09
2.95E-06	1.52E+01	7.28E+05	3.75E+12	3.18E+08	2.98E+05	1.54E+12	1.92E+09
1.82E-24	2.12E-18	1.01E+06	1.16E+12	3.18E+08	6.69E+02	7.74E+08	1.92E+09
5.76E-07	5.37E+01	7.03E+05	6.56E+13	3.18E+08	2.87E+05	2.68E+13	1.92E+09
4.13E-08	7.27E-01	4.49E+05	7.88E+12	3.18E+08	5.88E+05	1.03E+13	1.92E+09
4.71E-07	3.05E+01	1.03E+06	6.67E+13	3.18E+08	5.25E+03	3.39E+11	1.92E+09
6.10E-08	4.07E-01	8.12E+05	5.40E+12	3.18E+08	2.16E+05	1.44E+12	1.92E+09
1.29E-10	1.38E-02	1.04E+06	1.11E+14	3.18E+08	1.24E+03	1.32E+11	1.92E+09
7.88E-07	2.75E+00	6.76E+05	2.36E+12	3.18E+08	3.64E+05	1.27E+12	1.92E+09
5.30E-29	5.01E-21	2.49E+05	2.36E+13	3.18E+08	6.68E+05	6.31E+13	1.92E+09
5.07E-24	2.21E-17	1.03E+06	4.49E+12	3.18E+08	4.75E+03	2.06E+10	1.92E+09
1.50E-08	1.80E-02	6.80E+05	8.13E+11	3.18E+08	3.59E+05	4.29E+11	1.92E+09
9.66E-06	6.25E+02	5.11E+05	3.31E+13	3.18E+08	4.61E+05	2.99E+13	1.92E+09
9.12E-18	8.02E-10	9.33E+05	8.15E+13	3.18E+08	1.06E+05	9.28E+12	1.92E+09
1.12E-08	3.02E-01	1.04E+06	2.79E+13	3.18E+08	4.41E+03	1.19E+11	1.92E+09
5.04E-09	2.55E-01	8.95E+05	4.51E+13	3.18E+08	1.30E+05	6.54E+12	1.92E+09
1.31E-30	4.67E-23	1.04E+06	3.67E+13	3.18E+08	1.90E+01	6.72E+08	1.92E+09
6.89E-21	1.72E-13	9.22E+05	2.29E+13	3.18E+08	1.17E+05	2.91E+12	1.92E+09
2.16E-08	8.17E-01	8.65E+05	3.26E+13	3.18E+08	1.75E+05	6.59E+12	1.92E+09
9.63E-26	1.70E-19	1.04E+06	1.83E+12	3.18E+08	6.41E+01	1.13E+08	1.92E+09
8.93E-09	2.69E-01	5.99E+05	1.80E+13	3.18E+08	3.69E+05	1.11E+13	1.92E+09
5.01E-16	1.36E-08	4.44E+05	1.20E+13	3.18E+08	5.91E+05	1.60E+13	1.92E+09
7.80E-15	2.36E-08	1.04E+06	3.12E+12	3.18E+08	1.27E+03	3.81E+09	1.92E+09
1.23E-06	1.22E+01	6.89E+05	6.81E+12	3.18E+08	2.63E+05	2.59E+12	1.92E+09
1.81E-05	4.09E+02	9.44E+05	2.14E+13	3.18E+08	9.50E+04	2.15E+12	1.92E+09
2.89E-12	2.40E-04	6.86E+04	5.70E+12	3.18E+08	7.44E+05	6.17E+13	1.92E+09
1.00E-05	1.46E+02	5.79E+05	8.46E+12	3.18E+08	3.91E+05	5.71E+12	1.92E+09
5.11E-05	5.06E+02	5.19E+05	5.14E+12	3.18E+08	4.70E+05	4.65E+12	1.92E+09
2.19E-06	1.04E+02	7.85E+05	3.72E+13	3.18E+08	2.54E+05	1.21E+13	1.92E+09
1.72E-09	5.34E-03	1.03E+06	3.18E+12	3.18E+08	9.02E+03	2.78E+10	1.92E+09
3.93E-16	9.04E-09	9.98E+05	2.28E+13	3.18E+08	3.84E+02	8.77E+09	1.92E+09
1.01E-19	1.61E-12	9.62E+05	1.52E+13	3.18E+08	1.11E+01	1.75E+08	1.92E+09
7.54E-21	1.24E-13	9.48E+05	1.55E+13	3.18E+08	4.55E+00	7.42E+07	1.92E+09

1.22E-24	1.09E-16	9.37E+05	8.35E+13	3.18E+08	2.43E-02	2.16E+06	1.92E+09
9.41E-07	1.73E+01	9.40E+05	1.73E+13	3.18E+08	9.93E+04	1.83E+12	1.92E+09
5.20E-06	6.80E+01	8.16E+05	1.07E+13	3.18E+08	2.24E+05	2.92E+12	1.92E+09
1.16E-08	1.29E-01	6.12E+05	6.79E+12	3.18E+08	3.48E+05	3.86E+12	1.92E+09
8.67E-06	1.34E+01	3.33E+05	5.13E+11	3.18E+08	6.33E+05	9.75E+11	1.92E+09
9.62E-17	6.79E-09	9.07E+05	6.37E+13	3.18E+08	1.22E+05	8.58E+12	1.92E+09
5.13E-06	4.98E+02	5.87E+05	5.70E+13	3.18E+08	4.38E+05	4.25E+13	1.92E+09
3.12E-12	3.87E-05	6.95E+05	8.56E+12	3.18E+08	3.41E+05	4.19E+12	1.92E+09
2.38E-10	9.05E-04	6.49E+05	2.46E+12	3.18E+08	3.66E+05	1.38E+12	1.92E+09
5.77E-06	2.33E+02	9.90E+05	3.99E+13	3.18E+08	4.96E+04	2.00E+12	1.92E+09
2.85E-07	7.58E-01	9.30E+05	2.47E+12	3.18E+08	1.09E+05	2.89E+11	1.92E+09
3.65E-06	4.96E+01	7.07E+05	9.62E+12	3.18E+08	3.28E+05	4.46E+12	1.92E+09
5.53E-06	4.24E+01	8.49E+05	6.51E+12	3.18E+08	1.89E+05	1.45E+12	1.92E+09
6.54E-36	4.88E-28	3.47E+05	2.58E+13	3.18E+08	6.79E+05	5.04E+13	1.92E+09
1.21E-27	4.56E-21	6.91E+05	2.58E+12	3.18E+08	1.51E+04	5.65E+10	1.92E+09
1.52E-14	3.52E-08	9.87E+05	2.28E+12	3.18E+08	1.19E+03	2.75E+09	1.92E+09
3.65E-19	1.74E-12	8.75E+05	4.13E+12	3.18E+08	5.16E+01	2.44E+08	1.92E+09
3.57E-07	1.33E+00	1.01E+06	3.77E+12	3.18E+08	2.43E+04	9.02E+10	1.92E+09
5.77E-08	3.39E-01	9.94E+05	5.83E+12	3.18E+08	4.51E+04	2.65E+11	1.92E+09
2.52E-11	6.29E-04	2.07E+05	5.14E+12	3.18E+08	7.18E+05	1.78E+13	1.92E+09
1.00E-06	1.65E+01	8.01E+05	1.32E+13	3.18E+08	2.33E+05	3.85E+12	1.92E+09
7.09E-35	2.35E-28	5.95E+05	1.96E+12	3.18E+08	7.45E-01	2.46E+06	1.92E+09
8.00E-06	3.94E+01	3.40E+05	1.68E+12	3.18E+08	6.49E+05	3.20E+12	1.92E+09
2.47E-09	1.61E-02	6.17E+05	4.01E+12	3.18E+08	4.02E+05	2.62E+12	1.92E+09
6.56E-17	5.17E-09	9.44E+05	7.40E+13	3.18E+08	5.20E+04	4.08E+12	1.92E+09
8.44E-07	1.33E+00	2.12E+05	3.33E+11	3.18E+08	8.12E+05	1.28E+12	1.92E+09
9.26E-08	9.88E-01	3.00E+05	3.20E+12	3.18E+08	7.35E+05	7.84E+12	1.92E+09
6.55E-12	1.02E-05	9.99E+05	1.55E+12	3.18E+08	3.22E+04	5.01E+10	1.92E+09
4.96E-17	6.34E-10	5.19E+05	6.60E+12	3.18E+08	4.45E+05	5.66E+12	1.92E+09
1.30E-09	1.41E-02	6.75E+05	7.29E+12	3.18E+08	3.43E+05	3.70E+12	1.92E+09
2.81E-08	1.16E+00	9.16E+05	3.79E+13	3.18E+08	1.24E+05	5.12E+12	1.92E+09
5.55E-08	2.38E+00	1.04E+06	4.43E+13	3.18E+08	2.48E+03	1.06E+11	1.92E+09
6.87E-05	3.22E+03	3.32E+05	1.56E+13	3.18E+08	5.05E+05	2.37E+13	1.92E+09
5.26E-08	8.04E-01	8.79E+05	1.34E+13	3.18E+08	1.55E+05	2.37E+12	1.92E+09
3.45E-08	4.52E-02	1.03E+06	1.34E+12	3.18E+08	8.31E+03	1.08E+10	1.92E+09
1.34E-10	8.21E-03	9.83E+05	6.03E+13	3.18E+08	5.49E+04	3.36E+12	1.92E+09
2.33E-06	1.30E+01	2.50E+05	1.40E+12	3.18E+08	7.69E+05	4.29E+12	1.92E+09
8.36E-16	5.49E-08	1.04E+06	6.77E+13	3.18E+08	1.88E+03	1.23E+11	1.92E+09
9.24E-08	1.31E+00	9.59E+05	1.35E+13	3.18E+08	8.10E+04	1.14E+12	1.92E+09
1.29E-06	3.30E+00	8.48E+05	2.17E+12	3.18E+08	1.92E+05	4.91E+11	1.92E+09
9.71E-06	1.61E+01	9.14E+05	1.52E+12	3.18E+08	1.23E+05	2.05E+11	1.92E+09
1.69E-36	1.30E-28	8.54E+05	6.53E+13	3.18E+08	1.43E+05	1.09E+13	1.92E+09
3.89E-06	3.64E+02	7.04E+05	6.58E+13	3.18E+08	3.28E+05	3.06E+13	1.92E+09
2.61E-08	5.97E-01	9.99E+05	2.27E+13	3.18E+08	3.96E+04	9.01E+11	1.92E+09
2.27E-06	9.59E+01	8.93E+05	3.77E+13	3.18E+08	1.37E+05	5.75E+12	1.92E+09
2.69E-27	7.10E-20	7.25E+05	1.90E+13	3.18E+08	5.49E+04	1.44E+12	1.92E+09
2.10E-23	8.76E-17	4.80E+05	2.00E+12	3.18E+08	4.87E+05	2.03E+12	1.92E+09
8.63E-10	1.22E-03	8.34E+05	1.17E+12	3.18E+08	2.06E+05	2.89E+11	1.92E+09
4.33E-10	1.51E-02	9.16E+05	3.18E+13	3.18E+08	1.20E+05	4.18E+12	1.92E+09
1.60E-07	3.23E+00	6.62E+05	1.33E+13	3.18E+08	3.78E+05	7.59E+12	1.92E+09
3.02E-16	1.13E-09	1.03E+06	3.82E+12	3.18E+08	6.60E+03	2.45E+10	1.92E+09
3.02E-07	2.88E+01	9.67E+05	9.21E+13	3.18E+08	6.12E+04	5.82E+12	1.92E+09
3.67E-08	1.17E+00	1.04E+06	3.30E+13	3.18E+08	2.59E+03	8.23E+10	1.92E+09
3.56E-08	1.28E+00	1.02E+06	3.69E+13	3.18E+08	1.03E+04	3.71E+11	1.92E+09
2.35E-10	1.85E-02	1.40E+05	1.10E+13	3.18E+08	8.77E+05	6.88E+13	1.92E+09

8.52E-07	1.54E+00	1.21E+05	2.19E+11	3.18E+08	9.00E+05	1.63E+12	1.92E+09
6.50E-05	1.67E+02	4.56E+05	1.17E+12	3.18E+08	5.52E+05	1.41E+12	1.92E+09
8.34E-12	1.08E-05	2.46E+05	3.17E+11	3.18E+08	6.40E+05	8.24E+11	1.92E+09
1.72E-08	1.42E-01	8.41E+05	6.95E+12	3.18E+08	1.94E+05	1.60E+12	1.92E+09
1.06E-06	4.62E+01	5.43E+05	2.36E+13	3.18E+08	4.91E+05	2.13E+13	1.92E+09
8.54E-08	2.27E+00	8.87E+05	2.35E+13	3.18E+08	1.53E+05	4.05E+12	1.92E+09
4.97E-04	6.19E+02	1.79E+05	2.23E+11	3.18E+08	8.22E+05	1.03E+12	1.92E+09
2.48E-11	5.80E-05	6.55E+05	1.53E+12	3.18E+08	3.53E+05	8.26E+11	1.92E+09
2.67E-05	9.47E+02	9.02E+05	3.20E+13	3.18E+08	1.36E+05	4.81E+12	1.92E+09
2.07E-04	5.01E+03	5.40E+05	1.31E+13	3.18E+08	4.98E+05	1.21E+13	1.92E+09
9.01E-32	3.82E-24	1.32E+05	5.55E+12	3.18E+08	8.57E+05	3.61E+13	1.92E+09
8.52E-06	9.50E+02	9.82E+05	1.10E+14	3.18E+08	5.73E+04	6.39E+12	1.92E+09
2.03E-18	3.45E-12	1.00E+06	1.69E+12	3.18E+08	3.57E+04	6.03E+10	1.92E+09
3.59E-14	1.85E-07	5.23E+05	2.70E+12	3.18E+08	3.85E+05	1.99E+12	1.92E+09
8.86E-09	1.03E-02	9.31E+05	1.08E+12	3.18E+08	1.04E+05	1.20E+11	1.92E+09
2.13E-24	2.00E-16	8.17E+05	7.62E+13	3.18E+08	5.87E-01	5.47E+07	1.92E+09
1.08E-14	1.91E-07	1.29E+05	2.27E+12	3.18E+08	5.92E+05	1.04E+13	1.92E+09
2.47E-40	1.60E-32	1.04E+06	6.69E+13	3.18E+08	3.39E-02	2.19E+06	1.92E+09
1.06E-06	7.03E+00	7.42E+05	4.94E+12	3.18E+08	2.90E+05	1.93E+12	1.92E+09
7.66E-15	8.23E-07	1.04E+06	1.11E+14	3.18E+08	1.57E+02	1.67E+10	1.92E+09
4.52E-08	1.59E-01	7.34E+05	2.57E+12	3.18E+08	3.05E+05	1.07E+12	1.92E+09
1.60E-15	1.52E-07	7.34E+05	6.94E+13	3.18E+08	2.27E+05	2.15E+13	1.92E+09
1.63E-16	7.10E-10	1.04E+06	4.50E+12	3.18E+08	1.79E+03	7.77E+09	1.92E+09
5.79E-07	6.94E-01	1.02E+06	1.22E+12	3.18E+08	2.00E+04	2.39E+10	1.92E+09
1.43E-06	9.26E+01	7.49E+05	4.85E+13	3.18E+08	2.82E+05	1.83E+13	1.92E+09
2.31E-14	2.02E-06	1.01E+06	8.83E+13	3.18E+08	2.99E+04	2.61E+12	1.92E+09
3.06E-04	8.24E+03	5.82E+05	1.57E+13	3.18E+08	4.38E+05	1.18E+13	1.92E+09
5.07E-07	2.55E+01	1.02E+06	5.13E+13	3.18E+08	2.06E+04	1.04E+12	1.92E+09
8.50E-06	3.01E+02	9.94E+05	3.51E+13	3.18E+08	4.52E+04	1.60E+12	1.92E+09
2.97E-15	7.43E-08	1.04E+06	2.58E+13	3.18E+08	3.93E+01	9.79E+08	1.92E+09
1.63E-26	6.18E-19	9.63E+05	3.63E+13	3.18E+08	1.02E+04	3.82E+11	1.92E+09
4.77E-08	8.42E-02	1.04E+06	1.82E+12	3.18E+08	3.54E+03	6.21E+09	1.92E+09
3.96E-08	1.19E+00	9.77E+05	2.94E+13	3.18E+08	5.48E+04	1.65E+12	1.92E+09
3.17E-08	8.62E-01	1.03E+06	2.80E+13	3.18E+08	6.47E+03	1.75E+11	1.92E+09
1.57E-60	4.77E-54	8.64E+05	2.60E+12	3.18E+08	1.48E+05	4.46E+11	1.92E+09
4.16E-04	4.10E+03	2.75E+05	2.72E+12	3.18E+08	7.51E+05	7.42E+12	1.92E+09
1.15E-24	2.63E-17	8.57E+05	1.94E+13	3.18E+08	5.35E+00	1.21E+08	1.92E+09
7.56E-06	6.27E+02	6.97E+05	5.79E+13	3.18E+08	3.20E+05	2.65E+13	1.92E+09
1.41E-07	2.06E+00	2.07E+05	3.03E+12	3.18E+08	7.92E+05	1.16E+13	1.92E+09
2.68E-07	2.65E+00	4.90E+05	4.85E+12	3.18E+08	5.27E+05	5.22E+12	1.92E+09
3.66E-12	1.73E-04	2.22E+05	1.05E+13	3.18E+08	5.89E+05	2.79E+13	1.92E+09
1.95E-12	6.05E-06	1.03E+06	3.19E+12	3.18E+08	5.05E+03	1.56E+10	1.92E+09
7.25E-21	1.67E-13	7.12E+05	1.63E+13	3.18E+08	9.62E+04	2.20E+12	1.92E+09
7.35E-11	1.16E-03	1.02E+06	1.60E+13	3.18E+08	2.03E+04	3.19E+11	1.92E+09
1.34E-05	2.18E+02	7.95E+05	1.30E+13	3.18E+08	2.33E+05	3.81E+12	1.92E+09
9.14E-26	8.19E-18	2.59E+05	2.31E+13	3.18E+08	5.80E+05	5.17E+13	1.92E+09
1.93E-05	3.55E+02	7.60E+05	1.40E+13	3.18E+08	2.77E+05	5.10E+12	1.92E+09
4.11E-11	5.41E-04	1.04E+06	1.36E+13	3.18E+08	1.05E+03	1.38E+10	1.92E+09
9.35E-07	1.04E+01	9.78E+05	1.08E+13	3.18E+08	6.14E+04	6.81E+11	1.92E+09
3.90E-07	6.01E-01	4.01E+05	6.18E+11	3.18E+08	6.36E+05	9.80E+11	1.92E+09
4.30E-17	3.04E-09	1.02E+06	7.18E+13	3.18E+08	3.10E+02	2.18E+10	1.92E+09
2.73E-17	2.67E-09	2.23E+05	2.17E+13	3.18E+08	5.17E+05	5.02E+13	1.92E+09
1.17E-05	1.44E+02	9.80E+05	1.21E+13	3.18E+08	5.93E+04	7.29E+11	1.92E+09
1.49E-11	5.66E-05	1.02E+06	3.86E+12	3.18E+08	7.87E+03	2.97E+10	1.92E+09
9.40E-08	3.80E+00	1.02E+06	4.11E+13	3.18E+08	2.01E+04	8.11E+11	1.92E+09

2.46E-06	6.55E+00	9.13E+05	2.43E+12	3.18E+08	1.26E+05	3.36E+11	1.92E+09
1.55E-33	2.13E-26	9.32E+05	1.27E+13	3.18E+08	9.08E+04	1.23E+12	1.92E+09
2.03E-05	1.55E+02	4.15E+05	3.18E+12	3.18E+08	6.07E+05	4.65E+12	1.92E+09
8.20E-12	6.11E-04	1.03E+06	7.67E+13	3.18E+08	5.60E+03	4.15E+11	1.92E+09
2.41E-06	9.01E+00	6.78E+05	2.54E+12	3.18E+08	3.61E+05	1.35E+12	1.92E+09
1.41E-12	3.27E-06	8.96E+05	2.06E+12	3.18E+08	1.29E+05	2.96E+11	1.92E+09
4.99E-21	2.37E-14	8.53E+05	4.03E+12	3.18E+08	7.33E-02	3.47E+05	1.92E+09
2.31E-13	8.61E-07	9.48E+05	3.52E+12	3.18E+08	4.75E+03	1.76E+10	1.92E+09
8.76E-07	5.14E+00	9.23E+05	5.41E+12	3.18E+08	1.17E+05	6.86E+11	1.92E+09
8.14E-14	2.03E-06	9.93E+05	2.47E+13	3.18E+08	5.02E+03	1.25E+11	1.92E+09
8.31E-08	1.37E+00	9.02E+05	1.49E+13	3.18E+08	1.38E+05	2.27E+12	1.92E+09
1.32E-07	4.36E-01	9.38E+05	3.09E+12	3.18E+08	8.52E+04	2.81E+11	1.92E+09
9.23E-06	4.54E+01	7.44E+05	3.67E+12	3.18E+08	2.89E+05	1.42E+12	1.92E+09
2.06E-18	1.35E-11	9.97E+04	6.49E+11	3.18E+08	8.02E+05	5.22E+12	1.92E+09
1.97E-07	1.54E+01	4.31E+05	3.38E+13	3.18E+08	5.57E+05	4.37E+13	1.92E+09
2.03E-13	3.21E-07	8.84E+05	1.39E+12	3.18E+08	7.99E+04	1.26E+11	1.92E+09
2.01E-15	2.14E-08	9.01E+05	9.61E+12	3.18E+08	1.07E+05	1.14E+12	1.92E+09
1.04E-09	1.62E-03	1.03E+06	1.60E+12	3.18E+08	3.14E+03	4.88E+09	1.92E+09
5.45E-21	6.97E-14	9.52E+05	1.21E+13	3.18E+08	2.63E+01	3.34E+08	1.92E+09
1.80E-06	1.94E+01	9.41E+05	1.02E+13	3.18E+08	9.28E+04	1.00E+12	1.92E+09
1.89E-16	7.84E-09	1.00E+06	4.14E+13	3.18E+08	3.88E+04	1.61E+12	1.92E+09
1.83E-22	7.87E-15	1.02E+06	4.37E+13	3.18E+08	4.36E+02	1.86E+10	1.92E+09
1.79E-07	8.37E+00	6.81E+05	3.19E+13	3.18E+08	3.06E+05	1.44E+13	1.92E+09
8.64E-05	1.32E+03	1.52E+05	2.33E+12	3.18E+08	8.65E+05	1.32E+13	1.92E+09
3.50E-26	4.59E-20	1.04E+06	1.35E+12	3.18E+08	5.32E+00	6.93E+06	1.92E+09
3.17E-24	1.95E-16	9.19E+05	5.63E+13	3.18E+08	6.44E+02	3.95E+10	1.92E+09
4.38E-10	2.46E-03	6.33E+05	3.53E+12	3.18E+08	3.94E+05	2.20E+12	1.92E+09
3.87E-78	2.54E-70	6.71E+05	4.38E+13	3.18E+08	4.29E-07	2.80E+01	1.92E+09
3.02E-17	4.27E-10	1.02E+06	1.44E+13	3.18E+08	9.48E+03	1.33E+11	1.92E+09
1.96E-20	5.05E-14	1.01E+06	2.59E+12	3.18E+08	2.68E+04	6.86E+10	1.92E+09
3.52E-07	5.85E-01	1.02E+06	1.69E+12	3.18E+08	1.58E+04	2.62E+10	1.92E+09
3.27E-12	2.51E-04	1.03E+06	7.90E+13	3.18E+08	4.48E+03	3.42E+11	1.92E+09
7.19E-12	6.76E-04	9.88E+05	9.24E+13	3.18E+08	2.53E+03	2.36E+11	1.92E+09
2.91E-07	6.63E+00	7.98E+05	1.81E+13	3.18E+08	2.33E+05	5.29E+12	1.92E+09
7.06E-08	2.98E+00	1.02E+06	4.30E+13	3.18E+08	1.27E+04	5.34E+11	1.92E+09
5.48E-06	1.44E+02	7.12E+05	1.87E+13	3.18E+08	2.67E+05	6.99E+12	1.92E+09
2.04E-08	8.52E-02	7.57E+05	3.15E+12	3.18E+08	2.83E+05	1.18E+12	1.92E+09
7.08E-08	9.97E-02	1.01E+06	1.42E+12	3.18E+08	2.64E+04	3.71E+10	1.92E+09
8.49E-21	2.97E-13	8.19E+05	2.85E+13	3.18E+08	1.95E+05	6.76E+12	1.92E+09
9.21E-06	1.85E+02	3.02E+05	6.08E+12	3.18E+08	7.36E+05	1.48E+13	1.92E+09
2.01E-06	7.49E+00	8.19E+05	3.04E+12	3.18E+08	1.23E+05	4.58E+11	1.92E+09
1.66E-10	1.58E-02	4.99E+05	4.75E+13	3.18E+08	4.67E+05	4.44E+13	1.92E+09
2.19E-07	6.98E+00	7.54E+05	2.40E+13	3.18E+08	2.85E+05	9.07E+12	1.92E+09
4.94E-04	1.78E+04	5.97E+05	2.15E+13	3.18E+08	3.42E+05	1.23E+13	1.92E+09
5.72E-09	4.49E-01	5.88E+05	4.62E+13	3.18E+08	4.30E+05	3.37E+13	1.92E+09
1.78E-11	3.24E-05	6.23E+05	1.13E+12	3.18E+08	1.94E+05	3.50E+11	1.92E+09
5.23E-37	1.35E-30	8.59E+05	2.20E+12	3.18E+08	1.14E-01	2.92E+05	1.92E+09
2.88E-09	3.71E-03	5.83E+05	7.52E+11	3.18E+08	4.29E+05	5.53E+11	1.92E+09
3.62E-06	2.99E+01	8.64E+05	7.14E+12	3.18E+08	1.76E+05	1.45E+12	1.92E+09
6.78E-10	2.95E-02	2.08E+04	9.03E+11	3.18E+08	9.57E+05	4.16E+13	1.92E+09
6.32E-10	1.68E-02	1.04E+06	2.75E+13	3.18E+08	1.14E+03	3.03E+10	1.92E+09
6.99E-04	8.72E+02	3.20E+05	3.99E+11	3.18E+08	6.70E+05	8.36E+11	1.92E+09
5.68E-14	1.34E-07	1.00E+06	2.35E+12	3.18E+08	3.18E+03	7.43E+09	1.92E+09
1.00E-06	3.56E+01	4.37E+05	1.55E+13	3.18E+08	4.54E+05	1.61E+13	1.92E+09
6.62E-25	1.62E-17	9.62E+05	2.33E+13	3.18E+08	1.67E+01	4.04E+08	1.92E+09

1.11E-08	4.70E-01	7.05E+05	2.97E+13	3.18E+08	3.35E+05	1.41E+13	1.92E+09
1.53E-04	1.71E+04	3.54E+05	3.95E+13	3.18E+08	4.69E+05	5.24E+13	1.92E+09
4.88E-39	8.30E-33	1.02E+06	1.72E+12	3.18E+08	1.97E+04	3.32E+10	1.92E+09
4.21E-13	2.18E-06	7.56E+05	3.90E+12	3.18E+08	6.91E+02	3.56E+09	1.92E+09
1.76E-11	2.03E-05	9.71E+05	1.12E+12	3.18E+08	6.46E+04	7.47E+10	1.92E+09
4.21E-07	3.93E+01	1.02E+06	9.56E+13	3.18E+08	1.42E+04	1.32E+12	1.92E+09
2.94E-06	5.17E+01	6.47E+05	1.14E+13	3.18E+08	3.92E+05	6.88E+12	1.92E+09
4.10E-24	2.66E-16	8.86E+05	5.72E+13	3.18E+08	1.53E+05	9.85E+12	1.92E+09
2.43E-15	1.63E-08	9.65E+05	6.42E+12	3.18E+08	5.99E+02	3.98E+09	1.92E+09
6.94E-14	7.46E-06	9.87E+05	1.05E+14	3.18E+08	5.32E+04	5.68E+12	1.92E+09
1.63E-07	5.70E-01	9.73E+05	3.40E+12	3.18E+08	6.60E+04	2.31E+11	1.92E+09
2.94E-06	2.78E+02	4.84E+05	4.58E+13	3.18E+08	5.49E+05	5.19E+13	1.92E+09
2.69E-13	1.17E-06	1.04E+06	4.51E+12	3.18E+08	1.18E+02	5.10E+08	1.92E+09
2.37E-06	2.83E+00	6.91E+05	8.26E+11	3.18E+08	3.49E+05	4.17E+11	1.92E+09
1.31E-06	8.46E+01	6.82E+05	4.42E+13	3.18E+08	3.04E+05	1.97E+13	1.92E+09
6.30E-09	5.54E-01	9.74E+05	8.51E+13	3.18E+08	6.61E+04	5.78E+12	1.92E+09
6.60E-06	1.78E+02	1.00E+06	2.70E+13	3.18E+08	3.69E+04	9.94E+11	1.92E+09
9.10E-12	4.58E-04	4.47E+05	2.25E+13	3.18E+08	5.44E+05	2.74E+13	1.92E+09
4.20E-12	1.50E-04	9.77E+05	3.45E+13	3.18E+08	6.38E+04	2.26E+12	1.92E+09
1.22E-17	3.06E-10	1.04E+06	2.58E+13	3.18E+08	7.34E+02	1.82E+10	1.92E+09
1.01E-06	3.80E+01	3.91E+05	1.47E+13	3.18E+08	6.48E+05	2.44E+13	1.92E+09
3.64E-12	6.43E-06	1.02E+06	1.80E+12	3.18E+08	1.56E+04	2.74E+10	1.92E+09
6.48E-05	1.95E+03	6.82E+05	2.05E+13	3.18E+08	3.55E+05	1.07E+13	1.92E+09
9.39E-17	2.56E-09	1.04E+06	2.81E+13	3.18E+08	6.60E+01	1.78E+09	1.92E+09
9.92E-11	3.00E-04	5.64E+05	1.70E+12	3.18E+08	4.73E+05	1.42E+12	1.92E+09
1.94E-06	1.92E+01	5.39E+05	5.33E+12	3.18E+08	4.92E+05	4.86E+12	1.92E+09
1.06E-08	2.41E-01	7.98E+05	1.81E+13	3.18E+08	1.62E+05	3.68E+12	1.92E+09
1.45E-07	1.21E+01	9.59E+05	7.97E+13	3.18E+08	7.68E+04	6.37E+12	1.92E+09
3.98E-06	5.82E+01	8.23E+05	1.20E+13	3.18E+08	2.06E+05	3.01E+12	1.92E+09
5.98E-06	5.91E+01	6.30E+05	6.23E+12	3.18E+08	3.18E+05	3.14E+12	1.92E+09
1.72E-08	8.18E-01	5.05E+05	2.40E+13	3.18E+08	5.19E+05	2.46E+13	1.92E+09
4.01E-10	1.24E-03	8.13E+05	2.51E+12	3.18E+08	2.27E+05	6.99E+11	1.92E+09
4.49E-06	1.03E+02	6.99E+05	1.60E+13	3.18E+08	3.36E+05	7.69E+12	1.92E+09
1.83E-10	2.90E-03	9.83E+05	1.55E+13	3.18E+08	4.30E+04	6.77E+11	1.92E+09
1.48E-09	2.43E-02	1.03E+06	1.69E+13	3.18E+08	4.39E+03	7.16E+10	1.92E+09
4.21E-07	3.74E+01	5.66E+05	5.04E+13	3.18E+08	4.74E+05	4.22E+13	1.92E+09
1.25E-05	2.31E+02	3.29E+05	6.07E+12	3.18E+08	6.32E+05	1.16E+13	1.92E+09
1.63E-08	2.14E-01	1.03E+06	1.35E+13	3.18E+08	8.44E+03	1.10E+11	1.92E+09
3.47E-05	3.85E+02	6.85E+05	7.60E+12	3.18E+08	3.49E+05	3.87E+12	1.92E+09
6.08E-10	9.42E-04	8.55E+05	1.32E+12	3.18E+08	1.81E+05	2.78E+11	1.92E+09
5.13E-08	3.62E+00	1.03E+06	7.23E+13	3.18E+08	9.49E+03	6.66E+11	1.92E+09
3.06E-08	2.97E+00	9.03E+05	8.77E+13	3.18E+08	1.24E+05	1.21E+13	1.92E+09
7.53E-18	9.32E-11	1.04E+06	1.28E+13	3.18E+08	1.57E+03	1.93E+10	1.92E+09
1.69E-09	6.40E-03	2.26E+05	8.53E+11	3.18E+08	8.09E+05	3.06E+12	1.92E+09
8.88E-09	3.60E-01	1.03E+06	4.17E+13	3.18E+08	6.79E+03	2.74E+11	1.92E+09
5.66E-06	1.50E+01	9.55E+05	2.54E+12	3.18E+08	8.36E+04	2.22E+11	1.92E+09
2.14E-08	2.92E-01	9.95E+05	1.35E+13	3.18E+08	4.38E+04	5.95E+11	1.92E+09
1.48E-08	1.14E-01	8.02E+05	6.15E+12	3.18E+08	2.36E+05	1.81E+12	1.92E+09
7.83E-16	5.85E-08	1.03E+06	7.63E+13	3.18E+08	1.00E+04	7.45E+11	1.92E+09
9.22E-10	3.46E-03	7.99E+05	2.99E+12	3.18E+08	2.26E+05	8.46E+11	1.92E+09
3.32E-06	7.64E+00	3.80E+05	8.77E+11	3.18E+08	6.58E+05	1.52E+12	1.92E+09
3.87E-16	1.84E-09	9.55E+05	4.52E+12	3.18E+08	1.01E+04	4.79E+10	1.92E+09
1.18E-06	4.39E+00	7.31E+05	2.71E+12	3.18E+08	3.08E+05	1.14E+12	1.92E+09
7.53E-07	4.43E+00	5.34E+05	3.13E+12	3.18E+08	5.05E+05	2.96E+12	1.92E+09
7.63E-21	1.91E-13	8.48E+05	2.11E+13	3.18E+08	1.58E+04	3.93E+11	1.92E+09

2.48E-05	4.09E+02	9.47E+05	1.56E+13	3.18E+08	9.26E+04	1.53E+12	1.92E+09
3.28E-08	1.08E-01	9.85E+05	3.25E+12	3.18E+08	5.04E+04	1.66E+11	1.92E+09
1.27E-06	6.24E+00	6.05E+04	2.98E+11	3.18E+08	8.18E+05	4.03E+12	1.92E+09
4.81E-11	3.14E-04	2.16E+05	1.41E+12	3.18E+08	8.16E+05	5.31E+12	1.92E+09
3.93E-10	3.09E-02	1.01E+06	7.88E+13	3.18E+08	2.39E+04	1.87E+12	1.92E+09
9.97E-13	1.58E-06	4.07E+05	6.41E+11	3.18E+08	5.60E+05	8.80E+11	1.92E+09
5.56E-12	5.95E-05	7.63E+05	8.15E+12	3.18E+08	2.53E+05	2.70E+12	1.92E+09
1.35E-21	2.11E-15	9.97E+05	1.55E+12	3.18E+08	1.87E+04	2.91E+10	1.92E+09
3.55E-09	4.53E-02	6.20E+05	7.88E+12	3.18E+08	3.53E+05	4.49E+12	1.92E+09
1.81E-07	1.96E+00	1.00E+06	1.08E+13	3.18E+08	3.41E+04	3.67E+11	1.92E+09
6.95E-24	2.90E-16	1.04E+06	4.30E+13	3.18E+08	2.55E+02	1.06E+10	1.92E+09
2.44E-36	1.05E-28	1.01E+06	4.29E+13	3.18E+08	1.53E+02	6.51E+09	1.92E+09
5.69E-20	2.68E-12	2.11E+03	9.92E+10	3.18E+08	5.91E+05	2.77E+13	1.92E+09
3.02E-05	4.61E+02	6.40E+05	9.78E+12	3.18E+08	3.83E+05	5.85E+12	1.92E+09
2.09E-16	2.75E-10	1.00E+06	1.31E+12	3.18E+08	3.27E+04	4.26E+10	1.92E+09
1.23E-09	7.58E-02	9.68E+05	5.93E+13	3.18E+08	6.83E+04	4.19E+12	1.92E+09
8.87E-15	4.98E-08	1.00E+06	5.59E+12	3.18E+08	7.49E+01	4.18E+08	1.92E+09
9.51E-17	6.24E-09	2.29E+05	1.49E+13	3.18E+08	8.00E+05	5.22E+13	1.92E+09
2.22E-11	3.14E-04	9.80E+05	1.38E+13	3.18E+08	5.86E+04	8.25E+11	1.92E+09
1.30E-05	3.32E+01	1.02E+06	2.62E+12	3.18E+08	9.28E+03	2.38E+10	1.92E+09
1.13E-08	1.88E-02	7.04E+05	1.17E+12	3.18E+08	3.07E+05	5.09E+11	1.92E+09
4.20E-07	3.22E+01	5.21E+05	3.98E+13	3.18E+08	5.16E+05	3.94E+13	1.92E+09
2.44E-08	2.29E+00	7.60E+05	7.11E+13	3.18E+08	2.75E+05	2.57E+13	1.92E+09
3.41E-06	7.76E+01	8.77E+05	1.99E+13	3.18E+08	1.60E+05	3.64E+12	1.92E+09
1.92E-12	8.16E-05	9.31E+05	3.93E+13	3.18E+08	6.40E+04	2.70E+12	1.92E+09
1.10E-04	2.87E+03	8.15E+05	2.14E+13	3.18E+08	1.98E+05	5.20E+12	1.92E+09
5.17E-13	2.17E-06	1.04E+06	4.32E+12	3.18E+08	3.18E+03	1.32E+10	1.92E+09
4.28E-09	6.02E-03	2.50E+05	3.52E+11	3.18E+08	7.85E+05	1.10E+12	1.92E+09
5.91E-22	2.07E-14	1.02E+06	3.55E+13	3.18E+08	6.97E+01	2.42E+09	1.92E+09
3.16E-06	6.35E+01	9.89E+05	1.99E+13	3.18E+08	5.03E+04	1.01E+12	1.92E+09
3.13E-37	1.17E-30	4.10E+05	1.52E+12	3.18E+08	4.49E+05	1.67E+12	1.92E+09
4.93E-06	4.69E+02	8.89E+05	8.47E+13	3.18E+08	1.49E+05	1.42E+13	1.92E+09
2.03E-15	6.49E-08	1.04E+06	3.29E+13	3.18E+08	1.88E+03	5.99E+10	1.92E+09
1.35E-09	4.87E-02	5.12E+05	1.84E+13	3.18E+08	5.19E+05	1.87E+13	1.92E+09
2.71E-10	2.13E-02	9.01E+04	7.07E+12	3.18E+08	6.29E+05	4.94E+13	1.92E+09
8.84E-25	1.61E-18	7.04E+05	1.27E+12	3.18E+08	5.37E+04	9.72E+10	1.92E+09
8.28E-07	2.12E+00	2.60E+05	6.65E+11	3.18E+08	7.35E+05	1.88E+12	1.92E+09
2.12E-05	2.73E+01	6.12E+05	7.88E+11	3.18E+08	4.19E+05	5.40E+11	1.92E+09
3.68E-07	3.04E+00	7.08E+05	5.85E+12	3.18E+08	3.26E+05	2.69E+12	1.92E+09
3.32E-04	1.44E+04	8.26E+05	3.59E+13	3.18E+08	2.13E+05	9.24E+12	1.92E+09
3.43E-20	9.16E-13	1.04E+06	2.75E+13	3.18E+08	2.38E+01	6.32E+08	1.92E+09
1.43E-06	1.78E+00	8.30E+05	1.04E+12	3.18E+08	2.10E+05	2.62E+11	1.92E+09
7.23E-07	1.69E+00	6.48E+05	1.52E+12	3.18E+08	3.92E+05	9.17E+11	1.92E+09
2.93E-06	1.04E+02	9.62E+05	3.41E+13	3.18E+08	7.49E+04	2.66E+12	1.92E+09
4.03E-10	9.81E-03	1.03E+06	2.50E+13	3.18E+08	7.32E+03	1.77E+11	1.92E+09
2.12E-12	8.94E-05	1.39E+05	5.84E+12	3.18E+08	8.96E+05	3.77E+13	1.92E+09
3.24E-07	3.62E+01	3.24E+05	3.61E+13	3.18E+08	6.76E+05	7.55E+13	1.92E+09
2.01E-09	3.40E-03	1.04E+06	1.75E+12	3.18E+08	6.67E+02	1.13E+09	1.92E+09
2.94E-06	1.51E+01	6.92E+04	3.57E+11	3.18E+08	8.61E+05	4.44E+12	1.92E+09
5.17E-32	6.01E-26	1.23E+05	1.42E+11	3.18E+08	7.25E+05	8.38E+11	1.92E+09
1.39E-09	1.30E-01	8.97E+05	8.37E+13	3.18E+08	1.39E+05	1.30E+13	1.92E+09
5.45E-08	9.55E-01	8.72E+05	1.53E+13	3.18E+08	1.61E+05	2.83E+12	1.92E+09
3.68E-12	2.39E-04	1.03E+06	6.67E+13	3.18E+08	6.78E+03	4.37E+11	1.92E+09
2.54E-11	1.70E-04	8.23E+05	5.48E+12	3.18E+08	2.01E+05	1.33E+12	1.92E+09
7.74E-13	8.32E-05	1.04E+06	1.11E+14	3.18E+08	3.50E+03	3.73E+11	1.92E+09

6.78E-17	2.37E-10	6.27E+04	2.19E+11	3.18E+08	9.70E+05	3.39E+12	1.92E+09
1.01E-13	9.56E-06	5.80E+05	5.48E+13	3.18E+08	4.25E+05	4.02E+13	1.92E+09
4.41E-12	1.91E-05	1.03E+06	4.49E+12	3.18E+08	1.15E+03	4.98E+09	1.92E+09
9.12E-10	1.10E-03	9.48E+05	1.13E+12	3.18E+08	9.15E+04	1.09E+11	1.92E+09
5.33E-17	3.47E-09	3.70E+05	2.40E+13	3.18E+08	5.50E+05	3.56E+13	1.92E+09
2.70E-08	2.37E+00	1.03E+06	9.04E+13	3.18E+08	5.74E+03	5.01E+11	1.92E+09
9.98E-10	2.70E-02	1.04E+06	2.79E+13	3.18E+08	4.28E+03	1.15E+11	1.92E+09
2.22E-15	1.12E-07	1.03E+06	5.18E+13	3.18E+08	1.04E+02	5.25E+09	1.92E+09
2.30E-65	8.18E-58	1.49E+05	5.27E+12	3.18E+08	8.11E+05	2.87E+13	1.92E+09
1.29E-10	3.23E-03	7.92E+05	1.97E+13	3.18E+08	2.45E+05	6.08E+12	1.92E+09
4.02E-19	1.53E-11	9.85E+05	3.71E+13	3.18E+08	1.04E+04	3.90E+11	1.92E+09
9.22E-18	1.63E-11	1.04E+06	1.83E+12	3.18E+08	2.08E+02	3.65E+08	1.92E+09
5.33E-04	1.60E+04	4.21E+05	1.27E+13	3.18E+08	3.28E+05	9.87E+12	1.92E+09
1.61E-10	4.36E-03	9.71E+05	2.63E+13	3.18E+08	6.80E+04	1.84E+12	1.92E+09
1.85E-09	5.61E-03	7.89E+05	2.38E+12	3.18E+08	2.50E+05	7.53E+11	1.92E+09
1.42E-08	1.40E-01	7.72E+05	7.62E+12	3.18E+08	2.67E+05	2.64E+12	1.92E+09
1.11E-15	2.53E-08	6.15E+05	1.40E+13	3.18E+08	6.50E+04	1.48E+12	1.92E+09
3.70E-11	3.08E-03	7.51E+05	6.24E+13	3.18E+08	2.67E+05	2.21E+13	1.92E+09
3.23E-11	4.74E-04	9.65E+05	1.41E+13	3.18E+08	6.48E+04	9.47E+11	1.92E+09
3.24E-12	3.22E-05	9.86E+05	9.76E+12	3.18E+08	9.11E+03	9.01E+10	1.92E+09
6.37E-05	3.02E+03	9.04E+05	4.29E+13	3.18E+08	1.36E+05	6.43E+12	1.92E+09
1.14E-26	3.54E-20	1.03E+06	3.18E+12	3.18E+08	1.08E+03	3.32E+09	1.92E+09
9.95E-15	2.29E-07	7.44E+05	1.70E+13	3.18E+08	2.19E+05	5.01E+12	1.92E+09
5.62E-04	8.85E+03	6.04E+05	9.52E+12	3.18E+08	4.02E+05	6.33E+12	1.92E+09
8.52E-18	1.40E-10	2.34E+05	3.81E+12	3.18E+08	5.38E+05	8.78E+12	1.92E+09
1.56E-06	1.39E+02	5.27E+05	4.69E+13	3.18E+08	5.09E+05	4.53E+13	1.92E+09
3.94E-07	7.26E+00	4.85E+05	8.93E+12	3.18E+08	5.40E+05	9.95E+12	1.92E+09
3.22E-06	4.22E+01	8.72E+05	1.14E+13	3.18E+08	1.68E+05	2.19E+12	1.92E+09
7.19E-26	8.04E-19	4.09E+05	4.54E+12	3.18E+08	8.64E+04	9.59E+11	1.92E+09
1.27E-05	1.96E+01	3.58E+05	5.52E+11	3.18E+08	6.53E+05	1.01E+12	1.92E+09
2.28E-07	1.60E+01	6.46E+05	4.54E+13	3.18E+08	3.93E+05	2.76E+13	1.92E+09
8.15E-09	7.93E-01	2.66E+05	2.59E+13	3.18E+08	5.79E+05	5.62E+13	1.92E+09
3.70E-13	4.58E-06	1.04E+06	1.28E+13	3.18E+08	7.59E+02	9.34E+09	1.92E+09
6.47E-06	2.45E+01	9.49E+05	3.59E+12	3.18E+08	9.09E+04	3.44E+11	1.92E+09
1.79E-05	7.20E+02	9.54E+05	3.85E+13	3.18E+08	8.52E+04	3.43E+12	1.92E+09
7.99E-10	2.13E-03	3.40E+05	9.03E+11	3.18E+08	6.65E+05	1.77E+12	1.92E+09
2.80E-42	3.83E-35	9.99E+05	1.36E+13	3.18E+08	4.91E-06	6.68E+01	1.92E+09
6.45E-11	4.97E-04	9.63E+05	7.38E+12	3.18E+08	6.66E+04	5.11E+11	1.92E+09
7.51E-09	5.59E-01	6.42E+05	4.76E+13	3.18E+08	3.79E+05	2.81E+13	1.92E+09
2.27E-07	8.52E-01	1.02E+06	3.82E+12	3.18E+08	1.72E+04	6.41E+10	1.92E+09
1.01E-04	2.32E+02	6.92E+05	1.60E+12	3.18E+08	3.44E+05	7.92E+11	1.92E+09
1.36E-12	6.44E-06	9.75E+05	4.61E+12	3.18E+08	4.92E+03	2.33E+10	1.92E+09
7.58E-07	2.82E+00	9.80E+05	3.63E+12	3.18E+08	5.94E+04	2.20E+11	1.92E+09
1.23E-29	7.25E-23	1.56E+05	9.16E+11	3.18E+08	7.15E+05	4.19E+12	1.92E+09
7.28E-07	1.81E+01	5.62E+05	1.40E+13	3.18E+08	4.26E+05	1.06E+13	1.92E+09
5.04E-09	8.32E-02	7.92E+05	1.31E+13	3.18E+08	2.25E+05	3.71E+12	1.92E+09
1.31E-11	4.32E-05	8.11E+05	2.67E+12	3.18E+08	2.00E+05	6.58E+11	1.92E+09
9.28E-06	4.57E+01	5.40E+05	2.66E+12	3.18E+08	4.95E+05	2.44E+12	1.92E+09
5.72E-18	3.74E-11	2.27E+05	1.48E+12	3.18E+08	7.62E+05	4.96E+12	1.92E+09
5.92E-12	4.67E-04	7.36E+05	5.77E+13	3.18E+08	2.66E+05	2.08E+13	1.92E+09
7.80E-23	1.23E-16	8.94E+04	1.41E+11	3.18E+08	6.26E+05	9.85E+11	1.92E+09
5.72E-06	6.10E+01	3.21E+05	3.42E+12	3.18E+08	6.55E+05	6.99E+12	1.92E+09
6.75E-06	1.05E+01	5.86E+05	9.11E+11	3.18E+08	4.46E+05	6.93E+11	1.92E+09
1.86E-08	2.37E-01	8.00E+05	1.02E+13	3.18E+08	2.26E+05	2.87E+12	1.92E+09
1.34E-19	1.45E-12	7.80E+04	8.42E+11	3.18E+08	7.64E+05	8.25E+12	1.92E+09

1.00E-10	4.15E-03	7.41E+05	3.07E+13	3.18E+08	2.65E+05	1.10E+13	1.92E+09
1.65E-32	7.07E-25	1.02E+06	4.37E+13	3.18E+08	6.05E+03	2.58E+11	1.92E+09
2.31E-30	1.09E-22	1.32E+05	6.17E+12	3.18E+08	3.68E+05	1.73E+13	1.92E+09
2.94E-06	4.48E+01	9.46E+05	1.44E+13	3.18E+08	4.90E+04	7.48E+11	1.92E+09
5.09E-15	6.68E-09	8.37E+05	1.09E+12	3.18E+08	1.98E+05	2.58E+11	1.92E+09
3.96E-06	2.43E+02	8.88E+05	5.44E+13	3.18E+08	1.45E+05	8.90E+12	1.92E+09
8.71E-07	4.86E+00	5.36E+05	2.99E+12	3.18E+08	4.91E+05	2.74E+12	1.92E+09
1.30E-07	8.54E+00	1.02E+06	6.68E+13	3.18E+08	1.55E+04	1.01E+12	1.92E+09
1.46E-15	2.07E-08	1.03E+06	1.44E+13	3.18E+08	9.19E+03	1.29E+11	1.92E+09
6.86E-15	1.77E-08	1.04E+06	2.66E+12	3.18E+08	4.17E+01	1.07E+08	1.92E+09
6.26E-08	1.04E-01	8.21E+05	1.37E+12	3.18E+08	1.98E+05	3.28E+11	1.92E+09
6.76E-11	5.20E-03	4.09E+05	3.13E+13	3.18E+08	6.09E+05	4.65E+13	1.92E+09
5.69E-08	5.34E+00	6.09E+05	5.69E+13	3.18E+08	4.30E+05	4.02E+13	1.92E+09
4.56E-12	1.04E-04	1.03E+06	2.34E+13	3.18E+08	5.61E+03	1.28E+11	1.92E+09
1.38E-05	5.83E+02	7.30E+05	3.08E+13	3.18E+08	2.47E+05	1.04E+13	1.92E+09
3.37E-13	8.89E-06	9.27E+05	2.43E+13	3.18E+08	3.31E+04	8.68E+11	1.92E+09
2.10E-07	8.80E-01	6.59E+05	2.74E+12	3.18E+08	3.80E+05	1.58E+12	1.92E+09
1.69E-12	2.39E-06	9.52E+05	1.34E+12	3.18E+08	8.03E+04	1.13E+11	1.92E+09
1.67E-09	5.83E-02	7.02E+05	2.44E+13	3.18E+08	3.37E+05	1.17E+13	1.92E+09
1.07E-19	2.17E-12	8.83E+05	1.78E+13	3.18E+08	2.46E+04	4.94E+11	1.92E+09
2.10E-35	7.87E-29	9.85E+05	3.66E+12	3.18E+08	1.30E+03	4.83E+09	1.92E+09
1.26E-09	1.20E-01	9.61E+05	9.15E+13	3.18E+08	6.58E+04	6.26E+12	1.92E+09
3.81E-25	1.22E-17	9.50E+05	3.02E+13	3.18E+08	4.54E+04	1.44E+12	1.92E+09
6.75E-08	2.43E+00	5.27E+05	1.90E+13	3.18E+08	2.95E+05	1.06E+13	1.92E+09
2.40E-05	1.88E+03	4.26E+05	3.35E+13	3.18E+08	5.81E+05	4.56E+13	1.92E+09
1.18E-10	2.15E-04	9.93E+05	1.80E+12	3.18E+08	8.88E+03	1.61E+10	1.92E+09
8.32E-20	2.15E-13	9.66E+05	2.48E+12	3.18E+08	8.33E+00	2.13E+07	1.92E+09
4.95E-09	6.39E-03	8.61E+05	1.11E+12	3.18E+08	1.37E+05	1.76E+11	1.92E+09
7.00E-08	5.80E-01	9.48E+05	7.83E+12	3.18E+08	8.89E+04	7.34E+11	1.92E+09
3.05E-05	1.32E+03	8.68E+05	3.78E+13	3.18E+08	1.67E+05	7.28E+12	1.92E+09
7.85E-26	2.09E-18	1.04E+06	2.75E+13	3.18E+08	3.07E+01	8.13E+08	1.92E+09
1.62E-06	2.02E+00	9.79E+05	1.22E+12	3.18E+08	5.87E+04	7.33E+10	1.92E+09
9.22E-07	2.16E+00	5.95E+05	1.39E+12	3.18E+08	4.44E+05	1.04E+12	1.92E+09
4.25E-08	1.51E+00	2.45E+05	8.68E+12	3.18E+08	6.57E+05	2.33E+13	1.92E+09
9.71E-11	2.37E-03	9.13E+05	2.21E+13	3.18E+08	1.24E+05	2.99E+12	1.92E+09
1.44E-08	6.11E-01	1.04E+06	4.36E+13	3.18E+08	4.81E+03	2.02E+11	1.92E+09
1.53E-08	1.70E+00	8.03E+05	8.96E+13	3.18E+08	1.81E+05	2.01E+13	1.92E+09
2.39E-07	4.05E-01	7.61E+05	1.28E+12	3.18E+08	2.79E+05	4.71E+11	1.92E+09
1.57E-07	8.11E-01	9.73E+05	5.01E+12	3.18E+08	6.51E+04	3.35E+11	1.92E+09
5.35E-12	6.21E-06	9.30E+05	1.07E+12	3.18E+08	1.44E+04	1.67E+10	1.92E+09
1.23E-11	1.15E-03	5.26E+05	4.91E+13	3.18E+08	4.03E+05	3.76E+13	1.92E+09
2.47E-19	4.37E-12	6.11E+05	1.07E+13	3.18E+08	2.62E+05	4.60E+12	1.92E+09
3.43E-16	2.22E-08	1.01E+06	6.54E+13	3.18E+08	2.73E+04	1.76E+12	1.92E+09
1.53E-06	1.02E+01	2.66E+05	1.77E+12	3.18E+08	7.35E+05	4.89E+12	1.92E+09
1.64E-11	1.76E-03	5.33E+05	5.69E+13	3.18E+08	5.06E+05	5.40E+13	1.92E+09
3.26E-13	1.15E-06	6.35E+05	2.22E+12	3.18E+08	4.02E+05	1.40E+12	1.92E+09
1.30E-06	1.23E+02	5.78E+05	5.46E+13	3.18E+08	4.54E+05	4.29E+13	1.92E+09
1.35E-07	5.86E-01	9.63E+05	4.17E+12	3.18E+08	7.69E+04	3.33E+11	1.92E+09
2.78E-06	3.32E+00	8.03E+05	9.59E+11	3.18E+08	2.32E+05	2.77E+11	1.92E+09
7.45E-13	4.85E-05	9.68E+05	6.27E+13	3.18E+08	2.83E+04	1.83E+12	1.92E+09
1.02E-05	8.93E+02	9.33E+05	8.16E+13	3.18E+08	1.07E+05	9.35E+12	1.92E+09
4.87E-08	1.32E+00	1.03E+06	2.78E+13	3.18E+08	7.30E+03	1.96E+11	1.92E+09
1.89E-03	9.52E+04	5.11E+05	2.58E+13	3.18E+08	5.25E+05	2.65E+13	1.92E+09
3.09E-09	1.10E-01	1.01E+06	3.57E+13	3.18E+08	3.01E+04	1.06E+12	1.92E+09
2.88E-13	7.19E-06	1.03E+06	2.57E+13	3.18E+08	5.12E+03	1.27E+11	1.92E+09

2.51E-10	9.51E-03	6.76E+05	2.55E+13	3.18E+08	3.02E+05	1.14E+13	1.92E+09
1.22E-20	2.15E-14	1.04E+06	1.82E+12	3.18E+08	2.16E+03	3.79E+09	1.92E+09
1.14E-10	3.43E-03	6.40E+05	1.93E+13	3.18E+08	2.85E+05	8.58E+12	1.92E+09
8.95E-24	2.44E-16	9.87E+05	2.67E+13	3.18E+08	8.11E+01	2.19E+09	1.92E+09
3.57E-06	1.07E+01	1.02E+06	3.06E+12	3.18E+08	2.47E+04	7.43E+10	1.92E+09
4.39E-08	4.35E-01	8.19E+05	8.09E+12	3.18E+08	2.21E+05	2.18E+12	1.92E+09
9.16E-08	2.08E+00	4.27E+05	9.68E+12	3.18E+08	4.36E+05	9.89E+12	1.92E+09
1.26E-24	1.05E-16	8.09E+05	6.72E+13	3.18E+08	5.61E+03	4.66E+11	1.92E+09
1.66E-08	2.44E-01	7.54E+05	1.10E+13	3.18E+08	2.42E+05	3.54E+12	1.92E+09
1.93E-08	1.92E-01	9.26E+05	9.17E+12	3.18E+08	7.74E+04	7.65E+11	1.92E+09
5.84E-07	2.77E+01	8.03E+05	3.81E+13	3.18E+08	2.36E+05	1.12E+13	1.92E+09
2.23E-05	6.89E+01	9.47E+05	2.92E+12	3.18E+08	9.28E+04	2.86E+11	1.92E+09
2.30E-09	5.26E-02	3.80E+04	8.70E+11	3.18E+08	9.72E+05	2.22E+13	1.92E+09
6.03E-08	9.52E-01	3.71E+05	5.84E+12	3.18E+08	6.64E+05	1.05E+13	1.92E+09
1.75E-16	2.88E-09	3.00E+05	4.90E+12	3.18E+08	5.14E+05	8.40E+12	1.92E+09
4.26E-07	3.79E+01	1.62E+05	1.44E+13	3.18E+08	8.09E+05	7.20E+13	1.92E+09
3.20E-09	5.89E-02	8.93E+05	1.65E+13	3.18E+08	1.36E+05	2.50E+12	1.92E+09
1.19E-10	1.57E-03	1.04E+06	1.36E+13	3.18E+08	1.44E+03	1.88E+10	1.92E+09
5.37E-32	6.00E-25	4.62E+05	5.12E+12	3.18E+08	4.29E+03	4.77E+10	1.92E+09
8.40E-06	1.29E+01	9.61E+05	1.48E+12	3.18E+08	7.86E+04	1.21E+11	1.92E+09
1.83E-32	1.29E-24	1.02E+06	7.17E+13	3.18E+08	5.54E+03	3.89E+11	1.92E+09
7.11E-05	6.91E+03	2.55E+05	2.47E+13	3.18E+08	7.50E+05	7.28E+13	1.92E+09
1.55E-14	1.91E-07	1.04E+06	1.28E+13	3.18E+08	2.32E+03	2.86E+10	1.92E+09
8.88E-12	3.38E-05	1.03E+06	3.89E+12	3.18E+08	1.38E+03	5.20E+09	1.92E+09
1.50E-12	6.10E-05	1.03E+06	4.13E+13	3.18E+08	1.12E+04	4.50E+11	1.92E+09
1.03E-08	2.74E-02	1.03E+06	2.74E+12	3.18E+08	7.22E+03	1.92E+10	1.92E+09
1.20E-22	1.65E-15	9.96E+05	1.36E+13	3.18E+08	1.09E+03	1.48E+10	1.92E+09
2.14E-06	1.64E+01	4.45E+05	3.42E+12	3.18E+08	5.62E+05	4.31E+12	1.92E+09
1.21E-17	9.06E-10	9.10E+05	6.75E+13	3.18E+08	1.16E+05	8.60E+12	1.92E+09
1.12E-06	4.19E+00	3.33E+05	1.24E+12	3.18E+08	6.19E+05	2.32E+12	1.92E+09
1.53E-07	3.54E-01	3.91E+05	9.01E+11	3.18E+08	6.38E+05	1.47E+12	1.92E+09
1.09E-13	5.17E-07	5.03E+05	2.38E+12	3.18E+08	4.21E+05	1.99E+12	1.92E+09
2.46E-10	9.18E-04	8.76E+05	3.25E+12	3.18E+08	1.60E+05	5.95E+11	1.92E+09
2.64E-06	1.55E+01	9.91E+05	5.81E+12	3.18E+08	4.82E+04	2.83E+11	1.92E+09
4.59E-17	1.14E-09	7.21E+05	1.79E+13	3.18E+08	2.46E+05	6.11E+12	1.92E+09
1.36E-11	2.25E-04	9.29E+05	1.53E+13	3.18E+08	9.59E+04	1.58E+12	1.92E+09
2.22E-10	7.36E-04	7.94E+05	2.62E+12	3.18E+08	2.24E+05	7.38E+11	1.92E+09
6.74E-08	3.32E-01	2.96E+05	1.46E+12	3.18E+08	6.30E+05	3.10E+12	1.92E+09
2.13E-06	1.39E+01	1.02E+06	6.66E+12	3.18E+08	1.62E+04	1.05E+11	1.92E+09
6.08E-10	4.76E-02	5.14E+05	4.03E+13	3.18E+08	5.10E+05	3.99E+13	1.92E+09
1.07E-08	1.69E-02	5.91E+05	9.30E+11	3.18E+08	4.37E+05	6.86E+11	1.92E+09
1.99E-09	2.13E-02	1.02E+06	1.08E+13	3.18E+08	1.05E+04	1.12E+11	1.92E+09
9.37E-08	1.46E-01	1.01E+06	1.57E+12	3.18E+08	3.14E+04	4.87E+10	1.92E+09
5.41E-05	6.87E+02	9.11E+05	1.16E+13	3.18E+08	1.26E+05	1.61E+12	1.92E+09
9.41E-07	1.02E+01	6.63E+05	7.16E+12	3.18E+08	3.74E+05	4.03E+12	1.92E+09
1.97E-07	8.21E+00	1.04E+06	4.29E+13	3.18E+08	3.06E+03	1.27E+11	1.92E+09
1.19E-14	5.12E-07	1.02E+06	4.37E+13	3.18E+08	2.73E+01	1.17E+09	1.92E+09
5.66E-10	2.66E-02	6.94E+05	3.25E+13	3.18E+08	6.27E+04	2.94E+12	1.92E+09
5.93E-11	9.10E-04	7.97E+05	1.22E+13	3.18E+08	1.94E+05	2.97E+12	1.92E+09
8.42E-09	1.10E-02	1.02E+06	1.33E+12	3.18E+08	1.95E+04	2.54E+10	1.92E+09
1.20E-15	7.41E-08	1.01E+06	6.20E+13	3.18E+08	1.55E+02	9.49E+09	1.92E+09
1.40E-13	7.85E-07	9.36E+05	5.22E+12	3.18E+08	2.00E+04	1.12E+11	1.92E+09
2.06E-07	1.35E+01	9.86E+05	6.43E+13	3.18E+08	5.40E+04	3.52E+12	1.92E+09
3.85E-22	5.46E-15	4.04E+05	5.69E+12	3.18E+08	4.59E+05	6.47E+12	1.92E+09
1.35E-51	3.47E-45	6.33E+05	1.62E+12	3.18E+08	3.49E+05	8.94E+11	1.92E+09

1.76E-06	2.92E+00	7.34E+05	1.22E+12	3.18E+08	3.02E+05	5.03E+11	1.92E+09
1.63E-07	1.25E+01	1.02E+06	7.80E+13	3.18E+08	1.82E+04	1.39E+12	1.92E+09
1.63E-08	1.52E+00	4.44E+05	4.16E+13	3.18E+08	5.43E+05	5.08E+13	1.92E+09
3.53E-07	8.05E+00	1.01E+06	2.30E+13	3.18E+08	2.76E+04	6.28E+11	1.92E+09
2.52E-11	1.07E-03	6.61E+05	2.79E+13	3.18E+08	2.77E+05	1.17E+13	1.92E+09
5.80E-13	1.53E-05	9.87E+05	2.59E+13	3.18E+08	8.88E+03	2.33E+11	1.92E+09
1.42E-17	5.95E-11	1.04E+06	4.32E+12	3.18E+08	8.24E+02	3.43E+09	1.92E+09
4.46E-14	6.30E-08	8.85E+05	1.25E+12	3.18E+08	1.45E+05	2.04E+11	1.92E+09
8.91E-13	3.11E-05	1.01E+06	3.51E+13	3.18E+08	2.37E+04	8.21E+11	1.92E+09
8.69E-33	1.76E-25	8.31E+05	1.67E+13	3.18E+08	1.66E-01	3.34E+06	1.92E+09
2.26E-08	8.43E-02	7.63E+05	2.83E+12	3.18E+08	2.77E+05	1.03E+12	1.92E+09
2.51E-10	2.40E-02	5.73E+05	5.45E+13	3.18E+08	4.34E+05	4.13E+13	1.92E+09
1.18E-13	3.79E-06	1.04E+06	3.31E+13	3.18E+08	1.83E+02	5.82E+09	1.92E+09
8.27E-17	2.97E-09	4.60E+05	1.66E+13	3.18E+08	3.91E+05	1.40E+13	1.92E+09
2.83E-05	2.22E+03	8.74E+05	6.86E+13	3.18E+08	1.63E+05	1.27E+13	1.92E+09
1.08E-05	1.95E+01	4.93E+05	8.93E+11	3.18E+08	4.84E+05	8.76E+11	1.92E+09
1.48E-07	3.81E-01	8.94E+05	2.29E+12	3.18E+08	1.45E+05	3.72E+11	1.92E+09
7.84E-06	1.01E+01	8.12E+05	1.05E+12	3.18E+08	2.23E+05	2.87E+11	1.92E+09
2.15E-05	1.78E+02	6.71E+05	5.54E+12	3.18E+08	3.69E+05	3.05E+12	1.92E+09
1.35E-08	5.88E-01	9.89E+05	4.30E+13	3.18E+08	4.60E+03	2.00E+11	1.92E+09
1.24E-07	3.28E+00	1.04E+06	2.75E+13	3.18E+08	1.36E+03	3.59E+10	1.92E+09
4.73E-12	5.93E-06	1.04E+06	1.29E+12	3.18E+08	1.23E+03	1.54E+09	1.92E+09
4.94E-05	1.16E+02	6.48E+05	1.52E+12	3.18E+08	3.89E+05	9.11E+11	1.92E+09
1.57E-10	5.61E-03	8.97E+05	3.18E+13	3.18E+08	1.37E+05	4.86E+12	1.92E+09
1.35E-09	3.28E-02	4.35E+05	1.06E+13	3.18E+08	5.99E+05	1.45E+13	1.92E+09
3.63E-59	1.54E-51	9.40E+05	3.96E+13	3.18E+08	6.80E-06	2.86E+02	1.92E+09
3.84E-17	4.31E-09	8.77E+05	9.78E+13	3.18E+08	1.25E+04	1.40E+12	1.92E+09
5.37E-11	9.12E-05	1.02E+06	1.72E+12	3.18E+08	2.07E+04	3.49E+10	1.92E+09
9.24E-10	4.77E-03	7.03E+05	3.62E+12	3.18E+08	3.18E+05	1.64E+12	1.92E+09
9.95E-09	1.16E-02	1.01E+06	1.17E+12	3.18E+08	2.53E+04	2.92E+10	1.92E+09
5.86E-07	5.48E+01	1.01E+06	9.44E+13	3.18E+08	2.86E+04	2.67E+12	1.92E+09
8.40E-20	1.48E-12	6.47E+04	1.14E+12	3.18E+08	5.33E+05	9.35E+12	1.92E+09
8.60E-11	5.59E-03	1.04E+06	6.70E+13	3.18E+08	2.03E+02	1.31E+10	1.92E+09
6.59E-08	4.39E-01	1.00E+06	6.67E+12	3.18E+08	3.68E+04	2.45E+11	1.92E+09
1.02E-28	1.09E-20	1.03E+06	1.10E+14	3.18E+08	1.89E+00	2.02E+08	1.92E+09
3.07E-08	1.08E-01	1.04E+06	3.63E+12	3.18E+08	1.82E+03	6.36E+09	1.92E+09
5.30E-07	5.01E+01	4.77E+05	4.51E+13	3.18E+08	5.54E+05	5.24E+13	1.92E+09
2.22E-09	9.69E-03	1.04E+06	4.50E+12	3.18E+08	4.23E+02	1.84E+09	1.92E+09
1.02E-07	1.23E-01	9.01E+05	1.08E+12	3.18E+08	1.38E+05	1.65E+11	1.92E+09
3.47E-11	2.26E-03	8.16E+05	5.29E+13	3.18E+08	2.72E+04	1.76E+12	1.92E+09
8.65E-08	7.60E+00	8.96E+05	7.84E+13	3.18E+08	1.43E+05	1.25E+13	1.92E+09
3.76E-18	1.02E-10	3.09E+04	8.33E+11	3.18E+08	9.90E+05	2.66E+13	1.92E+09
7.89E-11	4.00E-03	9.96E+05	5.02E+13	3.18E+08	3.72E+04	1.88E+12	1.92E+09
1.33E-11	4.72E-04	1.04E+06	3.68E+13	3.18E+08	3.31E+02	1.17E+10	1.92E+09
2.89E-10	7.23E-03	9.79E+05	2.43E+13	3.18E+08	6.10E+04	1.51E+12	1.92E+09
2.83E-08	1.07E+00	1.03E+06	3.88E+13	3.18E+08	4.34E+03	1.64E+11	1.92E+09
5.37E-19	9.50E-13	6.69E+05	1.18E+12	3.18E+08	3.69E+05	6.48E+11	1.92E+09
4.28E-05	1.29E+03	7.11E+05	2.14E+13	3.18E+08	3.11E+05	9.35E+12	1.92E+09
7.18E-12	1.95E-04	9.91E+05	2.68E+13	3.18E+08	4.79E+04	1.29E+12	1.92E+09
1.92E-21	5.82E-15	1.03E+06	3.09E+12	3.18E+08	2.04E+00	6.14E+06	1.92E+09
1.75E-22	1.74E-15	9.43E+05	9.32E+12	3.18E+08	2.84E+02	2.81E+09	1.92E+09
8.64E-05	1.96E+03	2.01E+05	4.57E+12	3.18E+08	7.70E+05	1.75E+13	1.92E+09
3.84E-10	3.20E-02	1.00E+06	8.32E+13	3.18E+08	5.09E+03	4.22E+11	1.92E+09
7.76E-06	1.13E+02	3.66E+05	5.35E+12	3.18E+08	6.23E+05	9.10E+12	1.92E+09
5.09E-06	5.04E+01	7.38E+05	7.31E+12	3.18E+08	3.01E+05	2.98E+12	1.92E+09

1.50E-15	7.15E-08	9.96E+05	4.73E+13	3.18E+08	7.48E+01	3.55E+09	1.92E+09
2.83E-32	8.79E-26	1.03E+06	3.19E+12	3.18E+08	3.74E-03	1.15E+04	1.92E+09
1.04E-06	2.39E+01	9.48E+05	2.17E+13	3.18E+08	9.16E+04	2.09E+12	1.92E+09
6.64E-14	1.05E-06	9.91E+05	1.56E+13	3.18E+08	1.55E+03	2.44E+10	1.92E+09
3.09E-23	5.08E-16	9.13E+05	1.49E+13	3.18E+08	3.27E+03	5.34E+10	1.92E+09
4.84E-09	4.32E-01	9.68E+05	8.62E+13	3.18E+08	6.91E+04	6.15E+12	1.92E+09
2.75E-05	5.07E+02	4.76E+05	8.77E+12	3.18E+08	4.81E+05	8.85E+12	1.92E+09
1.04E-06	1.36E+01	9.78E+05	1.28E+13	3.18E+08	6.13E+04	8.00E+11	1.92E+09
1.27E-32	1.41E-25	6.35E+02	7.07E+09	3.18E+08	5.16E+05	5.72E+12	1.92E+09
2.59E-05	4.00E+01	9.61E+05	1.48E+12	3.18E+08	7.71E+04	1.19E+11	1.92E+09
3.55E-09	2.50E-01	7.53E+05	5.29E+13	3.18E+08	2.86E+05	2.01E+13	1.92E+09
2.36E-08	2.29E+00	5.47E+05	5.31E+13	3.18E+08	3.67E+05	3.56E+13	1.92E+09
9.10E-06	1.12E+02	9.87E+05	1.21E+13	3.18E+08	5.19E+04	6.38E+11	1.92E+09
1.82E-05	6.88E+01	9.80E+05	3.71E+12	3.18E+08	5.80E+04	2.19E+11	1.92E+09
3.26E-07	1.32E+01	1.03E+06	4.16E+13	3.18E+08	8.35E+03	3.37E+11	1.92E+09
2.35E-07	6.26E-01	9.42E+05	2.50E+12	3.18E+08	8.70E+04	2.31E+11	1.92E+09
1.73E-12	2.37E-05	1.03E+06	1.40E+13	3.18E+08	6.51E+03	8.84E+10	1.92E+09
4.45E-06	3.41E+01	8.11E+05	6.22E+12	3.18E+08	2.22E+05	1.70E+12	1.92E+09
3.93E-09	2.93E-01	8.83E+05	6.55E+13	3.18E+08	1.57E+05	1.16E+13	1.92E+09
1.05E-12	3.93E-06	5.82E+05	2.17E+12	3.18E+08	4.32E+05	1.62E+12	1.92E+09
1.63E-07	3.76E-01	2.71E+05	6.26E+11	3.18E+08	7.65E+05	1.76E+12	1.92E+09
1.99E-22	9.46E-16	8.32E+05	3.93E+12	3.18E+08	3.36E+04	1.59E+11	1.92E+09
4.95E-11	1.85E-04	8.77E+05	3.25E+12	3.18E+08	1.44E+05	5.33E+11	1.92E+09
2.22E-07	1.31E+00	9.29E+05	5.45E+12	3.18E+08	1.11E+05	6.49E+11	1.92E+09
6.80E-15	1.70E-07	9.13E+05	2.27E+13	3.18E+08	1.12E+02	2.79E+09	1.92E+09
3.14E-10	5.20E-03	9.16E+05	1.51E+13	3.18E+08	6.08E+04	1.00E+12	1.92E+09
3.73E-06	1.23E+01	8.33E+05	2.75E+12	3.18E+08	2.00E+05	6.58E+11	1.92E+09
1.75E-06	8.64E+00	2.12E+05	1.05E+12	3.18E+08	7.87E+05	3.88E+12	1.92E+09
4.85E-06	3.16E+01	1.01E+06	6.56E+12	3.18E+08	3.19E+04	2.07E+11	1.92E+09
1.67E-06	1.31E+02	9.95E+05	7.80E+13	3.18E+08	3.93E+04	3.08E+12	1.92E+09
3.23E-17	5.11E-11	7.36E+05	1.16E+12	3.18E+08	2.11E+05	3.32E+11	1.92E+09
2.41E-18	2.59E-11	9.62E+05	1.03E+13	3.18E+08	4.74E+01	5.06E+08	1.92E+09
3.61E-07	5.61E-01	3.47E+05	5.39E+11	3.18E+08	6.92E+05	1.07E+12	1.92E+09
7.52E-12	9.61E-05	9.66E+05	1.23E+13	3.18E+08	6.31E+04	8.02E+11	1.92E+09
9.98E-06	1.08E+02	7.49E+05	8.08E+12	3.18E+08	2.68E+05	2.89E+12	1.92E+09
1.95E-07	8.10E+00	1.03E+06	4.28E+13	3.18E+08	5.58E+03	2.31E+11	1.92E+09
1.33E-18	5.71E-11	9.93E+05	4.24E+13	3.18E+08	4.53E+04	1.93E+12	1.92E+09
4.25E-04	1.99E+04	5.01E+05	2.35E+13	3.18E+08	4.78E+05	2.24E+13	1.92E+09
9.85E-13	1.51E-05	9.79E+05	1.49E+13	3.18E+08	4.09E+03	6.23E+10	1.92E+09
1.33E-19	1.74E-13	1.03E+06	1.35E+12	3.18E+08	4.48E+02	5.83E+08	1.92E+09
1.39E-11	8.57E-04	1.00E+06	6.14E+13	3.18E+08	3.46E+04	2.12E+12	1.92E+09
3.00E-04	1.67E+03	7.55E+05	4.21E+12	3.18E+08	2.82E+05	1.57E+12	1.92E+09
1.40E-05	9.13E+02	8.23E+05	5.37E+13	3.18E+08	2.15E+05	1.40E+13	1.92E+09
4.16E-08	5.88E-01	1.04E+06	1.46E+13	3.18E+08	3.20E+03	4.50E+10	1.92E+09
7.90E-18	2.04E-11	1.04E+06	2.65E+12	3.18E+08	3.20E+03	8.18E+09	1.92E+09
1.17E-06	1.95E+00	1.56E+05	2.59E+11	3.18E+08	7.60E+05	1.26E+12	1.92E+09
3.53E-38	2.71E-30	9.79E+05	7.48E+13	3.18E+08	1.50E+04	1.15E+12	1.92E+09
2.40E-07	2.24E+01	8.92E+05	8.34E+13	3.18E+08	1.47E+05	1.37E+13	1.92E+09
2.08E-10	4.75E-03	1.01E+06	2.30E+13	3.18E+08	1.37E+04	3.11E+11	1.92E+09
1.11E-07	4.71E+00	1.02E+06	4.28E+13	3.18E+08	2.44E+04	1.03E+12	1.92E+09
1.43E-34	3.76E-27	3.02E+05	7.91E+12	3.18E+08	3.22E+05	8.43E+12	1.92E+09
1.51E-09	6.33E-03	9.42E+05	3.92E+12	3.18E+08	9.78E+04	4.07E+11	1.92E+09
6.42E-08	9.07E-02	9.85E+05	1.39E+12	3.18E+08	5.45E+04	7.67E+10	1.92E+09
1.96E-11	6.85E-04	4.79E+05	1.66E+13	3.18E+08	5.49E+05	1.91E+13	1.92E+09
2.04E-16	4.13E-09	9.68E+05	1.95E+13	3.18E+08	4.16E+04	8.37E+11	1.92E+09

3.17E-14	1.18E-07	5.98E+05	2.22E+12	3.18E+08	3.85E+05	1.43E+12	1.92E+09
2.22E-06	2.11E+02	6.18E+05	5.88E+13	3.18E+08	4.20E+05	3.99E+13	1.92E+09
2.52E-06	8.02E+01	9.74E+05	3.10E+13	3.18E+08	6.55E+04	2.08E+12	1.92E+09
5.66E-06	2.03E+02	2.29E+05	8.24E+12	3.18E+08	5.72E+05	2.06E+13	1.92E+09
1.05E-07	8.20E+00	5.90E+05	4.63E+13	3.18E+08	4.36E+05	3.42E+13	1.92E+09
5.27E-16	9.59E-10	3.41E+05	6.18E+11	3.18E+08	7.85E+04	1.42E+11	1.92E+09
5.38E-10	1.39E-03	9.50E+05	2.43E+12	3.18E+08	3.59E+04	9.19E+10	1.92E+09
8.14E-06	1.05E+01	6.09E+05	7.85E+11	3.18E+08	2.99E+05	3.85E+11	1.92E+09
3.17E-16	2.64E-09	9.93E+05	8.20E+12	3.18E+08	9.83E+02	8.11E+09	1.92E+09
1.04E-04	4.50E+03	3.44E+05	1.50E+13	3.18E+08	6.48E+05	2.82E+13	1.92E+09
6.88E-53	1.84E-45	5.28E+05	1.40E+13	3.18E+08	4.42E+05	1.17E+13	1.92E+09
9.98E-08	1.24E-01	7.00E+04	8.73E+10	3.18E+08	8.76E+05	1.09E+12	1.92E+09
5.31E-12	1.24E-05	7.79E+05	1.82E+12	3.18E+08	5.07E+04	1.19E+11	1.92E+09
1.26E-04	4.45E+03	4.10E+05	1.45E+13	3.18E+08	4.48E+05	1.59E+13	1.92E+09
1.66E-05	4.03E+02	8.22E+05	1.99E+13	3.18E+08	1.87E+05	4.53E+12	1.92E+09
8.23E-10	3.48E-02	1.04E+06	4.37E+13	3.18E+08	1.93E+02	8.14E+09	1.92E+09
5.67E-09	6.35E-01	8.80E+05	9.82E+13	3.18E+08	9.98E+04	1.11E+13	1.92E+09
1.65E-13	2.80E-07	1.03E+06	1.74E+12	3.18E+08	1.09E+04	1.84E+10	1.92E+09
1.41E-05	7.27E+01	2.49E+05	1.28E+12	3.18E+08	6.33E+05	3.26E+12	1.92E+09
2.41E-22	2.79E-16	3.90E+05	4.51E+11	3.18E+08	4.61E+05	5.33E+11	1.92E+09
3.25E-07	3.04E+01	8.57E+05	7.99E+13	3.18E+08	1.77E+05	1.65E+13	1.92E+09
4.52E-05	7.92E+02	5.42E+05	9.51E+12	3.18E+08	4.94E+05	8.67E+12	1.92E+09
1.17E-07	7.61E+00	1.03E+06	6.67E+13	3.18E+08	5.72E+03	3.69E+11	1.92E+09
2.83E-24	1.90E-17	1.89E+04	1.26E+11	3.18E+08	6.47E+05	4.31E+12	1.92E+09
5.82E-17	6.25E-09	1.04E+06	1.11E+14	3.18E+08	2.88E+03	3.07E+11	1.92E+09
1.13E-06	3.95E+00	9.71E+05	3.40E+12	3.18E+08	6.83E+04	2.39E+11	1.92E+09
1.22E-27	1.16E-19	4.95E+04	4.68E+12	3.18E+08	6.25E+05	5.91E+13	1.92E+09
2.84E-15	1.23E-08	1.01E+06	4.39E+12	3.18E+08	2.60E+04	1.13E+11	1.92E+09
1.26E-32	1.52E-26	1.01E+06	1.20E+12	3.18E+08	2.00E+01	2.39E+07	1.92E+09
2.90E-14	1.89E-06	9.44E+05	6.11E+13	3.18E+08	1.40E+04	9.07E+11	1.92E+09
2.66E-10	2.34E-02	1.03E+06	9.01E+13	3.18E+08	8.46E+03	7.39E+11	1.92E+09
1.22E-15	3.32E-08	1.03E+06	2.78E+13	3.18E+08	2.75E+03	7.40E+10	1.92E+09
4.90E-08	2.48E+00	6.87E+05	3.46E+13	3.18E+08	3.27E+05	1.65E+13	1.92E+09
1.02E-18	3.64E-11	1.04E+06	3.66E+13	3.18E+08	3.10E+03	1.09E+11	1.92E+09
2.00E-18	5.00E-11	1.01E+06	2.51E+13	3.18E+08	2.69E+04	6.68E+11	1.92E+09
1.74E-06	6.54E+01	8.47E+05	3.19E+13	3.18E+08	1.89E+05	7.11E+12	1.92E+09
4.87E-11	8.60E-05	9.51E+05	1.67E+12	3.18E+08	8.89E+04	1.56E+11	1.92E+09
1.65E-05	4.96E+02	7.63E+05	2.30E+13	3.18E+08	2.63E+05	7.93E+12	1.92E+09
2.47E-09	6.69E-02	1.03E+06	2.80E+13	3.18E+08	6.23E+03	1.68E+11	1.92E+09
1.27E-09	3.83E-03	1.04E+06	3.13E+12	3.18E+08	1.34E+03	4.04E+09	1.92E+09
5.90E-08	5.85E-01	8.62E+05	8.51E+12	3.18E+08	1.78E+05	1.76E+12	1.92E+09
7.74E-08	1.76E+00	1.02E+06	2.31E+13	3.18E+08	1.81E+04	4.10E+11	1.92E+09
6.22E-05	5.16E+03	3.30E+05	2.74E+13	3.18E+08	7.06E+05	5.86E+13	1.92E+09
1.31E-03	1.92E+04	5.80E+05	8.48E+12	3.18E+08	4.57E+05	6.67E+12	1.92E+09
3.88E-07	3.84E+00	6.17E+05	6.11E+12	3.18E+08	3.08E+05	3.05E+12	1.92E+09
1.85E-06	8.76E+01	9.12E+05	4.33E+13	3.18E+08	1.25E+05	5.94E+12	1.92E+09
8.76E-18	2.72E-11	1.04E+06	3.20E+12	3.18E+08	4.67E+02	1.44E+09	1.92E+09
1.09E-04	2.50E+03	4.91E+05	1.12E+13	3.18E+08	5.34E+05	1.22E+13	1.92E+09
7.53E-10	1.19E-02	7.75E+05	1.22E+13	3.18E+08	2.35E+05	3.70E+12	1.92E+09
3.10E-06	5.06E+01	1.27E+05	2.08E+12	3.18E+08	9.03E+05	1.47E+13	1.92E+09
2.00E-06	1.79E+02	3.57E+05	3.18E+13	3.18E+08	6.60E+05	5.88E+13	1.92E+09
4.16E-15	7.72E-08	8.23E+05	1.52E+13	3.18E+08	4.81E+01	8.85E+08	1.92E+09
2.22E-17	2.92E-10	1.04E+06	1.36E+13	3.18E+08	2.39E+02	3.12E+09	1.92E+09
2.20E-06	2.44E+01	9.87E+05	1.10E+13	3.18E+08	5.10E+04	5.66E+11	1.92E+09
3.56E-12	5.52E-06	1.03E+06	1.59E+12	3.18E+08	3.73E+03	5.74E+09	1.92E+09

1.16E-05	8.11E+02	8.94E+05	6.27E+13	3.18E+08	1.46E+05	1.02E+13	1.92E+09
7.41E-06	7.19E+02	5.83E+05	5.67E+13	3.18E+08	4.42E+05	4.29E+13	1.92E+09
2.59E-27	3.21E-20	9.86E+05	1.21E+13	3.18E+08	1.55E+01	1.90E+08	1.92E+09
1.46E-20	5.57E-14	9.50E+05	3.59E+12	3.18E+08	6.62E+03	2.50E+10	1.92E+09
3.44E-08	1.39E+00	7.58E+05	3.06E+13	3.18E+08	2.76E+05	1.11E+13	1.92E+09
2.13E-04	5.67E+02	7.59E+05	2.02E+12	3.18E+08	2.78E+05	7.39E+11	1.92E+09
1.36E-05	1.85E+02	9.68E+05	1.32E+13	3.18E+08	7.20E+04	9.79E+11	1.92E+09
1.08E-20	8.33E-14	9.97E+05	7.65E+12	3.18E+08	3.03E+03	2.32E+10	1.92E+09
1.16E-08	8.68E-01	1.03E+06	7.62E+13	3.18E+08	1.18E+04	8.72E+11	1.92E+09
5.04E-07	1.89E+00	7.12E+05	2.66E+12	3.18E+08	3.28E+05	1.23E+12	1.92E+09
3.74E-10	8.67E-04	6.40E+05	1.48E+12	3.18E+08	3.68E+05	8.47E+11	1.92E+09
3.09E-14	1.47E-07	8.40E+05	3.97E+12	3.18E+08	9.38E+01	4.43E+08	1.92E+09
5.44E-14	2.03E-07	1.02E+06	3.77E+12	3.18E+08	1.00E+04	3.71E+10	1.92E+09
5.89E-07	3.45E+00	5.67E+05	3.33E+12	3.18E+08	4.72E+05	2.77E+12	1.92E+09
6.60E-10	1.65E-02	9.47E+05	2.35E+13	3.18E+08	3.61E+04	8.96E+11	1.92E+09
7.99E-12	1.32E-04	8.73E+05	1.44E+13	3.18E+08	1.30E+05	2.14E+12	1.92E+09
4.06E-09	1.34E-02	1.03E+06	3.38E+12	3.18E+08	1.06E+04	3.48E+10	1.92E+09
1.57E-06	7.75E+00	7.58E+05	3.74E+12	3.18E+08	2.80E+05	1.38E+12	1.92E+09
9.65E-13	6.32E-06	1.02E+06	6.66E+12	3.18E+08	1.38E+04	8.97E+10	1.92E+09
1.86E-07	1.46E+01	9.83E+05	7.70E+13	3.18E+08	5.10E+04	3.99E+12	1.92E+09
2.19E-09	3.46E-03	8.63E+05	1.36E+12	3.18E+08	1.67E+05	2.63E+11	1.92E+09
1.86E-15	2.00E-08	9.41E+05	1.00E+13	3.18E+08	2.42E+04	2.59E+11	1.92E+09
4.89E-10	7.64E-04	9.64E+05	1.50E+12	3.18E+08	7.46E+04	1.16E+11	1.92E+09
1.95E-06	2.48E+01	7.28E+05	9.26E+12	3.18E+08	3.10E+05	3.94E+12	1.92E+09
5.39E-06	5.81E+01	7.16E+05	7.73E+12	3.18E+08	3.21E+05	3.47E+12	1.92E+09
1.17E-16	4.87E-09	1.00E+06	4.15E+13	3.18E+08	3.65E+04	1.51E+12	1.92E+09
1.76E-11	7.58E-04	1.04E+06	4.43E+13	3.18E+08	1.71E+02	7.32E+09	1.92E+09
1.73E-11	8.11E-04	4.69E+03	2.20E+11	3.18E+08	8.94E+05	4.19E+13	1.92E+09
1.46E-37	2.25E-30	5.50E+04	8.40E+11	3.18E+08	2.70E+05	4.12E+12	1.92E+09
5.81E-06	7.56E+00	4.64E+05	6.05E+11	3.18E+08	5.74E+05	7.48E+11	1.92E+09
1.11E-06	6.82E+01	4.40E+05	2.70E+13	3.18E+08	5.91E+05	3.62E+13	1.92E+09
6.72E-09	3.76E-02	9.52E+05	5.31E+12	3.18E+08	5.57E+04	3.11E+11	1.92E+09
8.41E-07	5.51E+01	9.71E+05	6.34E+13	3.18E+08	6.87E+04	4.48E+12	1.92E+09
2.31E-20	3.27E-13	1.03E+06	1.44E+13	3.18E+08	1.11E+01	1.56E+08	1.92E+09
1.42E-13	3.66E-07	9.89E+05	2.53E+12	3.18E+08	4.67E+04	1.19E+11	1.92E+09
3.65E-06	6.07E+00	2.35E+05	3.91E+11	3.18E+08	6.42E+05	1.07E+12	1.92E+09
5.31E-07	4.06E+01	8.77E+05	6.70E+13	3.18E+08	1.63E+05	1.25E+13	1.92E+09
2.55E-07	2.38E+01	1.08E+05	1.01E+13	3.18E+08	9.18E+05	8.59E+13	1.92E+09
2.50E-06	5.68E+01	6.48E+05	1.47E+13	3.18E+08	3.91E+05	8.88E+12	1.92E+09
2.70E-24	1.15E-16	7.00E+05	2.95E+13	3.18E+08	1.80E+05	7.58E+12	1.92E+09
2.10E-06	5.49E+01	3.61E+05	9.45E+12	3.18E+08	6.52E+05	1.71E+13	1.92E+09
1.59E-12	6.63E-06	9.16E+05	3.81E+12	3.18E+08	1.21E+05	5.05E+11	1.92E+09
6.76E-07	9.53E-01	8.16E+05	1.15E+12	3.18E+08	2.11E+05	2.96E+11	1.92E+09
1.32E-13	4.63E-06	9.99E+05	3.47E+13	3.18E+08	3.40E+04	1.18E+12	1.92E+09
8.26E-10	1.67E-02	5.90E+05	1.19E+13	3.18E+08	4.02E+05	8.09E+12	1.92E+09
2.87E-07	1.07E+00	9.92E+05	3.69E+12	3.18E+08	4.76E+04	1.77E+11	1.92E+09
2.07E-05	1.97E+03	2.85E+05	2.71E+13	3.18E+08	7.47E+05	7.11E+13	1.92E+09
4.68E-10	1.49E-02	8.19E+05	2.60E+13	3.18E+08	2.19E+05	6.95E+12	1.92E+09
1.47E-10	5.31E-03	8.19E+05	2.95E+13	3.18E+08	1.81E+05	6.51E+12	1.92E+09
2.48E-10	1.94E-02	4.13E+04	3.24E+12	3.18E+08	6.15E+05	4.82E+13	1.92E+09
5.47E-11	9.88E-05	5.41E+05	9.80E+11	3.18E+08	4.42E+05	7.99E+11	1.92E+09
9.82E-10	2.53E-03	8.37E+05	2.15E+12	3.18E+08	1.64E+05	4.21E+11	1.92E+09
1.42E-08	1.83E-02	6.28E+05	8.09E+11	3.18E+08	1.28E+05	1.64E+11	1.92E+09
1.50E-05	1.23E+02	9.61E+05	7.94E+12	3.18E+08	6.87E+04	5.67E+11	1.92E+09
4.89E-07	2.13E+01	9.53E+05	4.14E+13	3.18E+08	7.97E+04	3.47E+12	1.92E+09

2.03E-76	5.40E-69	1.02E+06	2.69E+13	3.18E+08	1.29E+03	3.41E+10	1.92E+09
1.54E-04	1.92E+02	7.29E+05	9.10E+11	3.18E+08	2.78E+05	3.47E+11	1.92E+09
4.08E-29	9.60E-23	8.64E+05	2.02E+12	3.18E+08	1.71E+00	4.01E+06	1.92E+09
2.26E-08	8.00E-01	7.91E+05	2.81E+13	3.18E+08	2.41E+05	8.55E+12	1.92E+09
5.28E-07	1.28E+01	5.96E+05	1.45E+13	3.18E+08	4.25E+05	1.03E+13	1.92E+09
1.06E-14	4.50E-07	1.04E+06	4.37E+13	3.18E+08	1.60E+02	6.74E+09	1.92E+09
5.35E-06	5.97E+02	7.36E+05	8.22E+13	3.18E+08	2.99E+05	3.33E+13	1.92E+09
1.54E-17	2.60E-11	6.51E+05	1.10E+12	3.18E+08	3.87E+05	6.53E+11	1.92E+09
3.87E-09	2.00E-02	6.98E+05	3.60E+12	3.18E+08	2.78E+05	1.43E+12	1.92E+09
1.26E-06	1.46E+00	7.16E+05	8.28E+11	3.18E+08	3.23E+05	3.73E+11	1.92E+09
1.12E-06	1.05E+02	8.31E+04	7.76E+12	3.18E+08	8.81E+05	8.22E+13	1.92E+09
1.38E-09	2.42E-02	8.98E+05	1.58E+13	3.18E+08	1.31E+05	2.30E+12	1.92E+09
5.13E-10	3.33E-02	1.04E+06	6.70E+13	3.18E+08	4.22E+02	2.73E+10	1.92E+09
3.14E-08	2.09E-01	9.84E+05	6.55E+12	3.18E+08	3.66E+04	2.43E+11	1.92E+09
4.76E-08	5.09E+00	1.04E+06	1.11E+14	3.18E+08	5.43E+02	5.80E+10	1.92E+09
4.14E-18	1.45E-11	9.42E+05	3.29E+12	3.18E+08	9.55E+04	3.33E+11	1.92E+09
9.67E-04	9.13E+04	3.67E+05	3.47E+13	3.18E+08	6.67E+05	6.30E+13	1.92E+09
2.52E-06	1.09E+01	9.67E+05	4.19E+12	3.18E+08	7.26E+04	3.14E+11	1.92E+09
2.05E-06	2.44E+00	1.02E+06	1.22E+12	3.18E+08	1.74E+04	2.08E+10	1.92E+09
1.20E-04	7.77E+03	3.98E+05	2.58E+13	3.18E+08	6.39E+05	4.14E+13	1.92E+09
5.22E-28	4.60E-20	9.89E+05	8.65E+13	3.18E+08	3.63E+04	3.17E+12	1.92E+09
8.72E-22	2.36E-14	4.66E+05	1.26E+13	3.18E+08	5.32E+05	1.43E+13	1.92E+09
1.07E-30	5.45E-23	9.04E+05	4.56E+13	3.18E+08	2.35E+03	1.19E+11	1.92E+09
2.61E-13	9.28E-06	1.04E+06	3.67E+13	3.18E+08	1.94E+02	6.88E+09	1.92E+09
1.39E-07	3.46E+00	1.04E+06	2.57E+13	3.18E+08	3.65E+03	9.05E+10	1.92E+09
8.48E-17	3.21E-09	5.67E+05	2.14E+13	3.18E+08	3.92E+05	1.48E+13	1.92E+09
6.00E-08	1.06E-01	1.04E+06	1.82E+12	3.18E+08	2.23E+03	3.91E+09	1.92E+09
1.69E-12	5.11E-05	8.55E+05	2.57E+13	3.18E+08	3.85E+02	1.16E+10	1.92E+09
3.02E-06	8.17E+01	9.41E+05	2.55E+13	3.18E+08	8.95E+04	2.42E+12	1.92E+09
1.75E-16	5.31E-10	1.04E+06	3.12E+12	3.18E+08	1.01E+03	3.02E+09	1.92E+09
2.55E-07	2.52E+00	2.58E+04	2.55E+11	3.18E+08	9.47E+05	9.36E+12	1.92E+09
2.36E-11	5.38E-04	1.01E+06	2.28E+13	3.18E+08	1.30E+04	2.94E+11	1.92E+09
7.62E-05	6.32E+03	1.19E+05	9.92E+12	3.18E+08	8.81E+05	7.31E+13	1.92E+09
8.28E-16	1.22E-08	8.45E+05	1.23E+13	3.18E+08	1.47E+02	2.15E+09	1.92E+09
6.63E-06	6.56E+01	8.54E+05	8.45E+12	3.18E+08	1.86E+05	1.84E+12	1.92E+09
9.62E-05	4.56E+03	7.54E+05	3.58E+13	3.18E+08	2.84E+05	1.35E+13	1.92E+09
1.72E-10	5.33E-04	9.93E+05	3.06E+12	3.18E+08	4.60E+04	1.42E+11	1.92E+09
1.38E-24	3.17E-17	9.57E+05	2.19E+13	3.18E+08	2.22E+04	5.07E+11	1.92E+09
8.41E-14	1.33E-06	9.99E+05	1.57E+13	3.18E+08	6.74E+02	1.06E+10	1.92E+09
2.86E-06	4.66E+01	5.36E+05	8.76E+12	3.18E+08	5.01E+05	8.18E+12	1.92E+09
6.78E-06	6.03E+02	1.48E+05	1.32E+13	3.18E+08	8.55E+05	7.61E+13	1.92E+09
6.87E-08	2.98E-01	8.86E+05	3.84E+12	3.18E+08	1.54E+05	6.67E+11	1.92E+09

c_HLW_I g/m2	C_ash_I g/m2	m_HLW_f g	m_ash_f g	area_f m2	m_HLW_e g	m_ash_e g	area_e m2 (HLW masses are based on 1MTU of HLW erupted).
0.00E+00	0.00E+00	1.02E+06	1.22E+12	1.17E+08	7.81E+03	9.32E+09	3.13E+07
5.28E-05	3.41E+03	1.65E+05	1.07E+13	3.85E+07	8.02E+05	5.20E+13	9.21E+08
0.00E+00	0.00E+00	1.02E+06	8.89E+13	1.20E+08	2.30E+04	2.01E+12	1.40E+08
0.00E+00	0.00E+00	1.03E+06	2.77E+13	1.09E+08	8.38E+03	2.25E+11	9.03E+07
0.00E+00	0.00E+00	1.02E+06	5.13E+13	1.84E+08	2.04E+04	1.03E+12	3.77E+08
0.00E+00	0.00E+00	8.82E+05	3.12E+13	2.25E+07	1.57E+05	5.53E+12	1.11E+08
0.00E+00	0.00E+00	1.04E+06	2.58E+13	6.35E+07	2.19E+02	5.43E+09	8.75E+06
0.00E+00	0.00E+00	2.47E+04	9.33E+11	6.75E+06	1.00E+06	3.77E+13	1.70E+08
0.00E+00	0.00E+00	1.04E+06	1.82E+12	3.80E+07	9.31E+02	1.63E+09	4.00E+06
2.50E-04	7.51E+03	1.47E+05	4.43E+12	6.03E+07	8.05E+05	2.42E+13	9.36E+08
0.00E+00	0.00E+00	9.17E+05	2.48E+13	8.00E+07	1.21E+05	3.27E+12	2.27E+08
0.00E+00	0.00E+00	1.00E+06	3.02E+12	4.55E+07	3.31E+04	9.94E+10	7.43E+07
0.00E+00	0.00E+00	1.02E+06	1.01E+13	1.79E+08	1.46E+04	1.44E+11	1.26E+08
0.00E+00	0.00E+00	3.15E+05	7.16E+12	9.28E+07	6.99E+05	1.58E+13	5.64E+08
1.14E-05	9.45E+02	3.31E+05	2.75E+13	7.25E+07	6.99E+05	5.80E+13	6.00E+08
0.00E+00	0.00E+00	9.60E+05	1.40E+13	2.23E+08	6.83E+04	9.98E+11	9.65E+07
0.00E+00	0.00E+00	5.94E+05	5.87E+12	8.63E+07	3.75E+05	3.71E+12	3.18E+08
0.00E+00	0.00E+00	8.71E+05	4.13E+13	2.01E+08	1.03E+05	4.90E+12	2.86E+08
0.00E+00	0.00E+00	9.85E+05	3.04E+12	5.68E+07	5.13E+04	1.58E+11	1.25E+08
0.00E+00	0.00E+00	9.80E+05	2.24E+13	2.98E+08	5.21E+04	1.19E+12	4.54E+08
0.00E+00	0.00E+00	8.30E+05	1.31E+13	1.56E+08	1.35E+05	2.13E+12	5.35E+07
7.60E-06	1.24E+02	5.79E+05	9.46E+12	1.49E+08	4.57E+05	7.46E+12	3.28E+08
0.00E+00	0.00E+00	9.39E+05	8.37E+13	2.03E+08	4.39E+03	3.91E+11	2.28E+07
1.07E-05	1.97E+02	8.00E+05	1.47E+13	9.83E+07	2.36E+05	4.35E+12	6.82E+08
0.00E+00	0.00E+00	1.04E+06	1.36E+13	8.50E+07	2.44E+03	3.19E+10	5.50E+07
0.00E+00	0.00E+00	4.32E+05	4.80E+12	5.00E+07	5.60E+05	6.21E+12	4.53E+08
0.00E+00	0.00E+00	9.74E+05	1.50E+12	6.68E+07	6.11E+04	9.41E+10	4.90E+07
0.00E+00	0.00E+00	1.03E+06	7.22E+13	1.90E+08	8.19E+03	5.75E+11	6.15E+07
8.69E-06	8.43E+02	6.64E+04	6.45E+12	2.50E+07	8.83E+05	8.58E+13	7.94E+08
0.00E+00	0.00E+00	7.62E+05	9.37E+12	6.20E+07	2.76E+05	3.40E+12	2.57E+08
0.00E+00	0.00E+00	8.16E+05	3.09E+12	1.79E+08	1.60E+05	6.06E+11	1.76E+08
0.00E+00	0.00E+00	1.00E+06	4.05E+13	1.88E+08	2.66E+04	1.07E+12	1.84E+08
0.00E+00	0.00E+00	6.66E+05	1.77E+12	5.95E+07	3.48E+05	9.26E+11	2.85E+08
0.00E+00	0.00E+00	1.01E+06	1.38E+13	1.09E+08	2.37E+04	3.22E+11	1.84E+08
0.00E+00	0.00E+00	2.95E+04	2.26E+11	9.25E+06	9.60E+05	7.36E+12	2.81E+08
0.00E+00	0.00E+00	1.04E+06	7.70E+13	1.01E+08	1.47E+03	1.09E+11	1.07E+08
0.00E+00	0.00E+00	1.03E+06	3.84E+12	2.19E+08	3.70E+03	1.38E+10	2.50E+07
0.00E+00	0.00E+00	6.61E+05	1.52E+12	1.27E+08	3.21E+05	7.41E+11	1.26E+08
0.00E+00	0.00E+00	7.49E+05	3.54E+12	1.46E+08	5.20E+04	2.46E+11	2.75E+07
0.00E+00	0.00E+00	2.92E+05	1.08E+12	2.10E+07	7.19E+05	2.67E+12	2.89E+08
0.00E+00	0.00E+00	6.35E+05	3.73E+12	3.45E+07	3.97E+05	2.33E+12	1.89E+08

0.00E+00	0.00E+00	9.39E+05	2.34E+13	2.59E+08	9.18E+04	2.28E+12	2.76E+08
7.84E-05	1.29E+03	7.37E+05	1.22E+13	6.50E+07	3.00E+05	4.95E+12	6.42E+08
0.00E+00	0.00E+00	5.61E+05	1.85E+12	1.69E+08	4.00E+05	1.32E+12	2.21E+08
0.00E+00	0.00E+00	5.95E+05	2.93E+12	2.26E+08	2.62E+05	1.29E+12	1.81E+08
0.00E+00	0.00E+00	1.04E+06	6.74E+12	1.00E+08	1.50E+03	9.74E+09	1.93E+07
3.37E-06	2.64E+02	9.54E+05	7.47E+13	2.92E+08	8.44E+04	6.61E+12	7.18E+08
0.00E+00	0.00E+00	7.97E+05	1.25E+12	8.30E+07	2.28E+05	3.59E+11	2.33E+08
0.00E+00	0.00E+00	1.00E+06	1.07E+13	2.17E+08	3.34E+04	3.56E+11	2.84E+08
0.00E+00	0.00E+00	7.23E+05	1.12E+12	6.43E+07	2.73E+05	4.23E+11	4.30E+07
0.00E+00	0.00E+00	8.66E+05	1.10E+13	1.91E+08	1.02E+05	1.30E+12	7.45E+07
0.00E+00	0.00E+00	9.98E+05	1.08E+13	2.42E+08	7.41E+02	7.99E+09	1.80E+07
0.00E+00	0.00E+00	1.04E+06	4.31E+13	1.24E+08	3.21E+02	1.33E+10	3.23E+07
0.00E+00	0.00E+00	1.03E+06	4.40E+13	1.65E+08	6.54E+03	2.79E+11	6.05E+07
0.00E+00	0.00E+00	2.79E+05	1.31E+13	4.10E+07	4.10E+05	1.92E+13	1.23E+08
0.00E+00	0.00E+00	7.74E+05	1.18E+13	2.18E+08	2.63E+05	4.02E+12	4.87E+08
0.00E+00	0.00E+00	9.97E+05	1.30E+12	5.58E+07	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	1.00E+06	6.14E+13	2.08E+08	6.42E+02	3.93E+10	2.18E+07
4.22E-05	2.35E+02	2.94E+05	1.64E+12	3.48E+07	7.41E+05	4.13E+12	4.71E+08
0.00E+00	0.00E+00	9.56E+05	6.24E+13	1.07E+08	8.40E+04	5.48E+12	1.65E+08
2.65E-05	3.72E+02	5.07E+05	7.14E+12	4.90E+07	5.21E+05	7.33E+12	3.54E+08
0.00E+00	0.00E+00	9.95E+05	2.55E+12	5.43E+07	2.73E+04	6.98E+10	2.58E+07
0.00E+00	0.00E+00	8.27E+05	1.37E+12	1.81E+08	1.90E+05	3.16E+11	3.39E+08
0.00E+00	0.00E+00	9.46E+05	7.23E+13	1.76E+08	1.29E+00	9.83E+07	2.50E+05
0.00E+00	0.00E+00	9.24E+05	8.64E+13	1.69E+08	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	9.22E+05	2.10E+13	1.07E+08	7.93E+03	1.80E+11	3.90E+07
0.00E+00	0.00E+00	8.88E+05	3.75E+13	9.65E+07	1.15E+04	4.85E+11	1.78E+07
0.00E+00	0.00E+00	5.56E+05	1.46E+13	1.15E+08	4.27E+05	1.12E+13	7.92E+08
0.00E+00	0.00E+00	1.01E+06	4.22E+12	1.73E+08	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	6.84E+05	9.63E+11	2.68E+07	2.31E+05	3.25E+11	3.43E+07
0.00E+00	0.00E+00	1.13E+05	3.92E+12	1.58E+07	9.00E+05	3.13E+13	2.47E+08
0.00E+00	0.00E+00	5.35E+05	1.08E+13	8.30E+07	2.18E+05	4.39E+12	1.09E+08
0.00E+00	0.00E+00	1.03E+06	3.83E+12	7.80E+07	8.23E+03	3.06E+10	2.73E+07
3.61E-03	3.43E+05	2.55E+05	2.42E+13	1.22E+08	7.09E+05	6.75E+13	1.05E+09
0.00E+00	0.00E+00	8.79E+05	2.80E+13	1.26E+08	1.54E+05	4.90E+12	2.95E+08
0.00E+00	0.00E+00	7.68E+04	2.77E+12	2.90E+07	6.08E+05	2.19E+13	1.12E+08
0.00E+00	0.00E+00	9.99E+05	7.84E+13	2.00E+08	1.80E+02	1.41E+10	1.65E+07
0.00E+00	0.00E+00	3.49E+04	6.32E+10	2.03E+07	8.74E+05	1.58E+12	2.15E+08
0.00E+00	0.00E+00	9.11E+05	2.34E+12	1.96E+08	4.04E+03	1.04E+10	1.15E+07
0.00E+00	0.00E+00	7.26E+04	9.36E+10	3.38E+07	7.10E+05	9.15E+11	3.09E+08
0.00E+00	0.00E+00	7.47E+05	6.17E+12	5.70E+07	2.91E+05	2.40E+12	1.93E+08
0.00E+00	0.00E+00	4.34E+05	1.89E+13	2.43E+08	5.73E+05	2.49E+13	5.14E+08
0.00E+00	0.00E+00	1.03E+06	2.73E+13	7.25E+07	9.38E+01	2.48E+09	3.00E+06
0.00E+00	0.00E+00	7.31E+05	9.13E+11	8.50E+07	2.84E+05	3.54E+11	3.07E+08

0.00E+00	0.00E+00	5.93E+05	1.39E+12	4.60E+07	4.39E+05	1.03E+12	2.25E+08
1.19E-05	4.22E+02	9.74E+05	3.45E+13	2.62E+08	5.11E+04	1.81E+12	4.13E+08
0.00E+00	0.00E+00	1.01E+06	2.46E+13	1.03E+08	2.52E+04	6.12E+11	8.25E+07
0.00E+00	0.00E+00	2.43E+04	1.02E+12	5.75E+06	9.74E+05	4.10E+13	1.62E+08
6.25E-05	6.97E+03	3.75E+05	4.19E+13	2.27E+08	6.39E+05	7.13E+13	7.90E+08
0.00E+00	0.00E+00	1.02E+06	1.72E+12	4.08E+07	9.08E+03	1.53E+10	8.50E+06
0.00E+00	0.00E+00	8.95E+05	4.61E+12	1.54E+08	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	2.09E+05	2.42E+11	4.80E+07	8.08E+05	9.34E+11	2.85E+08
1.02E-05	9.50E+02	3.70E+05	3.45E+13	8.45E+07	6.06E+05	5.65E+13	5.91E+08
0.00E+00	0.00E+00	9.62E+05	1.69E+13	2.62E+08	4.54E+04	7.97E+11	1.31E+08
0.00E+00	0.00E+00	1.04E+06	6.71E+13	1.19E+08	3.64E+01	2.35E+09	7.50E+06
0.00E+00	0.00E+00	7.12E+05	4.74E+12	6.90E+07	3.24E+05	2.16E+12	1.77E+08
0.00E+00	0.00E+00	9.96E+05	1.06E+14	6.00E+07	4.33E+04	4.62E+12	2.01E+08
0.00E+00	0.00E+00	1.00E+06	3.51E+12	6.25E+07	3.40E+04	1.19E+11	1.14E+08
0.00E+00	0.00E+00	1.00E+06	9.48E+13	1.62E+08	3.51E+04	3.31E+12	4.45E+08
0.00E+00	0.00E+00	1.04E+06	4.49E+12	5.68E+07	3.01E+03	1.30E+10	1.40E+07
0.00E+00	0.00E+00	1.02E+06	1.22E+12	5.63E+07	1.45E+04	1.73E+10	4.33E+07
5.70E-06	3.69E+02	9.54E+05	6.18E+13	2.43E+08	8.46E+04	5.47E+12	5.93E+08
0.00E+00	0.00E+00	9.41E+05	8.23E+13	4.95E+07	9.68E+04	8.46E+12	9.93E+07
0.00E+00	0.00E+00	7.07E+05	1.90E+13	4.68E+07	3.30E+05	8.86E+12	2.00E+08
0.00E+00	0.00E+00	7.87E+05	3.97E+13	1.11E+08	2.51E+05	1.26E+13	2.48E+08
0.00E+00	0.00E+00	8.32E+05	2.94E+13	4.03E+07	2.07E+05	7.32E+12	1.48E+08
0.00E+00	0.00E+00	9.56E+05	2.37E+13	2.90E+07	8.45E+04	2.10E+12	1.41E+08
0.00E+00	0.00E+00	1.01E+06	3.79E+13	1.67E+08	3.28E+04	1.24E+12	3.45E+08
0.00E+00	0.00E+00	9.35E+05	1.64E+12	2.33E+07	1.03E+05	1.80E+11	2.65E+07
1.61E-05	4.85E+02	3.33E+05	1.00E+13	1.19E+08	6.98E+05	2.10E+13	8.58E+08
0.00E+00	0.00E+00	1.40E+05	3.79E+12	1.53E+07	8.84E+05	2.39E+13	2.35E+08
0.00E+00	0.00E+00	1.04E+06	3.12E+12	1.30E+08	2.31E+01	6.94E+07	5.00E+05
0.00E+00	0.00E+00	1.00E+06	9.88E+12	1.51E+08	2.91E+04	2.87E+11	2.14E+08
0.00E+00	0.00E+00	8.62E+05	1.95E+13	2.09E+08	8.88E+03	2.01E+11	3.40E+07
0.00E+00	0.00E+00	7.67E+05	6.37E+13	2.55E+08	2.38E+05	1.98E+13	3.93E+08
0.00E+00	0.00E+00	5.66E+05	8.27E+12	1.86E+08	3.72E+05	5.43E+12	2.33E+08
0.00E+00	0.00E+00	5.91E+05	5.84E+12	1.67E+08	4.44E+05	4.40E+12	4.31E+08
0.00E+00	0.00E+00	6.57E+05	3.12E+13	7.30E+07	3.00E+05	1.43E+13	2.26E+08
0.00E+00	0.00E+00	6.14E+05	1.89E+12	1.38E+07	4.22E+05	1.30E+12	9.10E+07
0.00E+00	0.00E+00	7.78E+05	1.78E+13	2.04E+08	2.60E+05	5.95E+12	3.53E+08
0.00E+00	0.00E+00	1.01E+06	1.60E+13	2.25E+08	3.89E+03	6.12E+10	4.35E+07
0.00E+00	0.00E+00	3.32E+05	5.42E+12	6.48E+07	6.63E+05	1.08E+13	2.86E+08
0.00E+00	0.00E+00	1.02E+06	9.12E+13	2.35E+08	2.54E+03	2.26E+11	5.65E+07
0.00E+00	0.00E+00	7.76E+05	1.43E+13	1.41E+08	2.34E+04	4.30E+11	2.18E+07
0.00E+00	0.00E+00	9.65E+05	1.26E+13	5.05E+07	7.33E+04	9.57E+11	2.13E+08
0.00E+00	0.00E+00	7.73E+05	8.58E+12	2.02E+08	1.42E+01	1.57E+08	1.00E+06
0.00E+00	0.00E+00	9.45E+05	1.46E+12	8.98E+07	1.68E+04	2.59E+10	1.25E+07

1.82E-06	1.27E+02	4.21E+05	2.95E+13	1.50E+07	6.18E+05	4.34E+13	4.41E+08
0.00E+00	0.00E+00	3.91E+05	3.80E+13	8.85E+07	5.64E+05	5.48E+13	7.53E+08
0.00E+00	0.00E+00	1.01E+06	1.25E+13	9.83E+07	2.68E+04	3.29E+11	1.23E+08
0.00E+00	0.00E+00	9.15E+05	3.46E+12	8.03E+07	1.19E+05	4.51E+11	2.80E+08
0.00E+00	0.00E+00	1.03E+06	4.17E+13	2.17E+08	3.12E+01	1.26E+09	7.00E+06
0.00E+00	0.00E+00	8.62E+05	2.29E+12	1.34E+08	5.18E+04	1.38E+11	3.13E+07
0.00E+00	0.00E+00	4.44E+05	6.04E+12	7.43E+07	5.55E+05	7.55E+12	2.09E+08
0.00E+00	0.00E+00	6.51E+05	4.99E+12	5.43E+07	3.39E+05	2.60E+12	2.06E+08
0.00E+00	0.00E+00	1.03E+06	7.63E+13	1.97E+08	1.06E+04	7.89E+11	2.35E+08
0.00E+00	0.00E+00	8.51E+05	3.18E+12	7.30E+07	1.81E+05	6.76E+11	2.18E+08
0.00E+00	0.00E+00	4.55E+05	1.05E+12	2.78E+07	5.80E+05	1.34E+12	1.78E+08
0.00E+00	0.00E+00	1.02E+06	4.82E+12	1.80E+08	1.48E+04	6.98E+10	8.85E+07
0.00E+00	0.00E+00	1.03E+06	3.80E+12	2.06E+08	1.01E+04	3.75E+10	6.95E+07
0.00E+00	0.00E+00	7.59E+05	4.45E+12	3.95E+07	2.78E+05	1.63E+12	2.16E+08
8.41E-05	2.09E+03	6.29E+05	1.56E+13	1.60E+08	3.69E+05	9.17E+12	1.07E+09
5.18E-05	8.54E+02	9.08E+05	1.50E+13	1.51E+08	1.29E+05	2.13E+12	5.70E+08
0.00E+00	0.00E+00	9.12E+05	3.01E+12	1.97E+08	2.83E+04	9.31E+10	4.70E+07
0.00E+00	0.00E+00	8.51E+05	4.19E+12	9.68E+07	1.85E+05	9.12E+11	2.08E+08
0.00E+00	0.00E+00	9.95E+05	6.47E+12	1.04E+08	4.27E+04	2.78E+11	8.68E+07
0.00E+00	0.00E+00	9.72E+05	7.62E+13	2.24E+08	5.29E+04	4.14E+12	1.31E+08
0.00E+00	0.00E+00	1.02E+06	1.61E+12	1.54E+08	3.22E+03	5.05E+09	2.08E+07
0.00E+00	0.00E+00	3.08E+05	3.29E+12	6.38E+07	6.48E+05	6.92E+12	2.67E+08
0.00E+00	0.00E+00	9.54E+05	1.48E+12	1.06E+08	5.13E+04	7.96E+10	6.73E+07
0.00E+00	0.00E+00	5.04E+04	6.41E+11	8.75E+06	9.30E+05	1.18E+13	1.76E+08
0.00E+00	0.00E+00	7.03E+05	7.59E+12	1.09E+08	3.32E+05	3.58E+12	4.84E+08
3.41E-06	1.42E+02	1.01E+06	4.18E+13	1.29E+08	3.12E+04	1.29E+12	1.33E+08
0.00E+00	0.00E+00	1.01E+06	4.32E+13	8.53E+07	2.77E+04	1.18E+12	2.49E+08
5.26E-06	2.46E+02	8.33E+05	3.90E+13	1.76E+08	2.03E+05	9.49E+12	6.82E+08
2.92E-04	4.46E+03	5.87E+05	8.95E+12	2.31E+08	4.32E+05	6.59E+12	7.40E+08
0.00E+00	0.00E+00	1.02E+06	1.33E+12	3.03E+07	1.98E+04	2.58E+10	1.80E+07
3.35E-05	2.05E+03	7.36E+05	4.51E+13	8.70E+07	2.97E+05	1.82E+13	8.19E+08
0.00E+00	0.00E+00	8.89E+05	4.96E+12	1.83E+08	1.40E+05	7.80E+11	1.89E+08
0.00E+00	0.00E+00	3.60E+05	2.35E+13	3.40E+07	6.66E+05	4.34E+13	2.77E+08
0.00E+00	0.00E+00	9.51E+05	1.34E+13	7.03E+07	8.68E+04	1.22E+12	1.09E+08
0.00E+00	0.00E+00	1.02E+06	2.61E+12	4.00E+07	1.93E+04	4.95E+10	2.43E+07
0.00E+00	0.00E+00	7.82E+05	1.30E+12	1.40E+08	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	1.03E+06	7.90E+13	2.11E+08	4.60E+03	3.51E+11	5.13E+07
0.00E+00	0.00E+00	3.25E+05	3.04E+13	1.05E+08	5.82E+05	5.45E+13	9.08E+08
0.00E+00	0.00E+00	9.00E+05	2.05E+13	2.03E+08	1.05E+05	2.38E+12	6.73E+07
0.00E+00	0.00E+00	7.82E+05	3.30E+13	2.13E+08	1.63E+05	6.88E+12	1.29E+08
0.00E+00	0.00E+00	1.00E+06	2.62E+13	1.50E+08	3.90E+04	1.02E+12	3.01E+08
0.00E+00	0.00E+00	8.84E+05	3.68E+12	5.03E+07	1.54E+05	6.39E+11	8.65E+07
0.00E+00	0.00E+00	9.98E+05	1.40E+12	9.80E+07	0.00E+00	0.00E+00	0.00E+00

0.00E+00	0.00E+00	1.03E+06	3.58E+13	1.35E+08	7.17E+03	2.49E+11	1.21E+08
0.00E+00	0.00E+00	1.03E+06	2.07E+13	2.41E+08	8.75E+03	1.76E+11	1.29E+08
0.00E+00	0.00E+00	6.84E+05	2.54E+12	5.00E+07	3.47E+05	1.29E+12	1.00E+08
0.00E+00	0.00E+00	9.76E+05	9.29E+13	2.86E+08	4.58E+04	4.36E+12	2.43E+08
0.00E+00	0.00E+00	6.35E+05	2.02E+13	1.53E+08	4.05E+05	1.29E+13	2.02E+08
0.00E+00	0.00E+00	1.38E+05	4.96E+12	4.43E+07	7.54E+05	2.71E+13	1.93E+08
1.21E-04	9.50E+03	7.76E+05	6.09E+13	9.33E+07	2.63E+05	2.06E+13	1.03E+09
0.00E+00	0.00E+00	7.28E+05	1.32E+12	1.32E+08	6.03E+04	1.09E+11	2.08E+07
0.00E+00	0.00E+00	8.96E+05	2.30E+12	1.90E+08	1.25E+05	3.21E+11	1.43E+08
0.00E+00	0.00E+00	9.24E+05	1.19E+12	2.40E+08	8.32E+04	1.07E+11	1.56E+08
0.00E+00	0.00E+00	2.13E+03	1.77E+10	3.00E+06	8.60E+05	7.10E+12	1.00E+08
0.00E+00	0.00E+00	5.53E+05	2.41E+13	1.25E+08	4.78E+05	2.08E+13	2.90E+08
0.00E+00	0.00E+00	1.04E+06	2.75E+13	1.47E+08	9.49E+02	2.52E+10	5.00E+07
0.00E+00	0.00E+00	8.85E+05	1.10E+12	1.43E+08	1.19E+05	1.48E+11	1.38E+08
0.00E+00	0.00E+00	5.97E+05	1.40E+12	4.15E+07	4.29E+05	1.00E+12	1.42E+08
0.00E+00	0.00E+00	7.54E+05	2.67E+13	8.68E+07	8.42E+04	2.99E+12	2.70E+07
0.00E+00	0.00E+00	1.03E+06	2.50E+13	2.30E+08	7.95E+03	1.93E+11	1.43E+08
0.00E+00	0.00E+00	1.04E+06	4.37E+13	1.61E+08	1.27E+03	5.34E+10	7.65E+07
0.00E+00	0.00E+00	1.58E+05	1.76E+13	9.75E+07	8.07E+05	9.00E+13	3.60E+08
0.00E+00	0.00E+00	1.02E+06	1.71E+12	5.83E+07	1.82E+04	3.06E+10	1.35E+07
6.90E-05	3.55E+02	2.14E+05	1.10E+12	3.00E+07	8.19E+05	4.22E+12	4.67E+08
0.00E+00	0.00E+00	9.77E+05	1.13E+12	1.49E+08	1.02E+03	1.18E+09	2.25E+06
3.10E-04	2.89E+04	7.30E+05	6.81E+13	1.10E+08	3.09E+05	2.88E+13	1.31E+09
0.00E+00	0.00E+00	6.86E+05	1.20E+13	1.14E+08	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	9.04E+05	5.83E+13	1.04E+08	1.34E+05	8.67E+12	1.08E+08
0.00E+00	0.00E+00	1.01E+06	6.72E+12	2.19E+08	7.62E+03	5.06E+10	4.38E+07
0.00E+00	0.00E+00	1.04E+06	1.11E+14	1.77E+08	2.46E+02	2.62E+10	2.53E+07
0.00E+00	0.00E+00	1.01E+06	3.55E+12	1.22E+08	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	1.01E+06	9.54E+13	2.79E+08	9.86E+02	9.31E+10	1.04E+08
0.00E+00	0.00E+00	1.04E+06	4.50E+12	6.25E+07	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	1.02E+06	1.22E+12	7.48E+07	9.45E+03	1.13E+10	2.95E+07
9.24E-05	5.98E+03	8.74E+05	5.66E+13	1.97E+08	1.63E+05	1.06E+13	7.95E+08
0.00E+00	0.00E+00	1.03E+06	9.02E+13	1.75E+08	7.01E+02	6.12E+10	1.08E+07
0.00E+00	0.00E+00	1.01E+06	2.72E+13	1.07E+08	2.77E+04	7.45E+11	2.76E+08
0.00E+00	0.00E+00	4.73E+05	2.38E+13	9.98E+07	5.62E+05	2.83E+13	3.69E+08
0.00E+00	0.00E+00	1.04E+06	3.67E+13	9.48E+07	2.49E+02	8.80E+09	2.60E+07
0.00E+00	0.00E+00	1.03E+06	2.57E+13	1.02E+08	5.19E+03	1.29E+11	7.73E+07
0.00E+00	0.00E+00	1.04E+06	3.91E+13	2.63E+08	1.72E+03	6.48E+10	5.03E+07
0.00E+00	0.00E+00	1.02E+06	1.79E+12	4.65E+07	1.77E+04	3.10E+10	1.95E+07
0.00E+00	0.00E+00	4.47E+05	1.35E+13	8.15E+07	5.00E+05	1.51E+13	5.05E+08
0.00E+00	0.00E+00	4.23E+05	1.14E+13	5.95E+07	5.91E+05	1.60E+13	3.60E+08
0.00E+00	0.00E+00	1.04E+06	3.12E+12	1.10E+08	3.69E+02	1.11E+09	7.00E+06
0.00E+00	0.00E+00	7.01E+05	6.92E+12	9.18E+07	3.37E+05	3.33E+12	1.85E+08

7.04E-06	1.60E+02	2.39E+05	5.41E+12	7.45E+07	7.38E+05	1.67E+13	7.96E+08
9.69E-06	8.04E+02	9.76E+05	8.11E+13	2.15E+08	6.30E+04	5.23E+12	5.97E+08
0.00E+00	0.00E+00	9.44E+05	1.38E+13	2.46E+08	8.72E+04	1.27E+12	1.48E+08
0.00E+00	0.00E+00	6.92E+05	6.85E+12	2.27E+08	3.26E+05	3.22E+12	1.77E+08
0.00E+00	0.00E+00	7.58E+05	3.60E+13	1.27E+08	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	1.04E+06	3.20E+12	8.58E+07	1.94E+02	5.99E+08	3.50E+06
0.00E+00	0.00E+00	9.51E+05	2.17E+13	2.20E+08	6.16E+03	1.41E+11	6.60E+07
0.00E+00	0.00E+00	9.48E+05	1.49E+13	1.64E+08	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	1.03E+06	1.68E+13	2.13E+08	1.97E+02	3.21E+09	9.50E+06
0.00E+00	0.00E+00	7.76E+05	6.91E+13	1.41E+08	2.59E+05	2.30E+13	3.71E+08
0.00E+00	0.00E+00	9.28E+05	1.71E+13	9.25E+07	1.65E+04	3.04E+11	2.58E+07
0.00E+00	0.00E+00	1.03E+06	1.35E+13	8.73E+07	4.88E+03	6.37E+10	3.05E+07
7.05E-05	7.82E+02	6.42E+05	7.12E+12	8.28E+07	3.93E+05	4.37E+12	7.93E+08
0.00E+00	0.00E+00	3.61E+05	5.57E+11	4.00E+07	5.76E+05	8.88E+11	1.50E+08
0.00E+00	0.00E+00	1.03E+06	7.20E+13	1.48E+08	1.28E+04	8.98E+11	1.36E+08
0.00E+00	0.00E+00	1.01E+06	9.80E+13	2.70E+08	2.93E+04	2.84E+12	5.27E+08
0.00E+00	0.00E+00	1.03E+06	1.27E+13	1.23E+08	4.58E+03	5.63E+10	1.95E+07
8.80E-05	3.33E+02	8.13E+05	3.07E+12	7.95E+07	2.21E+05	8.36E+11	2.82E+08
0.00E+00	0.00E+00	1.03E+06	4.17E+13	2.10E+08	6.28E+01	2.53E+09	5.25E+06
0.00E+00	0.00E+00	1.00E+06	2.67E+12	1.81E+08	2.06E+04	5.48E+10	9.18E+07
0.00E+00	0.00E+00	1.02E+06	1.38E+13	8.58E+07	2.37E+04	3.22E+11	1.65E+08
1.10E-04	8.45E+02	8.56E+05	6.56E+12	1.05E+08	1.80E+05	1.38E+12	4.59E+08
0.00E+00	0.00E+00	1.01E+06	7.52E+13	1.56E+08	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	1.29E+05	4.81E+11	1.35E+07	8.98E+05	3.36E+12	3.24E+08
0.00E+00	0.00E+00	9.72E+05	2.24E+12	1.54E+08	5.93E+04	1.37E+11	1.42E+08
0.00E+00	0.00E+00	9.34E+05	4.41E+12	1.91E+08	5.58E+03	2.64E+10	1.55E+07
0.00E+00	0.00E+00	3.91E+05	1.45E+12	7.28E+07	5.28E+05	1.96E+12	1.47E+08
0.00E+00	0.00E+00	1.03E+06	6.03E+12	1.77E+08	6.66E+03	3.91E+10	5.45E+07
0.00E+00	0.00E+00	9.12E+05	2.27E+13	2.34E+08	1.04E+05	2.59E+12	1.11E+08
9.12E-06	1.50E+02	2.87E+05	4.73E+12	6.80E+07	5.88E+05	9.70E+12	3.12E+08
0.00E+00	0.00E+00	6.68E+05	2.20E+12	7.30E+07	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	1.01E+06	4.97E+12	1.39E+08	2.70E+04	1.33E+11	1.58E+08
0.00E+00	0.00E+00	9.71E+05	6.32E+12	1.07E+08	6.31E+04	4.10E+11	4.30E+07
0.00E+00	0.00E+00	9.09E+05	7.13E+13	2.44E+08	1.30E+05	1.02E+13	7.44E+08
0.00E+00	0.00E+00	3.86E+05	6.07E+11	1.17E+08	6.06E+05	9.53E+11	2.19E+08
0.00E+00	0.00E+00	9.20E+05	9.82E+12	2.04E+08	4.46E+04	4.76E+11	7.28E+07
0.00E+00	0.00E+00	1.01E+06	1.57E+12	9.35E+07	2.51E+04	3.90E+10	3.75E+07
0.00E+00	0.00E+00	6.85E+05	8.72E+12	1.66E+08	3.04E+05	3.86E+12	2.43E+08
0.00E+00	0.00E+00	1.74E+04	1.88E+11	9.25E+06	9.94E+05	1.07E+13	3.24E+08
0.00E+00	0.00E+00	6.32E+05	2.62E+13	6.25E+07	4.01E+05	1.66E+13	8.75E+07
0.00E+00	0.00E+00	2.09E+05	8.93E+12	8.00E+06	8.21E+05	3.50E+13	1.18E+08
0.00E+00	0.00E+00	4.73E+05	2.22E+13	1.82E+08	4.72E+05	2.21E+13	2.23E+08
0.00E+00	0.00E+00	1.01E+06	1.55E+13	2.35E+08	2.33E+04	3.55E+11	3.24E+08

0.00E+00	0.00E+00	1.03E+06	1.34E+12	9.40E+07	4.70E+03	6.12E+09	2.38E+07
2.94E-04	1.80E+04	7.54E+05	4.62E+13	1.46E+08	2.22E+05	1.36E+13	5.94E+08
3.47E-04	1.93E+03	6.01E+05	3.35E+12	1.28E+08	4.32E+05	2.41E+12	5.10E+08
0.00E+00	0.00E+00	1.04E+06	6.78E+13	1.81E+08	4.27E+02	2.79E+10	6.05E+07
0.00E+00	0.00E+00	1.03E+06	1.45E+13	1.67E+08	4.02E+03	5.65E+10	1.75E+07
0.00E+00	0.00E+00	1.04E+06	2.65E+12	7.13E+07	9.18E+02	2.35E+09	7.25E+06
0.00E+00	0.00E+00	9.66E+05	1.61E+12	2.14E+08	2.36E+04	3.92E+10	6.58E+07
0.00E+00	0.00E+00	1.01E+06	7.73E+13	1.32E+08	2.75E+04	2.10E+12	3.91E+08
2.52E-05	2.36E+03	5.05E+05	4.72E+13	1.83E+08	5.14E+05	4.81E+13	9.21E+08
0.00E+00	0.00E+00	9.35E+05	2.13E+13	2.19E+08	7.53E+04	1.71E+12	4.70E+07
1.67E-05	7.03E+02	8.32E+05	3.51E+13	2.44E+08	1.88E+05	7.94E+12	6.85E+08
0.00E+00	0.00E+00	2.51E+05	6.57E+12	4.83E+07	6.59E+05	1.73E+13	3.83E+08
0.00E+00	0.00E+00	1.04E+06	4.31E+12	1.48E+08	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	9.82E+05	1.38E+12	1.42E+08	7.85E+03	1.10E+10	1.43E+07
0.00E+00	0.00E+00	6.76E+05	2.35E+13	5.43E+07	3.59E+05	1.25E+13	2.21E+08
0.00E+00	0.00E+00	1.17E+04	2.35E+11	1.08E+07	7.92E+05	1.59E+13	2.28E+08
0.00E+00	0.00E+00	1.01E+06	3.74E+12	1.56E+08	2.79E+04	1.04E+11	1.42E+08
0.00E+00	0.00E+00	3.89E+05	3.70E+13	6.48E+07	5.86E+05	5.58E+13	4.75E+08
0.00E+00	0.00E+00	2.30E+05	7.31E+12	1.25E+07	8.02E+05	2.55E+13	2.29E+08
0.00E+00	0.00E+00	2.56E+04	9.23E+11	1.73E+07	6.80E+05	2.45E+13	1.88E+08
0.00E+00	0.00E+00	3.55E+05	2.79E+13	1.08E+08	6.78E+05	5.32E+13	8.02E+08
0.00E+00	0.00E+00	5.68E+04	1.03E+11	1.65E+07	5.84E+05	1.06E+12	9.40E+07
0.00E+00	0.00E+00	6.57E+05	1.68E+12	1.49E+08	2.60E+05	6.66E+11	1.24E+08
0.00E+00	0.00E+00	6.52E+05	8.41E+11	9.90E+07	3.59E+05	4.62E+11	4.03E+08
0.00E+00	0.00E+00	6.18E+05	5.10E+12	3.85E+07	4.20E+05	3.47E+12	2.71E+08
0.00E+00	0.00E+00	9.22E+05	4.01E+13	2.60E+08	6.66E+04	2.90E+12	1.06E+08
0.00E+00	0.00E+00	1.03E+06	2.73E+13	1.00E+08	8.76E+03	2.32E+11	2.58E+07
0.00E+00	0.00E+00	9.91E+05	1.24E+12	8.95E+07	2.56E+04	3.20E+10	1.85E+07
0.00E+00	0.00E+00	4.20E+05	9.82E+11	3.18E+07	6.09E+05	1.43E+12	2.69E+08
0.00E+00	0.00E+00	7.99E+05	2.83E+13	2.24E+08	2.26E+05	8.02E+12	5.36E+08
0.00E+00	0.00E+00	5.19E+04	1.26E+12	9.75E+06	9.81E+05	2.38E+13	2.82E+08
0.00E+00	0.00E+00	8.28E+05	3.48E+13	3.43E+07	2.02E+05	8.48E+12	9.53E+07
0.00E+00	0.00E+00	2.94E+05	3.28E+13	1.88E+08	6.83E+05	7.62E+13	5.30E+08
0.00E+00	0.00E+00	1.03E+06	1.75E+12	7.80E+07	1.68E+03	2.83E+09	1.23E+07
0.00E+00	0.00E+00	7.28E+05	3.75E+12	7.93E+07	2.96E+05	1.52E+12	3.57E+08
0.00E+00	0.00E+00	1.00E+06	1.16E+12	1.45E+08	4.59E+02	5.31E+08	1.75E+06
0.00E+00	0.00E+00	7.03E+05	6.56E+13	2.55E+08	2.87E+05	2.68E+13	5.16E+08
0.00E+00	0.00E+00	4.49E+05	7.88E+12	9.58E+07	5.87E+05	1.03E+13	3.06E+08
0.00E+00	0.00E+00	1.03E+06	6.67E+13	8.50E+07	5.15E+03	3.32E+11	9.63E+07
0.00E+00	0.00E+00	8.12E+05	5.40E+12	1.26E+08	2.15E+05	1.43E+12	1.69E+08
0.00E+00	0.00E+00	1.04E+06	1.11E+14	1.60E+08	1.16E+03	1.24E+11	9.75E+07
0.00E+00	0.00E+00	6.75E+05	2.36E+12	2.75E+07	3.62E+05	1.27E+12	1.02E+08
0.00E+00	0.00E+00	2.49E+05	2.36E+13	5.48E+07	6.68E+05	6.31E+13	7.09E+08

0.00E+00	0.00E+00	1.03E+06	4.48E+12	9.43E+07	3.90E+03	1.69E+10	3.33E+07
0.00E+00	0.00E+00	6.78E+05	8.11E+11	3.93E+07	3.55E+05	4.24E+11	7.43E+07
9.66E-06	6.25E+02	5.11E+05	3.31E+13	1.18E+08	4.61E+05	2.99E+13	6.63E+08
0.00E+00	0.00E+00	9.33E+05	8.15E+13	8.30E+07	1.06E+05	9.28E+12	1.28E+08
0.00E+00	0.00E+00	1.04E+06	2.79E+13	1.36E+08	4.04E+03	1.09E+11	1.10E+08
0.00E+00	0.00E+00	8.95E+05	4.51E+13	1.84E+08	1.30E+05	6.53E+12	2.73E+08
0.00E+00	0.00E+00	1.04E+06	3.67E+13	6.13E+07	1.35E+01	4.77E+08	2.00E+06
0.00E+00	0.00E+00	9.22E+05	2.29E+13	5.60E+07	1.17E+05	2.91E+12	8.60E+07
0.00E+00	0.00E+00	8.65E+05	3.26E+13	1.49E+08	1.75E+05	6.57E+12	3.19E+08
0.00E+00	0.00E+00	1.04E+06	1.82E+12	7.25E+07	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	5.99E+05	1.80E+13	2.18E+08	3.69E+05	1.11E+13	2.23E+08
0.00E+00	0.00E+00	4.44E+05	1.20E+13	5.00E+07	5.91E+05	1.60E+13	3.27E+08
0.00E+00	0.00E+00	1.04E+06	3.12E+12	7.75E+07	1.08E+03	3.26E+09	7.50E+06
0.00E+00	0.00E+00	6.89E+05	6.80E+12	2.02E+08	2.62E+05	2.59E+12	1.60E+08
1.81E-05	4.09E+02	9.44E+05	2.14E+13	1.51E+08	9.40E+04	2.13E+12	6.08E+08
0.00E+00	0.00E+00	6.86E+04	5.70E+12	2.08E+07	7.44E+05	6.17E+13	3.04E+08
1.00E-05	1.46E+02	5.79E+05	8.46E+12	1.39E+08	3.90E+05	5.70E+12	6.25E+08
5.11E-05	5.06E+02	5.19E+05	5.14E+12	1.17E+08	4.67E+05	4.62E+12	6.74E+08
0.00E+00	0.00E+00	7.85E+05	3.72E+13	1.62E+08	2.54E+05	1.20E+13	7.19E+08
0.00E+00	0.00E+00	1.03E+06	3.18E+12	5.68E+07	8.47E+03	2.61E+10	1.35E+07
0.00E+00	0.00E+00	9.98E+05	2.28E+13	2.09E+08	3.41E+02	7.79E+09	9.50E+06
0.00E+00	0.00E+00	9.62E+05	1.52E+13	1.90E+08	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	9.48E+05	1.55E+13	1.80E+08	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	9.37E+05	8.35E+13	1.33E+08	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	9.40E+05	1.73E+13	1.67E+08	9.83E+04	1.81E+12	3.00E+08
0.00E+00	0.00E+00	8.16E+05	1.07E+13	7.63E+07	2.23E+05	2.91E+12	2.21E+08
0.00E+00	0.00E+00	6.12E+05	6.79E+12	9.08E+07	3.48E+05	3.86E+12	1.71E+08
0.00E+00	0.00E+00	3.32E+05	5.12E+11	5.48E+07	6.24E+05	9.63E+11	2.55E+08
0.00E+00	0.00E+00	9.07E+05	6.37E+13	1.10E+08	1.22E+05	8.58E+12	1.05E+08
5.13E-06	4.98E+02	5.87E+05	5.70E+13	3.00E+08	4.38E+05	4.25E+13	6.10E+08
0.00E+00	0.00E+00	6.95E+05	8.55E+12	3.98E+07	3.40E+05	4.19E+12	1.43E+08
0.00E+00	0.00E+00	6.48E+05	2.45E+12	1.59E+08	3.65E+05	1.38E+12	1.47E+08
5.77E-06	2.33E+02	9.90E+05	3.99E+13	1.33E+08	4.92E+04	1.98E+12	4.42E+08
0.00E+00	0.00E+00	9.29E+05	2.47E+12	1.20E+08	1.04E+05	2.75E+11	1.77E+08
0.00E+00	0.00E+00	7.07E+05	9.62E+12	4.55E+07	3.27E+05	4.45E+12	3.67E+08
0.00E+00	0.00E+00	8.49E+05	6.51E+12	1.52E+08	1.86E+05	1.43E+12	4.09E+08
0.00E+00	0.00E+00	3.47E+05	2.58E+13	9.00E+06	6.79E+05	5.04E+13	1.02E+08
0.00E+00	0.00E+00	6.91E+05	2.58E+12	3.95E+07	1.50E+04	5.60E+10	2.75E+07
0.00E+00	0.00E+00	9.86E+05	2.27E+12	8.43E+07	1.08E+03	2.49E+09	4.25E+06
0.00E+00	0.00E+00	8.74E+05	4.13E+12	1.90E+08	2.68E+01	1.27E+08	5.00E+05
0.00E+00	0.00E+00	1.01E+06	3.76E+12	1.37E+08	2.11E+04	7.84E+10	1.28E+08
0.00E+00	0.00E+00	9.94E+05	5.83E+12	7.58E+07	4.39E+04	2.57E+11	1.61E+08
0.00E+00	0.00E+00	2.07E+05	5.14E+12	5.68E+07	7.18E+05	1.78E+13	3.99E+08

0.00E+00	0.00E+00	8.01E+05	1.32E+13	8.23E+07	2.33E+05	3.84E+12	4.98E+08
0.00E+00	0.00E+00	5.94E+05	1.96E+12	1.00E+08	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	3.40E+05	1.67E+12	4.60E+07	6.46E+05	3.18E+12	3.70E+08
0.00E+00	0.00E+00	6.16E+05	4.01E+12	8.23E+07	4.01E+05	2.61E+12	1.92E+08
0.00E+00	0.00E+00	9.44E+05	7.40E+13	2.21E+08	5.20E+04	4.07E+12	1.61E+08
0.00E+00	0.00E+00	2.11E+05	3.32E+11	1.85E+07	8.08E+05	1.27E+12	2.35E+08
0.00E+00	0.00E+00	3.00E+05	3.20E+12	4.53E+07	7.34E+05	7.83E+12	3.06E+08
0.00E+00	0.00E+00	9.96E+05	1.55E+12	1.72E+08	2.75E+04	4.26E+10	8.10E+07
0.00E+00	0.00E+00	5.19E+05	6.60E+12	1.04E+08	4.45E+05	5.66E+12	2.58E+08
0.00E+00	0.00E+00	6.75E+05	7.28E+12	1.94E+08	3.43E+05	3.70E+12	1.56E+08
0.00E+00	0.00E+00	9.16E+05	3.79E+13	6.03E+07	1.23E+05	5.11E+12	2.00E+08
0.00E+00	0.00E+00	1.04E+06	4.43E+13	1.35E+08	2.25E+03	9.62E+10	1.14E+08
6.87E-05	3.22E+03	3.32E+05	1.56E+13	1.49E+08	5.05E+05	2.37E+13	8.64E+08
0.00E+00	0.00E+00	8.79E+05	1.34E+13	1.81E+08	1.54E+05	2.35E+12	4.90E+08
0.00E+00	0.00E+00	1.03E+06	1.34E+12	5.23E+07	6.77E+03	8.82E+09	1.05E+07
0.00E+00	0.00E+00	9.83E+05	6.03E+13	1.65E+08	5.48E+04	3.36E+12	3.30E+08
0.00E+00	0.00E+00	2.50E+05	1.40E+12	3.60E+07	7.67E+05	4.28E+12	3.85E+08
0.00E+00	0.00E+00	1.04E+06	6.77E+13	1.93E+08	1.86E+03	1.21E+11	8.40E+07
0.00E+00	0.00E+00	9.58E+05	1.35E+13	1.91E+08	8.02E+04	1.13E+12	1.38E+08
0.00E+00	0.00E+00	8.48E+05	2.17E+12	2.23E+07	1.90E+05	4.85E+11	8.38E+07
0.00E+00	0.00E+00	9.12E+05	1.52E+12	1.61E+08	1.09E+05	1.81E+11	2.56E+08
0.00E+00	0.00E+00	8.54E+05	6.53E+13	1.08E+08	1.43E+05	1.09E+13	1.05E+08
3.89E-06	3.64E+02	7.04E+05	6.58E+13	1.53E+08	3.27E+05	3.06E+13	6.54E+08
0.00E+00	0.00E+00	9.99E+05	2.27E+13	1.62E+08	3.91E+04	8.90E+11	3.47E+08
0.00E+00	0.00E+00	8.93E+05	3.77E+13	1.41E+08	1.36E+05	5.74E+12	4.75E+08
0.00E+00	0.00E+00	7.25E+05	1.90E+13	1.90E+08	5.49E+04	1.44E+12	2.80E+07
0.00E+00	0.00E+00	4.80E+05	2.00E+12	1.08E+08	4.87E+05	2.03E+12	1.00E+08
0.00E+00	0.00E+00	8.31E+05	1.17E+12	5.25E+07	2.03E+05	2.86E+11	5.30E+07
0.00E+00	0.00E+00	9.16E+05	3.18E+13	1.28E+08	1.20E+05	4.17E+12	1.37E+08
0.00E+00	0.00E+00	6.61E+05	1.33E+13	1.15E+08	3.77E+05	7.58E+12	3.28E+08
0.00E+00	0.00E+00	1.03E+06	3.82E+12	1.75E+08	5.67E+03	2.11E+10	5.40E+07
0.00E+00	0.00E+00	9.67E+05	9.21E+13	2.87E+08	6.10E+04	5.80E+12	4.02E+08
0.00E+00	0.00E+00	1.04E+06	3.30E+13	1.76E+08	2.31E+03	7.33E+10	1.14E+08
0.00E+00	0.00E+00	1.02E+06	3.69E+13	3.03E+08	1.00E+04	3.60E+11	2.87E+08
0.00E+00	0.00E+00	1.40E+05	1.10E+13	2.83E+07	8.77E+05	6.88E+13	2.76E+08
0.00E+00	0.00E+00	1.20E+05	2.17E+11	2.33E+07	8.95E+05	1.62E+12	2.92E+08
6.50E-05	1.67E+02	4.55E+05	1.17E+12	6.58E+07	5.47E+05	1.40E+12	4.95E+08
0.00E+00	0.00E+00	2.45E+05	3.16E+11	2.65E+07	6.39E+05	8.23E+11	1.45E+08
0.00E+00	0.00E+00	8.41E+05	6.95E+12	5.78E+07	1.93E+05	1.59E+12	3.18E+08
0.00E+00	0.00E+00	5.43E+05	2.36E+13	1.53E+08	4.90E+05	2.13E+13	6.39E+08
0.00E+00	0.00E+00	8.87E+05	2.35E+13	4.93E+07	1.53E+05	4.04E+12	1.23E+08
4.97E-04	6.19E+02	1.79E+05	2.23E+11	2.68E+07	8.09E+05	1.01E+12	2.98E+08
0.00E+00	0.00E+00	6.55E+05	1.53E+12	4.93E+07	3.51E+05	8.22E+11	2.31E+08

2.67E-05	9.47E+02	9.02E+05	3.20E+13	1.08E+08	1.35E+05	4.79E+12	6.29E+08
2.07E-04	5.01E+03	5.40E+05	1.31E+13	1.04E+08	4.97E+05	1.21E+13	6.84E+08
0.00E+00	0.00E+00	1.32E+05	5.55E+12	1.30E+07	8.57E+05	3.61E+13	1.49E+08
8.52E-06	9.50E+02	9.82E+05	1.10E+14	2.33E+08	5.71E+04	6.37E+12	7.51E+08
0.00E+00	0.00E+00	1.00E+06	1.69E+12	2.45E+07	3.50E+04	5.91E+10	2.60E+07
0.00E+00	0.00E+00	5.23E+05	2.69E+12	1.45E+08	3.84E+05	1.98E+12	3.26E+08
0.00E+00	0.00E+00	9.29E+05	1.07E+12	7.48E+07	9.83E+04	1.14E+11	1.26E+08
0.00E+00	0.00E+00	8.17E+05	7.62E+13	1.22E+08	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	1.29E+05	2.27E+12	3.28E+07	5.92E+05	1.04E+13	1.59E+08
0.00E+00	0.00E+00	1.04E+06	6.69E+13	1.58E+08	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	7.42E+05	4.94E+12	8.35E+07	2.88E+05	1.92E+12	5.73E+08
0.00E+00	0.00E+00	1.04E+06	1.11E+14	1.49E+08	1.38E+02	1.48E+10	1.85E+07
0.00E+00	0.00E+00	7.34E+05	2.57E+12	2.08E+07	3.04E+05	1.06E+12	9.75E+07
0.00E+00	0.00E+00	7.34E+05	6.94E+13	2.37E+08	2.27E+05	2.15E+13	1.27E+08
0.00E+00	0.00E+00	1.04E+06	4.50E+12	6.85E+07	1.53E+03	6.63E+09	9.75E+06
0.00E+00	0.00E+00	1.02E+06	1.22E+12	9.85E+07	1.53E+04	1.82E+10	3.93E+07
0.00E+00	0.00E+00	7.49E+05	4.85E+13	9.60E+07	2.82E+05	1.83E+13	6.54E+08
0.00E+00	0.00E+00	1.01E+06	8.83E+13	1.11E+08	2.98E+04	2.60E+12	3.67E+08
3.06E-04	8.24E+03	5.82E+05	1.57E+13	6.43E+07	4.38E+05	1.18E+13	5.75E+08
0.00E+00	0.00E+00	1.02E+06	5.13E+13	2.44E+08	2.02E+04	1.02E+12	3.90E+08
8.50E-06	3.01E+02	9.94E+05	3.51E+13	6.33E+07	4.50E+04	1.59E+12	1.27E+08
0.00E+00	0.00E+00	1.04E+06	2.58E+13	1.18E+08	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	9.63E+05	3.63E+13	2.16E+08	1.01E+04	3.82E+11	4.65E+07
0.00E+00	0.00E+00	1.04E+06	1.82E+12	3.90E+07	2.54E+03	4.46E+09	8.25E+06
0.00E+00	0.00E+00	9.77E+05	2.94E+13	2.87E+08	5.43E+04	1.64E+12	2.49E+08
0.00E+00	0.00E+00	1.03E+06	2.80E+13	1.17E+08	6.19E+03	1.67E+11	8.63E+07
0.00E+00	0.00E+00	8.64E+05	2.60E+12	1.05E+08	1.48E+05	4.45E+11	5.70E+07
4.16E-04	4.10E+03	2.75E+05	2.72E+12	7.63E+07	7.49E+05	7.40E+12	5.18E+08
0.00E+00	0.00E+00	8.57E+05	1.94E+13	1.64E+08	0.00E+00	0.00E+00	0.00E+00
7.56E-06	6.27E+02	6.97E+05	5.79E+13	2.96E+08	3.19E+05	2.65E+13	6.42E+08
0.00E+00	0.00E+00	2.07E+05	3.03E+12	5.75E+07	7.91E+05	1.16E+13	4.37E+08
0.00E+00	0.00E+00	4.90E+05	4.85E+12	1.18E+08	5.27E+05	5.21E+12	3.14E+08
0.00E+00	0.00E+00	2.22E+05	1.05E+13	3.90E+07	5.89E+05	2.79E+13	4.09E+08
0.00E+00	0.00E+00	1.03E+06	3.19E+12	8.98E+07	3.83E+03	1.18E+10	2.88E+07
0.00E+00	0.00E+00	7.12E+05	1.63E+13	9.18E+07	9.62E+04	2.20E+12	2.68E+07
0.00E+00	0.00E+00	1.02E+06	1.60E+13	2.25E+08	2.00E+04	3.16E+11	1.82E+08
1.34E-05	2.18E+02	7.95E+05	1.30E+13	8.05E+07	2.32E+05	3.79E+12	4.99E+08
0.00E+00	0.00E+00	2.59E+05	2.31E+13	7.08E+07	5.80E+05	5.17E+13	1.57E+08
1.93E-05	3.55E+02	7.60E+05	1.40E+13	3.15E+08	2.76E+05	5.08E+12	4.97E+08
0.00E+00	0.00E+00	1.04E+06	1.36E+13	9.40E+07	7.44E+02	9.73E+09	2.85E+07
0.00E+00	0.00E+00	9.77E+05	1.08E+13	1.77E+08	5.95E+04	6.60E+11	3.89E+08
0.00E+00	0.00E+00	4.00E+05	6.17E+11	2.10E+07	6.30E+05	9.71E+11	2.03E+08
0.00E+00	0.00E+00	1.02E+06	7.18E+13	2.24E+08	2.71E+02	1.90E+10	4.15E+07

0.00E+00	0.00E+00	2.23E+05	2.17E+13	3.65E+07	5.17E+05	5.02E+13	9.33E+07
1.17E-05	1.44E+02	9.80E+05	1.21E+13	1.49E+08	5.85E+04	7.20E+11	1.20E+08
0.00E+00	0.00E+00	1.02E+06	3.86E+12	2.15E+08	6.94E+03	2.62E+10	6.15E+07
0.00E+00	0.00E+00	1.02E+06	4.11E+13	1.35E+08	1.98E+04	8.00E+11	2.58E+08
0.00E+00	0.00E+00	9.12E+05	2.42E+12	9.83E+07	1.22E+05	3.23E+11	1.55E+08
0.00E+00	0.00E+00	9.32E+05	1.27E+13	6.38E+07	9.08E+04	1.23E+12	8.75E+07
2.03E-05	1.55E+02	4.15E+05	3.18E+12	1.53E+08	6.05E+05	4.64E+12	3.19E+08
0.00E+00	0.00E+00	1.03E+06	7.67E+13	1.50E+08	5.47E+03	4.05E+11	1.43E+08
0.00E+00	0.00E+00	6.78E+05	2.53E+12	4.20E+07	3.59E+05	1.34E+12	1.75E+08
0.00E+00	0.00E+00	8.94E+05	2.06E+12	1.57E+08	1.28E+05	2.94E+11	5.68E+07
0.00E+00	0.00E+00	8.53E+05	4.03E+12	1.28E+08	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	9.47E+05	3.51E+12	1.85E+08	3.88E+03	1.44E+10	4.53E+07
0.00E+00	0.00E+00	9.22E+05	5.41E+12	9.53E+07	1.14E+05	6.68E+11	2.65E+08
0.00E+00	0.00E+00	9.93E+05	2.47E+13	2.32E+08	4.95E+03	1.23E+11	5.63E+07
0.00E+00	0.00E+00	9.02E+05	1.49E+13	2.02E+08	1.37E+05	2.25E+12	2.77E+08
0.00E+00	0.00E+00	9.37E+05	3.09E+12	1.63E+08	8.30E+04	2.73E+11	1.02E+08
0.00E+00	0.00E+00	7.43E+05	3.66E+12	1.43E+08	2.86E+05	1.41E+12	2.64E+08
0.00E+00	0.00E+00	9.97E+04	6.49E+11	9.50E+06	8.02E+05	5.22E+12	1.15E+08
0.00E+00	0.00E+00	4.31E+05	3.38E+13	4.28E+07	5.57E+05	4.37E+13	4.59E+08
0.00E+00	0.00E+00	8.82E+05	1.39E+12	1.06E+08	7.92E+04	1.25E+11	3.00E+07
0.00E+00	0.00E+00	9.01E+05	9.61E+12	2.04E+08	1.07E+05	1.14E+12	1.85E+08
0.00E+00	0.00E+00	1.03E+06	1.60E+12	1.34E+08	1.13E+03	1.76E+09	8.25E+06
0.00E+00	0.00E+00	9.52E+05	1.21E+13	1.89E+08	6.33E+00	8.04E+07	5.00E+05
0.00E+00	0.00E+00	9.41E+05	1.02E+13	1.57E+08	9.15E+04	9.88E+11	3.26E+08
0.00E+00	0.00E+00	1.00E+06	4.14E+13	4.70E+07	3.87E+04	1.60E+12	1.96E+08
0.00E+00	0.00E+00	1.02E+06	4.37E+13	8.35E+07	4.29E+02	1.83E+10	6.50E+06
0.00E+00	0.00E+00	6.81E+05	3.19E+13	2.12E+08	3.06E+05	1.43E+13	5.23E+08
8.64E-05	1.32E+03	1.52E+05	2.33E+12	4.55E+07	8.64E+05	1.32E+13	6.40E+08
0.00E+00	0.00E+00	1.03E+06	1.35E+12	1.10E+08	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	9.18E+05	5.63E+13	2.07E+08	6.33E+02	3.88E+10	1.15E+07
0.00E+00	0.00E+00	6.32E+05	3.53E+12	7.80E+07	3.94E+05	2.20E+12	1.53E+08
0.00E+00	0.00E+00	6.71E+05	4.38E+13	1.34E+08	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	1.02E+06	1.44E+13	1.68E+08	9.37E+03	1.32E+11	9.53E+07
0.00E+00	0.00E+00	1.01E+06	2.59E+12	5.75E+07	2.50E+04	6.38E+10	5.88E+07
0.00E+00	0.00E+00	1.01E+06	1.69E+12	2.08E+08	1.12E+04	1.87E+10	4.28E+07
0.00E+00	0.00E+00	1.03E+06	7.90E+13	1.54E+08	4.44E+03	3.39E+11	6.20E+07
0.00E+00	0.00E+00	9.88E+05	9.24E+13	2.36E+08	2.50E+03	2.34E+11	3.78E+07
0.00E+00	0.00E+00	7.98E+05	1.81E+13	8.35E+07	2.32E+05	5.28E+12	5.07E+08
0.00E+00	0.00E+00	1.02E+06	4.30E+13	3.06E+08	1.23E+04	5.20E+11	3.10E+08
5.48E-06	1.44E+02	7.12E+05	1.87E+13	1.16E+08	2.66E+05	6.97E+12	3.00E+08
0.00E+00	0.00E+00	7.56E+05	3.15E+12	3.98E+07	2.81E+05	1.17E+12	1.36E+08
0.00E+00	0.00E+00	1.01E+06	1.42E+12	8.95E+07	2.05E+04	2.88E+10	7.23E+07
0.00E+00	0.00E+00	8.19E+05	2.84E+13	1.47E+08	1.95E+05	6.76E+12	6.05E+07

9.21E-06	1.85E+02	3.02E+05	6.08E+12	2.48E+07	7.35E+05	1.48E+13	5.13E+08
0.00E+00	0.00E+00	8.19E+05	3.04E+12	7.45E+07	1.22E+05	4.54E+11	7.25E+07
0.00E+00	0.00E+00	4.99E+05	4.75E+13	1.25E+08	4.66E+05	4.44E+13	7.51E+08
0.00E+00	0.00E+00	7.54E+05	2.40E+13	4.90E+07	2.85E+05	9.06E+12	3.08E+08
4.94E-04	1.78E+04	5.97E+05	2.15E+13	2.66E+08	3.41E+05	1.23E+13	7.20E+08
0.00E+00	0.00E+00	5.88E+05	4.62E+13	7.30E+07	4.30E+05	3.37E+13	6.24E+08
0.00E+00	0.00E+00	6.21E+05	1.12E+12	1.28E+08	1.92E+05	3.47E+11	1.06E+08
0.00E+00	0.00E+00	8.59E+05	2.20E+12	1.27E+08	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	5.79E+05	7.47E+11	1.86E+08	4.21E+05	5.42E+11	1.58E+08
0.00E+00	0.00E+00	8.64E+05	7.13E+12	1.55E+08	1.74E+05	1.43E+12	2.07E+08
0.00E+00	0.00E+00	2.07E+04	9.02E+11	7.08E+07	9.57E+05	4.16E+13	4.19E+08
0.00E+00	0.00E+00	1.04E+06	2.75E+13	1.04E+08	9.42E+02	2.49E+10	4.43E+07
6.99E-04	8.72E+02	3.19E+05	3.98E+11	5.63E+07	6.59E+05	8.23E+11	4.09E+08
0.00E+00	0.00E+00	1.00E+06	2.35E+12	1.39E+08	2.89E+03	6.76E+09	1.15E+07
0.00E+00	0.00E+00	4.37E+05	1.55E+13	2.50E+08	4.53E+05	1.61E+13	2.84E+08
0.00E+00	0.00E+00	9.62E+05	2.33E+13	1.43E+08	1.28E+01	3.10E+08	1.25E+06
0.00E+00	0.00E+00	7.05E+05	2.97E+13	5.05E+07	3.35E+05	1.41E+13	1.85E+08
1.53E-04	1.71E+04	3.54E+05	3.95E+13	8.75E+07	4.69E+05	5.23E+13	9.05E+08
0.00E+00	0.00E+00	1.02E+06	1.72E+12	1.02E+08	1.78E+04	3.00E+10	4.88E+07
0.00E+00	0.00E+00	7.56E+05	3.89E+12	1.66E+08	6.22E+02	3.21E+09	2.75E+06
0.00E+00	0.00E+00	9.70E+05	1.12E+12	8.30E+07	5.88E+04	6.79E+10	1.05E+08
0.00E+00	0.00E+00	1.02E+06	9.56E+13	3.00E+08	1.40E+04	1.31E+12	4.36E+08
0.00E+00	0.00E+00	6.47E+05	1.14E+13	1.24E+08	3.91E+05	6.86E+12	4.71E+08
0.00E+00	0.00E+00	8.86E+05	5.72E+13	2.05E+07	1.53E+05	9.85E+12	1.04E+08
0.00E+00	0.00E+00	9.65E+05	6.42E+12	2.18E+08	3.63E+02	2.41E+09	9.50E+06
0.00E+00	0.00E+00	9.87E+05	1.05E+14	8.03E+07	5.32E+04	5.67E+12	1.08E+08
0.00E+00	0.00E+00	9.73E+05	3.40E+12	8.85E+07	6.29E+04	2.20E+11	1.31E+08
2.94E-06	2.78E+02	4.84E+05	4.58E+13	2.18E+08	5.49E+05	5.19E+13	6.48E+08
0.00E+00	0.00E+00	1.04E+06	4.51E+12	4.53E+07	4.52E+01	1.96E+08	5.00E+05
0.00E+00	0.00E+00	6.91E+05	8.25E+11	2.05E+07	3.43E+05	4.10E+11	9.70E+07
0.00E+00	0.00E+00	6.82E+05	4.42E+13	2.03E+08	3.04E+05	1.97E+13	4.93E+08
0.00E+00	0.00E+00	9.74E+05	8.51E+13	8.88E+07	6.60E+04	5.77E+12	1.41E+08
6.60E-06	1.78E+02	1.00E+06	2.70E+13	2.05E+08	3.64E+04	9.79E+11	1.80E+08
0.00E+00	0.00E+00	4.47E+05	2.25E+13	7.83E+07	5.44E+05	2.74E+13	7.65E+08
0.00E+00	0.00E+00	9.77E+05	3.45E+13	5.68E+07	6.37E+04	2.25E+12	6.45E+07
0.00E+00	0.00E+00	1.04E+06	2.58E+13	7.58E+07	6.94E+02	1.72E+10	1.78E+07
0.00E+00	0.00E+00	3.91E+05	1.47E+13	5.08E+07	6.48E+05	2.44E+13	4.26E+08
0.00E+00	0.00E+00	1.02E+06	1.80E+12	5.13E+07	1.29E+04	2.27E+10	4.05E+07
6.48E-05	1.95E+03	6.81E+05	2.05E+13	1.56E+08	3.54E+05	1.07E+13	9.50E+08
0.00E+00	0.00E+00	1.04E+06	2.81E+13	2.03E+08	3.05E+01	8.25E+08	4.25E+06
0.00E+00	0.00E+00	5.63E+05	1.69E+12	5.08E+07	4.71E+05	1.42E+12	1.11E+08
0.00E+00	0.00E+00	5.39E+05	5.33E+12	7.05E+07	4.91E+05	4.85E+12	3.24E+08
0.00E+00	0.00E+00	7.98E+05	1.81E+13	2.14E+08	1.62E+05	3.67E+12	2.19E+08

0.00E+00	0.00E+00	9.59E+05	7.96E+13	2.55E+08	7.66E+04	6.36E+12	5.73E+08
0.00E+00	0.00E+00	8.23E+05	1.20E+13	1.47E+08	2.05E+05	2.99E+12	3.34E+08
0.00E+00	0.00E+00	6.30E+05	6.23E+12	2.04E+08	3.16E+05	3.13E+12	5.93E+08
0.00E+00	0.00E+00	5.05E+05	2.40E+13	1.08E+08	5.19E+05	2.46E+13	3.15E+08
0.00E+00	0.00E+00	8.13E+05	2.51E+12	2.68E+07	2.25E+05	6.95E+11	5.30E+07
0.00E+00	0.00E+00	6.99E+05	1.60E+13	1.06E+08	3.36E+05	7.67E+12	3.75E+08
0.00E+00	0.00E+00	9.83E+05	1.55E+13	2.56E+08	4.27E+04	6.73E+11	1.92E+08
0.00E+00	0.00E+00	1.03E+06	1.69E+13	2.43E+08	3.86E+03	6.31E+10	1.08E+08
0.00E+00	0.00E+00	5.66E+05	5.04E+13	1.41E+08	4.74E+05	4.22E+13	6.46E+08
1.25E-05	2.31E+02	3.29E+05	6.07E+12	6.40E+07	6.31E+05	1.16E+13	4.27E+08
0.00E+00	0.00E+00	1.03E+06	1.35E+13	8.98E+07	7.87E+03	1.03E+11	1.05E+08
3.47E-05	3.85E+02	6.85E+05	7.60E+12	6.48E+07	3.48E+05	3.86E+12	6.24E+08
0.00E+00	0.00E+00	8.52E+05	1.31E+12	6.40E+07	1.79E+05	2.76E+11	6.78E+07
0.00E+00	0.00E+00	1.03E+06	7.23E+13	1.02E+08	9.30E+03	6.53E+11	2.06E+08
0.00E+00	0.00E+00	9.03E+05	8.77E+13	2.75E+08	1.24E+05	1.21E+13	4.28E+08
0.00E+00	0.00E+00	1.04E+06	1.28E+13	1.52E+08	1.32E+03	1.62E+10	4.28E+07
0.00E+00	0.00E+00	2.26E+05	8.53E+11	1.25E+07	8.08E+05	3.05E+12	1.96E+08
0.00E+00	0.00E+00	1.03E+06	4.17E+13	1.05E+08	6.56E+03	2.64E+11	1.51E+08
0.00E+00	0.00E+00	9.54E+05	2.53E+12	1.44E+08	7.78E+04	2.07E+11	2.02E+08
0.00E+00	0.00E+00	9.94E+05	1.35E+13	2.28E+08	4.31E+04	5.86E+11	1.23E+08
0.00E+00	0.00E+00	8.02E+05	6.15E+12	7.55E+07	2.35E+05	1.80E+12	1.66E+08
0.00E+00	0.00E+00	1.03E+06	7.63E+13	1.71E+08	1.00E+04	7.42E+11	6.33E+07
0.00E+00	0.00E+00	7.98E+05	2.98E+12	1.60E+08	2.23E+05	8.35E+11	1.85E+08
0.00E+00	0.00E+00	3.80E+05	8.77E+11	1.25E+07	6.54E+05	1.51E+12	2.09E+08
0.00E+00	0.00E+00	9.55E+05	4.51E+12	1.86E+08	1.00E+04	4.74E+10	1.40E+07
0.00E+00	0.00E+00	7.30E+05	2.71E+12	6.75E+07	3.05E+05	1.13E+12	2.14E+08
0.00E+00	0.00E+00	5.34E+05	3.13E+12	3.53E+07	5.04E+05	2.95E+12	1.89E+08
0.00E+00	0.00E+00	8.48E+05	2.11E+13	1.91E+08	1.58E+04	3.92E+11	3.38E+07
2.48E-05	4.09E+02	9.47E+05	1.56E+13	1.31E+08	9.10E+04	1.50E+12	4.53E+08
0.00E+00	0.00E+00	9.83E+05	3.24E+12	2.05E+08	4.85E+04	1.60E+11	7.95E+07
0.00E+00	0.00E+00	6.05E+04	2.98E+11	1.78E+07	8.15E+05	4.01E+12	3.84E+08
0.00E+00	0.00E+00	2.16E+05	1.41E+12	1.13E+07	8.15E+05	5.30E+12	2.04E+08
0.00E+00	0.00E+00	1.01E+06	7.88E+13	2.84E+08	2.39E+04	1.87E+12	3.09E+08
0.00E+00	0.00E+00	4.07E+05	6.40E+11	3.18E+07	5.59E+05	8.79E+11	1.13E+08
0.00E+00	0.00E+00	7.63E+05	8.15E+12	1.81E+08	2.53E+05	2.70E+12	3.19E+08
0.00E+00	0.00E+00	9.96E+05	1.55E+12	1.98E+08	1.78E+04	2.76E+10	5.60E+07
0.00E+00	0.00E+00	6.19E+05	7.88E+12	1.20E+08	3.53E+05	4.48E+12	1.85E+08
0.00E+00	0.00E+00	1.00E+06	1.08E+13	2.68E+08	3.31E+04	3.58E+11	2.77E+08
0.00E+00	0.00E+00	1.04E+06	4.30E+13	1.45E+08	1.90E+02	7.86E+09	2.70E+07
0.00E+00	0.00E+00	1.01E+06	4.29E+13	1.96E+08	1.39E+02	5.95E+09	9.25E+06
0.00E+00	0.00E+00	2.11E+03	9.91E+10	8.50E+06	5.91E+05	2.77E+13	1.48E+08
3.02E-05	4.61E+02	6.40E+05	9.78E+12	8.80E+07	3.82E+05	5.82E+12	7.70E+08
0.00E+00	0.00E+00	9.99E+05	1.30E+12	7.08E+07	3.23E+04	4.21E+10	1.60E+07

0.00E+00	0.00E+00	9.68E+05	5.93E+13	2.59E+08	6.82E+04	4.18E+12	1.93E+08
0.00E+00	0.00E+00	1.00E+06	5.59E+12	1.95E+08	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	2.29E+05	1.49E+13	9.75E+06	8.00E+05	5.22E+13	1.64E+08
0.00E+00	0.00E+00	9.80E+05	1.38E+13	1.51E+08	5.81E+04	8.18E+11	1.97E+08
0.00E+00	0.00E+00	1.02E+06	2.62E+12	1.00E+08	7.52E+03	1.92E+10	4.10E+07
0.00E+00	0.00E+00	7.01E+05	1.17E+12	1.43E+08	3.02E+05	5.02E+11	1.30E+08
0.00E+00	0.00E+00	5.21E+05	3.98E+13	7.88E+07	5.16E+05	3.94E+13	3.34E+08
0.00E+00	0.00E+00	7.60E+05	7.11E+13	3.02E+08	2.75E+05	2.57E+13	4.61E+08
0.00E+00	0.00E+00	8.77E+05	1.99E+13	2.73E+08	1.59E+05	3.61E+12	4.17E+08
0.00E+00	0.00E+00	9.31E+05	3.93E+13	2.26E+08	6.40E+04	2.70E+12	5.03E+07
1.10E-04	2.87E+03	8.15E+05	2.14E+13	1.55E+08	1.98E+05	5.18E+12	5.70E+08
0.00E+00	0.00E+00	1.04E+06	4.31E+12	1.03E+08	2.26E+03	9.42E+09	2.85E+07
0.00E+00	0.00E+00	2.50E+05	3.52E+11	1.48E+07	7.80E+05	1.10E+12	1.81E+08
0.00E+00	0.00E+00	1.02E+06	3.55E+13	2.03E+08	4.72E+01	1.64E+09	5.25E+06
0.00E+00	0.00E+00	9.89E+05	1.99E+13	1.63E+08	4.94E+04	9.92E+11	3.95E+08
0.00E+00	0.00E+00	4.09E+05	1.52E+12	6.08E+07	4.48E+05	1.67E+12	1.03E+08
4.93E-06	4.69E+02	8.89E+05	8.47E+13	2.65E+08	1.48E+05	1.41E+13	7.47E+08
0.00E+00	0.00E+00	1.04E+06	3.29E+13	1.87E+08	1.83E+03	5.81E+10	2.85E+07
0.00E+00	0.00E+00	5.12E+05	1.84E+13	8.60E+07	5.19E+05	1.87E+13	2.23E+08
0.00E+00	0.00E+00	9.00E+04	7.07E+12	7.28E+07	6.29E+05	4.94E+13	5.10E+08
0.00E+00	0.00E+00	7.04E+05	1.27E+12	1.18E+08	5.36E+04	9.70E+10	2.05E+07
0.00E+00	0.00E+00	2.59E+05	6.64E+11	4.25E+07	7.33E+05	1.88E+12	2.43E+08
0.00E+00	0.00E+00	6.10E+05	7.86E+11	9.48E+07	3.93E+05	5.07E+11	4.04E+08
0.00E+00	0.00E+00	7.08E+05	5.85E+12	7.38E+07	3.24E+05	2.68E+12	3.24E+08
3.32E-04	1.44E+04	8.26E+05	3.59E+13	2.73E+08	2.12E+05	9.22E+12	1.07E+09
0.00E+00	0.00E+00	1.04E+06	2.75E+13	1.67E+08	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	8.27E+05	1.03E+12	8.58E+07	2.04E+05	2.54E+11	8.35E+07
0.00E+00	0.00E+00	6.47E+05	1.51E+12	6.48E+07	3.87E+05	9.06E+11	1.46E+08
0.00E+00	0.00E+00	9.62E+05	3.41E+13	3.15E+08	7.43E+04	2.63E+12	3.27E+08
0.00E+00	0.00E+00	1.03E+06	2.50E+13	1.73E+08	7.00E+03	1.70E+11	1.40E+08
0.00E+00	0.00E+00	1.39E+05	5.84E+12	1.15E+07	8.96E+05	3.77E+13	2.62E+08
0.00E+00	0.00E+00	3.24E+05	3.61E+13	1.50E+08	6.76E+05	7.54E+13	4.07E+08
0.00E+00	0.00E+00	1.04E+06	1.75E+12	7.03E+07	1.94E+01	3.28E+07	2.50E+05
0.00E+00	0.00E+00	6.92E+04	3.57E+11	2.00E+07	8.58E+05	4.42E+12	4.45E+08
0.00E+00	0.00E+00	1.22E+05	1.41E+11	2.35E+07	7.24E+05	8.37E+11	1.06E+08
0.00E+00	0.00E+00	8.97E+05	8.37E+13	2.74E+08	1.39E+05	1.29E+13	3.25E+08
0.00E+00	0.00E+00	8.72E+05	1.53E+13	1.23E+08	1.61E+05	2.82E+12	4.47E+08
0.00E+00	0.00E+00	1.03E+06	6.67E+13	5.55E+07	6.74E+03	4.34E+11	3.93E+07
0.00E+00	0.00E+00	8.23E+05	5.48E+12	1.87E+08	2.00E+05	1.33E+12	9.63E+07
0.00E+00	0.00E+00	1.04E+06	1.11E+14	8.65E+07	3.44E+03	3.67E+11	1.33E+08
0.00E+00	0.00E+00	6.27E+04	2.19E+11	5.50E+06	9.69E+05	3.39E+12	1.73E+08
0.00E+00	0.00E+00	5.80E+05	5.48E+13	8.85E+07	4.25E+05	4.02E+13	8.39E+08
0.00E+00	0.00E+00	1.03E+06	4.48E+12	1.22E+08	6.50E+02	2.82E+09	1.03E+07

0.00E+00	0.00E+00	9.47E+05	1.13E+12	3.15E+07	8.90E+04	1.06E+11	3.63E+07
0.00E+00	0.00E+00	3.70E+05	2.40E+13	2.29E+08	5.50E+05	3.56E+13	2.59E+08
0.00E+00	0.00E+00	1.03E+06	9.04E+13	1.29E+08	5.62E+03	4.91E+11	1.90E+08
0.00E+00	0.00E+00	1.04E+06	2.79E+13	1.48E+08	4.04E+03	1.09E+11	6.23E+07
0.00E+00	0.00E+00	1.03E+06	5.18E+13	2.18E+08	7.83E+01	3.94E+09	1.00E+07
0.00E+00	0.00E+00	1.49E+05	5.27E+12	2.53E+07	8.11E+05	2.87E+13	8.15E+07
0.00E+00	0.00E+00	7.92E+05	1.97E+13	3.53E+07	2.45E+05	6.08E+12	1.21E+08
0.00E+00	0.00E+00	9.85E+05	3.71E+13	1.94E+08	1.03E+04	3.90E+11	1.53E+07
0.00E+00	0.00E+00	1.04E+06	1.82E+12	5.25E+07	0.00E+00	0.00E+00	0.00E+00
5.33E-04	1.60E+04	4.21E+05	1.27E+13	2.03E+08	3.27E+05	9.85E+12	8.58E+08
0.00E+00	0.00E+00	9.71E+05	2.63E+13	8.73E+07	6.77E+04	1.83E+12	3.76E+08
0.00E+00	0.00E+00	7.89E+05	2.37E+12	3.20E+07	2.49E+05	7.49E+11	6.58E+07
0.00E+00	0.00E+00	7.71E+05	7.62E+12	1.30E+08	2.66E+05	2.63E+12	2.77E+08
0.00E+00	0.00E+00	6.15E+05	1.40E+13	1.94E+08	6.50E+04	1.47E+12	4.78E+07
0.00E+00	0.00E+00	7.51E+05	6.24E+13	1.14E+08	2.67E+05	2.21E+13	3.80E+08
0.00E+00	0.00E+00	9.65E+05	1.41E+13	2.30E+08	6.47E+04	9.44E+11	1.92E+08
0.00E+00	0.00E+00	9.86E+05	9.76E+12	2.31E+08	8.85E+03	8.76E+10	6.83E+07
6.37E-05	3.02E+03	9.04E+05	4.29E+13	2.40E+08	1.35E+05	6.40E+12	6.83E+08
0.00E+00	0.00E+00	1.03E+06	3.18E+12	7.40E+07	1.01E+03	3.10E+09	4.50E+06
0.00E+00	0.00E+00	7.44E+05	1.70E+13	2.28E+08	2.19E+05	5.01E+12	1.96E+08
5.62E-04	8.85E+03	6.04E+05	9.52E+12	1.38E+08	4.01E+05	6.32E+12	5.72E+08
0.00E+00	0.00E+00	2.33E+05	3.81E+12	7.05E+07	5.38E+05	8.78E+12	1.27E+08
1.56E-06	1.39E+02	5.27E+05	4.69E+13	7.03E+07	5.09E+05	4.53E+13	4.29E+08
0.00E+00	0.00E+00	4.84E+05	8.93E+12	8.50E+07	5.40E+05	9.94E+12	3.61E+08
0.00E+00	0.00E+00	8.72E+05	1.14E+13	4.93E+07	1.67E+05	2.18E+12	2.29E+08
0.00E+00	0.00E+00	4.09E+05	4.53E+12	1.12E+08	8.64E+04	9.59E+11	1.65E+07
0.00E+00	0.00E+00	3.57E+05	5.50E+11	3.15E+07	6.45E+05	9.94E+11	2.72E+08
0.00E+00	0.00E+00	6.46E+05	4.54E+13	3.45E+07	3.93E+05	2.76E+13	3.24E+08
0.00E+00	0.00E+00	2.66E+05	2.59E+13	1.34E+08	5.79E+05	5.62E+13	4.99E+08
0.00E+00	0.00E+00	1.04E+06	1.28E+13	1.25E+08	4.60E+02	5.66E+09	2.05E+07
0.00E+00	0.00E+00	9.48E+05	3.58E+12	9.53E+07	8.64E+04	3.26E+11	2.31E+08
1.79E-05	7.20E+02	9.54E+05	3.85E+13	1.16E+08	8.47E+04	3.42E+12	3.95E+08
0.00E+00	0.00E+00	3.40E+05	9.02E+11	2.45E+07	6.64E+05	1.76E+12	1.88E+08
0.00E+00	0.00E+00	9.99E+05	1.36E+13	1.54E+08	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	9.62E+05	7.38E+12	2.10E+08	6.61E+04	5.07E+11	1.60E+08
0.00E+00	0.00E+00	6.42E+05	4.76E+13	2.68E+07	3.79E+05	2.81E+13	2.45E+08
0.00E+00	0.00E+00	1.02E+06	3.82E+12	1.19E+08	1.51E+04	5.64E+10	6.43E+07
1.01E-04	2.32E+02	6.92E+05	1.59E+12	5.45E+07	3.38E+05	7.78E+11	2.87E+08
0.00E+00	0.00E+00	9.75E+05	4.61E+12	2.24E+08	4.27E+03	2.02E+10	5.40E+07
0.00E+00	0.00E+00	9.79E+05	3.63E+12	1.11E+08	5.56E+04	2.06E+11	2.14E+08
0.00E+00	0.00E+00	1.56E+05	9.16E+11	2.55E+07	7.15E+05	4.19E+12	1.05E+08
0.00E+00	0.00E+00	5.62E+05	1.40E+13	8.23E+07	4.26E+05	1.06E+13	3.99E+08
0.00E+00	0.00E+00	7.92E+05	1.31E+13	1.39E+08	2.24E+05	3.70E+12	2.55E+08

0.00E+00	0.00E+00	8.11E+05	2.67E+12	9.78E+07	1.99E+05	6.55E+11	2.35E+08
0.00E+00	0.00E+00	5.39E+05	2.66E+12	8.43E+07	4.93E+05	2.43E+12	3.35E+08
0.00E+00	0.00E+00	2.27E+05	1.48E+12	1.28E+07	7.62E+05	4.96E+12	1.27E+08
0.00E+00	0.00E+00	7.36E+05	5.77E+13	1.21E+08	2.66E+05	2.08E+13	1.37E+08
0.00E+00	0.00E+00	8.91E+04	1.40E+11	2.43E+07	6.25E+05	9.84E+11	1.70E+08
0.00E+00	0.00E+00	3.21E+05	3.42E+12	8.50E+07	6.53E+05	6.97E+12	4.82E+08
0.00E+00	0.00E+00	5.85E+05	9.09E+11	4.68E+07	4.40E+05	6.83E+11	1.76E+08
0.00E+00	0.00E+00	8.00E+05	1.02E+13	9.60E+07	2.25E+05	2.86E+12	4.00E+08
0.00E+00	0.00E+00	7.79E+04	8.41E+11	6.33E+07	7.64E+05	8.25E+12	2.54E+08
0.00E+00	0.00E+00	7.41E+05	3.07E+13	4.58E+07	2.65E+05	1.10E+13	1.53E+08
0.00E+00	0.00E+00	1.02E+06	4.37E+13	2.03E+08	6.04E+03	2.57E+11	2.73E+07
0.00E+00	0.00E+00	1.32E+05	6.17E+12	8.65E+07	3.68E+05	1.73E+13	1.44E+08
0.00E+00	0.00E+00	9.46E+05	1.44E+13	3.05E+08	4.78E+04	7.29E+11	3.40E+08
0.00E+00	0.00E+00	8.35E+05	1.09E+12	4.83E+07	1.96E+05	2.56E+11	7.20E+07
3.96E-06	2.43E+02	8.88E+05	5.44E+13	1.22E+08	1.45E+05	8.89E+12	6.78E+08
0.00E+00	0.00E+00	5.36E+05	2.99E+12	6.85E+07	4.90E+05	2.73E+12	2.50E+08
0.00E+00	0.00E+00	1.02E+06	6.68E+13	2.24E+08	1.54E+04	1.00E+12	1.48E+08
0.00E+00	0.00E+00	1.03E+06	1.44E+13	2.18E+08	9.10E+03	1.28E+11	6.83E+07
0.00E+00	0.00E+00	1.04E+06	2.66E+12	4.30E+07	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	8.20E+05	1.36E+12	1.01E+08	1.94E+05	3.22E+11	2.04E+08
0.00E+00	0.00E+00	4.09E+05	3.13E+13	2.45E+07	6.09E+05	4.65E+13	2.35E+08
0.00E+00	0.00E+00	6.09E+05	5.69E+13	2.11E+08	4.29E+05	4.02E+13	3.79E+08
0.00E+00	0.00E+00	1.03E+06	2.34E+13	1.97E+08	5.45E+03	1.24E+11	4.25E+07
1.38E-05	5.83E+02	7.30E+05	3.08E+13	1.31E+08	2.47E+05	1.04E+13	5.72E+08
0.00E+00	0.00E+00	9.27E+05	2.43E+13	2.13E+08	3.31E+04	8.67E+11	2.43E+07
0.00E+00	0.00E+00	6.59E+05	2.74E+12	3.98E+07	3.79E+05	1.58E+12	1.43E+08
0.00E+00	0.00E+00	9.49E+05	1.34E+12	8.00E+07	7.96E+04	1.12E+11	3.00E+07
0.00E+00	0.00E+00	7.02E+05	2.44E+13	4.15E+07	3.37E+05	1.17E+13	2.11E+08
0.00E+00	0.00E+00	8.83E+05	1.78E+13	1.33E+08	2.46E+04	4.94E+11	1.50E+07
0.00E+00	0.00E+00	9.85E+05	3.66E+12	1.87E+08	1.23E+03	4.56E+09	4.25E+06
0.00E+00	0.00E+00	9.61E+05	9.15E+13	2.88E+08	6.57E+04	6.25E+12	3.23E+08
0.00E+00	0.00E+00	9.49E+05	3.02E+13	1.09E+08	4.54E+04	1.44E+12	1.95E+07
0.00E+00	0.00E+00	5.27E+05	1.90E+13	1.34E+08	2.95E+05	1.06E+13	3.38E+08
2.40E-05	1.88E+03	4.26E+05	3.35E+13	2.00E+08	5.81E+05	4.55E+13	9.41E+08
0.00E+00	0.00E+00	9.92E+05	1.80E+12	2.28E+08	7.32E+03	1.32E+10	2.23E+07
0.00E+00	0.00E+00	9.66E+05	2.47E+12	1.58E+08	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	8.57E+05	1.10E+12	1.48E+08	1.35E+05	1.73E+11	1.11E+08
0.00E+00	0.00E+00	9.48E+05	7.83E+12	1.21E+08	8.74E+04	7.22E+11	2.84E+08
3.05E-05	1.32E+03	8.68E+05	3.78E+13	1.90E+08	1.67E+05	7.25E+12	7.75E+08
0.00E+00	0.00E+00	1.04E+06	2.75E+13	8.28E+07	2.35E+01	6.22E+08	2.25E+06
0.00E+00	0.00E+00	9.74E+05	1.22E+12	1.29E+08	5.45E+04	6.80E+10	4.90E+07
0.00E+00	0.00E+00	5.94E+05	1.39E+12	4.05E+07	4.40E+05	1.03E+12	1.70E+08
0.00E+00	0.00E+00	2.45E+05	8.68E+12	4.78E+07	6.57E+05	2.33E+13	2.95E+08

0.00E+00	0.00E+00	9.12E+05	2.21E+13	2.04E+08	1.23E+05	2.99E+12	1.21E+08
0.00E+00	0.00E+00	1.03E+06	4.36E+13	1.09E+08	4.64E+03	1.95E+11	7.93E+07
0.00E+00	0.00E+00	8.03E+05	8.96E+13	2.46E+08	1.80E+05	2.01E+13	7.73E+08
0.00E+00	0.00E+00	7.60E+05	1.28E+12	1.63E+07	2.76E+05	4.66E+11	7.00E+07
0.00E+00	0.00E+00	9.72E+05	5.01E+12	1.61E+08	6.27E+04	3.23E+11	1.48E+08
0.00E+00	0.00E+00	9.26E+05	1.07E+12	1.58E+08	9.44E+03	1.09E+10	3.95E+07
0.00E+00	0.00E+00	5.26E+05	4.91E+13	1.73E+08	4.03E+05	3.76E+13	1.85E+08
0.00E+00	0.00E+00	6.11E+05	1.07E+13	2.37E+08	2.62E+05	4.59E+12	2.06E+08
0.00E+00	0.00E+00	1.01E+06	6.54E+13	5.23E+07	2.73E+04	1.76E+12	7.15E+07
0.00E+00	0.00E+00	2.66E+05	1.77E+12	3.65E+07	7.34E+05	4.88E+12	3.11E+08
0.00E+00	0.00E+00	5.33E+05	5.69E+13	1.48E+07	5.06E+05	5.40E+13	2.32E+08
0.00E+00	0.00E+00	6.35E+05	2.22E+12	3.75E+07	4.01E+05	1.40E+12	9.33E+07
1.30E-06	1.23E+02	5.78E+05	5.46E+13	1.54E+08	4.54E+05	4.29E+13	4.50E+08
0.00E+00	0.00E+00	9.63E+05	4.17E+12	1.90E+07	7.61E+04	3.30E+11	5.03E+07
0.00E+00	0.00E+00	8.01E+05	9.57E+11	5.93E+07	2.26E+05	2.70E+11	9.30E+07
0.00E+00	0.00E+00	9.68E+05	6.27E+13	2.32E+08	2.82E+04	1.83E+12	9.83E+07
1.02E-05	8.93E+02	9.33E+05	8.16E+13	4.75E+07	1.07E+05	9.33E+12	2.92E+08
0.00E+00	0.00E+00	1.03E+06	2.78E+13	1.68E+08	6.87E+03	1.85E+11	1.52E+08
1.89E-03	9.52E+04	5.11E+05	2.58E+13	6.33E+07	5.25E+05	2.64E+13	7.61E+08
0.00E+00	0.00E+00	1.01E+06	3.57E+13	8.85E+07	3.00E+04	1.06E+12	5.88E+07
0.00E+00	0.00E+00	1.03E+06	2.57E+13	1.45E+08	4.91E+03	1.22E+11	6.48E+07
0.00E+00	0.00E+00	6.76E+05	2.55E+13	1.04E+08	3.02E+05	1.14E+13	2.31E+08
0.00E+00	0.00E+00	1.04E+06	1.82E+12	7.20E+07	1.05E+03	1.84E+09	7.25E+06
0.00E+00	0.00E+00	6.40E+05	1.93E+13	2.65E+08	2.85E+05	8.57E+12	2.27E+08
0.00E+00	0.00E+00	9.87E+05	2.67E+13	7.95E+07	7.44E+01	2.01E+09	2.75E+06
0.00E+00	0.00E+00	1.01E+06	3.05E+12	5.68E+07	2.26E+04	6.79E+10	7.35E+07
0.00E+00	0.00E+00	8.19E+05	8.09E+12	7.43E+07	2.20E+05	2.17E+12	1.49E+08
0.00E+00	0.00E+00	4.27E+05	9.68E+12	1.58E+08	4.36E+05	9.88E+12	3.40E+08
0.00E+00	0.00E+00	8.09E+05	6.72E+13	2.08E+08	5.60E+03	4.65E+11	3.98E+07
0.00E+00	0.00E+00	7.54E+05	1.10E+13	2.36E+08	2.42E+05	3.53E+12	2.53E+08
0.00E+00	0.00E+00	9.26E+05	9.16E+12	2.84E+08	7.61E+04	7.53E+11	1.88E+08
0.00E+00	0.00E+00	8.03E+05	3.81E+13	1.66E+08	2.36E+05	1.12E+13	5.81E+08
0.00E+00	0.00E+00	9.47E+05	2.92E+12	5.08E+07	8.97E+04	2.77E+11	1.20E+08
0.00E+00	0.00E+00	3.80E+04	8.69E+11	1.08E+07	9.72E+05	2.22E+13	3.09E+08
0.00E+00	0.00E+00	3.71E+05	5.84E+12	5.45E+07	6.64E+05	1.05E+13	2.78E+08
0.00E+00	0.00E+00	3.00E+05	4.90E+12	4.15E+07	5.14E+05	8.40E+12	1.17E+08
0.00E+00	0.00E+00	1.62E+05	1.44E+13	2.43E+07	8.09E+05	7.20E+13	5.45E+08
0.00E+00	0.00E+00	8.93E+05	1.65E+13	2.37E+08	1.35E+05	2.49E+12	3.54E+08
0.00E+00	0.00E+00	1.04E+06	1.36E+13	9.08E+07	1.08E+03	1.41E+10	3.50E+07
0.00E+00	0.00E+00	4.62E+05	5.12E+12	1.36E+08	4.24E+03	4.71E+10	2.75E+07
0.00E+00	0.00E+00	9.58E+05	1.48E+12	1.21E+08	7.26E+04	1.12E+11	6.95E+07
0.00E+00	0.00E+00	1.02E+06	7.17E+13	2.00E+08	5.53E+03	3.88E+11	4.48E+07
7.11E-05	6.91E+03	2.55E+05	2.47E+13	8.65E+07	7.50E+05	7.28E+13	8.89E+08

0.00E+00	0.00E+00	1.04E+06	1.28E+13	1.66E+08	1.88E+03	2.31E+10	5.10E+07
0.00E+00	0.00E+00	1.03E+06	3.88E+12	1.65E+08	1.04E+03	3.94E+09	1.03E+07
0.00E+00	0.00E+00	1.02E+06	4.13E+13	1.90E+08	1.11E+04	4.48E+11	4.85E+07
0.00E+00	0.00E+00	1.03E+06	2.73E+12	2.26E+08	4.77E+03	1.27E+10	3.83E+07
0.00E+00	0.00E+00	9.96E+05	1.35E+13	2.09E+08	9.69E+02	1.32E+10	2.73E+07
0.00E+00	0.00E+00	4.45E+05	3.42E+12	4.53E+07	5.61E+05	4.30E+12	3.03E+08
0.00E+00	0.00E+00	9.10E+05	6.75E+13	1.43E+08	1.16E+05	8.60E+12	1.21E+08
0.00E+00	0.00E+00	3.33E+05	1.24E+12	5.88E+07	6.14E+05	2.29E+12	4.77E+08
0.00E+00	0.00E+00	3.91E+05	9.01E+11	2.50E+07	6.34E+05	1.46E+12	2.15E+08
0.00E+00	0.00E+00	5.02E+05	2.37E+12	1.05E+08	4.20E+05	1.98E+12	1.73E+08
0.00E+00	0.00E+00	8.75E+05	3.25E+12	1.51E+08	1.59E+05	5.91E+11	1.10E+08
0.00E+00	0.00E+00	9.91E+05	5.81E+12	1.31E+08	4.58E+04	2.69E+11	2.17E+08
0.00E+00	0.00E+00	7.21E+05	1.79E+13	2.18E+08	2.46E+05	6.11E+12	2.01E+08
0.00E+00	0.00E+00	9.29E+05	1.53E+13	2.16E+08	9.56E+04	1.58E+12	2.27E+08
0.00E+00	0.00E+00	7.94E+05	2.62E+12	1.28E+08	2.21E+05	7.29E+11	1.91E+08
0.00E+00	0.00E+00	2.96E+05	1.46E+12	1.33E+08	6.28E+05	3.10E+12	3.55E+08
0.00E+00	0.00E+00	1.02E+06	6.66E+12	7.58E+07	1.50E+04	9.77E+10	8.45E+07
0.00E+00	0.00E+00	5.14E+05	4.03E+13	6.40E+07	5.10E+05	3.99E+13	7.03E+08
0.00E+00	0.00E+00	5.90E+05	9.29E+11	5.53E+07	4.32E+05	6.79E+11	1.74E+08
0.00E+00	0.00E+00	1.02E+06	1.08E+13	2.63E+08	9.95E+03	1.06E+11	1.35E+08
0.00E+00	0.00E+00	1.01E+06	1.56E+12	8.30E+07	2.86E+04	4.45E+10	3.10E+07
5.41E-05	6.87E+02	9.11E+05	1.16E+13	2.29E+08	1.25E+05	1.59E+12	3.70E+08
0.00E+00	0.00E+00	6.63E+05	7.16E+12	1.70E+08	3.73E+05	4.02E+12	3.26E+08
0.00E+00	0.00E+00	1.04E+06	4.29E+13	6.35E+07	2.92E+03	1.21E+11	7.13E+07
0.00E+00	0.00E+00	1.02E+06	4.37E+13	2.20E+08	2.74E+00	1.17E+08	7.50E+05
0.00E+00	0.00E+00	6.94E+05	3.25E+13	2.36E+08	6.26E+04	2.94E+12	1.82E+08
0.00E+00	0.00E+00	7.97E+05	1.22E+13	1.96E+08	1.94E+05	2.96E+12	3.23E+08
0.00E+00	0.00E+00	1.02E+06	1.33E+12	3.20E+07	1.80E+04	2.35E+10	1.35E+07
0.00E+00	0.00E+00	1.01E+06	6.20E+13	2.00E+08	1.45E+02	8.86E+09	9.25E+06
0.00E+00	0.00E+00	9.35E+05	5.22E+12	1.57E+08	1.99E+04	1.11E+11	2.48E+07
0.00E+00	0.00E+00	9.86E+05	6.43E+13	9.55E+07	5.38E+04	3.51E+12	2.11E+08
0.00E+00	0.00E+00	4.04E+05	5.69E+12	3.48E+07	4.59E+05	6.46E+12	4.68E+07
0.00E+00	0.00E+00	6.33E+05	1.62E+12	3.15E+07	3.49E+05	8.93E+11	3.93E+07
0.00E+00	0.00E+00	7.32E+05	1.22E+12	1.50E+08	2.87E+05	4.78E+11	3.19E+08
0.00E+00	0.00E+00	1.02E+06	7.80E+13	1.85E+08	1.81E+04	1.38E+12	1.80E+08
0.00E+00	0.00E+00	4.44E+05	4.16E+13	1.23E+08	5.43E+05	5.08E+13	9.41E+08
0.00E+00	0.00E+00	1.01E+06	2.30E+13	2.21E+08	2.69E+04	6.12E+11	2.66E+08
0.00E+00	0.00E+00	6.61E+05	2.79E+13	1.89E+08	2.77E+05	1.17E+13	1.25E+08
0.00E+00	0.00E+00	9.87E+05	2.59E+13	2.54E+08	8.76E+03	2.29E+11	1.45E+08
0.00E+00	0.00E+00	1.04E+06	4.31E+12	1.14E+08	6.87E+02	2.86E+09	7.25E+06
0.00E+00	0.00E+00	8.85E+05	1.24E+12	3.68E+07	1.42E+05	2.00E+11	9.28E+07
0.00E+00	0.00E+00	1.01E+06	3.51E+13	1.76E+08	2.35E+04	8.16E+11	7.48E+07
0.00E+00	0.00E+00	8.31E+05	1.67E+13	1.79E+08	0.00E+00	0.00E+00	0.00E+00

0.00E+00	0.00E+00	7.62E+05	2.83E+12	3.75E+07	2.75E+05	1.02E+12	1.01E+08
0.00E+00	0.00E+00	5.73E+05	5.45E+13	2.67E+08	4.34E+05	4.13E+13	2.86E+08
0.00E+00	0.00E+00	1.04E+06	3.31E+13	1.97E+08	8.70E+01	2.77E+09	1.20E+07
0.00E+00	0.00E+00	4.60E+05	1.66E+13	1.59E+08	3.90E+05	1.40E+13	3.83E+08
2.83E-05	2.22E+03	8.74E+05	6.86E+13	2.99E+08	1.62E+05	1.27E+13	8.76E+08
0.00E+00	0.00E+00	4.92E+05	8.90E+11	5.53E+07	4.76E+05	8.61E+11	2.27E+08
0.00E+00	0.00E+00	8.92E+05	2.29E+12	1.53E+08	1.40E+05	3.58E+11	1.64E+08
0.00E+00	0.00E+00	8.09E+05	1.04E+12	1.06E+08	2.10E+05	2.70E+11	2.36E+08
2.15E-05	1.78E+02	6.71E+05	5.54E+12	5.53E+07	3.67E+05	3.03E+12	3.00E+08
0.00E+00	0.00E+00	9.89E+05	4.30E+13	3.00E+08	4.32E+03	1.88E+11	2.10E+08
0.00E+00	0.00E+00	1.04E+06	2.75E+13	1.17E+08	1.15E+03	3.06E+10	3.55E+07
0.00E+00	0.00E+00	1.03E+06	1.29E+12	1.27E+08	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	6.47E+05	1.51E+12	8.95E+07	3.81E+05	8.92E+11	2.96E+08
0.00E+00	0.00E+00	8.97E+05	3.18E+13	2.68E+08	1.37E+05	4.86E+12	3.27E+08
0.00E+00	0.00E+00	4.35E+05	1.06E+13	2.35E+07	5.99E+05	1.45E+13	2.66E+08
0.00E+00	0.00E+00	9.40E+05	3.96E+13	9.00E+07	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	8.77E+05	9.78E+13	2.19E+08	1.25E+04	1.40E+12	3.85E+07
0.00E+00	0.00E+00	1.02E+06	1.72E+12	2.50E+07	1.96E+04	3.31E+10	1.80E+07
0.00E+00	0.00E+00	7.02E+05	3.62E+12	1.59E+08	3.16E+05	1.63E+12	2.44E+08
0.00E+00	0.00E+00	1.01E+06	1.17E+12	8.33E+07	2.28E+04	2.63E+10	2.18E+07
0.00E+00	0.00E+00	1.01E+06	9.44E+13	1.84E+08	2.84E+04	2.65E+12	5.04E+08
0.00E+00	0.00E+00	6.47E+04	1.14E+12	2.08E+07	5.33E+05	9.35E+12	1.06E+08
0.00E+00	0.00E+00	1.04E+06	6.70E+13	8.18E+07	1.42E+02	9.19E+09	2.73E+07
0.00E+00	0.00E+00	1.00E+06	6.66E+12	1.63E+08	3.51E+04	2.34E+11	2.14E+08
0.00E+00	0.00E+00	1.03E+06	1.10E+14	1.46E+08	6.17E-01	6.58E+07	5.00E+05
0.00E+00	0.00E+00	1.04E+06	3.63E+12	1.01E+08	6.61E+02	2.31E+09	1.15E+07
0.00E+00	0.00E+00	4.77E+05	4.51E+13	1.10E+08	5.54E+05	5.24E+13	3.96E+08
0.00E+00	0.00E+00	1.04E+06	4.50E+12	5.50E+07	4.67E+01	2.02E+08	1.50E+06
0.00E+00	0.00E+00	9.00E+05	1.08E+12	2.88E+07	1.35E+05	1.62E+11	4.90E+07
0.00E+00	0.00E+00	8.16E+05	5.29E+13	2.52E+08	2.72E+04	1.76E+12	2.95E+07
0.00E+00	0.00E+00	8.96E+05	7.84E+13	7.68E+07	1.43E+05	1.25E+13	2.01E+08
0.00E+00	0.00E+00	3.09E+04	8.33E+11	5.25E+06	9.90E+05	2.66E+13	1.14E+08
0.00E+00	0.00E+00	9.96E+05	5.02E+13	2.48E+08	3.72E+04	1.87E+12	1.76E+08
0.00E+00	0.00E+00	1.04E+06	3.67E+13	8.70E+07	2.44E+02	8.63E+09	1.23E+07
0.00E+00	0.00E+00	9.79E+05	2.43E+13	3.88E+07	6.08E+04	1.51E+12	6.28E+07
0.00E+00	0.00E+00	1.03E+06	3.88E+13	2.92E+08	4.03E+03	1.52E+11	1.52E+08
0.00E+00	0.00E+00	6.69E+05	1.18E+12	9.50E+06	3.68E+05	6.45E+11	7.23E+07
4.28E-05	1.29E+03	7.11E+05	2.14E+13	1.62E+08	3.10E+05	9.34E+12	1.01E+09
0.00E+00	0.00E+00	9.91E+05	2.68E+13	1.58E+08	4.76E+04	1.29E+12	2.12E+08
0.00E+00	0.00E+00	1.02E+06	3.08E+12	8.93E+07	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	9.43E+05	9.31E+12	1.64E+08	2.27E+02	2.24E+09	5.75E+06
8.64E-05	1.96E+03	2.01E+05	4.57E+12	9.78E+07	7.69E+05	1.74E+13	7.27E+08
0.00E+00	0.00E+00	1.00E+06	8.32E+13	2.84E+08	5.02E+03	4.16E+11	1.85E+08

0.00E+00	0.00E+00	3.66E+05	5.35E+12	6.03E+07	6.22E+05	9.09E+12	5.71E+08
0.00E+00	0.00E+00	7.38E+05	7.30E+12	9.53E+07	2.99E+05	2.96E+12	2.96E+08
0.00E+00	0.00E+00	9.96E+05	4.73E+13	1.99E+08	6.29E+01	2.98E+09	4.75E+06
0.00E+00	0.00E+00	1.03E+06	3.19E+12	8.18E+07	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	9.48E+05	2.17E+13	1.36E+08	9.05E+04	2.07E+12	5.09E+08
0.00E+00	0.00E+00	9.91E+05	1.56E+13	1.72E+08	1.50E+03	2.37E+10	1.48E+07
0.00E+00	0.00E+00	9.13E+05	1.49E+13	2.06E+08	3.21E+03	5.24E+10	3.43E+07
0.00E+00	0.00E+00	9.68E+05	8.62E+13	2.91E+08	6.90E+04	6.14E+12	2.17E+08
2.75E-05	5.07E+02	4.76E+05	8.77E+12	6.83E+07	4.79E+05	8.83E+12	7.25E+08
0.00E+00	0.00E+00	9.78E+05	1.28E+13	7.48E+07	6.02E+04	7.86E+11	2.26E+08
0.00E+00	0.00E+00	6.23E+02	6.93E+09	3.75E+06	5.16E+05	5.72E+12	1.43E+08
0.00E+00	0.00E+00	9.59E+05	1.48E+12	9.35E+07	6.93E+04	1.07E+11	1.39E+08
0.00E+00	0.00E+00	7.53E+05	5.29E+13	6.83E+07	2.86E+05	2.01E+13	2.27E+08
0.00E+00	0.00E+00	5.47E+05	5.31E+13	1.11E+08	3.67E+05	3.56E+13	3.06E+08
0.00E+00	0.00E+00	9.87E+05	1.21E+13	1.15E+08	5.12E+04	6.29E+11	1.77E+08
0.00E+00	0.00E+00	9.79E+05	3.70E+12	1.80E+08	5.38E+04	2.03E+11	1.86E+08
0.00E+00	0.00E+00	1.03E+06	4.16E+13	1.32E+08	8.05E+03	3.25E+11	1.73E+08
0.00E+00	0.00E+00	9.41E+05	2.50E+12	1.05E+08	8.45E+04	2.24E+11	9.45E+07
0.00E+00	0.00E+00	1.03E+06	1.40E+13	1.64E+08	6.41E+03	8.71E+10	2.83E+07
0.00E+00	0.00E+00	8.11E+05	6.22E+12	9.03E+07	2.20E+05	1.68E+12	3.07E+08
0.00E+00	0.00E+00	8.83E+05	6.55E+13	6.10E+07	1.57E+05	1.16E+13	1.69E+08
0.00E+00	0.00E+00	5.81E+05	2.17E+12	1.13E+08	4.32E+05	1.61E+12	1.03E+08
0.00E+00	0.00E+00	2.71E+05	6.24E+11	2.90E+07	7.63E+05	1.76E+12	1.75E+08
0.00E+00	0.00E+00	8.32E+05	3.93E+12	2.10E+08	3.34E+04	1.58E+11	4.18E+07
0.00E+00	0.00E+00	8.76E+05	3.25E+12	1.26E+08	1.43E+05	5.31E+11	7.38E+07
0.00E+00	0.00E+00	9.29E+05	5.45E+12	6.55E+07	1.10E+05	6.42E+11	1.15E+08
0.00E+00	0.00E+00	9.13E+05	2.27E+13	2.13E+08	6.64E+01	1.65E+09	5.50E+06
0.00E+00	0.00E+00	9.16E+05	1.51E+13	2.36E+08	6.05E+04	9.98E+11	1.53E+08
0.00E+00	0.00E+00	8.32E+05	2.74E+12	1.23E+08	1.96E+05	6.45E+11	3.48E+08
0.00E+00	0.00E+00	2.12E+05	1.04E+12	5.75E+07	7.85E+05	3.87E+12	2.51E+08
0.00E+00	0.00E+00	1.01E+06	6.56E+12	6.58E+07	3.06E+04	1.99E+11	1.06E+08
1.67E-06	1.31E+02	9.95E+05	7.80E+13	2.83E+08	3.90E+04	3.05E+12	5.39E+08
0.00E+00	0.00E+00	7.35E+05	1.16E+12	1.10E+08	2.10E+05	3.31E+11	3.80E+07
0.00E+00	0.00E+00	9.62E+05	1.03E+13	1.77E+08	2.04E+01	2.18E+08	1.00E+06
0.00E+00	0.00E+00	3.47E+05	5.38E+11	1.38E+07	6.87E+05	1.07E+12	1.33E+08
0.00E+00	0.00E+00	9.66E+05	1.23E+13	2.38E+08	6.28E+04	7.98E+11	1.16E+08
0.00E+00	0.00E+00	7.49E+05	8.08E+12	1.17E+08	2.66E+05	2.87E+12	3.37E+08
0.00E+00	0.00E+00	1.03E+06	4.28E+13	1.34E+08	5.35E+03	2.21E+11	1.14E+08
0.00E+00	0.00E+00	9.93E+05	4.24E+13	6.60E+07	4.53E+04	1.93E+12	1.78E+08
4.25E-04	1.99E+04	5.00E+05	2.35E+13	2.12E+08	4.78E+05	2.24E+13	1.04E+09
0.00E+00	0.00E+00	9.79E+05	1.49E+13	2.16E+08	3.98E+03	6.07E+10	2.18E+07
0.00E+00	0.00E+00	1.03E+06	1.35E+12	6.63E+07	1.81E+02	2.35E+08	1.50E+06
0.00E+00	0.00E+00	1.00E+06	6.14E+13	2.66E+08	3.46E+04	2.12E+12	2.22E+08

3.00E-04	1.67E+03	7.54E+05	4.21E+12	1.22E+08	2.77E+05	1.55E+12	5.59E+08
1.40E-05	9.13E+02	8.23E+05	5.37E+13	7.83E+07	2.15E+05	1.40E+13	3.60E+08
0.00E+00	0.00E+00	1.04E+06	1.46E+13	1.41E+08	2.58E+03	3.63E+10	8.25E+07
0.00E+00	0.00E+00	1.04E+06	2.65E+12	5.78E+07	2.77E+03	7.08E+09	9.75E+06
0.00E+00	0.00E+00	1.55E+05	2.58E+11	2.68E+07	7.54E+05	1.25E+12	2.73E+08
0.00E+00	0.00E+00	9.79E+05	7.48E+13	1.79E+08	1.50E+04	1.15E+12	4.50E+07
0.00E+00	0.00E+00	8.92E+05	8.34E+13	3.10E+08	1.46E+05	1.37E+13	6.22E+08
0.00E+00	0.00E+00	1.01E+06	2.30E+13	2.70E+08	1.34E+04	3.05E+11	6.53E+07
0.00E+00	0.00E+00	1.02E+06	4.28E+13	2.13E+08	2.40E+04	1.01E+12	4.51E+08
0.00E+00	0.00E+00	3.02E+05	7.91E+12	4.45E+07	3.22E+05	8.43E+12	1.07E+08
0.00E+00	0.00E+00	9.42E+05	3.92E+12	4.08E+07	9.69E+04	4.03E+11	5.75E+07
0.00E+00	0.00E+00	9.84E+05	1.38E+12	6.10E+07	4.91E+04	6.90E+10	7.55E+07
0.00E+00	0.00E+00	4.79E+05	1.66E+13	1.78E+07	5.49E+05	1.91E+13	1.70E+08
0.00E+00	0.00E+00	9.68E+05	1.95E+13	2.33E+08	4.16E+04	8.36E+11	7.33E+07
0.00E+00	0.00E+00	5.98E+05	2.22E+12	7.05E+07	3.84E+05	1.43E+12	1.25E+08
2.22E-06	2.11E+02	6.18E+05	5.88E+13	1.79E+08	4.19E+05	3.99E+13	8.40E+08
0.00E+00	0.00E+00	9.74E+05	3.10E+13	1.89E+08	6.50E+04	2.07E+12	4.17E+08
5.66E-06	2.03E+02	2.29E+05	8.24E+12	5.78E+07	5.72E+05	2.06E+13	6.89E+08
0.00E+00	0.00E+00	5.90E+05	4.63E+13	2.83E+08	4.36E+05	3.42E+13	6.89E+08
0.00E+00	0.00E+00	3.40E+05	6.16E+11	5.23E+07	7.84E+04	1.42E+11	9.25E+06
0.00E+00	0.00E+00	9.50E+05	2.43E+12	2.47E+08	3.33E+04	8.53E+10	7.63E+07
0.00E+00	0.00E+00	6.07E+05	7.82E+11	8.60E+07	2.91E+05	3.74E+11	1.51E+08
0.00E+00	0.00E+00	9.93E+05	8.20E+12	2.21E+08	5.39E+02	4.45E+09	2.03E+07
1.04E-04	4.50E+03	3.44E+05	1.50E+13	9.35E+07	6.48E+05	2.82E+13	8.07E+08
0.00E+00	0.00E+00	5.28E+05	1.40E+13	2.63E+07	4.42E+05	1.17E+13	7.75E+07
0.00E+00	0.00E+00	6.98E+04	8.72E+10	1.03E+07	8.70E+05	1.09E+12	1.79E+08
0.00E+00	0.00E+00	7.78E+05	1.82E+12	1.22E+08	4.80E+04	1.12E+11	1.03E+08
1.26E-04	4.45E+03	4.10E+05	1.45E+13	8.23E+07	4.47E+05	1.59E+13	5.65E+08
1.66E-05	4.03E+02	8.22E+05	1.99E+13	1.88E+08	1.86E+05	4.52E+12	2.67E+08
0.00E+00	0.00E+00	1.04E+06	4.37E+13	2.13E+08	6.02E+01	2.53E+09	1.33E+07
0.00E+00	0.00E+00	8.80E+05	9.82E+13	2.97E+08	9.97E+04	1.11E+13	6.75E+08
0.00E+00	0.00E+00	1.03E+06	1.73E+12	4.43E+07	1.01E+04	1.70E+10	1.63E+07
0.00E+00	0.00E+00	2.49E+05	1.28E+12	7.40E+07	6.30E+05	3.25E+12	4.95E+08
0.00E+00	0.00E+00	3.89E+05	4.49E+11	9.38E+07	4.60E+05	5.31E+11	9.03E+07
0.00E+00	0.00E+00	8.57E+05	7.99E+13	1.96E+08	1.77E+05	1.65E+13	3.99E+08
4.52E-05	7.92E+02	5.41E+05	9.51E+12	1.81E+08	4.93E+05	8.65E+12	5.43E+08
0.00E+00	0.00E+00	1.03E+06	6.67E+13	6.30E+07	5.61E+03	3.61E+11	1.14E+08
0.00E+00	0.00E+00	1.88E+04	1.25E+11	3.13E+07	6.47E+05	4.31E+12	9.73E+07
0.00E+00	0.00E+00	1.04E+06	1.11E+14	1.34E+08	2.86E+03	3.06E+11	3.15E+07
0.00E+00	0.00E+00	9.70E+05	3.39E+12	1.06E+08	6.53E+04	2.28E+11	1.23E+08
0.00E+00	0.00E+00	4.95E+04	4.68E+12	6.43E+07	6.25E+05	5.91E+13	1.75E+08
0.00E+00	0.00E+00	1.01E+06	4.39E+12	7.58E+07	2.51E+04	1.09E+11	6.85E+07
0.00E+00	0.00E+00	1.00E+06	1.20E+12	1.31E+08	0.00E+00	0.00E+00	0.00E+00

0.00E+00	0.00E+00	9.44E+05	6.11E+13	2.41E+08	1.40E+04	9.05E+11	1.20E+08
0.00E+00	0.00E+00	1.03E+06	9.01E+13	9.63E+07	8.39E+03	7.33E+11	1.88E+08
0.00E+00	0.00E+00	1.03E+06	2.78E+13	1.74E+08	2.68E+03	7.20E+10	5.05E+07
0.00E+00	0.00E+00	6.87E+05	3.46E+13	1.39E+08	3.26E+05	1.64E+13	4.33E+08
0.00E+00	0.00E+00	1.04E+06	3.66E+13	8.48E+07	3.02E+03	1.07E+11	3.78E+07
0.00E+00	0.00E+00	1.01E+06	2.51E+13	9.13E+07	2.68E+04	6.64E+11	6.18E+07
0.00E+00	0.00E+00	8.47E+05	3.19E+13	8.55E+07	1.89E+05	7.10E+12	5.20E+08
0.00E+00	0.00E+00	9.50E+05	1.67E+12	1.53E+07	8.76E+04	1.54E+11	2.90E+07
1.65E-05	4.96E+02	7.63E+05	2.30E+13	3.18E+08	2.63E+05	7.90E+12	7.88E+08
0.00E+00	0.00E+00	1.03E+06	2.80E+13	1.30E+08	5.87E+03	1.59E+11	1.29E+08
0.00E+00	0.00E+00	1.04E+06	3.12E+12	9.03E+07	3.39E+02	1.02E+09	5.75E+06
0.00E+00	0.00E+00	8.62E+05	8.51E+12	1.27E+08	1.77E+05	1.74E+12	1.88E+08
0.00E+00	0.00E+00	1.02E+06	2.31E+13	2.60E+08	1.75E+04	3.97E+11	3.01E+08
6.22E-05	5.16E+03	3.30E+05	2.74E+13	5.78E+07	7.06E+05	5.86E+13	8.36E+08
1.31E-03	1.92E+04	5.80E+05	8.47E+12	8.63E+07	4.55E+05	6.65E+12	6.28E+08
0.00E+00	0.00E+00	6.17E+05	6.11E+12	2.15E+08	3.07E+05	3.04E+12	3.34E+08
0.00E+00	0.00E+00	9.12E+05	4.33E+13	2.00E+08	1.25E+05	5.92E+12	4.33E+08
0.00E+00	0.00E+00	1.04E+06	3.20E+12	6.18E+07	2.85E+02	8.77E+08	4.25E+06
1.09E-04	2.50E+03	4.91E+05	1.12E+13	8.70E+07	5.34E+05	1.22E+13	8.93E+08
0.00E+00	0.00E+00	7.75E+05	1.22E+13	2.23E+08	2.35E+05	3.70E+12	1.93E+08
0.00E+00	0.00E+00	1.27E+05	2.07E+12	3.95E+07	9.02E+05	1.47E+13	4.53E+08
2.00E-06	1.79E+02	3.57E+05	3.18E+13	7.98E+07	6.60E+05	5.88E+13	5.81E+08
0.00E+00	0.00E+00	8.22E+05	1.52E+13	1.72E+08	2.89E+01	5.32E+08	2.00E+06
0.00E+00	0.00E+00	1.04E+06	1.36E+13	1.07E+08	1.75E+02	2.28E+09	7.00E+06
0.00E+00	0.00E+00	9.87E+05	1.10E+13	2.30E+08	4.85E+04	5.38E+11	3.95E+08
0.00E+00	0.00E+00	1.03E+06	1.58E+12	1.13E+08	3.15E+03	4.85E+09	9.75E+06
1.16E-05	8.11E+02	8.94E+05	6.27E+13	6.35E+07	1.45E+05	1.02E+13	4.89E+08
7.41E-06	7.19E+02	5.83E+05	5.67E+13	2.05E+08	4.42E+05	4.29E+13	7.19E+08
0.00E+00	0.00E+00	9.85E+05	1.21E+13	7.33E+07	3.04E+00	3.74E+07	2.50E+05
0.00E+00	0.00E+00	9.50E+05	3.59E+12	2.00E+08	6.41E+03	2.42E+10	1.88E+07
0.00E+00	0.00E+00	7.58E+05	3.06E+13	6.03E+07	2.75E+05	1.11E+13	2.82E+08
2.13E-04	5.67E+02	7.59E+05	2.02E+12	8.90E+07	2.71E+05	7.20E+11	3.28E+08
1.36E-05	1.85E+02	9.68E+05	1.32E+13	6.93E+07	7.09E+04	9.64E+11	2.23E+08
0.00E+00	0.00E+00	9.97E+05	7.64E+12	1.43E+08	2.89E+03	2.21E+10	2.00E+07
0.00E+00	0.00E+00	1.03E+06	7.62E+13	8.60E+07	1.16E+04	8.63E+11	1.24E+08
0.00E+00	0.00E+00	7.11E+05	2.66E+12	7.68E+07	3.25E+05	1.22E+12	1.49E+08
0.00E+00	0.00E+00	6.40E+05	1.47E+12	3.10E+07	3.65E+05	8.42E+11	1.13E+08
0.00E+00	0.00E+00	8.39E+05	3.97E+12	1.47E+08	6.09E+01	2.88E+08	1.00E+06
0.00E+00	0.00E+00	1.01E+06	3.76E+12	1.86E+08	9.29E+03	3.44E+10	6.45E+07
0.00E+00	0.00E+00	5.67E+05	3.33E+12	2.15E+07	4.71E+05	2.76E+12	1.82E+08
0.00E+00	0.00E+00	9.47E+05	2.35E+13	2.71E+08	3.58E+04	8.90E+11	1.46E+08
0.00E+00	0.00E+00	8.72E+05	1.44E+13	1.53E+08	1.30E+05	2.14E+12	1.04E+08
0.00E+00	0.00E+00	1.02E+06	3.37E+12	1.87E+08	8.80E+03	2.90E+10	3.40E+07

0.00E+00	0.00E+00	7.57E+05	3.73E+12	1.11E+08	2.78E+05	1.37E+12	2.22E+08
0.00E+00	0.00E+00	1.02E+06	6.66E+12	7.95E+07	1.35E+04	8.79E+10	3.93E+07
0.00E+00	0.00E+00	9.83E+05	7.70E+13	2.64E+08	5.07E+04	3.98E+12	4.31E+08
0.00E+00	0.00E+00	8.60E+05	1.35E+12	8.55E+07	1.65E+05	2.60E+11	6.90E+07
0.00E+00	0.00E+00	9.41E+05	1.00E+13	2.04E+08	2.40E+04	2.57E+11	8.53E+07
0.00E+00	0.00E+00	9.62E+05	1.49E+12	7.45E+07	7.27E+04	1.13E+11	5.68E+07
0.00E+00	0.00E+00	7.28E+05	9.26E+12	1.16E+08	3.08E+05	3.92E+12	5.69E+08
0.00E+00	0.00E+00	7.16E+05	7.73E+12	1.88E+08	3.19E+05	3.44E+12	5.17E+08
0.00E+00	0.00E+00	1.00E+06	4.15E+13	3.70E+07	3.65E+04	1.51E+12	7.23E+07
0.00E+00	0.00E+00	1.04E+06	4.43E+13	2.29E+08	8.20E+01	3.50E+09	1.40E+07
0.00E+00	0.00E+00	4.68E+03	2.20E+11	1.03E+07	8.94E+05	4.19E+13	4.23E+08
0.00E+00	0.00E+00	5.50E+04	8.40E+11	2.48E+07	2.70E+05	4.11E+12	6.90E+07
0.00E+00	0.00E+00	4.64E+05	6.04E+11	1.83E+07	5.70E+05	7.43E+11	9.75E+07
0.00E+00	0.00E+00	4.40E+05	2.70E+13	8.80E+07	5.90E+05	3.62E+13	6.62E+08
0.00E+00	0.00E+00	9.52E+05	5.31E+12	1.61E+08	5.48E+04	3.06E+11	1.51E+08
0.00E+00	0.00E+00	9.71E+05	6.34E+13	8.88E+07	6.85E+04	4.47E+12	2.76E+08
0.00E+00	0.00E+00	1.03E+06	1.44E+13	1.69E+08	2.42E+00	3.41E+07	2.50E+05
0.00E+00	0.00E+00	9.89E+05	2.53E+12	5.00E+07	4.52E+04	1.16E+11	6.00E+07
0.00E+00	0.00E+00	2.35E+05	3.90E+11	5.98E+07	6.32E+05	1.05E+12	2.96E+08
0.00E+00	0.00E+00	8.77E+05	6.70E+13	7.68E+07	1.63E+05	1.24E+13	4.57E+08
0.00E+00	0.00E+00	1.08E+05	1.01E+13	1.43E+08	9.18E+05	8.59E+13	6.91E+08
0.00E+00	0.00E+00	6.48E+05	1.47E+13	1.59E+08	3.90E+05	8.87E+12	3.59E+08
0.00E+00	0.00E+00	7.00E+05	2.95E+13	2.02E+08	1.80E+05	7.58E+12	5.63E+07
0.00E+00	0.00E+00	3.60E+05	9.45E+12	8.58E+07	6.52E+05	1.71E+13	6.28E+08
0.00E+00	0.00E+00	9.16E+05	3.81E+12	4.95E+07	1.20E+05	5.00E+11	1.89E+08
0.00E+00	0.00E+00	8.15E+05	1.15E+12	7.65E+07	2.08E+05	2.93E+11	6.05E+07
0.00E+00	0.00E+00	9.99E+05	3.47E+13	1.01E+08	3.39E+04	1.18E+12	5.30E+07
0.00E+00	0.00E+00	5.90E+05	1.19E+13	5.20E+07	4.02E+05	8.09E+12	2.17E+08
0.00E+00	0.00E+00	9.91E+05	3.68E+12	9.90E+07	4.59E+04	1.71E+11	5.78E+07
2.07E-05	1.97E+03	2.85E+05	2.71E+13	8.10E+07	7.47E+05	7.11E+13	9.93E+08
0.00E+00	0.00E+00	8.19E+05	2.60E+13	5.85E+07	2.18E+05	6.94E+12	4.50E+08
0.00E+00	0.00E+00	8.19E+05	2.95E+13	1.96E+08	1.81E+05	6.50E+12	2.93E+08
0.00E+00	0.00E+00	4.13E+04	3.24E+12	4.13E+07	6.15E+05	4.82E+13	3.53E+08
0.00E+00	0.00E+00	5.41E+05	9.79E+11	4.78E+07	4.39E+05	7.95E+11	2.35E+08
0.00E+00	0.00E+00	8.36E+05	2.14E+12	2.20E+08	1.60E+05	4.11E+11	2.45E+08
0.00E+00	0.00E+00	6.27E+05	8.07E+11	1.65E+08	1.23E+05	1.59E+11	8.28E+07
1.50E-05	1.23E+02	9.61E+05	7.94E+12	2.52E+08	6.72E+04	5.55E+11	1.69E+08
0.00E+00	0.00E+00	9.53E+05	4.14E+13	3.01E+08	7.92E+04	3.44E+12	5.59E+08
0.00E+00	0.00E+00	1.02E+06	2.69E+13	1.36E+08	1.28E+03	3.40E+10	6.00E+06
1.54E-04	1.92E+02	7.28E+05	9.09E+11	1.14E+08	2.69E+05	3.36E+11	1.72E+08
0.00E+00	0.00E+00	8.64E+05	2.02E+12	1.54E+08	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	7.91E+05	2.81E+13	6.95E+07	2.41E+05	8.54E+12	4.76E+08
0.00E+00	0.00E+00	5.96E+05	1.45E+13	1.57E+08	4.24E+05	1.03E+13	6.42E+08

0.00E+00	0.00E+00	1.04E+06	4.37E+13	2.20E+08	9.56E+01	4.02E+09	1.15E+07
5.35E-06	5.97E+02	7.36E+05	8.22E+13	6.73E+07	2.99E+05	3.33E+13	7.52E+08
0.00E+00	0.00E+00	6.49E+05	1.10E+12	6.18E+07	3.86E+05	6.51E+11	6.40E+07
0.00E+00	0.00E+00	6.98E+05	3.59E+12	2.00E+08	2.75E+05	1.42E+12	4.02E+08
0.00E+00	0.00E+00	7.15E+05	8.26E+11	4.68E+07	3.15E+05	3.64E+11	1.17E+08
0.00E+00	0.00E+00	8.31E+04	7.76E+12	2.08E+07	8.81E+05	8.22E+13	6.39E+08
0.00E+00	0.00E+00	8.98E+05	1.58E+13	2.34E+08	1.31E+05	2.29E+12	3.32E+08
0.00E+00	0.00E+00	1.04E+06	6.70E+13	7.78E+07	3.59E+02	2.32E+10	4.15E+07
0.00E+00	0.00E+00	9.84E+05	6.55E+12	2.47E+08	3.50E+04	2.33E+11	1.75E+08
0.00E+00	0.00E+00	1.04E+06	1.11E+14	1.92E+08	4.84E+02	5.16E+10	8.30E+07
0.00E+00	0.00E+00	9.42E+05	3.29E+12	6.75E+07	9.29E+04	3.25E+11	1.91E+08
9.67E-04	9.13E+04	3.67E+05	3.47E+13	7.25E+07	6.67E+05	6.30E+13	1.00E+09
0.00E+00	0.00E+00	9.67E+05	4.19E+12	4.43E+07	7.12E+04	3.09E+11	1.04E+08
0.00E+00	0.00E+00	1.02E+06	1.22E+12	7.05E+07	1.25E+04	1.50E+10	4.03E+07
1.20E-04	7.77E+03	3.98E+05	2.58E+13	8.10E+07	6.38E+05	4.13E+13	1.23E+09
0.00E+00	0.00E+00	9.89E+05	8.65E+13	5.53E+07	3.63E+04	3.17E+12	2.18E+07
0.00E+00	0.00E+00	4.66E+05	1.25E+13	3.30E+07	5.32E+05	1.43E+13	1.55E+08
0.00E+00	0.00E+00	9.04E+05	4.56E+13	1.86E+08	2.34E+03	1.18E+11	1.95E+07
0.00E+00	0.00E+00	1.04E+06	3.67E+13	1.34E+08	1.07E+02	3.79E+09	1.40E+07
0.00E+00	0.00E+00	1.04E+06	2.57E+13	1.03E+08	3.44E+03	8.53E+10	5.38E+07
0.00E+00	0.00E+00	5.67E+05	2.14E+13	3.28E+07	3.92E+05	1.48E+13	1.31E+08
0.00E+00	0.00E+00	1.04E+06	1.82E+12	6.55E+07	7.45E+02	1.31E+09	6.25E+06
0.00E+00	0.00E+00	8.55E+05	2.57E+13	2.23E+08	3.26E+02	9.81E+09	1.20E+07
0.00E+00	0.00E+00	9.41E+05	2.55E+13	1.51E+08	8.91E+04	2.41E+12	3.00E+08
0.00E+00	0.00E+00	1.04E+06	3.12E+12	1.26E+08	3.61E+02	1.09E+09	6.75E+06
0.00E+00	0.00E+00	2.58E+04	2.55E+11	1.38E+07	9.46E+05	9.35E+12	4.97E+08
0.00E+00	0.00E+00	1.01E+06	2.28E+13	2.57E+08	1.28E+04	2.91E+11	1.45E+08
7.62E-05	6.32E+03	1.19E+05	9.92E+12	5.73E+07	8.80E+05	7.31E+13	7.24E+08
0.00E+00	0.00E+00	8.45E+05	1.23E+13	1.86E+08	8.40E+01	1.23E+09	4.00E+06
0.00E+00	0.00E+00	8.53E+05	8.44E+12	2.00E+08	1.83E+05	1.81E+12	4.53E+08
9.62E-05	4.56E+03	7.54E+05	3.58E+13	2.40E+08	2.83E+05	1.34E+13	7.69E+08
0.00E+00	0.00E+00	9.93E+05	3.06E+12	4.25E+07	4.42E+04	1.36E+11	8.58E+07
0.00E+00	0.00E+00	9.57E+05	2.19E+13	1.12E+08	2.22E+04	5.07E+11	5.05E+07
0.00E+00	0.00E+00	9.99E+05	1.57E+13	1.99E+08	6.20E+02	9.77E+09	1.18E+07
0.00E+00	0.00E+00	5.36E+05	8.76E+12	1.18E+08	5.00E+05	8.16E+12	4.36E+08
6.78E-06	6.03E+02	1.48E+05	1.32E+13	2.58E+07	8.55E+05	7.61E+13	6.59E+08
0.00E+00	0.00E+00	8.86E+05	3.84E+12	3.70E+07	1.53E+05	6.63E+11	4.55E+07