**R script to calculate effective population size with an R2 cut-off value- Wesley A. Larson**

These scripts are used to calculate effective population size with an R2 cutoff from the Burrows output of the NeEstimator program (http://www.molecularfisherieslaboratory.com.au/neestimator-software/). To get the Burrows file from NeEstimator check the box "output file for Burrow coefficients in Linkage Disequilibrium". This file will have the "Bur" suffix but it has some unecessary columns that make it quite large. To subset the relevant information from this file into a file that can be input into R, use the get\_clean\_burrows.py script (a description of the usuage for this script is found in the header of the script). Ne with a subset of R2 values can then be calculated from the output of the get\_clean\_burrows.py script with the calc\_ne\_in\_R.r script. See the header of the calc\_ne\_in\_R.r script for usage. We have included two example files, the first is an example Burrows output that can be input into the get\_clean\_burrows.py script (lynx\_ct\_example\_data\_genepopBur.txt) and the second is a cleaned burrows output from get\_clean\_burrows.py (clean\_lynx\_ct\_example\_data\_genepopBur.txt) that can be input into the R script calc\_ne\_in\_R.r.

####################################################################################

#Author: Wesley A. Larson

#Affiliation: School of Aquatic and Fisheries Science, University of Washington

#Address: 1122 NE Boat Street, Box 355020, Seattle, WA 98195, USA

#Contact: [wlarson1@uw.edu](mailto:wlarson1@uw.edu)

#Code name: script to subset burrows output from NeEstimator for input to calc\_ne\_in\_R.r script

#Date edited: 4/28/2014

#

#Notes: this first script is python

# script takes 1 argument, the filename of the burrows output

#example usage

#python get\_clean\_burrows.py burrows\_output\_filenameBur.txt

#

#####################################################################################

import sys

import re

def dirty\_to\_clean\_r2\_distr(r2\_dirty\_file):

with open(r2\_dirty\_file, "r") as dirty\_R2:

clean\_r2\_filename="clean\_{}".format(r2\_dirty\_file)

clean\_r2\_file=open(clean\_r2\_filename, "w")

title\_string="locus1\tlocus2\tsamp\_size\tMean\_r2\tr2\_drift\n"

clean\_r2\_file.write(title\_string)

for line in dirty\_R2:

line = line.strip()

if re.match(r'[0-9]+,',line): #starts with num

split\_r2\_line=line.split()

locus1=re.sub(",","",split\_r2\_line[0])

locus2=split\_r2\_line[1]

samp\_size=split\_r2\_line[5]

mean\_r2=split\_r2\_line[8]

r2\_drift=split\_r2\_line[9]

combo\_line=locus1+"\t"+locus2+"\t"+samp\_size+"\t"+mean\_r2+"\t"+r2\_drift+"\n"

clean\_r2\_file.write(combo\_line)

clean\_r2\_file.close()

filename=sys.argv[1]

dirty\_to\_clean\_r2\_distr(filename)

print(filename)

####################################################################################

####################################################################################

#Author: Wesley A. Larson

#Affiliation: School of Aquatic and Fisheries Science, University of Washington

#Address: 1122 NE Boat Street, Box 355020, Seattle, WA 98195, USA

#Contact: [wlarson1@uw.edu](mailto:wlarson1@uw.edu)

#Code name: script to calculate Ne using LD methods Hill 1981, Waples 2006

#Date edited: 4/28/2014

#

#Notes:

#

#####################################################################################

rm(list = ls())

#change to your current working directory

setwd(dir="E:\\all the scripts Carita and Wes used\\Ne scripts with readme and examples")

#################

#functions to calculate Ne

#calculate weighted mean

calc\_weighted\_mean\_r2=function(sample\_sizes,r2\_values)

{

samp\_sizes\_sq=sample\_sizes^2

sum\_samp\_sizes=sum(samp\_sizes\_sq)

sum\_weighted\_r2\_vals=sum(samp\_sizes\_sq\*r2\_values)

weighted\_mean\_r2=round(sum\_weighted\_r2\_vals/sum\_samp\_sizes,15)

return(weighted\_mean\_r2)

}

#calculate Ne

calc\_ne=function(mean\_r2\_drift)

{

Ne=round((1/3+sqrt(1/9-(2.76\*mean\_r2\_drift)))/(2\*mean\_r2\_drift),6)

return(Ne)

}

#calculate 95% parametric CI

#calc CI based on overall R2

calc\_95\_ci=function(sample\_size\_col,weighted\_mean\_r2\_drift,num\_compars)

{

#calc expected R2 for each sample

expected\_r2\_all\_compars=(1/sample\_size\_col)+(3.19/(sample\_size\_col^2))

#calc weighted mean of expected R2 across all samples

weighted\_mean\_expected\_R2=calc\_weighted\_mean\_r2(sample\_size\_col,expected\_r2\_all\_compars)

#find overall R2 that, after subtracting expected r2, would result in Ne

#overall R2=R2 drift+expected R2

(overall\_r2\_for\_ci=weighted\_mean\_r2\_drift+weighted\_mean\_expected\_R2)

#calc CI

chisq\_val\_up=qchisq(.975,df=num\_compars)

chisq\_val\_low=qchisq(.025,df=num\_compars)

top\_ci=(overall\_r2\_for\_ci\*num\_compars)/chisq\_val\_up

top\_ci\_drift=top\_ci-weighted\_mean\_expected\_R2

ne\_top=calc\_ne(top\_ci\_drift)

low\_ci=(overall\_r2\_for\_ci\*num\_compars)/chisq\_val\_low

low\_ci\_drift=low\_ci-weighted\_mean\_expected\_R2

ne\_low=calc\_ne(low\_ci\_drift)

return(cbind(ne\_low,ne\_top))

}

####read in data and calculate Ne with the designated R2 cutoff

calc\_Ne\_and\_CI=function(input\_file="clean\_lynx\_ct\_example\_data\_genepopBur.txt",R2\_cutoff=0.5)

{

ne\_input\_data=as.matrix(read.table(input\_file,header=TRUE))

ne\_input\_data\_trimmed\_by\_R2=ne\_input\_data[which(ne\_input\_data[,4]<R2\_cutoff),]

#calculate weighted mean drift, arguments are sample size col and r2 drift col

weighted\_mean\_drift=calc\_weighted\_mean\_r2(ne\_input\_data\_trimmed\_by\_R2[,3],ne\_input\_data\_trimmed\_by\_R2[,5])

#calc ne using weighted mean drift

(ne=calc\_ne(weighted\_mean\_drift))

#calc 95% CI, arguments are sample size col, weighted mean drift, number of comparisons (length of any column)

(ne\_95\_ci=calc\_95\_ci(ne\_input\_data\_trimmed\_by\_R2[,3],weighted\_mean\_drift,length(ne\_input\_data\_trimmed\_by\_R2[,3])))

#return Ne and 95% CI

line\_to\_return=paste("Effective size =",ne,", 95% confidence interval =",ne\_95\_ci[1],",",ne\_95\_ci[2],

", only R2 comparisons <", R2\_cutoff,"used")

return(line\_to\_return)

}

##############################################################################################

#end functions

############################################################################################

#calculate Ne

calc\_Ne\_and\_CI(input\_file="clean\_lynx\_ct\_example\_data\_genepopBur.txt",R2\_cutoff=1)

EXAMPLE: Lynx\_ct\_example\_data\_genepopBut.txt

Draft output from NeEstimator v.2 (Beta)

Input File: lynx\_ct\_example\_data\_genepop.txt

POPULATION 1 (Sample Size = 78)

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Lowest Allele Frequency Used = 0.05000

=======================================

Total number of loci to be used = 64

#Loci rejected by required freq.= 24

Independent #Allele Sample

Locus Pairs Alleles Pairs Size Mean D Mean r Mean r^2 r^2-drift

-------------------------------------------------------------------------------------------

1, 2 1, 1 4 78 -1.490e-008 -7.823e-008 3.070e-002 1.736e-002

1, 3 1, 1 4 78 -1.141e-008 -1.099e-007 5.869e-003 -7.476e-003

1, 4 1, 1 4 78 -7.552e-009 -4.009e-008 7.806e-007 -1.334e-002

1, 6 1, 1 4 78 -1.444e-008 -8.941e-008 3.343e-002 2.009e-002

1, 7 1, 1 4 78 -1.397e-008 -7.451e-008 4.695e-002 3.361e-002

1, 8 1, 1 4 78 -2.282e-008 -1.714e-007 2.694e-002 1.360e-002

1, 9 1, 1 4 76 -4.657e-010 -3.725e-009 1.015e-002 -3.557e-003

1, 11 1, 1 4 77 7.451e-009 5.588e-008 1.007e-003 -1.252e-002

1, 12 1, 1 4 78 -3.050e-008 -1.667e-007 2.266e-003 -1.108e-002

1, 13 1, 1 4 78 -2.654e-008 -2.421e-007 1.620e-002 2.855e-003

1, 14 1, 1 4 78 -1.118e-008 -7.823e-008 3.929e-002 2.594e-002

1, 15 1, 1 4 78 -3.027e-008 -1.481e-007 1.607e-003 -1.174e-002

1, 16 1, 1 4 78 0.000e+000 0.000e+000 1.475e-003 -1.187e-002

1, 17 1, 1 4 78 -2.258e-008 -1.406e-007 6.260e-004 -1.272e-002

1, 18 1, 1 4 78 -1.510e-008 -7.392e-008 3.266e-005 -1.331e-002

1, 20 1, 1 4 78 -2.468e-008 -2.645e-007 2.418e-002 1.083e-002

1, 21 1, 1 4 78 -3.725e-009 -3.353e-008 5.970e-002 4.636e-002

1, 22 1, 1 4 78 -3.958e-009 -3.539e-008 6.010e-003 -7.335e-003

1, 23 1, 1 4 78 -7.683e-009 -4.470e-008 2.140e-003 -1.120e-002

1, 24 1, 1 4 78 -2.235e-008 -1.173e-007 1.224e-002 -1.103e-003

1, 25 1, 1 4 78 -1.537e-008 -8.196e-008 5.138e-003 -8.207e-003

1, 26 1, 1 4 78 -2.264e-008 -1.551e-007 4.702e-004 -1.287e-002

1, 28 1, 1 4 78 0.000e+000 0.000e+000 1.220e-002 -1.144e-003

1, 29 1, 1 4 78 -4.657e-010 3.725e-009 2.464e-002 1.129e-002

1, 30 1, 1 4 78 -3.958e-009 -3.353e-008 5.119e-003 -8.226e-003

1, 31 1, 1 4 78 -2.258e-008 -1.565e-007 4.381e-003 -8.964e-003

1, 33 1, 1 4 78 -2.235e-008 -1.267e-007 1.406e-002 7.190e-004

1, 34 1, 1 4 78 0.000e+000 7.451e-009 6.888e-002 5.553e-002

1, 35 1, 1 4 78 9.313e-010 3.725e-009 3.049e-002 1.715e-002

1, 36 1, 1 4 78 -2.258e-008 -1.551e-007 7.605e-004 -1.258e-002

1, 38 1, 1 4 78 -1.886e-008 -1.565e-007 5.846e-003 -7.499e-003

1, 39 1, 1 4 78 -3.009e-008 -1.439e-007 6.348e-005 -1.328e-002

1, 42 1, 1 4 78 -2.980e-008 -1.788e-007 4.913e-002 3.579e-002

1, 44 1, 1 4 78 -1.397e-008 -8.196e-008 5.552e-002 4.218e-002

1, 46 1, 1 4 78 1.164e-010 9.313e-010 1.209e-003 -1.214e-002

1, 47 1, 1 4 78 -3.004e-008 -1.602e-007 5.431e-003 -7.914e-003

1, 48 1, 1 4 78 -7.451e-009 -5.215e-008 2.600e-002 1.265e-002

1, 49 1, 1 4 78 -1.304e-008 -6.706e-008 1.648e-001 1.514e-001

1, 54 1, 1 4 78 -3.958e-009 -3.725e-008 1.304e-002 -3.084e-004

1, 55 1, 1 4 78 -2.261e-008 -1.437e-007 1.355e-004 -1.321e-002

1, 56 1, 1 4 78 -1.537e-008 -8.568e-008 5.488e-003 -7.857e-003

1, 59 1, 1 4 78 -3.027e-008 -1.676e-007 2.333e-003 -1.101e-002

1, 60 1, 1 4 77 2.282e-008 1.257e-007 3.463e-003 -1.006e-002

1, 62 1, 1 4 78 -1.583e-008 -7.078e-008 1.577e-002 2.429e-003

1, 64 1, 1 4 78 -1.502e-008 -7.171e-008 6.029e-004 -1.274e-002

1, 65 1, 1 4 78 -3.004e-008 -1.509e-007 8.077e-004 -1.254e-002

1, 66 1, 1 4 78 -1.508e-008 -7.462e-008 1.378e-005 -1.333e-002

1, 67 1, 1 4 78 -1.397e-008 -7.451e-008 5.478e-002 4.144e-002

1, 68 1, 1 4 78 -3.073e-008 -1.527e-007 5.430e-002 4.096e-002

1, 70 1, 1 4 78 -7.916e-009 -4.470e-008 1.245e-002 -8.942e-004

1, 71 1, 1 4 78 -1.490e-008 -7.823e-008 2.605e-002 1.270e-002

1, 72 1, 1 4 78 -7.451e-009 -4.470e-008 5.202e-003 -8.143e-003

1, 73 1, 1 4 77 2.328e-008 1.304e-007 4.367e-002 3.014e-002

1, 74 1, 1 4 78 -3.027e-008 -1.490e-007 8.764e-003 -4.581e-003

1, 76 1, 1 4 78 -2.980e-008 -1.322e-007 9.637e-003 -3.708e-003

1, 77 1, 1 4 78 -2.258e-008 -1.322e-007 1.255e-003 -1.209e-002

1, 78 1, 1 4 78 -1.502e-008 -8.009e-008 1.015e-003 -1.233e-002

1, 81 1, 1 4 78 -7.683e-009 -5.029e-008 5.371e-003 -7.974e-003

1, 82 1, 1 4 78 -1.490e-008 -7.823e-008 2.723e-002 1.389e-002

1, 83 1, 1 4 77 1.502e-008 6.706e-008 1.081e-003 -1.244e-002

1, 85 1, 1 4 78 -7.451e-009 -4.843e-008 2.062e-002 7.274e-003

1, 86 1, 1 4 78 -3.166e-008 -1.788e-007 1.340e-001 1.207e-001

1, 88 1, 1 4 78 -7.567e-009 -3.655e-008 1.879e-004 -1.316e-002

2, 3 1, 1 4 78 3.798e-009 3.458e-008 2.048e-005 -1.332e-002

2, 4 1, 1 4 78 7.451e-009 3.632e-008 2.458e-003 -1.089e-002

2, 6 1, 1 4 78 0.000e+000 3.725e-009 1.993e-002 6.589e-003

2, 7 1, 1 4 78 2.328e-010 0.000e+000 1.916e-003 -1.143e-002

2, 8 1, 1 4 78 -6.519e-009 -4.470e-008 5.302e-002 3.968e-002

2, 9 1, 1 4 76 -2.887e-008 -1.341e-007 3.641e-002 2.270e-002

2, 11 1, 1 4 77 -2.264e-008 -1.569e-007 6.911e-005 -1.346e-002

2, 12 1, 1 4 78 -1.509e-008 -7.761e-008 8.118e-015 -1.334e-002

2, 13 1, 1 4 78 -1.118e-008 -9.406e-008 3.018e-003 -1.033e-002

2, 14 1, 1 4 78 3.609e-009 2.515e-008 1.729e-003 -1.162e-002

2, 15 1, 1 4 78 -1.490e-008 -6.333e-008 1.897e-002 5.623e-003

2, 16 1, 1 4 78 1.513e-008 7.264e-008 2.346e-003 -1.100e-002

2, 17 1, 1 4 78 -7.683e-009 -4.843e-008 6.236e-003 -7.109e-003

2, 18 1, 1 4 78 0.000e+000 -1.164e-010 4.722e-005 -1.330e-002

2, 20 1, 1 4 78 -9.459e-009 -9.337e-008 9.720e-005 -1.325e-002

2, 21 1, 1 4 78 1.118e-008 8.568e-008 4.993e-002 3.659e-002

2, 22 1, 1 4 78 1.094e-008 8.941e-008 6.737e-003 -6.608e-003

2, 23 1, 1 4 78 7.451e-009 3.353e-008 5.791e-002 4.457e-002

2, 24 1, 1 4 78 -7.509e-009 -3.749e-008 5.640e-005 -1.329e-002

2, 25 1, 1 4 78 0.000e+000 1.863e-009 1.362e-002 2.722e-004

2, 26 1, 1 4 78 -7.334e-009 -4.843e-008 1.025e-003 -1.232e-002

2, 28 1, 1 4 78 1.490e-008 6.706e-008 1.107e-002 -2.277e-003

2, 29 1, 1 4 78 1.397e-008 6.706e-008 3.646e-002 2.311e-002

2, 30 1, 1 4 78 1.257e-008 9.686e-008 2.905e-002 1.570e-002

2, 31 1, 1 4 78 -7.916e-009 -5.215e-008 3.101e-002 1.767e-002

2, 33 1, 1 4 78 -8.382e-009 -4.657e-008 9.331e-003 -4.014e-003

2, 34 1, 1 4 78 1.583e-008 7.078e-008 2.461e-002 1.126e-002

2, 35 1, 1 4 78 1.537e-008 7.171e-008 2.921e-003 -1.042e-002

2, 36 1, 1 4 78 -7.916e-009 -5.588e-008 2.919e-002 1.585e-002

2, 38 1, 1 4 78 -3.260e-009 -2.235e-008 1.759e-002 4.240e-003

2, 39 1, 1 4 78 -1.490e-008 -6.706e-008 1.799e-002 4.644e-003

2, 42 1, 1 4 78 -1.502e-008 -8.661e-008 1.188e-003 -1.216e-002

2, 44 1, 1 4 78 4.657e-010 3.725e-009 2.274e-002 9.396e-003

2, 46 1, 1 4 78 1.583e-008 7.823e-008 7.107e-003 -6.238e-003

2, 47 1, 1 4 78 -1.397e-008 -6.706e-008 2.954e-002 1.620e-002

2, 48 1, 1 4 78 7.916e-009 5.402e-008 1.522e-002 1.876e-003

2, 49 1, 1 4 78 0.000e+000 0.000e+000 1.183e-004 -1.323e-002

2, 54 1, 1 4 78 1.164e-008 1.118e-007 2.565e-002 1.231e-002

2, 55 1, 1 4 78 -7.567e-009 -4.499e-008 8.814e-006 -1.334e-002

2, 56 1, 1 4 78 2.328e-010 3.725e-009 6.327e-003 -7.018e-003

2, 59 1, 1 4 78 -1.490e-008 -7.823e-008 4.371e-002 3.037e-002

2, 60 1, 1 4 77 -7.451e-009 -3.725e-008 1.373e-002 2.028e-004

2, 62 1, 1 4 78 2.328e-010 0.000e+000 1.677e-003 -1.167e-002

2, 64 1, 1 4 78 1.863e-009 7.451e-009 7.839e-002 6.505e-002

2, 65 1, 1 4 78 -1.397e-008 -7.078e-008 3.011e-002 1.677e-002

2, 66 1, 1 4 78 0.000e+000 1.863e-009 3.905e-003 -9.440e-003

2, 67 1, 1 4 78 4.657e-010 1.863e-009 7.725e-003 -5.620e-003

2, 68 1, 1 4 78 -1.444e-008 -6.892e-008 6.291e-003 -7.053e-003

2, 70 1, 1 4 78 7.218e-009 3.725e-008 2.541e-003 -1.080e-002

2, 71 1, 1 4 78 2.328e-010 1.863e-009 1.187e-003 -1.216e-002

2, 72 1, 1 4 78 7.451e-009 4.098e-008 5.816e-002 4.481e-002

2, 73 1, 1 4 77 -7.916e-009 -4.098e-008 2.405e-002 1.052e-002

2, 74 1, 1 4 78 -1.490e-008 -7.264e-008 1.267e-002 -6.742e-004

2, 76 1, 1 4 78 -1.676e-008 -6.706e-008 5.982e-002 4.648e-002

2, 77 1, 1 4 78 -6.985e-009 -4.098e-008 8.810e-003 -4.535e-003

2, 78 1, 1 4 78 9.313e-010 0.000e+000 3.021e-002 1.686e-002

2, 81 1, 1 4 78 7.683e-009 4.843e-008 6.765e-003 -6.580e-003

2, 82 1, 1 4 78 9.313e-010 0.000e+000 2.679e-002 1.345e-002

2, 83 1, 1 4 77 -1.583e-008 -6.333e-008 2.488e-002 1.135e-002

2, 85 1, 1 4 78 7.567e-009 4.005e-008 5.766e-004 -1.277e-002

2, 86 1, 1 4 78 -1.508e-008 -8.033e-008 1.139e-004 -1.323e-002

2, 88 1, 1 4 78 7.683e-009 3.539e-008 2.948e-003 -1.040e-002

3, 4 1, 1 4 78 1.141e-008 1.006e-007 1.919e-002 5.848e-003

3, 6 1, 1 4 78 3.725e-009 4.284e-008 7.855e-003 -5.490e-003

3, 7 1, 1 4 78 3.725e-009 3.353e-008 1.009e-002 -3.254e-003

3, 8 1, 1 4 78 -3.260e-009 -3.725e-008 3.058e-002 1.723e-002

3, 9 1, 1 4 76 -3.725e-009 -3.353e-008 2.528e-002 1.157e-002

3, 11 1, 1 4 77 3.783e-009 4.843e-008 1.266e-003 -1.226e-002

3, 12 1, 1 4 78 -1.129e-008 -1.043e-007 1.645e-003 -1.170e-002

3, 13 1, 1 4 78 -7.567e-009 -1.155e-007 6.962e-003 -6.383e-003

3, 14 1, 1 4 78 7.451e-009 9.499e-008 5.274e-003 -8.071e-003

3, 15 1, 1 4 78 -1.129e-008 -9.406e-008 1.029e-003 -1.232e-002

3, 16 1, 1 4 78 1.886e-008 1.667e-007 9.096e-004 -1.244e-002

3, 17 1, 1 4 78 -3.725e-009 -3.725e-008 2.731e-002 1.396e-002

3, 18 1, 1 4 78 3.783e-009 3.120e-008 6.991e-004 -1.265e-002

3, 20 1, 1 4 78 -5.646e-009 -1.006e-007 9.888e-004 -1.236e-002

3, 21 1, 1 4 78 1.509e-008 2.086e-007 5.295e-006 -1.334e-002

3, 22 1, 1 4 78 1.560e-008 2.347e-007 3.879e-002 2.545e-002

3, 23 1, 1 4 78 1.141e-008 1.118e-007 2.042e-002 7.079e-003

3, 24 1, 1 4 78 -4.191e-009 -3.539e-008 8.051e-003 -5.294e-003

3, 25 1, 1 4 78 3.798e-009 3.458e-008 2.048e-005 -1.332e-002

3, 26 1, 1 4 78 -3.958e-009 -4.843e-008 1.907e-002 5.728e-003

3, 28 1, 1 4 78 1.892e-008 1.579e-007 5.840e-005 -1.329e-002

3, 29 1, 1 4 78 1.956e-008 1.714e-007 5.828e-002 4.494e-002

3, 30 1, 1 4 78 1.525e-008 2.105e-007 8.470e-003 -4.874e-003

3, 31 1, 1 4 78 -3.958e-009 -4.843e-008 1.907e-002 5.728e-003

3, 33 1, 1 4 78 -5.588e-009 -5.960e-008 1.217e-001 1.083e-001

3, 34 1, 1 4 78 1.816e-008 1.639e-007 6.518e-002 5.184e-002

3, 35 1, 1 4 78 1.886e-008 1.621e-007 5.617e-003 -7.728e-003

3, 36 1, 1 4 78 -3.783e-009 -4.424e-008 8.630e-004 -1.248e-002

3, 38 1, 1 4 78 0.000e+000 -4.657e-010 5.614e-004 -1.278e-002

3, 39 1, 1 4 78 -1.187e-008 -9.686e-008 5.579e-003 -7.766e-003

3, 42 1, 1 4 78 -1.132e-008 -1.187e-007 2.200e-004 -1.312e-002

3, 44 1, 1 4 78 3.725e-009 3.725e-008 7.660e-003 -5.685e-003

3, 46 1, 1 4 78 1.887e-008 1.659e-007 4.817e-006 -1.334e-002

3, 47 1, 1 4 78 -1.118e-008 -1.006e-007 5.059e-003 -8.286e-003

3, 48 1, 1 4 78 1.118e-008 1.267e-007 9.986e-003 -3.358e-003

3, 49 1, 1 4 78 3.492e-009 2.794e-008 5.379e-003 -7.965e-003

3, 54 1, 1 4 78 1.508e-008 2.589e-007 4.333e-003 -9.012e-003

3, 55 1, 1 4 78 -3.725e-009 -4.098e-008 1.879e-002 5.445e-003

3, 56 1, 1 4 78 3.725e-009 3.353e-008 1.367e-002 3.232e-004

3, 59 1, 1 4 78 -1.135e-008 -1.076e-007 4.481e-004 -1.290e-002

3, 60 1, 1 4 77 1.886e-008 1.770e-007 7.741e-003 -5.784e-003

3, 62 1, 1 4 78 3.783e-009 2.980e-008 9.642e-005 -1.325e-002

3, 64 1, 1 4 78 3.260e-009 2.980e-008 2.286e-002 9.516e-003

3, 65 1, 1 4 78 -1.141e-008 -1.006e-007 9.945e-003 -3.400e-003

3, 66 1, 1 4 78 3.725e-009 3.073e-008 3.741e-003 -9.604e-003

3, 67 1, 1 4 78 3.725e-009 3.446e-008 1.397e-003 -1.195e-002

3, 68 1, 1 4 78 -1.141e-008 -1.006e-007 1.805e-002 4.702e-003

3, 70 1, 1 4 78 1.129e-008 1.099e-007 1.624e-003 -1.172e-002

3, 71 1, 1 4 78 3.776e-009 3.382e-008 8.939e-006 -1.334e-002

3, 72 1, 1 4 78 1.164e-008 1.192e-007 1.389e-002 5.500e-004

3, 73 1, 1 4 77 1.883e-008 1.895e-007 3.586e-004 -1.317e-002

3, 74 1, 1 4 78 -1.118e-008 -9.313e-008 3.171e-002 1.837e-002

3, 76 1, 1 4 78 -1.129e-008 -8.475e-008 1.910e-003 -1.143e-002

3, 77 1, 1 4 78 -3.754e-009 -3.772e-008 2.532e-005 -1.332e-002

3, 78 1, 1 4 78 3.725e-009 3.539e-008 1.493e-002 1.582e-003

3, 81 1, 1 4 78 1.118e-008 1.304e-007 2.497e-003 -1.085e-002

3, 82 1, 1 4 78 3.842e-009 3.353e-008 2.615e-003 -1.073e-002

3, 83 1, 1 4 77 1.135e-008 8.591e-008 5.104e-005 -1.347e-002

3, 85 1, 1 4 78 1.138e-008 1.108e-007 1.681e-004 -1.318e-002

3, 86 1, 1 4 78 -1.129e-008 -1.090e-007 2.525e-003 -1.082e-002

3, 88 1, 1 4 78 1.118e-008 8.941e-008 6.892e-002 5.557e-002

4, 6 1, 1 4 78 7.683e-009 4.750e-008 1.187e-003 -1.216e-002

4, 7 1, 1 4 78 7.916e-009 4.098e-008 2.290e-002 9.556e-003

4, 8 1, 1 4 78 0.000e+000 -1.863e-009 5.872e-003 -7.473e-003

4, 9 1, 1 4 76 1.164e-010 9.313e-010 1.086e-003 -1.262e-002

4, 11 1, 1 4 77 6.985e-009 4.843e-008 2.021e-002 6.684e-003

4, 12 1, 1 4 78 -7.334e-009 -3.725e-008 4.938e-004 -1.285e-002

4, 13 1, 1 4 78 -3.842e-009 -3.260e-008 1.337e-003 -1.201e-002

4, 14 1, 1 4 78 1.118e-008 7.777e-008 1.915e-004 -1.315e-002

4, 15 1, 1 4 78 -6.985e-009 -3.166e-008 8.685e-003 -4.660e-003

4, 16 1, 1 4 78 2.328e-008 1.118e-007 1.726e-002 3.913e-003

4, 17 1, 1 4 78 0.000e+000 1.863e-009 7.674e-003 -5.671e-003

4, 18 1, 1 4 78 7.683e-009 3.539e-008 2.234e-003 -1.111e-002

4, 20 1, 1 4 78 -1.863e-009 -1.863e-008 1.550e-003 -1.179e-002

4, 21 1, 1 4 78 1.956e-008 1.453e-007 4.221e-002 2.886e-002

4, 22 1, 1 4 78 1.898e-008 1.555e-007 1.910e-003 -1.143e-002

4, 23 1, 1 4 78 1.490e-008 8.196e-008 7.003e-003 -6.342e-003

4, 24 1, 1 4 78 0.000e+000 1.863e-009 7.080e-003 -6.265e-003

4, 25 1, 1 4 78 6.519e-009 2.980e-008 3.097e-002 1.763e-002

4, 26 1, 1 4 78 2.910e-011 2.328e-010 1.135e-004 -1.323e-002

4, 28 1, 1 4 78 2.270e-008 1.041e-007 2.091e-004 -1.314e-002

4, 29 1, 1 4 78 2.282e-008 1.118e-007 6.564e-003 -6.781e-003

4, 30 1, 1 4 78 1.909e-008 1.453e-007 1.148e-002 -1.867e-003

4, 31 1, 1 4 78 0.000e+000 0.000e+000 2.420e-002 1.086e-002

4, 33 1, 1 4 78 -5.821e-011 -2.328e-010 2.041e-004 -1.314e-002

4, 34 1, 1 4 78 2.328e-008 1.099e-007 9.946e-003 -3.399e-003

4, 35 1, 1 4 78 2.282e-008 1.071e-007 1.079e-003 -1.227e-002

4, 36 1, 1 4 78 -4.657e-010 -4.657e-009 2.994e-003 -1.035e-002

4, 38 1, 1 4 78 3.813e-009 2.980e-008 1.078e-004 -1.324e-002

4, 39 1, 1 4 78 -7.538e-009 -3.364e-008 1.383e-005 -1.333e-002

4, 42 1, 1 4 78 -7.451e-009 -4.191e-008 1.319e-003 -1.203e-002

4, 44 1, 1 4 78 7.552e-009 4.069e-008 1.285e-005 -1.333e-002

4, 46 1, 1 4 78 2.142e-008 1.006e-007 5.110e-002 3.775e-002

4, 47 1, 1 4 78 -6.985e-009 -3.353e-008 1.328e-002 -6.767e-005

4, 48 1, 1 4 78 1.513e-008 9.313e-008 4.682e-003 -8.662e-003

4, 49 1, 1 4 78 8.382e-009 3.725e-008 2.445e-002 1.111e-002

4, 54 1, 1 4 78 1.886e-008 1.788e-007 1.310e-002 -2.478e-004

4, 55 1, 1 4 78 2.328e-010 -1.863e-009 3.998e-003 -9.346e-003

4, 56 1, 1 4 78 7.392e-009 3.772e-008 3.216e-004 -1.302e-002

4, 59 1, 1 4 78 -7.582e-009 -3.906e-008 6.641e-006 -1.334e-002

4, 60 1, 1 4 77 2.189e-008 1.136e-007 1.306e-002 -4.641e-004

4, 62 1, 1 4 78 7.334e-009 3.120e-008 5.602e-004 -1.278e-002

4, 64 1, 1 4 78 7.451e-009 3.353e-008 1.263e-002 -7.099e-004

4, 65 1, 1 4 78 -6.985e-009 -3.725e-008 1.823e-002 4.884e-003

4, 66 1, 1 4 78 7.683e-009 3.353e-008 4.805e-003 -8.539e-003

4, 67 1, 1 4 78 7.451e-009 3.725e-008 3.956e-002 2.621e-002

4, 68 1, 1 4 78 -7.509e-009 -3.632e-008 2.310e-004 -1.311e-002

4, 70 1, 1 4 78 1.508e-008 7.963e-008 2.814e-004 -1.306e-002

4, 71 1, 1 4 78 7.683e-009 3.725e-008 5.676e-003 -7.669e-003

4, 72 1, 1 4 78 1.397e-008 7.823e-008 3.824e-002 2.490e-002

4, 73 1, 1 4 77 2.258e-008 1.211e-007 4.222e-003 -9.303e-003

4, 74 1, 1 4 78 -6.985e-009 -2.980e-008 1.930e-002 5.952e-003

4, 76 1, 1 4 78 -7.683e-009 -3.166e-008 1.170e-003 -1.218e-002

4, 77 1, 1 4 78 0.000e+000 0.000e+000 8.273e-003 -5.072e-003

4, 78 1, 1 4 78 7.567e-009 3.725e-008 2.212e-004 -1.312e-002

4, 81 1, 1 4 78 1.490e-008 9.313e-008 1.199e-002 -1.358e-003

4, 82 1, 1 4 78 7.567e-009 3.516e-008 1.962e-004 -1.315e-002

4, 83 1, 1 4 77 1.304e-008 5.215e-008 2.614e-002 1.262e-002

4, 85 1, 1 4 78 1.490e-008 8.196e-008 6.630e-002 5.295e-002

4, 86 1, 1 4 78 -7.218e-009 -3.912e-008 2.472e-003 -1.087e-002

4, 88 1, 1 4 78 1.676e-008 6.706e-008 6.553e-002 5.219e-002

6, 7 1, 1 4 78 0.000e+000 -3.725e-009 1.998e-002 6.636e-003

6, 8 1, 1 4 78 -7.451e-009 -6.333e-008 3.589e-003 -9.756e-003

6, 9 1, 1 4 76 -2.235e-008 -1.341e-007 5.599e-002 4.228e-002

6, 11 1, 1 4 77 -7.451e-009 -6.333e-008 3.650e-002 2.297e-002

6, 12 1, 1 4 78 -1.513e-008 -9.779e-008 1.780e-003 -1.156e-002

6, 13 1, 1 4 78 -1.118e-008 -1.229e-007 3.012e-002 1.678e-002

6, 14 1, 1 4 78 3.725e-009 3.353e-008 1.059e-002 -2.758e-003

6, 15 1, 1 4 78 -1.513e-008 -8.848e-008 3.366e-003 -9.979e-003

6, 16 1, 1 4 78 1.490e-008 8.754e-008 1.115e-002 -2.198e-003

6, 17 1, 1 4 78 -7.916e-009 -5.215e-008 4.284e-002 2.949e-002

6, 18 1, 1 4 78 -1.164e-010 -9.313e-010 1.207e-003 -1.214e-002

6, 20 1, 1 4 78 -9.430e-009 -1.173e-007 5.132e-003 -8.213e-003

6, 21 1, 1 4 78 1.024e-008 1.006e-007 3.136e-002 1.801e-002

6, 22 1, 1 4 78 1.141e-008 1.211e-007 1.549e-002 2.146e-003

6, 23 1, 1 4 78 7.218e-009 5.215e-008 1.122e-002 -2.125e-003

6, 24 1, 1 4 78 -7.800e-009 -5.029e-008 1.961e-003 -1.138e-002

6, 25 1, 1 4 78 -2.328e-010 -1.863e-009 3.937e-003 -9.407e-003

6, 26 1, 1 4 78 -7.218e-009 -5.774e-008 1.023e-002 -3.113e-003

6, 28 1, 1 4 78 1.513e-008 8.801e-008 6.035e-004 -1.274e-002

6, 29 1, 1 4 78 1.513e-008 9.127e-008 5.460e-003 -7.885e-003

6, 30 1, 1 4 78 1.141e-008 1.099e-007 1.319e-002 -1.509e-004

6, 31 1, 1 4 78 -7.538e-009 -6.112e-008 1.637e-005 -1.333e-002

6, 33 1, 1 4 78 -7.218e-009 -4.843e-008 8.381e-003 -4.964e-003

6, 34 1, 1 4 78 1.537e-008 8.568e-008 2.232e-002 8.978e-003

6, 35 1, 1 4 78 1.508e-008 8.987e-008 2.667e-004 -1.308e-002

6, 36 1, 1 4 78 -7.625e-009 -6.240e-008 2.655e-004 -1.308e-002

6, 38 1, 1 4 78 -3.725e-009 -3.353e-008 9.717e-003 -3.628e-003

6, 39 1, 1 4 78 -1.490e-008 -8.382e-008 2.880e-003 -1.046e-002

6, 42 1, 1 4 78 -1.513e-008 -1.108e-007 1.453e-003 -1.189e-002

6, 44 1, 1 4 78 0.000e+000 0.000e+000 5.862e-003 -7.483e-003

6, 46 1, 1 4 78 1.490e-008 9.313e-008 1.168e-002 -1.669e-003

6, 47 1, 1 4 78 -1.583e-008 -9.872e-008 1.284e-002 -5.035e-004

6, 48 1, 1 4 78 7.547e-009 6.040e-008 2.787e-014 -1.334e-002

6, 49 1, 1 4 78 0.000e+000 0.000e+000 2.083e-002 7.482e-003

6, 54 1, 1 4 78 1.118e-008 1.416e-007 7.499e-002 6.164e-002

6, 55 1, 1 4 78 -7.567e-009 -5.681e-008 1.140e-003 -1.220e-002

6, 56 1, 1 4 78 0.000e+000 -4.657e-010 3.785e-004 -1.297e-002

6, 59 1, 1 4 78 -1.508e-008 -9.732e-008 5.984e-004 -1.275e-002

6, 60 1, 1 4 77 7.509e-009 4.889e-008 8.925e-005 -1.344e-002

6, 62 1, 1 4 78 -4.657e-010 -1.863e-009 1.403e-002 6.897e-004

6, 64 1, 1 4 78 -2.910e-011 -2.328e-010 7.097e-005 -1.327e-002

6, 65 1, 1 4 78 -1.583e-008 -1.006e-007 5.762e-002 4.427e-002

6, 66 1, 1 4 78 0.000e+000 0.000e+000 2.055e-003 -1.129e-002

6, 67 1, 1 4 78 0.000e+000 0.000e+000 1.269e-002 -6.542e-004

6, 68 1, 1 4 78 -1.537e-008 -9.313e-008 7.233e-003 -6.112e-003

6, 70 1, 1 4 78 7.567e-009 5.087e-008 4.496e-005 -1.330e-002

6, 71 1, 1 4 78 -4.657e-010 -5.588e-009 1.185e-002 -1.499e-003

6, 72 1, 1 4 78 7.538e-009 5.285e-008 1.104e-004 -1.323e-002

6, 73 1, 1 4 77 7.567e-009 5.122e-008 2.597e-003 -1.093e-002

6, 74 1, 1 4 78 -1.397e-008 -7.451e-008 4.940e-002 3.605e-002

6, 76 1, 1 4 78 -1.490e-008 -7.451e-008 4.647e-002 3.313e-002

6, 77 1, 1 4 78 -8.149e-009 -5.774e-008 4.868e-003 -8.477e-003

6, 78 1, 1 4 78 2.328e-010 2.794e-009 3.554e-003 -9.791e-003

6, 81 1, 1 4 78 6.985e-009 5.774e-008 1.080e-002 -2.543e-003

6, 82 1, 1 4 78 0.000e+000 0.000e+000 3.143e-004 -1.303e-002

6, 83 1, 1 4 77 0.000e+000 -1.863e-009 1.013e-002 -3.400e-003

6, 85 1, 1 4 78 7.538e-009 5.122e-008 1.023e-004 -1.324e-002

6, 86 1, 1 4 78 -1.490e-008 -1.006e-007 1.137e-003 -1.221e-002

6, 88 1, 1 4 78 7.683e-009 4.470e-008 3.605e-003 -9.740e-003

7, 8 1, 1 4 78 -8.382e-009 -5.960e-008 1.789e-002 4.549e-003

7, 9 1, 1 4 76 -1.537e-008 -6.892e-008 1.240e-002 -1.314e-003

7, 11 1, 1 4 77 7.916e-009 5.495e-008 3.157e-003 -1.037e-002

7, 12 1, 1 4 78 -1.502e-008 -7.520e-008 1.188e-004 -1.323e-002

7, 13 1, 1 4 78 -1.129e-008 -9.406e-008 3.217e-004 -1.302e-002

7, 14 1, 1 4 78 3.842e-009 2.701e-008 1.658e-003 -1.169e-002

7, 15 1, 1 4 78 -1.676e-008 -7.451e-008 5.397e-002 4.062e-002

7, 16 1, 1 4 78 1.397e-008 6.333e-008 3.278e-002 1.944e-002

7, 17 1, 1 4 78 -7.538e-009 -4.325e-008 8.206e-006 -1.334e-002

7, 18 1, 1 4 78 0.000e+000 9.313e-010 1.754e-003 -1.159e-002

7, 20 1, 1 4 78 -9.546e-009 -9.499e-008 1.343e-002 8.160e-005

7, 21 1, 1 4 78 1.131e-008 8.394e-008 3.822e-005 -1.331e-002

7, 22 1, 1 4 78 1.129e-008 9.127e-008 2.075e-003 -1.127e-002

7, 23 1, 1 4 78 6.985e-009 3.725e-008 1.179e-002 -1.556e-003

7, 24 1, 1 4 78 -8.382e-009 -4.098e-008 1.999e-002 6.646e-003

7, 25 1, 1 4 78 0.000e+000 -1.863e-009 5.683e-003 -7.662e-003

7, 26 1, 1 4 78 -6.985e-009 -4.843e-008 2.524e-002 1.190e-002

7, 28 1, 1 4 78 1.516e-008 6.810e-008 3.568e-005 -1.331e-002

7, 29 1, 1 4 78 1.560e-008 7.264e-008 4.284e-003 -9.061e-003

7, 30 1, 1 4 78 1.118e-008 8.196e-008 2.276e-002 9.411e-003

7, 31 1, 1 4 78 -7.552e-009 -4.750e-008 1.748e-005 -1.333e-002

7, 33 1, 1 4 78 -7.451e-009 -3.725e-008 2.431e-002 1.097e-002

7, 34 1, 1 4 78 1.537e-008 6.706e-008 1.810e-002 4.752e-003

7, 35 1, 1 4 78 1.513e-008 6.985e-008 1.356e-003 -1.199e-002

7, 36 1, 1 4 78 -7.451e-009 -4.470e-008 7.268e-003 -6.077e-003

7, 38 1, 1 4 78 -3.958e-009 -2.980e-008 1.271e-003 -1.207e-002

7, 39 1, 1 4 78 -1.513e-008 -6.612e-008 7.291e-004 -1.262e-002

7, 42 1, 1 4 78 -1.444e-008 -8.196e-008 7.770e-003 -5.575e-003

7, 44 1, 1 4 78 -4.657e-010 -1.863e-009 1.558e-002 2.240e-003

7, 46 1, 1 4 78 1.490e-008 7.078e-008 2.694e-003 -1.065e-002

7, 47 1, 1 4 78 -1.525e-008 -7.451e-008 9.550e-004 -1.239e-002

7, 48 1, 1 4 78 7.451e-009 4.098e-008 3.533e-002 2.198e-002

7, 49 1, 1 4 78 1.397e-009 7.451e-009 1.634e-002 2.996e-003

7, 54 1, 1 4 78 1.118e-008 1.043e-007 3.976e-003 -9.369e-003

7, 55 1, 1 4 78 -7.683e-009 -4.377e-008 2.256e-003 -1.109e-002

7, 56 1, 1 4 78 4.657e-010 3.725e-009 1.223e-002 -1.118e-003

7, 59 1, 1 4 78 -1.560e-008 -7.823e-008 5.375e-003 -7.970e-003

7, 60 1, 1 4 77 2.270e-008 1.164e-007 1.298e-003 -1.223e-002

7, 62 1, 1 4 78 0.000e+000 0.000e+000 1.499e-002 1.643e-003

7, 64 1, 1 4 78 0.000e+000 3.725e-009 3.237e-002 1.902e-002

7, 65 1, 1 4 78 -1.537e-008 -7.078e-008 1.408e-002 7.372e-004

7, 66 1, 1 4 78 -5.588e-009 -2.235e-008 1.721e-001 1.587e-001

7, 67 1, 1 4 78 4.657e-010 1.863e-009 5.689e-003 -7.656e-003

7, 68 1, 1 4 78 -1.513e-008 -7.078e-008 1.360e-003 -1.198e-002

7, 70 1, 1 4 78 7.509e-009 3.912e-008 4.801e-005 -1.330e-002

7, 71 1, 1 4 78 2.328e-010 0.000e+000 1.550e-003 -1.180e-002

7, 72 1, 1 4 78 7.451e-009 4.843e-008 6.059e-002 4.724e-002

7, 73 1, 1 4 77 2.421e-008 1.304e-007 4.414e-002 3.061e-002

7, 74 1, 1 4 78 -1.525e-008 -7.031e-008 8.464e-004 -1.250e-002

7, 76 1, 1 4 78 -1.537e-008 -6.147e-008 1.395e-002 6.028e-004

7, 77 1, 1 4 78 -7.625e-009 -4.168e-008 1.828e-004 -1.316e-002

7, 78 1, 1 4 78 -4.657e-010 0.000e+000 1.306e-002 -2.827e-004

7, 81 1, 1 4 78 7.567e-009 4.750e-008 1.802e-004 -1.316e-002

7, 82 1, 1 4 78 4.657e-010 1.863e-009 6.063e-003 -7.282e-003

7, 83 1, 1 4 77 1.490e-008 5.960e-008 1.964e-002 6.114e-003

7, 85 1, 1 4 78 7.552e-009 3.951e-008 7.586e-007 -1.334e-002

7, 86 1, 1 4 78 -1.490e-008 -7.823e-008 5.696e-002 4.361e-002

7, 88 1, 1 4 78 7.625e-009 3.353e-008 2.182e-004 -1.313e-002

8, 9 1, 1 4 76 -1.537e-008 -9.872e-008 1.112e-002 -2.593e-003

8, 11 1, 1 4 77 -1.513e-008 -1.434e-007 4.077e-004 -1.312e-002

8, 12 1, 1 4 78 -2.189e-008 -1.527e-007 3.893e-002 2.559e-002

8, 13 1, 1 4 78 -1.892e-008 -2.189e-007 6.238e-004 -1.272e-002

8, 14 1, 1 4 78 -3.725e-009 -3.446e-008 2.702e-003 -1.064e-002

8, 15 1, 1 4 78 -2.235e-008 -1.416e-007 4.895e-002 3.560e-002

8, 16 1, 1 4 78 7.916e-009 5.215e-008 2.376e-002 1.041e-002

8, 17 1, 1 4 78 -1.537e-008 -1.304e-007 2.675e-002 1.341e-002

8, 18 1, 1 4 78 -8.382e-009 -5.402e-008 1.288e-002 -4.601e-004

8, 20 1, 1 4 78 -1.630e-008 -2.198e-007 5.537e-002 4.203e-002

8, 21 1, 1 4 78 4.191e-009 4.098e-008 5.811e-002 4.477e-002

8, 22 1, 1 4 78 3.842e-009 4.331e-008 8.911e-004 -1.245e-002

8, 23 1, 1 4 78 0.000e+000 -4.657e-010 2.176e-004 -1.313e-002

8, 24 1, 1 4 78 -1.490e-008 -1.118e-007 9.096e-002 7.761e-002

8, 25 1, 1 4 78 -7.451e-009 -5.215e-008 2.753e-002 1.419e-002

8, 26 1, 1 4 78 -1.537e-008 -1.341e-007 4.102e-003 -9.243e-003

8, 28 1, 1 4 78 7.451e-009 4.843e-008 2.304e-002 9.700e-003

8, 29 1, 1 4 78 7.625e-009 4.959e-008 1.695e-004 -1.318e-002

8, 30 1, 1 4 78 3.842e-009 4.005e-008 7.590e-004 -1.259e-002

8, 31 1, 1 4 78 -1.444e-008 -1.229e-007 2.658e-002 1.323e-002

8, 33 1, 1 4 78 -1.537e-008 -1.118e-007 3.259e-002 1.925e-002

8, 34 1, 1 4 78 7.683e-009 4.657e-008 4.641e-003 -8.704e-003

8, 35 1, 1 4 78 7.451e-009 4.750e-008 5.033e-004 -1.284e-002

8, 36 1, 1 4 78 -1.537e-008 -1.341e-007 2.647e-002 1.312e-002

8, 38 1, 1 4 78 -1.118e-008 -1.192e-007 1.722e-002 3.872e-003

8, 39 1, 1 4 78 -2.258e-008 -1.388e-007 3.239e-003 -1.011e-002

8, 42 1, 1 4 78 -2.235e-008 -1.714e-007 1.638e-002 3.033e-003

8, 44 1, 1 4 78 -7.451e-009 -5.402e-008 8.657e-003 -4.688e-003

8, 46 1, 1 4 78 7.683e-009 5.029e-008 4.759e-003 -8.585e-003

8, 47 1, 1 4 78 -2.282e-008 -1.546e-007 5.757e-003 -7.588e-003

8, 48 1, 1 4 78 -1.164e-010 -1.863e-009 1.398e-003 -1.195e-002

8, 49 1, 1 4 78 -7.451e-009 -4.470e-008 7.403e-003 -5.942e-003

8, 54 1, 1 4 78 3.725e-009 4.843e-008 1.326e-003 -1.202e-002

8, 55 1, 1 4 78 -1.508e-008 -1.225e-007 8.927e-005 -1.326e-002

8, 56 1, 1 4 78 -7.451e-009 -5.215e-008 1.587e-002 2.528e-003

8, 59 1, 1 4 78 -2.282e-008 -1.602e-007 4.957e-003 -8.388e-003

8, 60 1, 1 4 77 -2.328e-010 -1.863e-009 6.066e-003 -7.459e-003

8, 62 1, 1 4 78 -7.538e-009 -4.435e-008 8.640e-006 -1.334e-002

8, 64 1, 1 4 78 -7.451e-009 -4.470e-008 2.420e-002 1.086e-002

8, 65 1, 1 4 78 -2.421e-008 -1.490e-007 7.802e-002 6.468e-002

8, 66 1, 1 4 78 -7.916e-009 -4.843e-008 1.675e-002 3.406e-003

8, 67 1, 1 4 78 -7.916e-009 -5.402e-008 8.342e-003 -5.003e-003

8, 68 1, 1 4 78 -2.189e-008 -1.416e-007 1.926e-002 5.915e-003

8, 70 1, 1 4 78 -9.313e-010 -3.725e-009 4.979e-002 3.644e-002

8, 71 1, 1 4 78 -6.519e-009 -3.725e-008 9.813e-002 8.478e-002

8, 72 1, 1 4 78 0.000e+000 0.000e+000 4.429e-002 3.094e-002

8, 73 1, 1 4 77 1.455e-011 2.328e-010 4.782e-005 -1.348e-002

8, 74 1, 1 4 78 -2.258e-008 -1.444e-007 2.842e-003 -1.050e-002

8, 76 1, 1 4 78 -2.258e-008 -1.262e-007 1.711e-004 -1.317e-002

8, 77 1, 1 4 78 -1.537e-008 -1.118e-007 1.837e-002 5.029e-003

8, 78 1, 1 4 78 -7.334e-009 -5.029e-008 1.147e-003 -1.220e-002

8, 81 1, 1 4 78 0.000e+000 0.000e+000 3.495e-004 -1.300e-002

8, 82 1, 1 4 78 -6.519e-009 -4.470e-008 4.703e-002 3.368e-002

8, 83 1, 1 4 77 -7.451e-009 -4.470e-008 8.364e-003 -5.161e-003

8, 85 1, 1 4 78 4.657e-010 3.725e-009 1.653e-002 3.186e-003

8, 86 1, 1 4 78 -2.328e-008 -1.676e-007 4.981e-002 3.646e-002

8, 88 1, 1 4 78 -2.328e-010 -3.725e-009 4.334e-003 -9.011e-003

9, 11 1, 1 4 75 -7.451e-009 -5.215e-008 2.521e-002 1.131e-002

9, 12 1, 1 4 76 -3.073e-008 -1.453e-007 1.628e-002 2.573e-003

9, 13 1, 1 4 76 -1.510e-008 -1.212e-007 7.924e-006 -1.370e-002

9, 14 1, 1 4 76 -2.631e-008 -1.658e-007 8.597e-003 -5.113e-003

9, 15 1, 1 4 76 -2.980e-008 -1.285e-007 8.005e-003 -5.705e-003

9, 16 1, 1 4 76 -1.490e-008 -7.078e-008 3.098e-002 1.727e-002

9, 17 1, 1 4 76 -8.382e-009 -4.098e-008 4.436e-002 3.065e-002

9, 18 1, 1 4 76 -3.027e-008 -1.285e-007 9.070e-003 -4.640e-003

9, 20 1, 1 4 76 -9.546e-009 -8.568e-008 1.839e-003 -1.187e-002

9, 21 1, 1 4 76 -3.020e-008 -2.155e-007 1.566e-006 -1.371e-002

9, 22 1, 1 4 76 -1.141e-008 -8.568e-008 1.122e-002 -2.494e-003

9, 23 1, 1 4 76 -7.451e-009 -3.725e-008 4.481e-002 3.110e-002

9, 24 1, 1 4 76 -1.490e-008 -7.078e-008 1.132e-002 -2.394e-003

9, 25 1, 1 4 76 1.164e-010 9.313e-010 4.395e-004 -1.327e-002

9, 26 1, 1 4 76 -1.490e-008 -8.754e-008 3.563e-003 -1.015e-002

9, 28 1, 1 4 76 0.000e+000 0.000e+000 6.629e-004 -1.305e-002

9, 29 1, 1 4 76 0.000e+000 0.000e+000 9.891e-003 -3.820e-003

9, 30 1, 1 4 76 -3.050e-008 -2.179e-007 2.383e-003 -1.133e-002

9, 31 1, 1 4 76 -1.508e-008 -8.941e-008 3.959e-004 -1.331e-002

9, 33 1, 1 4 76 -1.513e-008 -7.544e-008 2.644e-003 -1.107e-002

9, 34 1, 1 4 76 -3.004e-008 -1.304e-007 4.275e-003 -9.435e-003

9, 35 1, 1 4 76 -1.513e-008 -6.706e-008 1.762e-003 -1.195e-002

9, 36 1, 1 4 76 -1.490e-008 -9.127e-008 1.315e-002 -5.622e-004

9, 38 1, 1 4 76 -7.567e-009 -5.402e-008 1.242e-003 -1.247e-002

9, 39 1, 1 4 76 -1.510e-008 -6.193e-008 3.312e-005 -1.368e-002

9, 42 1, 1 4 76 -6.985e-009 -3.353e-008 2.268e-002 8.965e-003

9, 44 1, 1 4 76 -9.313e-010 -7.451e-009 3.531e-002 2.160e-002

9, 46 1, 1 4 76 -3.120e-008 -1.453e-007 1.685e-002 3.136e-003

9, 47 1, 1 4 76 -1.583e-008 -7.451e-008 2.743e-002 1.372e-002

9, 48 1, 1 4 76 -1.583e-008 -8.941e-008 3.703e-002 2.332e-002

9, 49 1, 1 4 76 -1.490e-008 -5.960e-008 7.215e-003 -6.495e-003

9, 54 1, 1 4 76 -2.258e-008 -1.937e-007 2.074e-003 -1.164e-002

9, 55 1, 1 4 76 -2.282e-008 -1.248e-007 1.111e-002 -2.601e-003

9, 56 1, 1 4 76 2.328e-010 0.000e+000 2.848e-003 -1.086e-002

9, 59 1, 1 4 76 -1.676e-008 -7.823e-008 2.934e-002 1.563e-002

9, 60 1, 1 4 75 -2.282e-008 -1.080e-007 5.949e-003 -7.951e-003

9, 62 1, 1 4 76 -1.502e-008 -5.914e-008 6.311e-004 -1.308e-002

9, 64 1, 1 4 76 -1.583e-008 -6.706e-008 1.691e-002 3.197e-003

9, 65 1, 1 4 76 -1.863e-009 -1.490e-008 8.267e-002 6.896e-002

9, 66 1, 1 4 76 2.328e-010 9.313e-010 3.826e-003 -9.884e-003

9, 67 1, 1 4 76 -1.490e-008 -6.799e-008 1.995e-003 -1.172e-002

9, 68 1, 1 4 76 -3.073e-008 -1.341e-007 8.306e-003 -5.404e-003

9, 70 1, 1 4 76 0.000e+000 3.725e-009 3.755e-002 2.384e-002

9, 71 1, 1 4 76 4.657e-010 1.863e-009 4.181e-003 -9.529e-003

9, 72 1, 1 4 76 -1.490e-008 -7.544e-008 3.019e-003 -1.069e-002

9, 73 1, 1 4 75 9.313e-010 3.725e-009 1.071e-002 -3.186e-003

9, 74 1, 1 4 76 -2.328e-010 0.000e+000 1.526e-003 -1.218e-002

9, 76 1, 1 4 76 0.000e+000 0.000e+000 1.569e-001 1.432e-001

9, 77 1, 1 4 76 -6.985e-009 -2.980e-008 2.085e-002 7.142e-003

9, 78 1, 1 4 76 0.000e+000 0.000e+000 1.274e-002 -9.681e-004

9, 81 1, 1 4 76 -2.328e-010 -9.313e-010 1.621e-003 -1.209e-002

9, 82 1, 1 4 76 -2.980e-008 -1.267e-007 4.146e-003 -9.564e-003

9, 83 1, 1 4 75 -3.027e-008 -1.201e-007 1.399e-003 -1.250e-002

9, 85 1, 1 4 76 -1.444e-008 -7.451e-008 2.298e-002 9.274e-003

9, 86 1, 1 4 76 0.000e+000 0.000e+000 2.010e-002 6.386e-003

9, 88 1, 1 4 76 -3.015e-008 -1.306e-007 1.475e-004 -1.356e-002

11, 12 1, 1 4 77 -7.451e-009 -5.215e-008 2.107e-002 7.548e-003

11, 13 1, 1 4 77 -2.282e-008 -2.719e-007 2.313e-002 9.609e-003

11, 14 1, 1 4 77 -1.863e-008 -1.751e-007 4.971e-002 3.618e-002

11, 15 1, 1 4 77 -2.247e-008 -1.434e-007 7.769e-004 -1.275e-002

11, 16 1, 1 4 77 -7.683e-009 -5.402e-008 6.723e-003 -6.803e-003

11, 17 1, 1 4 77 -7.916e-009 -6.706e-008 3.762e-002 2.410e-002

11, 18 1, 1 4 77 -7.218e-009 -4.750e-008 2.767e-003 -1.076e-002

11, 20 1, 1 4 77 3.958e-009 5.215e-008 3.620e-002 2.267e-002

11, 21 1, 1 4 77 -2.270e-008 -2.403e-007 2.555e-003 -1.097e-002

11, 22 1, 1 4 77 -2.270e-008 -2.598e-007 3.001e-003 -1.052e-002

11, 23 1, 1 4 77 -1.164e-010 9.313e-010 2.407e-003 -1.112e-002

11, 24 1, 1 4 77 0.000e+000 -1.863e-009 4.641e-003 -8.884e-003

11, 25 1, 1 4 77 -2.328e-008 -1.695e-007 4.058e-003 -9.467e-003

11, 26 1, 1 4 77 -1.537e-008 -1.360e-007 9.701e-003 -3.824e-003

11, 28 1, 1 4 77 -7.538e-009 -4.796e-008 9.603e-005 -1.343e-002

11, 29 1, 1 4 77 -2.282e-008 -1.546e-007 5.493e-003 -8.032e-003

11, 30 1, 1 4 77 -2.258e-008 -2.384e-007 1.441e-002 8.882e-004

11, 31 1, 1 4 77 -1.513e-008 -1.341e-007 1.868e-002 5.154e-003

11, 33 1, 1 4 77 0.000e+000 0.000e+000 4.972e-002 3.620e-002

11, 34 1, 1 4 77 7.916e-009 5.215e-008 2.975e-003 -1.055e-002

11, 35 1, 1 4 77 -7.451e-009 -4.843e-008 1.153e-002 -2.000e-003

11, 36 1, 1 4 77 -7.567e-009 -6.799e-008 5.328e-004 -1.299e-002

11, 38 1, 1 4 77 -1.886e-008 -2.058e-007 2.810e-003 -1.071e-002

11, 39 1, 1 4 77 -2.258e-008 -1.388e-007 3.005e-003 -1.052e-002

11, 42 1, 1 4 77 7.451e-009 5.960e-008 1.180e-003 -1.234e-002

11, 44 1, 1 4 77 -7.538e-009 -5.681e-008 1.492e-004 -1.338e-002

11, 46 1, 1 4 77 -6.985e-009 -4.843e-008 2.190e-002 8.376e-003

11, 47 1, 1 4 77 -2.264e-008 -1.576e-007 1.720e-004 -1.335e-002

11, 48 1, 1 4 77 -7.552e-009 -6.671e-008 2.053e-005 -1.350e-002

11, 49 1, 1 4 77 -7.509e-009 -4.540e-008 1.419e-004 -1.338e-002

11, 54 1, 1 4 77 3.492e-009 4.470e-008 4.082e-002 2.730e-002

11, 55 1, 1 4 77 -7.567e-009 -6.286e-008 6.155e-004 -1.291e-002

11, 56 1, 1 4 77 -2.258e-008 -1.621e-007 1.496e-003 -1.203e-002

11, 59 1, 1 4 77 0.000e+000 0.000e+000 3.723e-003 -9.802e-003

11, 60 1, 1 4 76 -4.191e-009 -3.353e-008 4.619e-003 -9.091e-003

11, 62 1, 1 4 77 -7.451e-009 -5.215e-008 7.556e-002 6.203e-002

11, 64 1, 1 4 77 -2.235e-008 -1.416e-007 2.486e-002 1.133e-002

11, 65 1, 1 4 77 -2.235e-008 -1.490e-007 5.480e-003 -8.045e-003

11, 66 1, 1 4 77 7.567e-009 4.843e-008 4.388e-004 -1.309e-002

11, 67 1, 1 4 77 2.910e-011 2.328e-010 1.297e-004 -1.340e-002

11, 68 1, 1 4 77 -2.235e-008 -1.490e-007 1.081e-002 -2.714e-003

11, 70 1, 1 4 77 7.683e-009 5.774e-008 4.356e-003 -9.169e-003

11, 71 1, 1 4 77 -7.451e-009 -5.122e-008 6.078e-004 -1.292e-002

11, 72 1, 1 4 77 -2.328e-010 -1.863e-009 1.334e-003 -1.219e-002

11, 73 1, 1 4 76 1.164e-008 8.941e-008 4.826e-003 -8.884e-003

11, 74 1, 1 4 77 -2.189e-008 -1.397e-007 9.742e-003 -3.783e-003

11, 76 1, 1 4 77 -7.451e-009 -3.725e-008 2.194e-002 8.414e-003

11, 77 1, 1 4 77 7.683e-009 5.960e-008 5.175e-003 -8.350e-003

11, 78 1, 1 4 77 -2.235e-008 -1.565e-007 1.660e-002 3.079e-003

11, 81 1, 1 4 77 -7.451e-009 -6.519e-008 2.875e-003 -1.065e-002

11, 82 1, 1 4 77 -2.258e-008 -1.481e-007 1.240e-003 -1.229e-002

11, 83 1, 1 4 76 -1.863e-008 -1.080e-007 4.430e-002 3.059e-002

11, 85 1, 1 4 77 0.000e+000 -3.725e-009 1.783e-002 4.305e-003

11, 86 1, 1 4 77 -2.264e-008 -1.695e-007 1.976e-004 -1.333e-002

11, 88 1, 1 4 77 -1.513e-008 -9.686e-008 2.251e-003 -1.127e-002

12, 13 1, 1 4 78 -2.648e-008 -2.319e-007 3.588e-004 -1.299e-002

12, 14 1, 1 4 78 -1.132e-008 -8.123e-008 9.881e-015 -1.334e-002

12, 15 1, 1 4 78 -3.027e-008 -1.434e-007 1.059e-002 -2.759e-003

12, 16 1, 1 4 78 0.000e+000 -1.863e-009 7.541e-003 -5.804e-003

12, 17 1, 1 4 78 -2.270e-008 -1.369e-007 1.547e-003 -1.180e-002

12, 18 1, 1 4 78 -1.525e-008 -7.264e-008 4.217e-004 -1.292e-002

12, 20 1, 1 4 78 -2.375e-008 -2.459e-007 3.955e-002 2.620e-002

12, 21 1, 1 4 78 -3.842e-009 -3.027e-008 2.882e-004 -1.306e-002

12, 22 1, 1 4 78 -3.260e-009 -2.608e-008 2.166e-002 8.311e-003

12, 23 1, 1 4 78 -7.547e-009 -4.226e-008 2.090e-015 -1.334e-002

12, 24 1, 1 4 78 -2.258e-008 -1.173e-007 2.014e-003 -1.133e-002

12, 25 1, 1 4 78 -1.397e-008 -6.706e-008 2.787e-002 1.452e-002

12, 26 1, 1 4 78 -2.189e-008 -1.453e-007 3.481e-002 2.146e-002

12, 28 1, 1 4 78 0.000e+000 0.000e+000 1.051e-004 -1.324e-002

12, 29 1, 1 4 78 0.000e+000 0.000e+000 1.030e-001 8.966e-002

12, 30 1, 1 4 78 -3.260e-009 -2.608e-008 1.844e-002 5.099e-003

12, 31 1, 1 4 78 -2.235e-008 -1.490e-007 2.060e-002 7.252e-003

12, 33 1, 1 4 78 -2.258e-008 -1.239e-007 2.314e-003 -1.103e-002

12, 34 1, 1 4 78 0.000e+000 0.000e+000 4.405e-004 -1.290e-002

12, 35 1, 1 4 78 0.000e+000 -1.863e-009 8.986e-003 -4.359e-003

12, 36 1, 1 4 78 -2.235e-008 -1.490e-007 1.691e-002 3.568e-003

12, 38 1, 1 4 78 -1.863e-008 -1.527e-007 5.990e-002 4.656e-002

12, 39 1, 1 4 78 -3.027e-008 -1.404e-007 1.004e-004 -1.324e-002

12, 42 1, 1 4 78 -3.027e-008 -1.788e-007 2.006e-002 6.712e-003

12, 44 1, 1 4 78 -1.537e-008 -8.568e-008 3.642e-003 -9.703e-003

12, 46 1, 1 4 78 0.000e+000 0.000e+000 4.196e-003 -9.149e-003

12, 47 1, 1 4 78 -3.027e-008 -1.565e-007 3.117e-003 -1.023e-002

12, 48 1, 1 4 78 -7.218e-009 -4.657e-008 5.026e-003 -8.319e-003

12, 49 1, 1 4 78 -1.509e-008 -6.800e-008 9.887e-015 -1.334e-002

12, 54 1, 1 4 78 -3.725e-009 -3.586e-008 4.459e-004 -1.290e-002

12, 55 1, 1 4 78 -2.235e-008 -1.341e-007 2.143e-002 8.083e-003

12, 56 1, 1 4 78 -1.560e-008 -8.382e-008 4.762e-003 -8.583e-003

12, 59 1, 1 4 78 -3.073e-008 -1.658e-007 1.084e-002 -2.503e-003

12, 60 1, 1 4 77 6.985e-009 3.725e-008 7.071e-003 -6.454e-003

12, 62 1, 1 4 78 -1.583e-008 -7.078e-008 3.023e-002 1.689e-002

12, 64 1, 1 4 78 -1.513e-008 -6.892e-008 2.480e-003 -1.086e-002

12, 65 1, 1 4 78 -3.027e-008 -1.471e-007 2.762e-003 -1.058e-002

12, 66 1, 1 4 78 -1.467e-008 -6.985e-008 3.874e-003 -9.470e-003

12, 67 1, 1 4 78 -1.537e-008 -7.823e-008 1.267e-002 -6.755e-004

12, 68 1, 1 4 78 -2.887e-008 -1.416e-007 4.190e-002 2.856e-002

12, 70 1, 1 4 78 -5.588e-009 -2.235e-008 1.189e-001 1.056e-001

12, 71 1, 1 4 78 -1.583e-008 -8.196e-008 3.115e-002 1.780e-002

12, 72 1, 1 4 78 -7.625e-009 -4.377e-008 1.544e-004 -1.319e-002

12, 73 1, 1 4 77 7.451e-009 4.098e-008 1.429e-002 7.609e-004

12, 74 1, 1 4 78 -3.021e-008 -1.467e-007 1.105e-004 -1.323e-002

12, 76 1, 1 4 78 -2.980e-008 -1.267e-007 6.654e-002 5.320e-002

12, 77 1, 1 4 78 -2.282e-008 -1.304e-007 5.512e-003 -7.833e-003

12, 78 1, 1 4 78 -1.490e-008 -7.451e-008 1.003e-002 -3.313e-003

12, 81 1, 1 4 78 -7.451e-009 -4.843e-008 9.851e-003 -3.494e-003

12, 82 1, 1 4 78 -1.583e-008 -8.196e-008 4.844e-002 3.510e-002

12, 83 1, 1 4 77 9.313e-010 3.725e-009 2.990e-002 1.638e-002

12, 85 1, 1 4 78 -7.625e-009 -4.238e-008 1.430e-004 -1.320e-002

12, 86 1, 1 4 78 -3.073e-008 -1.695e-007 9.153e-003 -4.192e-003

12, 88 1, 1 4 78 -7.683e-009 -3.679e-008 4.114e-004 -1.293e-002

13, 14 1, 1 4 78 -7.916e-009 -8.941e-008 3.674e-002 2.339e-002

13, 15 1, 1 4 78 -2.515e-008 -2.012e-007 4.844e-002 3.510e-002

13, 16 1, 1 4 78 3.725e-009 3.166e-008 9.651e-003 -3.694e-003

13, 17 1, 1 4 78 -1.909e-008 -1.863e-007 1.675e-002 3.409e-003

13, 18 1, 1 4 78 -1.164e-008 -9.034e-008 1.142e-003 -1.220e-002

13, 20 1, 1 4 78 -2.119e-008 -3.502e-007 2.677e-002 1.342e-002

13, 21 1, 1 4 78 -4.657e-010 0.000e+000 9.442e-002 8.108e-002

13, 22 1, 1 4 78 1.164e-010 9.313e-010 3.665e-003 -9.680e-003

13, 23 1, 1 4 78 -4.191e-009 -3.725e-008 3.222e-002 1.887e-002

13, 24 1, 1 4 78 -1.956e-008 -1.714e-007 2.182e-002 8.473e-003

13, 25 1, 1 4 78 -1.257e-008 -1.080e-007 2.716e-002 1.382e-002

13, 26 1, 1 4 78 -1.886e-008 -2.049e-007 1.394e-002 5.973e-004

13, 28 1, 1 4 78 3.725e-009 2.980e-008 1.778e-003 -1.157e-002

13, 29 1, 1 4 78 3.725e-009 2.980e-008 3.417e-002 2.082e-002

13, 30 1, 1 4 78 5.821e-011 0.000e+000 7.803e-004 -1.256e-002

13, 31 1, 1 4 78 -1.886e-008 -2.049e-007 1.394e-002 5.973e-004

13, 33 1, 1 4 78 -1.886e-008 -1.728e-007 3.917e-004 -1.295e-002

13, 34 1, 1 4 78 3.958e-009 3.539e-008 1.260e-002 -7.464e-004

13, 35 1, 1 4 78 3.260e-009 2.235e-008 3.312e-002 1.977e-002

13, 36 1, 1 4 78 -1.886e-008 -2.105e-007 5.088e-003 -8.257e-003

13, 38 1, 1 4 78 -1.583e-008 -2.161e-007 8.275e-002 6.941e-002

13, 39 1, 1 4 78 -2.561e-008 -1.937e-007 2.718e-002 1.384e-002

13, 42 1, 1 4 78 -2.631e-008 -2.570e-007 1.358e-002 2.323e-004

13, 44 1, 1 4 78 -1.164e-008 -1.043e-007 6.164e-002 4.829e-002

13, 46 1, 1 4 78 3.725e-009 3.166e-008 6.391e-003 -6.954e-003

13, 47 1, 1 4 78 -2.608e-008 -2.198e-007 5.401e-003 -7.944e-003

13, 48 1, 1 4 78 -3.842e-009 -4.144e-008 5.444e-004 -1.280e-002

13, 49 1, 1 4 78 -1.118e-008 -7.823e-008 4.691e-002 3.357e-002

13, 54 1, 1 4 78 -1.164e-010 -1.863e-009 4.829e-003 -8.516e-003

13, 55 1, 1 4 78 -1.898e-008 -1.928e-007 1.918e-003 -1.143e-002

13, 56 1, 1 4 78 -1.187e-008 -1.062e-007 1.289e-002 -4.509e-004

13, 59 1, 1 4 78 -2.654e-008 -2.347e-007 7.339e-003 -6.006e-003

13, 60 1, 1 4 77 -7.683e-009 -6.892e-008 8.446e-003 -5.079e-003

13, 62 1, 1 4 78 -1.129e-008 -8.289e-008 5.685e-004 -1.278e-002

13, 64 1, 1 4 78 -1.164e-008 -8.568e-008 1.316e-002 -1.823e-004

13, 65 1, 1 4 78 -2.678e-008 -2.142e-007 1.466e-002 1.314e-003

13, 66 1, 1 4 78 -1.141e-008 -9.034e-008 6.557e-004 -1.269e-002

13, 67 1, 1 4 78 -1.141e-008 -9.779e-008 2.144e-003 -1.120e-002

13, 68 1, 1 4 78 -2.631e-008 -2.142e-007 1.540e-002 2.055e-003

13, 70 1, 1 4 78 -3.842e-009 -3.446e-008 1.532e-003 -1.181e-002

13, 71 1, 1 4 78 -1.164e-008 -9.313e-008 3.294e-002 1.960e-002

13, 72 1, 1 4 78 -3.842e-009 -3.818e-008 1.672e-003 -1.167e-002

13, 73 1, 1 4 77 -7.916e-009 -6.706e-008 7.392e-002 6.040e-002

13, 74 1, 1 4 78 -2.608e-008 -2.086e-007 4.787e-003 -8.558e-003

13, 76 1, 1 4 78 -2.654e-008 -1.844e-007 3.677e-003 -9.668e-003

13, 77 1, 1 4 78 -2.049e-008 -2.012e-007 1.343e-001 1.210e-001

13, 78 1, 1 4 78 -1.118e-008 -9.406e-008 3.018e-003 -1.033e-002

13, 81 1, 1 4 78 -3.492e-009 -3.725e-008 8.710e-003 -4.635e-003

13, 82 1, 1 4 78 -1.129e-008 -9.034e-008 2.677e-003 -1.067e-002

13, 83 1, 1 4 77 -1.537e-008 -1.118e-007 1.981e-002 6.286e-003

13, 85 1, 1 4 78 -3.725e-009 -3.353e-008 9.681e-003 -3.664e-003

13, 86 1, 1 4 78 -2.608e-008 -2.384e-007 2.478e-002 1.144e-002

13, 88 1, 1 4 78 -3.260e-009 -3.353e-008 4.706e-002 3.372e-002

14, 15 1, 1 4 78 -1.118e-008 -7.078e-008 2.011e-003 -1.133e-002

14, 16 1, 1 4 78 1.863e-008 1.267e-007 6.308e-003 -7.037e-003

14, 17 1, 1 4 78 -3.725e-009 -2.980e-008 7.347e-003 -5.998e-003

14, 18 1, 1 4 78 3.260e-009 2.235e-008 2.555e-002 1.220e-002

14, 20 1, 1 4 78 -5.122e-009 -7.078e-008 2.396e-002 1.061e-002

14, 21 1, 1 4 78 1.490e-008 1.527e-007 3.422e-002 2.088e-002

14, 22 1, 1 4 78 1.513e-008 1.751e-007 1.587e-002 2.530e-003

14, 23 1, 1 4 78 1.118e-008 8.941e-008 1.845e-002 5.108e-003

14, 24 1, 1 4 78 -3.958e-009 -2.794e-008 9.568e-003 -3.777e-003

14, 25 1, 1 4 78 3.958e-009 2.794e-008 8.752e-003 -4.593e-003

14, 26 1, 1 4 78 -3.958e-009 -3.539e-008 1.150e-002 -1.845e-003

14, 28 1, 1 4 78 1.886e-008 1.201e-007 1.123e-003 -1.222e-002

14, 29 1, 1 4 78 1.863e-008 1.248e-007 1.398e-002 6.365e-004

14, 30 1, 1 4 78 1.513e-008 1.583e-007 1.352e-002 1.760e-004

14, 31 1, 1 4 78 -3.725e-009 -2.980e-008 2.733e-002 1.399e-002

14, 33 1, 1 4 78 -3.609e-009 -2.794e-008 1.697e-003 -1.165e-002

14, 34 1, 1 4 78 1.886e-008 1.267e-007 5.404e-003 -7.941e-003

14, 35 1, 1 4 78 1.863e-008 1.229e-007 3.293e-003 -1.005e-002

14, 36 1, 1 4 78 -4.191e-009 -3.725e-008 2.340e-002 1.005e-002

14, 38 1, 1 4 78 4.657e-010 7.451e-009 4.740e-002 3.406e-002

14, 39 1, 1 4 78 -1.129e-008 -7.055e-008 9.732e-006 -1.334e-002

14, 42 1, 1 4 78 -1.118e-008 -9.127e-008 3.378e-003 -9.967e-003

14, 44 1, 1 4 78 3.725e-009 2.794e-008 9.183e-003 -4.162e-003

14, 46 1, 1 4 78 1.863e-008 1.267e-007 7.935e-003 -5.410e-003

14, 47 1, 1 4 78 -1.118e-008 -8.568e-008 2.447e-002 1.113e-002

14, 48 1, 1 4 78 1.129e-008 9.965e-008 3.294e-003 -1.005e-002

14, 49 1, 1 4 78 3.725e-009 2.235e-008 3.873e-003 -9.472e-003

14, 54 1, 1 4 78 1.537e-008 2.012e-007 3.151e-002 1.816e-002

14, 55 1, 1 4 78 -3.842e-009 -3.166e-008 1.099e-003 -1.225e-002

14, 56 1, 1 4 78 3.783e-009 2.712e-008 1.282e-005 -1.333e-002

14, 59 1, 1 4 78 -1.164e-008 -8.196e-008 4.749e-002 3.415e-002

14, 60 1, 1 4 77 -3.725e-009 -2.608e-008 2.326e-002 9.737e-003

14, 62 1, 1 4 78 4.657e-009 2.980e-008 1.558e-002 2.234e-003

14, 64 1, 1 4 78 4.191e-009 2.794e-008 9.847e-003 -3.497e-003

14, 65 1, 1 4 78 -1.118e-008 -7.078e-008 1.097e-002 -2.378e-003

14, 66 1, 1 4 78 3.260e-009 2.235e-008 1.467e-002 1.326e-003

14, 67 1, 1 4 78 3.958e-009 2.608e-008 8.624e-003 -4.721e-003

14, 68 1, 1 4 78 -1.164e-008 -7.823e-008 2.592e-002 1.258e-002

14, 70 1, 1 4 78 1.118e-008 8.009e-008 1.234e-002 -1.008e-003

14, 71 1, 1 4 78 3.958e-009 2.608e-008 5.201e-003 -8.144e-003

14, 72 1, 1 4 78 1.164e-008 8.941e-008 5.209e-002 3.874e-002

14, 73 1, 1 4 77 -3.725e-009 -2.608e-008 4.851e-003 -8.674e-003

14, 74 1, 1 4 78 -1.112e-008 -7.404e-008 5.248e-004 -1.282e-002

14, 76 1, 1 4 78 -1.164e-008 -6.706e-008 6.919e-003 -6.426e-003

14, 77 1, 1 4 78 -3.725e-009 -3.166e-008 1.082e-002 -2.525e-003

14, 78 1, 1 4 78 3.609e-009 2.515e-008 1.729e-003 -1.162e-002

14, 81 1, 1 4 78 1.132e-008 1.001e-007 5.329e-014 -1.334e-002

14, 82 1, 1 4 78 4.657e-009 2.608e-008 1.704e-002 3.692e-003

14, 83 1, 1 4 77 -1.118e-008 -8.196e-008 6.844e-002 5.491e-002

14, 85 1, 1 4 78 1.135e-008 8.522e-008 4.991e-004 -1.285e-002

14, 86 1, 1 4 78 -1.112e-008 -8.289e-008 6.793e-004 -1.267e-002

14, 88 1, 1 4 78 1.141e-008 7.451e-008 5.274e-003 -8.071e-003

15, 16 1, 1 4 78 0.000e+000 0.000e+000 2.729e-003 -1.062e-002

15, 17 1, 1 4 78 -2.142e-008 -1.118e-007 3.185e-002 1.851e-002

15, 18 1, 1 4 78 -1.490e-008 -6.147e-008 1.151e-002 -1.832e-003

15, 20 1, 1 4 78 -2.445e-008 -2.226e-007 2.513e-003 -1.083e-002

15, 21 1, 1 4 78 -3.783e-009 -2.654e-008 8.719e-005 -1.326e-002

15, 22 1, 1 4 78 -3.842e-009 -2.887e-008 1.537e-003 -1.181e-002

15, 23 1, 1 4 78 -7.451e-009 -3.912e-008 1.562e-002 2.278e-003

15, 24 1, 1 4 78 -2.328e-008 -1.043e-007 7.166e-002 5.832e-002

15, 25 1, 1 4 78 -1.583e-008 -7.823e-008 3.630e-002 2.295e-002

15, 26 1, 1 4 78 -2.235e-008 -1.341e-007 6.381e-002 5.046e-002

15, 28 1, 1 4 78 5.821e-011 2.910e-010 1.242e-005 -1.333e-002

15, 29 1, 1 4 78 -9.313e-010 -3.725e-009 1.933e-002 5.981e-003

15, 30 1, 1 4 78 -3.725e-009 -2.608e-008 6.675e-003 -6.669e-003

15, 31 1, 1 4 78 -2.276e-008 -1.350e-007 2.814e-004 -1.306e-002

15, 33 1, 1 4 78 -2.282e-008 -1.127e-007 3.744e-003 -9.601e-003

15, 34 1, 1 4 78 0.000e+000 0.000e+000 1.840e-002 5.055e-003

15, 35 1, 1 4 78 0.000e+000 0.000e+000 2.497e-003 -1.085e-002

15, 36 1, 1 4 78 -2.282e-008 -1.341e-007 5.552e-003 -7.793e-003

15, 38 1, 1 4 78 -1.886e-008 -1.361e-007 5.779e-006 -1.334e-002

15, 39 1, 1 4 78 -2.980e-008 -1.229e-007 1.607e-002 2.722e-003

15, 42 1, 1 4 78 -3.027e-008 -1.611e-007 1.881e-003 -1.146e-002

15, 44 1, 1 4 78 -1.509e-008 -7.522e-008 6.886e-007 -1.334e-002

15, 46 1, 1 4 78 0.000e+000 0.000e+000 6.075e-003 -7.270e-003

15, 47 1, 1 4 78 -3.073e-008 -1.453e-007 1.011e-002 -3.232e-003

15, 48 1, 1 4 78 -7.451e-009 -4.470e-008 3.148e-002 1.814e-002

15, 49 1, 1 4 78 -1.490e-008 -5.960e-008 4.676e-003 -8.669e-003

15, 54 1, 1 4 78 -4.191e-009 -3.725e-008 2.368e-002 1.034e-002

15, 55 1, 1 4 78 -2.258e-008 -1.246e-007 2.143e-004 -1.313e-002

15, 56 1, 1 4 78 -1.490e-008 -6.706e-008 5.516e-002 4.181e-002

15, 59 1, 1 4 78 -3.004e-008 -1.425e-007 3.012e-003 -1.033e-002

15, 60 1, 1 4 77 -7.567e-009 -3.539e-008 1.302e-003 -1.222e-002

15, 62 1, 1 4 78 -1.513e-008 -6.147e-008 1.588e-003 -1.176e-002

15, 64 1, 1 4 78 -1.537e-008 -6.519e-008 1.127e-002 -2.078e-003

15, 65 1, 1 4 78 -3.027e-008 -1.304e-007 1.509e-002 1.749e-003

15, 66 1, 1 4 78 -1.490e-008 -5.960e-008 7.620e-002 6.285e-002

15, 67 1, 1 4 78 -1.513e-008 -6.985e-008 3.738e-003 -9.607e-003

15, 68 1, 1 4 78 -2.980e-008 -1.416e-007 6.954e-002 5.619e-002

15, 70 1, 1 4 78 -8.382e-009 -4.098e-008 4.801e-002 3.467e-002

15, 71 1, 1 4 78 -1.490e-008 -6.799e-008 2.211e-003 -1.113e-002

15, 72 1, 1 4 78 -7.567e-009 -3.865e-008 4.561e-004 -1.289e-002

15, 73 1, 1 4 77 -7.451e-009 -3.725e-008 4.115e-002 2.762e-002

15, 74 1, 1 4 78 -3.050e-008 -1.322e-007 4.421e-003 -8.924e-003

15, 76 1, 1 4 78 -3.015e-008 -1.146e-007 1.966e-005 -1.333e-002

15, 77 1, 1 4 78 -2.328e-008 -1.229e-007 3.192e-002 1.858e-002

15, 78 1, 1 4 78 -1.304e-008 -5.960e-008 6.609e-002 5.275e-002

15, 81 1, 1 4 78 -7.916e-009 -4.470e-008 2.570e-003 -1.078e-002

15, 82 1, 1 4 78 -1.508e-008 -6.543e-008 1.168e-004 -1.323e-002

15, 83 1, 1 4 77 -1.513e-008 -5.960e-008 3.056e-003 -1.047e-002

15, 85 1, 1 4 78 -7.218e-009 -3.353e-008 5.722e-003 -7.623e-003

15, 86 1, 1 4 78 -3.050e-008 -1.509e-007 1.899e-003 -1.145e-002

15, 88 1, 1 4 78 -8.382e-009 -3.539e-008 5.882e-003 -7.462e-003

16, 17 1, 1 4 78 7.509e-009 4.307e-008 1.302e-004 -1.321e-002

16, 18 1, 1 4 78 1.513e-008 6.764e-008 5.547e-005 -1.329e-002

16, 20 1, 1 4 78 5.588e-009 5.215e-008 3.792e-002 2.458e-002

16, 21 1, 1 4 78 2.561e-008 1.900e-007 2.846e-002 1.512e-002

16, 22 1, 1 4 78 2.631e-008 2.105e-007 5.989e-003 -7.356e-003

16, 23 1, 1 4 78 2.282e-008 1.267e-007 2.260e-002 9.255e-003

16, 24 1, 1 4 78 6.985e-009 3.166e-008 1.412e-002 7.765e-004

16, 25 1, 1 4 78 1.490e-008 7.078e-008 6.387e-003 -6.958e-003

16, 26 1, 1 4 78 7.916e-009 4.843e-008 3.472e-002 2.138e-002

16, 28 1, 1 4 78 3.015e-008 1.350e-007 3.883e-004 -1.296e-002

16, 29 1, 1 4 78 3.018e-008 1.406e-007 1.219e-005 -1.333e-002

16, 30 1, 1 4 78 2.654e-008 1.974e-007 5.279e-003 -8.066e-003

16, 31 1, 1 4 78 7.218e-009 4.470e-008 3.278e-003 -1.007e-002

16, 33 1, 1 4 78 8.382e-009 4.098e-008 1.228e-002 -1.069e-003

16, 34 1, 1 4 78 2.934e-008 1.341e-007 1.112e-002 -2.230e-003

16, 35 1, 1 4 78 3.021e-008 1.392e-007 2.955e-004 -1.305e-002

16, 36 1, 1 4 78 7.567e-009 4.796e-008 8.009e-004 -1.254e-002

16, 38 1, 1 4 78 1.131e-008 8.603e-008 4.020e-005 -1.330e-002

16, 39 1, 1 4 78 2.910e-011 1.164e-010 3.381e-005 -1.331e-002

16, 42 1, 1 4 78 1.164e-010 9.313e-010 9.788e-004 -1.237e-002

16, 44 1, 1 4 78 1.537e-008 8.196e-008 4.370e-003 -8.975e-003

16, 46 1, 1 4 78 3.073e-008 1.453e-007 4.226e-002 2.892e-002

16, 47 1, 1 4 78 -1.863e-009 -1.118e-008 2.393e-002 1.058e-002

16, 48 1, 1 4 78 2.258e-008 1.392e-007 7.151e-004 -1.263e-002

16, 49 1, 1 4 78 1.502e-008 6.333e-008 8.205e-004 -1.252e-002

16, 54 1, 1 4 78 2.666e-008 2.459e-007 2.254e-003 -1.109e-002

16, 55 1, 1 4 78 7.451e-009 4.470e-008 2.239e-002 9.042e-003

16, 56 1, 1 4 78 1.513e-008 7.590e-008 3.069e-004 -1.304e-002

16, 59 1, 1 4 78 0.000e+000 3.725e-009 2.244e-002 9.096e-003

16, 60 1, 1 4 77 7.451e-009 4.098e-008 1.659e-002 3.062e-003

16, 62 1, 1 4 78 1.490e-008 6.147e-008 5.260e-003 -8.085e-003

16, 64 1, 1 4 78 1.490e-008 6.519e-008 1.009e-002 -3.259e-003

16, 65 1, 1 4 78 1.455e-011 5.821e-011 9.302e-006 -1.334e-002

16, 66 1, 1 4 78 1.490e-008 6.706e-008 1.249e-002 -8.568e-004

16, 67 1, 1 4 78 1.513e-008 7.264e-008 4.320e-003 -9.025e-003

16, 68 1, 1 4 78 0.000e+000 -1.863e-009 7.390e-003 -5.955e-003

16, 70 1, 1 4 78 2.515e-008 1.304e-007 3.036e-002 1.702e-002

16, 71 1, 1 4 78 1.583e-008 7.451e-008 2.409e-002 1.075e-002

16, 72 1, 1 4 78 2.282e-008 1.173e-007 1.189e-002 -1.453e-003

16, 73 1, 1 4 77 7.451e-009 3.912e-008 1.255e-002 -9.769e-004

16, 74 1, 1 4 78 1.863e-009 7.451e-009 3.075e-002 1.741e-002

16, 76 1, 1 4 78 1.455e-011 8.731e-011 1.786e-006 -1.334e-002

16, 77 1, 1 4 78 7.916e-009 4.098e-008 2.439e-002 1.105e-002

16, 78 1, 1 4 78 1.490e-008 7.451e-008 6.006e-003 -7.339e-003

16, 81 1, 1 4 78 2.264e-008 1.404e-007 1.788e-004 -1.317e-002

16, 82 1, 1 4 78 1.513e-008 6.938e-008 2.549e-004 -1.309e-002

16, 83 1, 1 4 77 9.313e-010 7.451e-009 2.626e-002 1.274e-002

16, 85 1, 1 4 78 2.282e-008 1.173e-007 1.102e-002 -2.328e-003

16, 86 1, 1 4 78 -1.863e-009 -1.118e-008 2.745e-002 1.411e-002

16, 88 1, 1 4 78 2.235e-008 1.006e-007 3.974e-002 2.640e-002

17, 18 1, 1 4 78 -7.916e-009 -4.284e-008 1.224e-002 -1.105e-003

17, 20 1, 1 4 78 -1.700e-008 -1.974e-007 3.035e-004 -1.304e-002

17, 21 1, 1 4 78 3.725e-009 2.980e-008 4.586e-002 3.252e-002

17, 22 1, 1 4 78 3.783e-009 3.679e-008 3.740e-004 -1.297e-002

17, 23 1, 1 4 78 -2.794e-009 -2.235e-008 1.319e-001 1.185e-001

17, 24 1, 1 4 78 -1.508e-008 -8.882e-008 3.479e-005 -1.331e-002

17, 25 1, 1 4 78 -7.800e-009 -4.470e-008 1.232e-003 -1.211e-002

17, 26 1, 1 4 78 -1.537e-008 -1.192e-007 1.948e-002 6.132e-003

17, 28 1, 1 4 78 6.519e-009 3.725e-008 3.456e-002 2.121e-002

17, 29 1, 1 4 78 7.451e-009 4.191e-008 7.906e-004 -1.255e-002

17, 30 1, 1 4 78 3.783e-009 3.399e-008 3.185e-004 -1.303e-002

17, 31 1, 1 4 78 -1.537e-008 -1.155e-007 3.557e-002 2.222e-002

17, 33 1, 1 4 78 -1.513e-008 -9.406e-008 1.209e-003 -1.214e-002

17, 34 1, 1 4 78 7.218e-009 3.912e-008 6.397e-003 -6.947e-003

17, 35 1, 1 4 78 6.519e-009 3.725e-008 1.049e-002 -2.855e-003

17, 36 1, 1 4 78 -1.513e-008 -1.136e-007 4.673e-003 -8.672e-003

17, 38 1, 1 4 78 -1.094e-008 -1.006e-007 1.539e-002 2.045e-003

17, 39 1, 1 4 78 -2.142e-008 -1.118e-007 3.021e-002 1.686e-002

17, 42 1, 1 4 78 -2.235e-008 -1.527e-007 2.217e-002 8.822e-003

17, 44 1, 1 4 78 -8.382e-009 -4.843e-008 2.038e-002 7.033e-003

17, 46 1, 1 4 78 7.451e-009 4.470e-008 2.708e-002 1.374e-002

17, 47 1, 1 4 78 -2.258e-008 -1.332e-007 3.444e-003 -9.900e-003

17, 48 1, 1 4 78 5.551e-017 -8.882e-016 7.016e-015 -1.334e-002

17, 49 1, 1 4 78 -7.552e-009 -3.877e-008 6.567e-006 -1.334e-002

17, 54 1, 1 4 78 3.769e-009 4.179e-008 3.080e-005 -1.331e-002

17, 55 1, 1 4 78 -1.583e-008 -1.118e-007 8.427e-002 7.092e-002

17, 56 1, 1 4 78 -7.800e-009 -4.657e-008 1.316e-003 -1.203e-002

17, 59 1, 1 4 78 -2.328e-008 -1.416e-007 2.696e-002 1.362e-002

17, 60 1, 1 4 77 7.549e-009 4.575e-008 1.071e-006 -1.352e-002

17, 62 1, 1 4 78 -7.916e-009 -4.470e-008 2.021e-002 6.868e-003

17, 64 1, 1 4 78 -8.382e-009 -4.284e-008 1.450e-002 1.155e-003

17, 65 1, 1 4 78 -2.282e-008 -1.276e-007 2.755e-003 -1.059e-002

17, 66 1, 1 4 78 -6.519e-009 -3.353e-008 3.643e-002 2.308e-002

17, 67 1, 1 4 78 -7.451e-009 -4.377e-008 3.500e-003 -9.844e-003

17, 68 1, 1 4 78 -2.235e-008 -1.248e-007 7.216e-003 -6.129e-003

17, 70 1, 1 4 78 -5.821e-011 -4.657e-010 1.563e-004 -1.319e-002

17, 71 1, 1 4 78 -7.683e-009 -4.284e-008 8.076e-003 -5.269e-003

17, 72 1, 1 4 78 -2.328e-010 -1.863e-009 4.265e-003 -9.080e-003

17, 73 1, 1 4 77 7.451e-009 4.470e-008 4.988e-003 -8.537e-003

17, 74 1, 1 4 78 -2.258e-008 -1.229e-007 3.053e-003 -1.029e-002

17, 76 1, 1 4 78 -2.235e-008 -1.043e-007 3.847e-002 2.512e-002

17, 77 1, 1 4 78 -1.513e-008 -9.686e-008 7.710e-003 -5.634e-003

17, 78 1, 1 4 78 -7.451e-009 -4.284e-008 5.347e-003 -7.998e-003

17, 81 1, 1 4 78 0.000e+000 0.000e+000 2.347e-003 -1.100e-002

17, 82 1, 1 4 78 -7.916e-009 -4.470e-008 2.131e-002 7.969e-003

17, 83 1, 1 4 77 0.000e+000 0.000e+000 7.928e-004 -1.273e-002

17, 85 1, 1 4 78 0.000e+000 -1.490e-008 1.217e-001 1.084e-001

17, 86 1, 1 4 78 -2.189e-008 -1.378e-007 1.076e-002 -2.588e-003

17, 88 1, 1 4 78 2.328e-010 0.000e+000 1.819e-003 -1.153e-002

18, 20 1, 1 4 78 -8.382e-009 -7.451e-008 7.696e-002 6.362e-002

18, 21 1, 1 4 78 1.094e-008 7.451e-008 1.051e-002 -2.839e-003

18, 22 1, 1 4 78 1.118e-008 8.568e-008 7.365e-003 -5.980e-003

18, 23 1, 1 4 78 7.567e-009 3.749e-008 9.957e-005 -1.325e-002

18, 24 1, 1 4 78 -7.451e-009 -2.980e-008 1.351e-002 1.689e-004

18, 25 1, 1 4 78 0.000e+000 0.000e+000 6.800e-003 -6.545e-003

18, 26 1, 1 4 78 -7.916e-009 -5.215e-008 2.124e-002 7.892e-003

18, 28 1, 1 4 78 1.583e-008 6.706e-008 1.463e-002 1.290e-003

18, 29 1, 1 4 78 1.513e-008 6.799e-008 2.347e-003 -1.100e-002

18, 30 1, 1 4 78 1.135e-008 7.916e-008 1.357e-004 -1.321e-002

18, 31 1, 1 4 78 -7.451e-009 -4.284e-008 2.142e-003 -1.120e-002

18, 33 1, 1 4 78 -7.683e-009 -3.818e-008 3.629e-003 -9.716e-003

18, 34 1, 1 4 78 1.560e-008 6.706e-008 3.235e-003 -1.011e-002

18, 35 1, 1 4 78 1.513e-008 6.612e-008 1.697e-003 -1.165e-002

18, 36 1, 1 4 78 -7.334e-009 -4.470e-008 1.070e-003 -1.227e-002

18, 38 1, 1 4 78 -2.794e-009 -2.049e-008 1.298e-002 -3.607e-004

18, 39 1, 1 4 78 -1.490e-008 -6.147e-008 1.092e-002 -2.426e-003

18, 42 1, 1 4 78 -1.490e-008 -7.823e-008 1.200e-002 -1.347e-003

18, 44 1, 1 4 78 -2.328e-010 -1.863e-009 1.715e-003 -1.163e-002

18, 46 1, 1 4 78 1.537e-008 7.078e-008 1.091e-002 -2.436e-003

18, 47 1, 1 4 78 -1.583e-008 -7.451e-008 7.148e-002 5.813e-002

18, 48 1, 1 4 78 6.519e-009 3.725e-008 7.741e-002 6.407e-002

18, 49 1, 1 4 78 -9.313e-010 -3.725e-009 1.218e-002 -1.161e-003

18, 54 1, 1 4 78 1.131e-008 9.837e-008 3.358e-005 -1.331e-002

18, 55 1, 1 4 78 -7.451e-009 -4.098e-008 5.336e-002 4.002e-002

18, 56 1, 1 4 78 0.000e+000 -1.863e-009 1.346e-002 1.106e-004

18, 59 1, 1 4 78 -1.444e-008 -6.706e-008 1.200e-002 -1.345e-003

18, 60 1, 1 4 77 9.313e-009 4.470e-008 1.829e-001 1.694e-001

18, 62 1, 1 4 78 0.000e+000 0.000e+000 5.709e-003 -7.636e-003

18, 64 1, 1 4 78 0.000e+000 -3.725e-009 4.231e-002 2.897e-002

18, 65 1, 1 4 78 -1.525e-008 -6.566e-008 7.120e-004 -1.263e-002

18, 66 1, 1 4 78 0.000e+000 -1.863e-009 6.242e-003 -7.103e-003

18, 67 1, 1 4 78 1.164e-010 4.657e-010 4.676e-004 -1.288e-002

18, 68 1, 1 4 78 -1.676e-008 -7.451e-008 1.280e-001 1.147e-001

18, 70 1, 1 4 78 7.916e-009 3.725e-008 2.133e-002 7.984e-003

18, 71 1, 1 4 78 0.000e+000 0.000e+000 1.059e-002 -2.752e-003

18, 72 1, 1 4 78 8.382e-009 4.470e-008 2.820e-002 1.486e-002

18, 73 1, 1 4 77 7.683e-009 3.818e-008 1.730e-003 -1.179e-002

18, 74 1, 1 4 78 -1.490e-008 -6.333e-008 1.233e-002 -1.010e-003

18, 76 1, 1 4 78 -1.509e-008 -5.732e-008 3.995e-007 -1.334e-002

18, 77 1, 1 4 78 -7.218e-009 -3.632e-008 3.432e-003 -9.913e-003

18, 78 1, 1 4 78 -4.657e-010 -3.725e-009 9.256e-003 -4.089e-003

18, 81 1, 1 4 78 7.451e-009 4.470e-008 3.135e-002 1.800e-002

18, 82 1, 1 4 78 0.000e+000 0.000e+000 4.189e-005 -1.330e-002

18, 83 1, 1 4 77 -1.490e-008 -6.333e-008 7.952e-003 -5.573e-003

18, 85 1, 1 4 78 8.382e-009 4.470e-008 6.637e-002 5.303e-002

18, 86 1, 1 4 78 -1.525e-008 -7.451e-008 1.132e-003 -1.221e-002

18, 88 1, 1 4 78 7.451e-009 3.120e-008 6.991e-004 -1.265e-002

20, 21 1, 1 4 78 1.921e-009 2.794e-008 1.414e-003 -1.193e-002

20, 22 1, 1 4 78 1.630e-009 2.980e-008 2.928e-002 1.593e-002

20, 23 1, 1 4 78 -1.630e-009 -1.676e-008 1.153e-002 -1.816e-003

20, 24 1, 1 4 78 -1.653e-008 -1.602e-007 2.223e-002 8.888e-003

20, 25 1, 1 4 78 -9.546e-009 -9.406e-008 2.940e-003 -1.040e-002

20, 26 1, 1 4 78 -1.700e-008 -2.161e-007 1.956e-002 6.215e-003

20, 28 1, 1 4 78 5.588e-009 5.215e-008 1.238e-002 -9.681e-004

20, 29 1, 1 4 78 5.704e-009 5.309e-008 3.509e-003 -9.836e-003

20, 30 1, 1 4 78 1.921e-009 2.794e-008 1.414e-003 -1.193e-002

20, 31 1, 1 4 78 -1.700e-008 -2.161e-007 1.956e-002 6.215e-003

20, 33 1, 1 4 78 -1.676e-008 -1.825e-007 1.374e-002 3.916e-004

20, 34 1, 1 4 78 5.661e-009 5.262e-008 5.402e-006 -1.334e-002

20, 35 1, 1 4 78 4.657e-009 4.098e-008 3.749e-002 2.414e-002

20, 36 1, 1 4 78 -1.700e-008 -2.175e-007 3.687e-004 -1.298e-002

20, 38 1, 1 4 78 -1.292e-008 -2.012e-007 1.349e-002 1.475e-004

20, 39 1, 1 4 78 -2.445e-008 -2.170e-007 2.383e-003 -1.096e-002

20, 42 1, 1 4 78 -2.468e-008 -2.831e-007 1.647e-002 3.120e-003

20, 44 1, 1 4 78 -9.779e-009 -1.043e-007 3.208e-002 1.874e-002

20, 46 1, 1 4 78 5.588e-009 5.215e-008 8.097e-002 6.762e-002

20, 47 1, 1 4 78 -2.433e-008 -2.421e-007 4.794e-003 -8.551e-003

20, 48 1, 1 4 78 -1.746e-009 -2.049e-008 6.667e-003 -6.678e-003

20, 49 1, 1 4 78 -9.779e-009 -8.568e-008 2.220e-002 8.858e-003

20, 54 1, 1 4 78 1.746e-009 2.980e-008 1.059e-002 -2.760e-003

20, 55 1, 1 4 78 -1.700e-008 -1.974e-007 1.838e-002 5.036e-003

20, 56 1, 1 4 78 -9.459e-009 -9.639e-008 1.038e-004 -1.324e-002

20, 59 1, 1 4 78 -2.515e-008 -2.608e-007 3.499e-002 2.164e-002

20, 60 1, 1 4 77 1.886e-008 1.919e-007 2.466e-003 -1.106e-002

20, 62 1, 1 4 78 -9.546e-009 -8.196e-008 1.385e-002 5.015e-004

20, 64 1, 1 4 78 -8.848e-009 -7.823e-008 2.811e-002 1.476e-002

20, 65 1, 1 4 78 -2.433e-008 -2.272e-007 4.249e-003 -9.096e-003

20, 66 1, 1 4 78 -9.546e-009 -8.848e-008 1.906e-003 -1.144e-002

20, 67 1, 1 4 78 -9.371e-009 -9.313e-008 1.398e-003 -1.195e-002

20, 68 1, 1 4 78 -2.468e-008 -2.347e-007 4.409e-002 3.075e-002

20, 70 1, 1 4 78 -2.095e-009 -2.049e-008 8.990e-003 -4.355e-003

20, 71 1, 1 4 78 -9.546e-009 -9.406e-008 2.387e-003 -1.096e-002

20, 72 1, 1 4 78 -2.212e-009 -2.421e-008 5.937e-003 -7.408e-003

20, 73 1, 1 4 77 1.886e-008 2.012e-007 1.659e-002 3.060e-003

20, 74 1, 1 4 78 -2.421e-008 -2.198e-007 5.639e-002 4.304e-002

20, 76 1, 1 4 78 -2.456e-008 -2.002e-007 5.995e-004 -1.275e-002

20, 77 1, 1 4 78 -1.676e-008 -1.863e-007 7.511e-002 6.176e-002

20, 78 1, 1 4 78 -9.546e-009 -9.499e-008 1.400e-002 6.520e-004

20, 81 1, 1 4 78 -1.887e-009 -2.373e-008 1.178e-014 -1.334e-002

20, 82 1, 1 4 78 -9.459e-009 -8.801e-008 8.621e-005 -1.326e-002

20, 83 1, 1 4 77 1.164e-008 9.686e-008 5.004e-003 -8.521e-003

20, 85 1, 1 4 78 -1.863e-009 -2.049e-008 4.041e-003 -9.304e-003

20, 86 1, 1 4 78 -2.468e-008 -2.682e-007 4.052e-002 2.717e-002

20, 88 1, 1 4 78 -1.630e-009 -1.304e-008 7.284e-003 -6.060e-003

21, 22 1, 1 4 78 2.264e-008 2.850e-007 1.742e-003 -1.160e-002

21, 23 1, 1 4 78 1.956e-008 1.602e-007 1.967e-002 6.322e-003

21, 24 1, 1 4 78 3.958e-009 3.073e-008 1.363e-003 -1.198e-002

21, 25 1, 1 4 78 1.071e-008 8.196e-008 4.825e-002 3.491e-002

21, 26 1, 1 4 78 3.260e-009 3.353e-008 4.689e-002 3.354e-002

21, 28 1, 1 4 78 2.631e-008 1.844e-007 9.771e-003 -3.574e-003

21, 29 1, 1 4 78 2.643e-008 1.928e-007 8.484e-004 -1.250e-002

21, 30 1, 1 4 78 2.264e-008 2.626e-007 1.484e-003 -1.186e-002

21, 31 1, 1 4 78 3.725e-009 3.725e-008 1.019e-002 -3.156e-003

21, 33 1, 1 4 78 3.813e-009 3.166e-008 1.861e-004 -1.316e-002

21, 34 1, 1 4 78 2.608e-008 1.900e-007 1.874e-002 5.398e-003

21, 35 1, 1 4 78 2.608e-008 1.900e-007 1.855e-002 5.209e-003

21, 36 1, 1 4 78 3.725e-009 3.539e-008 1.171e-002 -1.640e-003

21, 38 1, 1 4 78 7.683e-009 9.127e-008 7.615e-003 -5.730e-003

21, 39 1, 1 4 78 -3.725e-009 -2.608e-008 2.854e-003 -1.049e-002

21, 42 1, 1 4 78 -3.260e-009 -3.353e-008 6.165e-002 4.831e-002

21, 44 1, 1 4 78 1.164e-008 9.686e-008 1.875e-002 5.404e-003

21, 46 1, 1 4 78 2.515e-008 1.825e-007 5.190e-002 3.855e-002

21, 47 1, 1 4 78 -3.725e-009 -2.980e-008 1.965e-003 -1.138e-002

21, 48 1, 1 4 78 1.892e-008 1.825e-007 4.373e-004 -1.291e-002

21, 49 1, 1 4 78 1.211e-008 8.568e-008 2.230e-002 8.953e-003

21, 54 1, 1 4 78 2.267e-008 3.260e-007 3.672e-004 -1.298e-002

21, 55 1, 1 4 78 3.958e-009 3.725e-008 3.646e-003 -9.698e-003

21, 56 1, 1 4 78 1.071e-008 8.568e-008 1.668e-002 3.339e-003

21, 59 1, 1 4 78 -3.725e-009 -2.794e-008 9.690e-003 -3.655e-003

21, 60 1, 1 4 77 -7.567e-009 -5.867e-008 1.779e-003 -1.175e-002

21, 62 1, 1 4 78 1.129e-008 7.427e-008 4.323e-005 -1.330e-002

21, 64 1, 1 4 78 1.123e-008 7.637e-008 3.690e-004 -1.298e-002

21, 65 1, 1 4 78 -3.769e-009 -2.724e-008 2.275e-005 -1.332e-002

21, 66 1, 1 4 78 1.141e-008 7.823e-008 6.033e-003 -7.312e-003

21, 67 1, 1 4 78 1.135e-008 8.708e-008 4.712e-004 -1.287e-002

21, 68 1, 1 4 78 -3.725e-009 -2.608e-008 1.807e-002 4.730e-003

21, 70 1, 1 4 78 1.956e-008 1.565e-007 2.798e-002 1.464e-002

21, 71 1, 1 4 78 1.118e-008 8.289e-008 2.261e-003 -1.108e-002

21, 72 1, 1 4 78 1.909e-008 1.621e-007 1.088e-002 -2.466e-003

21, 73 1, 1 4 77 -7.549e-009 -6.115e-008 6.371e-015 -1.353e-002

21, 74 1, 1 4 78 -3.725e-009 -2.608e-008 1.742e-003 -1.160e-002

21, 76 1, 1 4 78 -4.191e-009 -2.608e-008 2.727e-002 1.392e-002

21, 77 1, 1 4 78 4.191e-009 3.353e-008 1.816e-002 4.816e-003

21, 78 1, 1 4 78 1.071e-008 8.009e-008 1.562e-002 2.276e-003

21, 81 1, 1 4 78 1.909e-008 1.863e-007 2.798e-002 1.464e-002

21, 82 1, 1 4 78 1.094e-008 7.823e-008 5.089e-003 -8.256e-003

21, 83 1, 1 4 77 -1.537e-008 -1.006e-007 7.662e-003 -5.863e-003

21, 85 1, 1 4 78 1.816e-008 1.453e-007 4.252e-002 2.918e-002

21, 86 1, 1 4 78 -3.725e-009 -3.353e-008 2.695e-002 1.360e-002

21, 88 1, 1 4 78 1.886e-008 1.303e-007 5.295e-006 -1.334e-002

22, 23 1, 1 4 78 1.909e-008 1.695e-007 6.472e-003 -6.873e-003

22, 24 1, 1 4 78 3.958e-009 3.166e-008 4.568e-003 -8.777e-003

22, 25 1, 1 4 78 1.129e-008 9.174e-008 8.252e-004 -1.252e-002

22, 26 1, 1 4 78 3.842e-009 4.098e-008 7.967e-004 -1.255e-002

22, 28 1, 1 4 78 2.654e-008 2.012e-007 8.004e-003 -5.340e-003

22, 29 1, 1 4 78 2.608e-008 2.049e-007 1.799e-002 4.647e-003

22, 30 1, 1 4 78 2.258e-008 2.794e-007 1.465e-002 1.304e-003

22, 31 1, 1 4 78 4.191e-009 4.470e-008 9.414e-003 -3.931e-003

22, 33 1, 1 4 78 3.958e-009 3.353e-008 5.248e-003 -8.097e-003

22, 34 1, 1 4 78 2.608e-008 2.049e-007 2.201e-002 8.662e-003

22, 35 1, 1 4 78 2.701e-008 2.123e-007 2.414e-002 1.079e-002

22, 36 1, 1 4 78 3.783e-009 4.098e-008 4.543e-004 -1.289e-002

22, 38 1, 1 4 78 7.451e-009 9.686e-008 2.461e-002 1.126e-002

22, 39 1, 1 4 78 -3.783e-009 -2.817e-008 9.708e-005 -1.325e-002

22, 42 1, 1 4 78 -3.783e-009 -3.632e-008 4.909e-004 -1.285e-002

22, 44 1, 1 4 78 1.123e-008 1.001e-007 6.362e-004 -1.271e-002

22, 46 1, 1 4 78 2.608e-008 2.086e-007 3.806e-002 2.471e-002

22, 47 1, 1 4 78 -3.725e-009 -3.725e-008 4.352e-002 3.017e-002

22, 48 1, 1 4 78 1.898e-008 1.984e-007 2.054e-003 -1.129e-002

22, 49 1, 1 4 78 9.779e-009 6.892e-008 1.324e-002 -1.061e-004

22, 54 1, 1 4 78 2.258e-008 3.576e-007 3.301e-002 1.967e-002

22, 55 1, 1 4 78 3.958e-009 4.098e-008 4.281e-003 -9.064e-003

22, 56 1, 1 4 78 1.135e-008 9.639e-008 6.476e-004 -1.270e-002

22, 59 1, 1 4 78 -4.075e-009 -3.446e-008 3.568e-003 -9.777e-003

22, 60 1, 1 4 77 -7.567e-009 -6.426e-008 2.090e-003 -1.143e-002

22, 62 1, 1 4 78 1.129e-008 8.079e-008 5.076e-005 -1.329e-002

22, 64 1, 1 4 78 1.024e-008 7.451e-008 1.499e-002 1.645e-003

22, 65 1, 1 4 78 -3.769e-009 -2.934e-008 2.671e-005 -1.332e-002

22, 66 1, 1 4 78 1.071e-008 7.451e-008 2.706e-002 1.372e-002

22, 67 1, 1 4 78 1.118e-008 9.313e-008 7.123e-003 -6.222e-003

22, 68 1, 1 4 78 -3.609e-009 -2.794e-008 1.796e-003 -1.155e-002

22, 70 1, 1 4 78 1.886e-008 1.676e-007 4.521e-003 -8.824e-003

22, 71 1, 1 4 78 1.211e-008 1.043e-007 6.919e-002 5.584e-002

22, 72 1, 1 4 78 1.886e-008 1.714e-007 4.313e-003 -9.032e-003

22, 73 1, 1 4 77 -7.451e-009 -6.706e-008 1.155e-003 -1.237e-002

22, 74 1, 1 4 78 -3.769e-009 -2.934e-008 2.671e-005 -1.332e-002

22, 76 1, 1 4 78 -3.958e-009 -2.608e-008 7.408e-003 -5.937e-003

22, 77 1, 1 4 78 4.016e-009 3.632e-008 1.020e-003 -1.232e-002

22, 78 1, 1 4 78 1.118e-008 9.313e-008 6.080e-003 -7.265e-003

22, 81 1, 1 4 78 1.892e-008 1.974e-007 5.134e-004 -1.283e-002

22, 82 1, 1 4 78 1.094e-008 8.382e-008 5.975e-003 -7.370e-003

22, 83 1, 1 4 77 -1.537e-008 -1.080e-007 9.000e-003 -4.525e-003

22, 85 1, 1 4 78 1.909e-008 1.695e-007 1.183e-002 -1.512e-003

22, 86 1, 1 4 78 -3.769e-009 -3.329e-008 3.457e-005 -1.331e-002

22, 88 1, 1 4 78 1.886e-008 1.412e-007 6.217e-006 -1.334e-002

23, 24 1, 1 4 78 1.164e-010 4.657e-010 6.020e-004 -1.274e-002

23, 25 1, 1 4 78 7.683e-009 4.098e-008 8.847e-004 -1.246e-002

23, 26 1, 1 4 78 -2.328e-010 -3.725e-009 3.514e-003 -9.831e-003

23, 28 1, 1 4 78 2.142e-008 1.080e-007 4.274e-002 2.939e-002

23, 29 1, 1 4 78 2.328e-008 1.192e-007 7.358e-003 -5.987e-003

23, 30 1, 1 4 78 1.886e-008 1.565e-007 1.635e-002 3.005e-003

23, 31 1, 1 4 78 -9.313e-010 -1.118e-008 5.789e-002 4.454e-002

23, 33 1, 1 4 78 5.821e-011 4.657e-010 1.366e-004 -1.321e-002

23, 34 1, 1 4 78 2.142e-008 1.043e-007 6.244e-002 4.909e-002

23, 35 1, 1 4 78 2.142e-008 1.099e-007 8.022e-003 -5.323e-003

23, 36 1, 1 4 78 9.313e-010 7.451e-009 6.934e-002 5.599e-002

23, 38 1, 1 4 78 4.191e-009 3.725e-008 1.039e-002 -2.953e-003

23, 39 1, 1 4 78 -6.519e-009 -3.353e-008 3.423e-002 2.089e-002

23, 42 1, 1 4 78 -7.451e-009 -4.470e-008 2.960e-002 1.626e-002

23, 44 1, 1 4 78 7.567e-009 4.470e-008 1.686e-003 -1.166e-002

23, 46 1, 1 4 78 2.328e-008 1.229e-007 4.080e-002 2.745e-002

23, 47 1, 1 4 78 -7.552e-009 -4.098e-008 7.359e-006 -1.334e-002

23, 48 1, 1 4 78 1.490e-008 1.043e-007 8.023e-003 -5.322e-003

23, 49 1, 1 4 78 7.538e-009 3.562e-008 2.245e-005 -1.332e-002

23, 54 1, 1 4 78 1.874e-008 1.909e-007 3.185e-003 -1.016e-002

23, 55 1, 1 4 78 0.000e+000 3.725e-009 1.844e-002 5.097e-003

23, 56 1, 1 4 78 6.519e-009 3.539e-008 1.313e-002 -2.182e-004

23, 59 1, 1 4 78 -7.451e-009 -4.284e-008 7.112e-003 -6.233e-003

23, 60 1, 1 4 77 1.537e-008 8.568e-008 5.205e-003 -8.321e-003

23, 62 1, 1 4 78 7.683e-009 3.632e-008 1.785e-003 -1.156e-002

23, 64 1, 1 4 78 7.567e-009 3.667e-008 5.857e-006 -1.334e-002

23, 65 1, 1 4 78 -7.451e-009 -3.818e-008 1.278e-003 -1.207e-002

23, 66 1, 1 4 78 6.519e-009 2.980e-008 2.938e-002 1.603e-002

23, 67 1, 1 4 78 7.567e-009 4.191e-008 1.466e-003 -1.188e-002

23, 68 1, 1 4 78 -6.985e-009 -3.353e-008 2.467e-002 1.132e-002

23, 70 1, 1 4 78 1.490e-008 8.754e-008 8.022e-003 -5.323e-003

23, 71 1, 1 4 78 6.985e-009 3.725e-008 9.308e-003 -4.037e-003

23, 72 1, 1 4 78 1.509e-008 9.115e-008 9.113e-006 -1.334e-002

23, 73 1, 1 4 77 1.490e-008 8.568e-008 5.010e-003 -8.515e-003

23, 74 1, 1 4 78 -7.451e-009 -4.098e-008 1.697e-002 3.620e-003

23, 76 1, 1 4 78 -7.451e-009 -2.608e-008 6.174e-002 4.839e-002

23, 77 1, 1 4 78 -2.328e-010 -9.313e-010 2.034e-003 -1.131e-002

23, 78 1, 1 4 78 8.149e-009 4.470e-008 5.732e-003 -7.613e-003

23, 81 1, 1 4 78 1.513e-008 1.043e-007 2.006e-003 -1.134e-002

23, 82 1, 1 4 78 7.451e-009 3.725e-008 5.137e-002 3.802e-002

23, 83 1, 1 4 77 7.451e-009 3.353e-008 2.476e-003 -1.105e-002

23, 85 1, 1 4 78 1.444e-008 8.754e-008 1.351e-002 1.629e-004

23, 86 1, 1 4 78 -7.916e-009 -4.843e-008 6.154e-003 -7.190e-003

23, 88 1, 1 4 78 1.490e-008 7.264e-008 6.217e-003 -7.128e-003

24, 25 1, 1 4 78 -7.451e-009 -3.725e-008 1.896e-002 5.612e-003

24, 26 1, 1 4 78 -1.467e-008 -9.313e-008 5.674e-003 -7.671e-003

24, 28 1, 1 4 78 7.451e-009 3.353e-008 2.808e-002 1.473e-002

24, 29 1, 1 4 78 7.567e-009 3.586e-008 4.691e-004 -1.288e-002

24, 30 1, 1 4 78 2.794e-009 2.235e-008 1.855e-002 5.206e-003

24, 31 1, 1 4 78 -1.467e-008 -9.313e-008 5.674e-003 -7.671e-003

24, 33 1, 1 4 78 -1.583e-008 -8.382e-008 1.020e-002 -3.144e-003

24, 34 1, 1 4 78 7.683e-009 3.632e-008 3.864e-003 -9.481e-003

24, 35 1, 1 4 78 7.451e-009 3.353e-008 3.961e-002 2.626e-002

24, 36 1, 1 4 78 -1.537e-008 -1.024e-007 8.283e-003 -5.062e-003

24, 38 1, 1 4 78 -1.164e-008 -9.313e-008 3.085e-002 1.751e-002

24, 39 1, 1 4 78 -2.282e-008 -1.034e-007 3.795e-003 -9.550e-003

24, 42 1, 1 4 78 -2.328e-008 -1.341e-007 4.802e-002 3.468e-002

24, 44 1, 1 4 78 -7.800e-009 -4.238e-008 6.422e-004 -1.270e-002

24, 46 1, 1 4 78 7.567e-009 3.702e-008 1.475e-004 -1.320e-002

24, 47 1, 1 4 78 -2.282e-008 -1.155e-007 4.048e-003 -9.297e-003

24, 48 1, 1 4 78 2.328e-010 -1.863e-009 9.360e-003 -3.984e-003

24, 49 1, 1 4 78 -5.588e-009 -2.608e-008 4.907e-002 3.573e-002

24, 54 1, 1 4 78 3.725e-009 3.353e-008 1.686e-002 3.510e-003

24, 55 1, 1 4 78 -1.513e-008 -9.127e-008 3.594e-004 -1.299e-002

24, 56 1, 1 4 78 -6.519e-009 -3.725e-008 5.183e-002 3.849e-002

24, 59 1, 1 4 78 -2.189e-008 -1.118e-007 1.433e-002 9.870e-004

24, 60 1, 1 4 77 1.770e-008 8.568e-008 5.231e-002 3.879e-002

24, 62 1, 1 4 78 -7.683e-009 -3.306e-008 6.799e-004 -1.266e-002

24, 64 1, 1 4 78 -7.451e-009 -3.725e-008 3.829e-002 2.494e-002

24, 65 1, 1 4 78 -2.270e-008 -1.071e-007 1.044e-003 -1.230e-002

24, 66 1, 1 4 78 -7.451e-009 -3.353e-008 3.146e-002 1.811e-002

24, 67 1, 1 4 78 -7.683e-009 -3.865e-008 5.585e-004 -1.279e-002

24, 68 1, 1 4 78 -2.282e-008 -1.118e-007 1.154e-002 -1.801e-003

24, 70 1, 1 4 78 0.000e+000 0.000e+000 8.110e-003 -5.235e-003

24, 71 1, 1 4 78 -7.451e-009 -3.725e-008 2.119e-002 7.843e-003

24, 72 1, 1 4 78 9.313e-010 3.725e-009 1.229e-002 -1.055e-003

24, 73 1, 1 4 77 1.444e-008 7.823e-008 6.543e-003 -6.982e-003

24, 74 1, 1 4 78 -2.328e-008 -1.118e-007 5.970e-002 4.635e-002

24, 76 1, 1 4 78 -2.189e-008 -9.127e-008 6.421e-003 -6.924e-003

24, 77 1, 1 4 78 -1.490e-008 -8.941e-008 6.846e-002 5.512e-002

24, 78 1, 1 4 78 -7.916e-009 -3.725e-008 5.270e-003 -8.075e-003

24, 81 1, 1 4 78 9.313e-010 9.313e-009 1.223e-002 -1.119e-003

24, 82 1, 1 4 78 -7.509e-009 -3.551e-008 5.002e-005 -1.329e-002

24, 83 1, 1 4 77 7.916e-009 3.539e-008 4.775e-003 -8.750e-003

24, 85 1, 1 4 78 0.000e+000 0.000e+000 2.995e-002 1.660e-002

24, 86 1, 1 4 78 -2.282e-008 -1.229e-007 4.644e-003 -8.701e-003

24, 88 1, 1 4 78 -2.328e-010 -1.863e-009 8.349e-004 -1.251e-002

25, 26 1, 1 4 78 -7.451e-009 -4.470e-008 8.622e-003 -4.723e-003

25, 28 1, 1 4 78 1.444e-008 6.706e-008 1.760e-002 4.251e-003

25, 29 1, 1 4 78 1.513e-008 7.171e-008 3.281e-003 -1.006e-002

25, 30 1, 1 4 78 1.118e-008 8.568e-008 3.035e-002 1.701e-002

25, 31 1, 1 4 78 -6.985e-009 -4.377e-008 2.624e-003 -1.072e-002

25, 33 1, 1 4 78 -7.509e-009 -4.028e-008 6.480e-005 -1.328e-002

25, 34 1, 1 4 78 1.510e-008 7.078e-008 2.193e-005 -1.332e-002

25, 35 1, 1 4 78 1.490e-008 6.706e-008 2.122e-002 7.880e-003

25, 36 1, 1 4 78 -6.519e-009 -4.098e-008 4.257e-002 2.922e-002

25, 38 1, 1 4 78 -3.725e-009 -2.608e-008 2.945e-002 1.611e-002

25, 39 1, 1 4 78 -1.478e-008 -6.659e-008 3.198e-004 -1.303e-002

25, 42 1, 1 4 78 -1.490e-008 -8.568e-008 2.146e-002 8.115e-003

25, 44 1, 1 4 78 0.000e+000 9.313e-010 2.096e-003 -1.125e-002

25, 46 1, 1 4 78 1.537e-008 7.451e-008 2.159e-002 8.243e-003

25, 47 1, 1 4 78 -1.537e-008 -7.823e-008 7.601e-003 -5.744e-003

25, 48 1, 1 4 78 7.547e-009 4.780e-008 2.994e-014 -1.334e-002

25, 49 1, 1 4 78 0.000e+000 0.000e+000 5.470e-003 -7.875e-003

25, 54 1, 1 4 78 1.094e-008 9.872e-008 7.190e-003 -6.155e-003

25, 55 1, 1 4 78 -7.451e-009 -4.470e-008 1.410e-002 7.583e-004

25, 56 1, 1 4 78 4.657e-010 9.313e-010 2.903e-003 -1.044e-002

25, 59 1, 1 4 78 -1.513e-008 -7.823e-008 1.706e-003 -1.164e-002

25, 60 1, 1 4 77 -7.916e-009 -4.284e-008 7.453e-003 -6.072e-003

25, 62 1, 1 4 78 0.000e+000 1.863e-009 1.562e-002 2.280e-003

25, 64 1, 1 4 78 4.657e-010 0.000e+000 1.138e-002 -1.968e-003

25, 65 1, 1 4 78 -1.444e-008 -6.706e-008 1.589e-003 -1.176e-002

25, 66 1, 1 4 78 -2.328e-010 -1.863e-009 3.348e-003 -9.997e-003

25, 67 1, 1 4 78 0.000e+000 2.328e-010 1.009e-004 -1.324e-002

25, 68 1, 1 4 78 -1.519e-008 -7.404e-008 2.831e-004 -1.306e-002

25, 70 1, 1 4 78 6.054e-009 3.166e-008 7.665e-003 -5.680e-003

25, 71 1, 1 4 78 -2.328e-010 -9.313e-010 3.785e-003 -9.560e-003

25, 72 1, 1 4 78 7.683e-009 4.191e-008 2.221e-003 -1.112e-002

25, 73 1, 1 4 77 -9.313e-009 -4.470e-008 6.024e-002 4.671e-002

25, 74 1, 1 4 78 -1.537e-008 -7.264e-008 2.662e-003 -1.068e-002

25, 76 1, 1 4 78 -1.490e-008 -6.706e-008 1.677e-002 3.423e-003

25, 77 1, 1 4 78 -8.382e-009 -4.470e-008 5.250e-002 3.916e-002

25, 78 1, 1 4 78 0.000e+000 -2.328e-010 1.541e-004 -1.319e-002

25, 81 1, 1 4 78 7.683e-009 4.843e-008 6.765e-003 -6.580e-003

25, 82 1, 1 4 78 0.000e+000 -1.863e-009 1.208e-002 -1.267e-003

25, 83 1, 1 4 77 -1.537e-008 -6.426e-008 2.465e-003 -1.106e-002

25, 85 1, 1 4 78 8.382e-009 4.470e-008 3.898e-002 2.563e-002

25, 86 1, 1 4 78 -1.537e-008 -8.289e-008 3.445e-003 -9.900e-003

25, 88 1, 1 4 78 7.567e-009 3.446e-008 2.048e-005 -1.332e-002

26, 28 1, 1 4 78 8.382e-009 5.029e-008 1.559e-002 2.244e-003

26, 29 1, 1 4 78 6.519e-009 4.098e-008 5.188e-002 3.853e-002

26, 30 1, 1 4 78 3.667e-009 3.539e-008 1.402e-003 -1.194e-002

26, 31 1, 1 4 78 -1.513e-008 -1.229e-007 1.009e-002 -3.250e-003

26, 33 1, 1 4 78 -1.490e-008 -1.080e-007 2.079e-002 7.442e-003

26, 34 1, 1 4 78 7.451e-009 4.470e-008 1.985e-004 -1.315e-002

26, 35 1, 1 4 78 7.451e-009 4.470e-008 4.499e-004 -1.289e-002

26, 36 1, 1 4 78 -1.490e-008 -1.239e-007 2.091e-003 -1.125e-002

26, 38 1, 1 4 78 -1.118e-008 -1.136e-007 1.539e-002 2.048e-003

26, 39 1, 1 4 78 -2.235e-008 -1.267e-007 5.817e-002 4.483e-002

26, 42 1, 1 4 78 -2.235e-008 -1.658e-007 1.464e-002 1.297e-003

26, 44 1, 1 4 78 -7.451e-009 -5.215e-008 7.740e-003 -5.605e-003

26, 46 1, 1 4 78 7.683e-009 4.843e-008 9.272e-003 -4.073e-003

26, 47 1, 1 4 78 -2.282e-008 -1.490e-007 5.147e-003 -8.198e-003

26, 48 1, 1 4 78 4.657e-010 3.725e-009 5.281e-002 3.947e-002

26, 49 1, 1 4 78 -7.509e-009 -4.191e-008 7.083e-005 -1.327e-002

26, 54 1, 1 4 78 2.794e-009 2.980e-008 4.101e-002 2.766e-002

26, 55 1, 1 4 78 -1.444e-008 -1.192e-007 4.327e-002 2.993e-002

26, 56 1, 1 4 78 -7.916e-009 -5.029e-008 5.792e-003 -7.553e-003

26, 59 1, 1 4 78 -2.235e-008 -1.527e-007 3.727e-002 2.393e-002

26, 60 1, 1 4 77 -5.821e-011 -4.657e-010 1.848e-004 -1.334e-002

26, 62 1, 1 4 78 -7.916e-009 -4.098e-008 1.115e-002 -2.191e-003

26, 64 1, 1 4 78 -7.451e-009 -4.470e-008 1.111e-001 9.779e-002

26, 65 1, 1 4 78 -2.142e-008 -1.229e-007 4.312e-002 2.978e-002

26, 66 1, 1 4 78 -7.538e-009 -4.505e-008 3.564e-005 -1.331e-002

26, 67 1, 1 4 78 -7.218e-009 -4.657e-008 6.730e-003 -6.614e-003

26, 68 1, 1 4 78 -2.258e-008 -1.397e-007 8.978e-004 -1.245e-002

26, 70 1, 1 4 78 4.657e-010 3.725e-009 1.007e-002 -3.273e-003

26, 71 1, 1 4 78 -7.451e-009 -4.936e-008 1.146e-003 -1.220e-002

26, 72 1, 1 4 78 0.000e+000 9.313e-010 1.113e-003 -1.223e-002

26, 73 1, 1 4 77 -9.313e-010 -7.451e-009 1.704e-002 3.513e-003

26, 74 1, 1 4 78 -2.235e-008 -1.360e-007 1.142e-002 -1.927e-003

26, 76 1, 1 4 78 -2.258e-008 -1.199e-007 1.530e-004 -1.319e-002

26, 77 1, 1 4 78 -1.508e-008 -1.071e-007 1.141e-004 -1.323e-002

26, 78 1, 1 4 78 -7.451e-009 -5.215e-008 1.329e-002 -5.880e-005

26, 81 1, 1 4 78 2.328e-010 0.000e+000 7.812e-003 -5.532e-003

26, 82 1, 1 4 78 -7.538e-009 -4.517e-008 8.184e-005 -1.326e-002

26, 83 1, 1 4 77 -7.916e-009 -4.284e-008 8.208e-003 -5.317e-003

26, 85 1, 1 4 78 1.863e-009 7.451e-009 5.582e-002 4.247e-002

26, 86 1, 1 4 78 -2.282e-008 -1.602e-007 2.765e-002 1.431e-002

26, 88 1, 1 4 78 -4.657e-010 0.000e+000 8.006e-003 -5.339e-003

28, 29 1, 1 4 78 3.027e-008 1.322e-007 1.233e-002 -1.018e-003

28, 30 1, 1 4 78 2.654e-008 1.844e-007 6.817e-003 -6.527e-003

28, 31 1, 1 4 78 7.567e-009 4.470e-008 8.128e-004 -1.253e-002

28, 33 1, 1 4 78 6.985e-009 3.166e-008 1.330e-002 -4.070e-005

28, 34 1, 1 4 78 3.021e-008 1.303e-007 3.734e-005 -1.331e-002

28, 35 1, 1 4 78 3.166e-008 1.378e-007 3.425e-002 2.090e-002

28, 36 1, 1 4 78 7.451e-009 4.284e-008 7.937e-003 -5.408e-003

28, 38 1, 1 4 78 1.118e-008 8.196e-008 1.061e-002 -2.737e-003

28, 39 1, 1 4 78 2.328e-010 9.313e-010 9.121e-004 -1.243e-002

28, 42 1, 1 4 78 0.000e+000 -7.451e-009 6.701e-002 5.366e-002

28, 44 1, 1 4 78 1.583e-008 8.196e-008 3.029e-002 1.695e-002

28, 46 1, 1 4 78 2.794e-008 1.267e-007 6.342e-002 5.007e-002

28, 47 1, 1 4 78 -9.313e-010 0.000e+000 6.526e-002 5.192e-002

28, 48 1, 1 4 78 2.270e-008 1.322e-007 6.378e-004 -1.271e-002

28, 49 1, 1 4 78 1.583e-008 6.333e-008 1.065e-002 -2.695e-003

28, 54 1, 1 4 78 2.631e-008 2.291e-007 1.441e-002 1.069e-003

28, 55 1, 1 4 78 7.625e-009 4.214e-008 1.629e-004 -1.318e-002

28, 56 1, 1 4 78 1.537e-008 7.264e-008 1.131e-002 -2.032e-003

28, 59 1, 1 4 78 0.000e+000 0.000e+000 1.222e-002 -1.121e-003

28, 60 1, 1 4 77 7.567e-009 3.562e-008 1.670e-004 -1.336e-002

28, 62 1, 1 4 78 1.676e-008 6.706e-008 2.949e-002 1.614e-002

28, 64 1, 1 4 78 1.490e-008 6.147e-008 3.130e-003 -1.021e-002

28, 65 1, 1 4 78 0.000e+000 2.328e-010 1.498e-004 -1.319e-002

28, 66 1, 1 4 78 1.537e-008 6.706e-008 6.056e-003 -7.289e-003

28, 67 1, 1 4 78 1.537e-008 7.078e-008 1.766e-003 -1.158e-002

28, 68 1, 1 4 78 -4.657e-010 -1.863e-009 5.125e-003 -8.220e-003

28, 70 1, 1 4 78 2.264e-008 1.108e-007 2.654e-004 -1.308e-002

28, 71 1, 1 4 78 1.676e-008 7.823e-008 2.763e-002 1.429e-002

28, 72 1, 1 4 78 2.235e-008 1.136e-007 2.696e-003 -1.065e-002

28, 73 1, 1 4 77 6.985e-009 3.353e-008 2.027e-002 6.741e-003

28, 74 1, 1 4 78 0.000e+000 0.000e+000 2.330e-002 9.958e-003

28, 76 1, 1 4 78 0.000e+000 -1.863e-009 6.526e-003 -6.819e-003

28, 77 1, 1 4 78 7.916e-009 4.098e-008 1.368e-002 3.392e-004

28, 78 1, 1 4 78 1.513e-008 6.985e-008 1.888e-003 -1.146e-002

28, 81 1, 1 4 78 2.264e-008 1.322e-007 1.594e-004 -1.319e-002

28, 82 1, 1 4 78 1.583e-008 6.892e-008 5.052e-003 -8.293e-003

28, 83 1, 1 4 77 -4.657e-010 0.000e+000 1.060e-002 -2.923e-003

28, 85 1, 1 4 78 2.328e-008 1.136e-007 1.297e-002 -3.786e-004

28, 86 1, 1 4 78 0.000e+000 0.000e+000 1.297e-002 -3.786e-004

28, 88 1, 1 4 78 2.235e-008 9.686e-008 6.932e-002 5.598e-002

29, 30 1, 1 4 78 2.608e-008 1.919e-007 1.532e-002 1.979e-003

29, 31 1, 1 4 78 7.451e-009 3.725e-008 9.474e-002 8.139e-002

29, 33 1, 1 4 78 7.218e-009 3.818e-008 3.220e-003 -1.012e-002

29, 34 1, 1 4 78 3.073e-008 1.378e-007 2.107e-002 7.729e-003

29, 35 1, 1 4 78 2.980e-008 1.304e-007 6.798e-003 -6.547e-003

29, 36 1, 1 4 78 8.382e-009 4.843e-008 2.905e-002 1.571e-002

29, 38 1, 1 4 78 1.094e-008 8.196e-008 1.102e-002 -2.324e-003

29, 39 1, 1 4 78 -9.313e-010 -3.725e-009 1.833e-002 4.983e-003

29, 42 1, 1 4 78 -1.164e-010 0.000e+000 6.881e-004 -1.266e-002

29, 44 1, 1 4 78 1.583e-008 8.382e-008 7.520e-003 -5.824e-003

29, 46 1, 1 4 78 3.015e-008 1.402e-007 3.016e-004 -1.304e-002

29, 47 1, 1 4 78 0.000e+000 0.000e+000 5.734e-006 -1.334e-002

29, 48 1, 1 4 78 2.270e-008 1.378e-007 1.563e-003 -1.178e-002

29, 49 1, 1 4 78 1.490e-008 6.706e-008 1.601e-002 2.661e-003

29, 54 1, 1 4 78 2.654e-008 2.421e-007 3.447e-002 2.113e-002

29, 55 1, 1 4 78 6.985e-009 3.912e-008 1.056e-002 -2.788e-003

29, 56 1, 1 4 78 1.770e-008 8.568e-008 2.731e-002 1.397e-002

29, 59 1, 1 4 78 -2.910e-011 0.000e+000 3.848e-005 -1.331e-002

29, 60 1, 1 4 77 -7.451e-009 -3.539e-008 7.717e-003 -5.808e-003

29, 62 1, 1 4 78 1.513e-008 6.333e-008 3.246e-003 -1.010e-002

29, 64 1, 1 4 78 1.509e-008 6.449e-008 4.563e-006 -1.334e-002

29, 65 1, 1 4 78 9.313e-010 3.725e-009 2.214e-002 8.793e-003

29, 66 1, 1 4 78 1.397e-008 5.960e-008 3.790e-002 2.456e-002

29, 67 1, 1 4 78 1.490e-008 7.078e-008 3.063e-002 1.729e-002

29, 68 1, 1 4 78 1.164e-010 1.397e-009 3.417e-004 -1.300e-002

29, 70 1, 1 4 78 2.264e-008 1.157e-007 1.626e-004 -1.318e-002

29, 71 1, 1 4 78 1.444e-008 7.078e-008 2.151e-002 8.166e-003

29, 72 1, 1 4 78 2.270e-008 1.211e-007 1.022e-003 -1.232e-002

29, 73 1, 1 4 77 -6.985e-009 -3.353e-008 2.260e-002 9.074e-003

29, 74 1, 1 4 78 0.000e+000 -9.313e-010 3.176e-003 -1.017e-002

29, 76 1, 1 4 78 1.164e-010 2.328e-010 1.913e-004 -1.315e-002

29, 77 1, 1 4 78 7.596e-009 4.028e-008 2.817e-005 -1.332e-002

29, 78 1, 1 4 78 1.583e-008 7.637e-008 9.576e-003 -3.769e-003

29, 81 1, 1 4 78 2.235e-008 1.378e-007 5.626e-002 4.292e-002

29, 82 1, 1 4 78 1.397e-008 6.333e-008 3.234e-002 1.899e-002

29, 83 1, 1 4 77 -1.537e-008 -6.147e-008 9.516e-003 -4.009e-003

29, 85 1, 1 4 78 2.282e-008 1.173e-007 4.111e-003 -9.234e-003

29, 86 1, 1 4 78 -2.328e-010 -1.397e-009 9.472e-004 -1.240e-002

29, 88 1, 1 4 78 2.235e-008 9.686e-008 2.385e-002 1.050e-002

30, 31 1, 1 4 78 4.191e-009 3.725e-008 5.195e-002 3.861e-002

30, 33 1, 1 4 78 3.958e-009 3.260e-008 1.566e-003 -1.178e-002

30, 34 1, 1 4 78 2.640e-008 1.887e-007 5.669e-006 -1.334e-002

30, 35 1, 1 4 78 2.701e-008 1.937e-007 2.056e-002 7.213e-003

30, 36 1, 1 4 78 3.725e-009 3.725e-008 5.572e-002 4.238e-002

30, 38 1, 1 4 78 7.451e-009 8.941e-008 2.096e-002 7.615e-003

30, 39 1, 1 4 78 -4.657e-009 -2.980e-008 2.019e-002 6.842e-003

30, 42 1, 1 4 78 -4.191e-009 -3.353e-008 2.263e-002 9.287e-003

30, 44 1, 1 4 78 1.071e-008 8.941e-008 1.692e-002 3.576e-003

30, 46 1, 1 4 78 2.608e-008 1.900e-007 7.142e-003 -6.203e-003

30, 47 1, 1 4 78 -1.863e-009 -7.451e-009 6.353e-002 5.019e-002

30, 48 1, 1 4 78 1.909e-008 1.844e-007 6.996e-003 -6.349e-003

30, 49 1, 1 4 78 1.135e-008 7.544e-008 5.396e-004 -1.281e-002

30, 54 1, 1 4 78 2.258e-008 3.316e-007 2.811e-002 1.477e-002

30, 55 1, 1 4 78 3.958e-009 3.725e-008 3.646e-003 -9.698e-003

30, 56 1, 1 4 78 1.118e-008 8.941e-008 5.531e-003 -7.814e-003

30, 59 1, 1 4 78 -3.725e-009 -2.980e-008 4.032e-002 2.698e-002

30, 60 1, 1 4 77 -7.567e-009 -5.867e-008 1.779e-003 -1.175e-002

30, 62 1, 1 4 78 1.129e-008 7.427e-008 4.323e-005 -1.330e-002

30, 64 1, 1 4 78 1.024e-008 7.264e-008 1.277e-002 -5.776e-004

30, 65 1, 1 4 78 -3.725e-009 -2.608e-008 1.742e-003 -1.160e-002

30, 66 1, 1 4 78 1.118e-008 7.637e-008 1.527e-002 1.925e-003

30, 67 1, 1 4 78 1.118e-008 8.568e-008 1.630e-002 2.960e-003

30, 68 1, 1 4 78 -4.657e-009 -3.353e-008 5.280e-002 3.945e-002

30, 70 1, 1 4 78 1.898e-008 1.537e-007 1.863e-003 -1.148e-002

30, 71 1, 1 4 78 1.164e-008 8.196e-008 3.762e-002 2.427e-002

30, 72 1, 1 4 78 1.909e-008 1.621e-007 1.088e-002 -2.466e-003

30, 73 1, 1 4 77 -7.549e-009 -6.115e-008 6.371e-015 -1.353e-002

30, 74 1, 1 4 78 -3.725e-009 -2.794e-008 2.629e-003 -1.072e-002

30, 76 1, 1 4 78 -3.725e-009 -2.328e-008 1.836e-003 -1.151e-002

30, 77 1, 1 4 78 3.725e-009 3.539e-008 7.094e-003 -6.251e-003

30, 78 1, 1 4 78 1.118e-008 8.382e-008 5.178e-003 -8.166e-003

30, 81 1, 1 4 78 1.886e-008 1.807e-007 1.093e-002 -2.413e-003

30, 82 1, 1 4 78 1.129e-008 8.056e-008 6.234e-004 -1.272e-002

30, 83 1, 1 4 77 -1.537e-008 -1.006e-007 1.674e-002 3.218e-003

30, 85 1, 1 4 78 1.886e-008 1.527e-007 2.255e-003 -1.109e-002

30, 86 1, 1 4 78 -3.769e-009 -3.085e-008 2.945e-005 -1.332e-002

30, 88 1, 1 4 78 1.886e-008 1.304e-007 7.645e-003 -5.700e-003

31, 33 1, 1 4 78 -1.537e-008 -1.043e-007 1.581e-002 2.461e-003

31, 34 1, 1 4 78 8.149e-009 4.750e-008 2.845e-003 -1.050e-002

31, 35 1, 1 4 78 7.451e-009 4.284e-008 1.000e-002 -3.345e-003

31, 36 1, 1 4 78 -1.537e-008 -1.267e-007 2.905e-002 1.571e-002

31, 38 1, 1 4 78 -1.129e-008 -1.136e-007 3.443e-003 -9.901e-003

31, 39 1, 1 4 78 -2.282e-008 -1.322e-007 9.233e-003 -4.112e-003

31, 42 1, 1 4 78 -2.258e-008 -1.695e-007 5.307e-003 -8.038e-003

31, 44 1, 1 4 78 -7.916e-009 -5.215e-008 1.898e-002 5.630e-003

31, 46 1, 1 4 78 7.916e-009 4.470e-008 3.473e-002 2.139e-002

31, 47 1, 1 4 78 -2.235e-008 -1.416e-007 6.882e-002 5.548e-002

31, 48 1, 1 4 78 2.328e-010 0.000e+000 7.812e-003 -5.532e-003

31, 49 1, 1 4 78 -7.451e-009 -4.098e-008 6.618e-003 -6.727e-003

31, 54 1, 1 4 78 3.725e-009 4.470e-008 1.185e-003 -1.216e-002

31, 55 1, 1 4 78 -1.397e-008 -1.006e-007 5.757e-002 4.422e-002

31, 56 1, 1 4 78 -7.451e-009 -4.470e-008 1.419e-002 8.455e-004

31, 59 1, 1 4 78 -2.282e-008 -1.509e-007 4.432e-003 -8.913e-003

31, 60 1, 1 4 77 0.000e+000 9.313e-010 3.272e-003 -1.025e-002

31, 62 1, 1 4 78 -6.985e-009 -4.098e-008 2.170e-002 8.352e-003

31, 64 1, 1 4 78 -7.451e-009 -4.284e-008 5.270e-003 -8.075e-003

31, 65 1, 1 4 78 -2.258e-008 -1.360e-007 2.540e-003 -1.080e-002

31, 66 1, 1 4 78 -7.451e-009 -4.470e-008 1.220e-002 -1.149e-003

31, 67 1, 1 4 78 -6.519e-009 -4.284e-008 1.541e-002 2.066e-003

31, 68 1, 1 4 78 -2.258e-008 -1.397e-007 8.267e-003 -5.078e-003

31, 70 1, 1 4 78 0.000e+000 0.000e+000 1.489e-002 1.545e-003

31, 71 1, 1 4 78 -7.567e-009 -4.796e-008 5.483e-005 -1.329e-002

31, 72 1, 1 4 78 -2.910e-011 -6.985e-010 1.718e-004 -1.317e-002

31, 73 1, 1 4 77 0.000e+000 0.000e+000 2.592e-002 1.240e-002

31, 74 1, 1 4 78 -2.282e-008 -1.397e-007 4.562e-003 -8.783e-003

31, 76 1, 1 4 78 -2.282e-008 -1.229e-007 6.607e-003 -6.738e-003

31, 77 1, 1 4 78 -1.537e-008 -1.080e-007 3.245e-003 -1.010e-002

31, 78 1, 1 4 78 -6.985e-009 -4.377e-008 2.624e-003 -1.072e-002

31, 81 1, 1 4 78 -9.313e-010 -7.451e-009 1.128e-001 9.947e-002

31, 82 1, 1 4 78 -7.916e-009 -4.470e-008 2.751e-002 1.416e-002

31, 83 1, 1 4 77 -7.451e-009 -4.098e-008 1.588e-002 2.352e-003

31, 85 1, 1 4 78 2.328e-010 5.588e-009 5.904e-003 -7.440e-003

31, 86 1, 1 4 78 -2.282e-008 -1.583e-007 1.042e-002 -2.926e-003

31, 88 1, 1 4 78 -4.657e-010 0.000e+000 8.006e-003 -5.339e-003

33, 34 1, 1 4 78 7.567e-009 3.818e-008 1.138e-003 -1.221e-002

33, 35 1, 1 4 78 6.985e-009 3.725e-008 2.169e-002 8.349e-003

33, 36 1, 1 4 78 -1.490e-008 -1.043e-007 6.992e-003 -6.353e-003

33, 38 1, 1 4 78 -1.164e-008 -9.686e-008 1.782e-002 4.471e-003

33, 39 1, 1 4 78 -2.142e-008 -1.006e-007 2.568e-002 1.233e-002

33, 42 1, 1 4 78 -2.264e-008 -1.405e-007 5.246e-005 -1.329e-002

33, 44 1, 1 4 78 -7.916e-009 -4.563e-008 2.353e-003 -1.099e-002

33, 46 1, 1 4 78 7.567e-009 3.912e-008 1.694e-004 -1.318e-002

33, 47 1, 1 4 78 -2.328e-008 -1.267e-007 2.010e-002 6.757e-003

33, 48 1, 1 4 78 2.328e-010 3.725e-009 1.075e-002 -2.591e-003

33, 49 1, 1 4 78 -7.451e-009 -3.492e-008 5.527e-004 -1.279e-002

33, 54 1, 1 4 78 3.609e-009 3.725e-008 5.325e-003 -8.020e-003

33, 55 1, 1 4 78 -1.490e-008 -9.406e-008 3.848e-003 -9.497e-003

33, 56 1, 1 4 78 -7.451e-009 -4.191e-008 7.690e-004 -1.258e-002

33, 59 1, 1 4 78 -2.235e-008 -1.211e-007 7.968e-003 -5.377e-003

33, 60 1, 1 4 77 1.513e-008 8.382e-008 6.588e-004 -1.287e-002

33, 62 1, 1 4 78 -6.985e-009 -2.980e-008 1.411e-002 7.646e-004

33, 64 1, 1 4 78 -7.451e-009 -3.539e-008 7.200e-003 -6.145e-003

33, 65 1, 1 4 78 -2.235e-008 -1.155e-007 9.438e-003 -3.907e-003

33, 66 1, 1 4 78 -7.451e-009 -3.725e-008 2.483e-002 1.149e-002

33, 67 1, 1 4 78 -7.451e-009 -4.098e-008 1.721e-002 3.861e-003

33, 68 1, 1 4 78 -2.282e-008 -1.211e-007 6.625e-003 -6.720e-003

33, 70 1, 1 4 78 2.328e-010 9.313e-010 3.511e-003 -9.834e-003

33, 71 1, 1 4 78 -7.916e-009 -4.284e-008 7.547e-003 -5.798e-003

33, 72 1, 1 4 78 9.313e-010 7.451e-009 1.412e-002 7.750e-004

33, 73 1, 1 4 77 1.583e-008 8.941e-008 6.453e-002 5.100e-002

33, 74 1, 1 4 78 -2.328e-008 -1.155e-007 3.975e-002 2.640e-002

33, 76 1, 1 4 78 -2.142e-008 -1.006e-007 2.063e-002 7.288e-003

33, 77 1, 1 4 78 -1.513e-008 -9.313e-008 4.709e-003 -8.636e-003

33, 78 1, 1 4 78 -7.451e-009 -4.470e-008 2.768e-002 1.433e-002

33, 81 1, 1 4 78 0.000e+000 2.328e-010 2.195e-004 -1.313e-002

33, 82 1, 1 4 78 -7.451e-009 -3.725e-008 1.635e-003 -1.171e-002

33, 83 1, 1 4 77 7.451e-009 3.166e-008 1.086e-002 -2.667e-003

33, 85 1, 1 4 78 4.657e-010 3.725e-009 1.222e-002 -1.129e-003

33, 86 1, 1 4 78 -2.282e-008 -1.322e-007 1.308e-002 -2.640e-004

33, 88 1, 1 4 78 0.000e+000 0.000e+000 8.137e-002 6.803e-002

34, 35 1, 1 4 78 3.004e-008 1.332e-007 2.711e-003 -1.063e-002

34, 36 1, 1 4 78 7.451e-009 4.843e-008 2.219e-002 8.844e-003

34, 38 1, 1 4 78 1.118e-008 8.242e-008 5.426e-004 -1.280e-002

34, 39 1, 1 4 78 0.000e+000 4.657e-010 5.055e-004 -1.284e-002

34, 42 1, 1 4 78 0.000e+000 1.863e-009 4.647e-003 -8.698e-003

34, 44 1, 1 4 78 1.537e-008 8.009e-008 8.280e-003 -5.065e-003

34, 46 1, 1 4 78 2.980e-008 1.304e-007 5.005e-002 3.671e-002

34, 47 1, 1 4 78 0.000e+000 0.000e+000 1.202e-002 -1.329e-003

34, 48 1, 1 4 78 2.258e-008 1.322e-007 4.177e-003 -9.168e-003

34, 49 1, 1 4 78 1.490e-008 5.960e-008 2.032e-002 6.980e-003

34, 54 1, 1 4 78 2.643e-008 2.347e-007 2.245e-003 -1.110e-002

34, 55 1, 1 4 78 7.916e-009 4.098e-008 1.275e-002 -5.943e-004

34, 56 1, 1 4 78 1.510e-008 7.311e-008 2.342e-005 -1.332e-002

34, 59 1, 1 4 78 -1.164e-010 0.000e+000 6.532e-004 -1.269e-002

34, 60 1, 1 4 77 2.189e-008 1.080e-007 8.741e-003 -4.784e-003

34, 62 1, 1 4 78 1.397e-008 5.588e-008 4.597e-002 3.262e-002

34, 64 1, 1 4 78 1.537e-008 6.519e-008 5.586e-003 -7.759e-003

34, 65 1, 1 4 78 0.000e+000 3.725e-009 1.607e-002 2.730e-003

34, 66 1, 1 4 78 1.537e-008 6.706e-008 1.297e-003 -1.205e-002

34, 67 1, 1 4 78 1.513e-008 7.125e-008 5.422e-004 -1.280e-002

34, 68 1, 1 4 78 -4.657e-010 -1.863e-009 1.200e-002 -1.344e-003

34, 70 1, 1 4 78 2.235e-008 1.062e-007 1.462e-002 1.276e-003

34, 71 1, 1 4 78 1.513e-008 6.985e-008 3.276e-003 -1.007e-002

34, 72 1, 1 4 78 2.264e-008 1.178e-007 4.016e-004 -1.294e-002

34, 73 1, 1 4 77 2.235e-008 1.118e-007 8.998e-003 -4.527e-003

34, 74 1, 1 4 78 0.000e+000 9.313e-010 1.644e-003 -1.170e-002

34, 76 1, 1 4 78 4.657e-010 0.000e+000 9.143e-003 -4.202e-003

34, 77 1, 1 4 78 7.451e-009 3.725e-008 1.694e-002 3.598e-003

34, 78 1, 1 4 78 1.537e-008 7.078e-008 1.598e-002 2.639e-003

34, 81 1, 1 4 78 2.282e-008 1.341e-007 1.069e-002 -2.651e-003

34, 82 1, 1 4 78 1.583e-008 7.451e-008 2.182e-002 8.480e-003

34, 83 1, 1 4 77 1.490e-008 5.960e-008 7.395e-003 -6.130e-003

34, 85 1, 1 4 78 2.282e-008 1.155e-007 2.253e-002 9.189e-003

34, 86 1, 1 4 78 0.000e+000 -1.863e-009 6.214e-003 -7.131e-003

34, 88 1, 1 4 78 2.235e-008 9.686e-008 2.084e-002 7.497e-003

35, 36 1, 1 4 78 7.451e-009 4.563e-008 2.095e-003 -1.125e-002

35, 38 1, 1 4 78 1.118e-008 8.196e-008 2.404e-002 1.069e-002

35, 39 1, 1 4 78 0.000e+000 -1.164e-010 4.028e-005 -1.330e-002

35, 42 1, 1 4 78 0.000e+000 0.000e+000 1.497e-004 -1.320e-002

35, 44 1, 1 4 78 1.513e-008 7.730e-008 1.366e-003 -1.198e-002

35, 46 1, 1 4 78 3.050e-008 1.388e-007 6.873e-004 -1.266e-002

35, 47 1, 1 4 78 0.000e+000 0.000e+000 2.962e-002 1.627e-002

35, 48 1, 1 4 78 2.282e-008 1.360e-007 1.363e-002 2.884e-004

35, 49 1, 1 4 78 1.525e-008 6.286e-008 3.825e-004 -1.296e-002

35, 54 1, 1 4 78 2.654e-008 2.384e-007 1.672e-002 3.372e-003

35, 55 1, 1 4 78 7.567e-009 4.284e-008 9.553e-004 -1.239e-002

35, 56 1, 1 4 78 1.513e-008 7.357e-008 1.510e-003 -1.184e-002

35, 59 1, 1 4 78 0.000e+000 -3.725e-009 4.888e-002 3.553e-002

35, 60 1, 1 4 77 -7.451e-009 -3.539e-008 8.931e-003 -4.594e-003

35, 62 1, 1 4 78 1.397e-008 5.588e-008 2.187e-002 8.523e-003

35, 64 1, 1 4 78 1.508e-008 6.333e-008 1.106e-004 -1.323e-002

35, 65 1, 1 4 78 0.000e+000 0.000e+000 3.153e-004 -1.303e-002

35, 66 1, 1 4 78 1.513e-008 6.636e-008 9.716e-005 -1.325e-002

35, 67 1, 1 4 78 1.863e-008 8.941e-008 6.287e-002 4.952e-002

35, 68 1, 1 4 78 4.657e-010 1.863e-009 3.772e-003 -9.572e-003

35, 70 1, 1 4 78 2.189e-008 1.118e-007 1.640e-002 3.053e-003

35, 71 1, 1 4 78 1.490e-008 6.706e-008 1.140e-001 1.007e-001

35, 72 1, 1 4 78 2.235e-008 1.173e-007 1.520e-002 1.858e-003

35, 73 1, 1 4 77 -8.382e-009 -3.725e-008 5.594e-002 4.242e-002

35, 74 1, 1 4 78 0.000e+000 0.000e+000 9.537e-003 -3.808e-003

35, 76 1, 1 4 78 0.000e+000 0.000e+000 2.864e-002 1.530e-002

35, 77 1, 1 4 78 6.985e-009 3.725e-008 2.624e-002 1.290e-002

35, 78 1, 1 4 78 1.508e-008 7.090e-008 4.969e-005 -1.330e-002

35, 81 1, 1 4 78 2.235e-008 1.341e-007 1.363e-002 2.884e-004

35, 82 1, 1 4 78 1.490e-008 6.519e-008 4.897e-004 -1.286e-002

35, 83 1, 1 4 77 -1.467e-008 -5.681e-008 1.670e-003 -1.185e-002

35, 85 1, 1 4 78 2.235e-008 1.173e-007 1.408e-002 7.393e-004

35, 86 1, 1 4 78 0.000e+000 1.863e-009 1.408e-002 7.393e-004

35, 88 1, 1 4 78 2.142e-008 9.686e-008 5.855e-002 4.520e-002

36, 38 1, 1 4 78 -1.094e-008 -1.080e-007 1.870e-002 5.352e-003

36, 39 1, 1 4 78 -2.328e-008 -1.304e-007 4.995e-002 3.660e-002

36, 42 1, 1 4 78 -2.264e-008 -1.690e-007 3.478e-004 -1.300e-002

36, 44 1, 1 4 78 -7.451e-009 -5.029e-008 4.890e-003 -8.455e-003

36, 46 1, 1 4 78 7.683e-009 4.843e-008 3.913e-003 -9.432e-003

36, 47 1, 1 4 78 -2.328e-008 -1.527e-007 5.273e-002 3.939e-002

36, 48 1, 1 4 78 0.000e+000 -9.313e-010 2.851e-003 -1.049e-002

36, 49 1, 1 4 78 -7.552e-009 -4.272e-008 7.978e-006 -1.334e-002

36, 54 1, 1 4 78 3.492e-009 4.470e-008 2.727e-002 1.393e-002

36, 55 1, 1 4 78 -1.513e-008 -1.173e-007 3.715e-004 -1.297e-002

36, 56 1, 1 4 78 -8.382e-009 -5.588e-008 1.603e-002 2.684e-003

36, 59 1, 1 4 78 -2.258e-008 -1.518e-007 1.359e-003 -1.199e-002

36, 60 1, 1 4 77 7.451e-009 5.029e-008 1.291e-002 -6.126e-004

36, 62 1, 1 4 78 -7.916e-009 -4.843e-008 2.456e-002 1.121e-002

36, 64 1, 1 4 78 -7.451e-009 -4.284e-008 9.066e-003 -4.279e-003

36, 65 1, 1 4 78 -2.258e-008 -1.378e-007 3.709e-003 -9.636e-003

36, 66 1, 1 4 78 -7.567e-009 -4.517e-008 5.780e-004 -1.277e-002

36, 67 1, 1 4 78 -6.985e-009 -4.470e-008 3.576e-002 2.242e-002

36, 68 1, 1 4 78 -2.282e-008 -1.378e-007 1.193e-002 -1.413e-003

36, 70 1, 1 4 78 0.000e+000 0.000e+000 1.068e-002 -2.665e-003

36, 71 1, 1 4 78 -7.451e-009 -5.029e-008 3.308e-003 -1.004e-002

36, 72 1, 1 4 78 4.657e-010 7.451e-009 1.411e-002 7.620e-004

36, 73 1, 1 4 77 7.683e-009 5.215e-008 7.271e-003 -6.254e-003

36, 74 1, 1 4 78 -2.235e-008 -1.341e-007 4.806e-002 3.472e-002

36, 76 1, 1 4 78 -2.235e-008 -1.155e-007 4.673e-002 3.339e-002

36, 77 1, 1 4 78 -1.537e-008 -1.099e-007 8.031e-003 -5.314e-003

36, 78 1, 1 4 78 -7.538e-009 -4.866e-008 1.039e-005 -1.333e-002

36, 81 1, 1 4 78 -2.328e-010 0.000e+000 1.140e-002 -1.940e-003

36, 82 1, 1 4 78 -7.451e-009 -5.215e-008 7.802e-002 6.468e-002

36, 83 1, 1 4 77 0.000e+000 0.000e+000 1.247e-002 -1.052e-003

36, 85 1, 1 4 78 5.821e-011 4.657e-010 4.320e-004 -1.291e-002

36, 86 1, 1 4 78 -2.235e-008 -1.527e-007 2.430e-002 1.096e-002

36, 88 1, 1 4 78 0.000e+000 4.657e-010 8.630e-004 -1.248e-002

38, 39 1, 1 4 78 -1.909e-008 -1.341e-007 3.249e-002 1.915e-002

38, 42 1, 1 4 78 -1.909e-008 -1.714e-007 2.308e-002 9.733e-003

38, 44 1, 1 4 78 -3.958e-009 -3.353e-008 1.243e-003 -1.210e-002

38, 46 1, 1 4 78 1.118e-008 8.475e-008 1.160e-003 -1.219e-002

38, 47 1, 1 4 78 -1.863e-008 -1.453e-007 1.009e-002 -3.258e-003

38, 48 1, 1 4 78 3.609e-009 3.632e-008 1.855e-003 -1.149e-002

38, 49 1, 1 4 78 -3.667e-009 -2.515e-008 2.919e-004 -1.305e-002

38, 54 1, 1 4 78 7.800e-009 1.173e-007 1.023e-002 -3.116e-003

38, 55 1, 1 4 78 -1.135e-008 -1.062e-007 2.417e-004 -1.310e-002

38, 56 1, 1 4 78 -3.260e-009 -2.608e-008 1.878e-002 5.437e-003

38, 59 1, 1 4 78 -1.956e-008 -1.602e-007 2.131e-002 7.963e-003

38, 60 1, 1 4 77 -3.260e-009 -2.980e-008 3.168e-002 1.815e-002

38, 62 1, 1 4 78 -3.958e-009 -2.421e-008 4.138e-003 -9.207e-003

38, 64 1, 1 4 78 -3.725e-009 -2.608e-008 2.324e-002 9.890e-003

38, 65 1, 1 4 78 -1.886e-008 -1.397e-007 9.411e-003 -3.934e-003

38, 66 1, 1 4 78 -3.754e-009 -2.736e-008 1.322e-005 -1.333e-002

38, 67 1, 1 4 78 -3.842e-009 -3.027e-008 3.389e-004 -1.301e-002

38, 68 1, 1 4 78 -1.886e-008 -1.425e-007 1.522e-003 -1.182e-002

38, 70 1, 1 4 78 3.813e-009 3.166e-008 1.235e-004 -1.322e-002

38, 71 1, 1 4 78 -3.958e-009 -2.980e-008 3.987e-003 -9.358e-003

38, 72 1, 1 4 78 3.776e-009 3.295e-008 2.107e-006 -1.334e-002

38, 73 1, 1 4 77 -3.958e-009 -3.166e-008 1.040e-002 -3.125e-003

38, 74 1, 1 4 78 -1.956e-008 -1.416e-007 8.327e-002 6.993e-002

38, 76 1, 1 4 78 -1.886e-008 -1.211e-007 4.032e-003 -9.313e-003

38, 77 1, 1 4 78 -1.071e-008 -9.313e-008 6.094e-003 -7.251e-003

38, 78 1, 1 4 78 -3.725e-009 -2.794e-008 6.708e-003 -6.636e-003

38, 81 1, 1 4 78 3.492e-009 3.725e-008 2.272e-002 9.377e-003

38, 82 1, 1 4 78 -3.725e-009 -2.794e-008 1.297e-002 -3.786e-004

38, 83 1, 1 4 77 -1.132e-008 -7.427e-008 1.133e-004 -1.341e-002

38, 85 1, 1 4 78 3.609e-009 2.980e-008 3.123e-003 -1.022e-002

38, 86 1, 1 4 78 -1.886e-008 -1.602e-007 1.218e-002 -1.164e-003

38, 88 1, 1 4 78 3.725e-009 2.421e-008 4.722e-003 -8.623e-003

39, 42 1, 1 4 78 -2.980e-008 -1.565e-007 1.584e-002 2.495e-003

39, 44 1, 1 4 78 -1.490e-008 -7.264e-008 3.872e-003 -9.473e-003

39, 46 1, 1 4 78 0.000e+000 0.000e+000 1.750e-002 4.155e-003

39, 47 1, 1 4 78 -3.050e-008 -1.378e-007 4.730e-003 -8.615e-003

39, 48 1, 1 4 78 -8.149e-009 -4.657e-008 3.808e-003 -9.537e-003

39, 49 1, 1 4 78 -1.513e-008 -5.960e-008 1.692e-003 -1.165e-002

39, 54 1, 1 4 78 -3.725e-009 -3.166e-008 8.972e-003 -4.373e-003

39, 55 1, 1 4 78 -2.328e-008 -1.192e-007 1.110e-001 9.770e-002

39, 56 1, 1 4 78 -1.444e-008 -6.706e-008 1.734e-002 3.995e-003

39, 59 1, 1 4 78 -3.027e-008 -1.378e-007 1.634e-002 2.992e-003

39, 60 1, 1 4 77 -7.451e-009 -3.539e-008 7.475e-003 -6.050e-003

39, 62 1, 1 4 78 -1.490e-008 -6.706e-008 3.542e-002 2.208e-002

39, 64 1, 1 4 78 -1.397e-008 -5.588e-008 5.448e-002 4.114e-002

39, 65 1, 1 4 78 -3.073e-008 -1.267e-007 5.625e-002 4.291e-002

39, 66 1, 1 4 78 -1.490e-008 -5.588e-008 3.517e-002 2.183e-002

39, 67 1, 1 4 78 -1.304e-008 -6.333e-008 5.564e-002 4.230e-002

39, 68 1, 1 4 78 -3.027e-008 -1.304e-007 2.773e-003 -1.057e-002

39, 70 1, 1 4 78 -7.567e-009 -3.632e-008 1.227e-003 -1.212e-002

39, 71 1, 1 4 78 -1.537e-008 -7.078e-008 1.614e-002 2.790e-003

39, 72 1, 1 4 78 -7.451e-009 -3.818e-008 2.835e-003 -1.051e-002

39, 73 1, 1 4 77 -7.451e-009 -3.539e-008 3.474e-003 -1.005e-002

39, 74 1, 1 4 78 -3.073e-008 -1.267e-007 1.623e-002 2.882e-003

39, 76 1, 1 4 78 -2.980e-008 -1.118e-007 1.961e-002 6.262e-003

39, 77 1, 1 4 78 -2.328e-008 -1.155e-007 3.027e-002 1.693e-002

39, 78 1, 1 4 78 -1.490e-008 -7.078e-008 2.663e-002 1.328e-002

39, 81 1, 1 4 78 -6.985e-009 -4.098e-008 7.463e-003 -5.881e-003

39, 82 1, 1 4 78 -1.397e-008 -5.960e-008 5.123e-003 -8.222e-003

39, 83 1, 1 4 77 -1.502e-008 -5.681e-008 3.699e-004 -1.316e-002

39, 85 1, 1 4 78 -9.313e-009 -4.098e-008 4.301e-002 2.966e-002

39, 86 1, 1 4 78 -3.073e-008 -1.490e-007 1.100e-002 -2.343e-003

39, 88 1, 1 4 78 -8.382e-009 -3.353e-008 5.579e-003 -7.766e-003

42, 44 1, 1 4 78 -1.676e-008 -1.043e-007 9.738e-002 8.404e-002

42, 46 1, 1 4 78 0.000e+000 0.000e+000 5.453e-003 -7.892e-003

42, 47 1, 1 4 78 -3.073e-008 -1.788e-007 3.331e-002 1.997e-002

42, 48 1, 1 4 78 -7.509e-009 -5.541e-008 2.515e-004 -1.309e-002

42, 49 1, 1 4 78 -1.397e-008 -6.706e-008 9.817e-002 8.483e-002

42, 54 1, 1 4 78 -3.725e-009 -4.098e-008 2.776e-003 -1.057e-002

42, 55 1, 1 4 78 -2.270e-008 -1.555e-007 1.028e-003 -1.232e-002

42, 56 1, 1 4 78 -1.490e-008 -8.941e-008 2.292e-002 9.576e-003

42, 59 1, 1 4 78 -3.073e-008 -1.825e-007 1.687e-002 3.529e-003

42, 60 1, 1 4 77 2.235e-008 1.378e-007 3.799e-002 2.447e-002

42, 62 1, 1 4 78 -1.513e-008 -7.637e-008 6.854e-004 -1.266e-002

42, 64 1, 1 4 78 -1.490e-008 -7.451e-008 1.147e-002 -1.871e-003

42, 65 1, 1 4 78 -3.004e-008 -1.621e-007 1.583e-003 -1.176e-002

42, 66 1, 1 4 78 -1.583e-008 -8.754e-008 1.176e-002 -1.585e-003

42, 67 1, 1 4 78 -1.537e-008 -8.941e-008 1.958e-002 6.237e-003

42, 68 1, 1 4 78 -3.019e-008 -1.681e-007 8.591e-007 -1.334e-002

42, 70 1, 1 4 78 -7.451e-009 -4.657e-008 1.511e-003 -1.183e-002

42, 71 1, 1 4 78 -1.510e-008 -8.591e-008 1.090e-004 -1.324e-002

42, 72 1, 1 4 78 -7.567e-009 -4.843e-008 1.321e-003 -1.202e-002

42, 73 1, 1 4 77 2.247e-008 1.378e-007 2.150e-003 -1.138e-002

42, 74 1, 1 4 78 -3.004e-008 -1.621e-007 1.583e-003 -1.176e-002

42, 76 1, 1 4 78 -3.004e-008 -1.425e-007 2.338e-003 -1.101e-002

42, 77 1, 1 4 78 -2.328e-008 -1.490e-007 1.473e-002 1.385e-003

42, 78 1, 1 4 78 -1.490e-008 -8.568e-008 3.379e-002 2.045e-002

42, 81 1, 1 4 78 -7.916e-009 -5.960e-008 4.250e-002 2.916e-002

42, 82 1, 1 4 78 -1.490e-008 -8.568e-008 2.997e-002 1.663e-002

42, 83 1, 1 4 77 1.490e-008 7.451e-008 6.200e-002 4.848e-002

42, 85 1, 1 4 78 -7.916e-009 -4.843e-008 1.328e-002 -6.618e-005

42, 86 1, 1 4 78 -3.004e-008 -1.863e-007 5.641e-003 -7.704e-003

42, 88 1, 1 4 78 -7.567e-009 -4.005e-008 2.200e-004 -1.312e-002

44, 46 1, 1 4 78 1.397e-008 7.264e-008 8.123e-003 -5.221e-003

44, 47 1, 1 4 78 -1.508e-008 -8.149e-008 3.244e-004 -1.302e-002

44, 48 1, 1 4 78 7.509e-009 5.146e-008 2.210e-004 -1.312e-002

44, 49 1, 1 4 78 0.000e+000 3.725e-009 3.607e-002 2.273e-002

44, 54 1, 1 4 78 1.118e-008 1.155e-007 4.039e-002 2.704e-002

44, 55 1, 1 4 78 -8.382e-009 -5.402e-008 1.445e-002 1.107e-003

44, 56 1, 1 4 78 0.000e+000 0.000e+000 2.238e-003 -1.111e-002

44, 59 1, 1 4 78 -1.490e-008 -8.196e-008 3.160e-002 1.826e-002

44, 60 1, 1 4 77 7.218e-009 4.005e-008 1.682e-003 -1.184e-002

44, 62 1, 1 4 78 0.000e+000 -3.725e-009 2.564e-002 1.229e-002

44, 64 1, 1 4 78 -9.313e-010 -3.725e-009 2.281e-002 9.467e-003

44, 65 1, 1 4 78 -1.490e-008 -7.637e-008 1.349e-002 1.464e-004

44, 66 1, 1 4 78 4.657e-010 3.725e-009 1.737e-002 4.024e-003

44, 67 1, 1 4 78 0.000e+000 0.000e+000 1.288e-004 -1.322e-002

44, 68 1, 1 4 78 -1.397e-008 -6.706e-008 3.995e-002 2.660e-002

44, 70 1, 1 4 78 7.451e-009 4.470e-008 5.211e-002 3.877e-002

44, 71 1, 1 4 78 0.000e+000 0.000e+000 5.453e-003 -7.892e-003

44, 72 1, 1 4 78 7.683e-009 4.657e-008 3.496e-003 -9.849e-003

44, 73 1, 1 4 77 6.985e-009 3.912e-008 1.435e-002 8.231e-004

44, 74 1, 1 4 78 -1.508e-008 -7.683e-008 2.875e-004 -1.306e-002

44, 76 1, 1 4 78 -1.583e-008 -7.078e-008 1.890e-002 5.554e-003

44, 77 1, 1 4 78 -8.382e-009 -4.843e-008 4.268e-002 2.934e-002

44, 78 1, 1 4 78 0.000e+000 9.313e-010 2.096e-003 -1.125e-002

44, 81 1, 1 4 78 7.509e-009 5.146e-008 2.210e-004 -1.312e-002

44, 82 1, 1 4 78 0.000e+000 0.000e+000 1.859e-003 -1.149e-002

44, 83 1, 1 4 77 5.821e-011 4.657e-010 1.022e-004 -1.342e-002

44, 85 1, 1 4 78 7.683e-009 4.377e-008 3.239e-003 -1.011e-002

44, 86 1, 1 4 78 -1.676e-008 -1.006e-007 4.261e-002 2.926e-002

44, 88 1, 1 4 78 7.451e-009 3.353e-008 4.628e-002 3.293e-002

46, 47 1, 1 4 78 -9.313e-010 -7.451e-009 3.373e-002 2.039e-002

46, 48 1, 1 4 78 2.282e-008 1.434e-007 6.367e-003 -6.978e-003

46, 49 1, 1 4 78 1.490e-008 6.333e-008 2.460e-003 -1.089e-002

46, 54 1, 1 4 78 2.678e-008 2.477e-007 6.036e-003 -7.309e-003

46, 55 1, 1 4 78 8.382e-009 4.470e-008 1.680e-002 3.454e-003

46, 56 1, 1 4 78 1.490e-008 7.451e-008 1.791e-003 -1.155e-002

46, 59 1, 1 4 78 0.000e+000 0.000e+000 2.773e-002 1.438e-002

46, 60 1, 1 4 77 7.916e-009 4.098e-008 7.995e-003 -5.530e-003

46, 62 1, 1 4 78 1.537e-008 6.333e-008 1.028e-002 -3.062e-003

46, 64 1, 1 4 78 1.513e-008 6.706e-008 3.644e-003 -9.701e-003

46, 65 1, 1 4 78 0.000e+000 -9.313e-010 2.981e-003 -1.036e-002

46, 66 1, 1 4 78 1.537e-008 6.892e-008 1.337e-002 2.719e-005

46, 67 1, 1 4 78 1.490e-008 7.078e-008 4.441e-002 3.106e-002

46, 68 1, 1 4 78 2.910e-011 1.164e-010 4.894e-005 -1.330e-002

46, 70 1, 1 4 78 2.235e-008 1.155e-007 1.169e-002 -1.659e-003

46, 71 1, 1 4 78 1.583e-008 7.451e-008 2.955e-002 1.620e-002

46, 72 1, 1 4 78 2.282e-008 1.229e-007 4.165e-003 -9.180e-003

46, 73 1, 1 4 77 7.451e-009 3.912e-008 1.149e-003 -1.238e-002

46, 74 1, 1 4 78 1.863e-009 3.725e-009 2.054e-002 7.198e-003

46, 76 1, 1 4 78 -9.313e-010 -3.725e-009 5.742e-003 -7.603e-003

46, 77 1, 1 4 78 7.451e-009 3.725e-008 6.474e-002 5.139e-002

46, 78 1, 1 4 78 1.583e-008 7.451e-008 3.901e-002 2.567e-002

46, 81 1, 1 4 78 2.282e-008 1.434e-007 6.367e-003 -6.978e-003

46, 82 1, 1 4 78 1.490e-008 6.706e-008 2.491e-003 -1.085e-002

46, 83 1, 1 4 77 2.328e-010 9.313e-010 1.494e-003 -1.203e-002

46, 85 1, 1 4 78 2.142e-008 1.118e-007 5.794e-002 4.460e-002

46, 86 1, 1 4 78 0.000e+000 9.313e-010 3.859e-003 -9.486e-003

46, 88 1, 1 4 78 2.282e-008 1.006e-007 3.512e-003 -9.833e-003

47, 48 1, 1 4 78 -7.451e-009 -5.215e-008 3.197e-002 1.862e-002

47, 49 1, 1 4 78 -1.502e-008 -6.519e-008 3.858e-004 -1.296e-002

47, 54 1, 1 4 78 -2.794e-009 -2.235e-008 2.633e-002 1.299e-002

47, 55 1, 1 4 78 -2.328e-008 -1.378e-007 2.159e-002 8.249e-003

47, 56 1, 1 4 78 -1.304e-008 -5.960e-008 1.190e-001 1.057e-001

47, 59 1, 1 4 78 -2.980e-008 -1.490e-007 6.573e-002 5.238e-002

47, 60 1, 1 4 77 -7.218e-009 -3.725e-008 3.406e-003 -1.012e-002

47, 62 1, 1 4 78 -1.508e-008 -6.531e-008 4.208e-005 -1.330e-002

47, 64 1, 1 4 78 -1.397e-008 -6.333e-008 3.535e-002 2.201e-002

47, 65 1, 1 4 78 -3.073e-008 -1.416e-007 2.174e-002 8.394e-003

47, 66 1, 1 4 78 -1.519e-008 -7.055e-008 1.941e-004 -1.315e-002

47, 67 1, 1 4 78 -1.537e-008 -7.823e-008 6.636e-003 -6.709e-003

47, 68 1, 1 4 78 -3.015e-008 -1.458e-007 1.867e-004 -1.316e-002

47, 70 1, 1 4 78 -7.916e-009 -4.470e-008 7.104e-003 -6.240e-003

47, 71 1, 1 4 78 -1.490e-008 -7.451e-008 1.483e-002 1.490e-003

47, 72 1, 1 4 78 -6.519e-009 -4.098e-008 3.037e-002 1.703e-002

47, 73 1, 1 4 77 -7.549e-009 -4.159e-008 2.130e-015 -1.353e-002

47, 74 1, 1 4 78 -3.027e-008 -1.490e-007 1.634e-002 2.997e-003

47, 76 1, 1 4 78 -3.027e-008 -1.285e-007 1.514e-002 1.794e-003

47, 77 1, 1 4 78 -2.282e-008 -1.248e-007 1.418e-002 8.398e-004

47, 78 1, 1 4 78 -1.537e-008 -7.451e-008 5.584e-003 -7.760e-003

47, 81 1, 1 4 78 -7.916e-009 -4.470e-008 3.707e-002 2.373e-002

47, 82 1, 1 4 78 -1.490e-008 -7.078e-008 1.018e-002 -3.169e-003

47, 83 1, 1 4 77 -1.467e-008 -6.147e-008 1.887e-003 -1.164e-002

47, 85 1, 1 4 78 -7.451e-009 -3.912e-008 4.013e-003 -9.332e-003

47, 86 1, 1 4 78 -2.887e-008 -1.565e-007 3.248e-002 1.914e-002

47, 88 1, 1 4 78 -6.519e-009 -2.980e-008 1.694e-002 3.592e-003

48, 49 1, 1 4 78 7.916e-009 4.470e-008 2.077e-002 7.426e-003

48, 54 1, 1 4 78 1.863e-008 2.217e-007 1.082e-002 -2.521e-003

48, 55 1, 1 4 78 -2.328e-010 -3.725e-009 4.299e-003 -9.046e-003

48, 56 1, 1 4 78 6.985e-009 4.843e-008 2.890e-002 1.556e-002

48, 59 1, 1 4 78 -7.547e-009 -4.969e-008 5.884e-015 -1.334e-002

48, 60 1, 1 4 77 7.451e-009 4.843e-008 1.899e-002 5.467e-003

48, 62 1, 1 4 78 6.985e-009 3.725e-008 5.097e-003 -8.248e-003

48, 64 1, 1 4 78 9.313e-009 5.960e-008 3.853e-002 2.519e-002

48, 65 1, 1 4 78 -7.916e-009 -4.750e-008 2.682e-003 -1.066e-002

48, 66 1, 1 4 78 7.683e-009 4.470e-008 5.879e-003 -7.466e-003

48, 67 1, 1 4 78 7.800e-009 5.029e-008 7.689e-004 -1.258e-002

48, 68 1, 1 4 78 -7.451e-009 -4.470e-008 1.761e-002 4.266e-003

48, 70 1, 1 4 78 1.513e-008 1.043e-007 3.433e-003 -9.912e-003

48, 71 1, 1 4 78 8.382e-009 5.402e-008 1.181e-002 -1.531e-003

48, 72 1, 1 4 78 1.502e-008 1.066e-007 2.342e-004 -1.311e-002

48, 73 1, 1 4 77 7.567e-009 5.122e-008 2.597e-003 -1.093e-002

48, 74 1, 1 4 78 -7.916e-009 -4.750e-008 2.682e-003 -1.066e-002

48, 76 1, 1 4 78 -7.451e-009 -3.912e-008 6.310e-003 -7.035e-003

48, 77 1, 1 4 78 0.000e+000 -1.863e-009 8.364e-003 -4.981e-003

48, 78 1, 1 4 78 6.519e-009 3.353e-008 4.228e-002 2.893e-002

48, 81 1, 1 4 78 1.513e-008 1.211e-007 7.626e-003 -5.719e-003

48, 82 1, 1 4 78 7.916e-009 4.657e-008 1.350e-002 1.550e-004

48, 83 1, 1 4 77 0.000e+000 1.455e-011 8.276e-007 -1.352e-002

48, 85 1, 1 4 78 1.444e-008 9.686e-008 4.253e-002 2.918e-002

48, 86 1, 1 4 78 -6.985e-009 -4.470e-008 1.389e-002 5.418e-004

48, 88 1, 1 4 78 1.583e-008 9.127e-008 9.986e-003 -3.358e-003

49, 54 1, 1 4 78 1.164e-008 9.686e-008 3.298e-002 1.964e-002

49, 55 1, 1 4 78 -7.916e-009 -4.284e-008 4.933e-003 -8.412e-003

49, 56 1, 1 4 78 -4.657e-010 -1.863e-009 1.116e-002 -2.180e-003

49, 59 1, 1 4 78 -1.513e-008 -6.892e-008 1.392e-003 -1.195e-002

49, 60 1, 1 4 77 7.480e-009 3.364e-008 5.326e-005 -1.347e-002

49, 62 1, 1 4 78 0.000e+000 0.000e+000 5.563e-003 -7.782e-003

49, 64 1, 1 4 78 2.794e-009 1.118e-008 2.076e-002 7.412e-003

49, 65 1, 1 4 78 -1.490e-008 -6.333e-008 4.222e-002 2.887e-002

49, 66 1, 1 4 78 0.000e+000 -2.328e-010 2.313e-004 -1.311e-002

49, 67 1, 1 4 78 4.657e-010 1.863e-009 6.449e-003 -6.896e-003

49, 68 1, 1 4 78 -1.496e-008 -6.333e-008 1.597e-004 -1.319e-002

49, 70 1, 1 4 78 7.567e-009 3.516e-008 1.945e-004 -1.315e-002

49, 71 1, 1 4 78 9.313e-010 3.725e-009 1.209e-002 -1.254e-003

49, 72 1, 1 4 78 7.683e-009 3.725e-008 1.705e-003 -1.164e-002

49, 73 1, 1 4 77 9.313e-009 4.470e-008 3.136e-002 1.784e-002

49, 74 1, 1 4 78 -1.513e-008 -6.240e-008 3.799e-003 -9.545e-003

49, 76 1, 1 4 78 -1.676e-008 -6.333e-008 2.805e-002 1.470e-002

49, 77 1, 1 4 78 -8.382e-009 -4.470e-008 3.118e-002 1.783e-002

49, 78 1, 1 4 78 0.000e+000 0.000e+000 5.470e-003 -7.875e-003

49, 81 1, 1 4 78 6.985e-009 3.912e-008 1.168e-002 -1.661e-003

49, 82 1, 1 4 78 0.000e+000 1.863e-009 4.852e-003 -8.493e-003

49, 83 1, 1 4 77 -9.313e-010 -7.451e-009 3.910e-002 2.558e-002

49, 85 1, 1 4 78 7.683e-009 3.632e-008 2.645e-003 -1.070e-002

49, 86 1, 1 4 78 -1.583e-008 -7.451e-008 6.373e-002 5.039e-002

49, 88 1, 1 4 78 7.451e-009 2.980e-008 3.399e-002 2.064e-002

54, 55 1, 1 4 78 3.725e-009 4.284e-008 1.067e-002 -2.679e-003

54, 56 1, 1 4 78 1.135e-008 1.104e-007 5.925e-004 -1.275e-002

54, 59 1, 1 4 78 -3.492e-009 -3.353e-008 1.269e-002 -6.570e-004

54, 60 1, 1 4 77 1.886e-008 1.863e-007 1.910e-002 5.578e-003

54, 62 1, 1 4 78 1.118e-008 9.313e-008 6.036e-003 -7.309e-003

54, 64 1, 1 4 78 1.118e-008 9.313e-008 2.750e-002 1.416e-002

54, 65 1, 1 4 78 -3.842e-009 -3.446e-008 1.375e-003 -1.197e-002

54, 66 1, 1 4 78 1.118e-008 9.779e-008 2.777e-003 -1.057e-002

54, 67 1, 1 4 78 1.118e-008 1.043e-007 3.512e-002 2.178e-002

54, 68 1, 1 4 78 -3.725e-009 -2.980e-008 1.592e-002 2.575e-003

54, 70 1, 1 4 78 1.886e-008 1.919e-007 1.500e-002 1.658e-003

54, 71 1, 1 4 78 1.164e-008 1.043e-007 7.761e-002 6.427e-002

54, 72 1, 1 4 78 1.880e-008 1.988e-007 6.024e-004 -1.274e-002

54, 73 1, 1 4 77 1.898e-008 1.909e-007 2.241e-003 -1.128e-002

54, 74 1, 1 4 78 -3.842e-009 -3.399e-008 4.312e-004 -1.291e-002

54, 76 1, 1 4 78 -3.842e-009 -2.980e-008 3.576e-003 -9.769e-003

54, 77 1, 1 4 78 3.725e-009 3.725e-008 8.890e-003 -4.455e-003

54, 78 1, 1 4 78 1.141e-008 1.043e-007 2.133e-002 7.981e-003

54, 81 1, 1 4 78 1.886e-008 2.263e-007 2.706e-003 -1.064e-002

54, 82 1, 1 4 78 1.141e-008 1.006e-007 1.892e-002 5.571e-003

54, 83 1, 1 4 77 1.164e-008 8.941e-008 2.811e-002 1.459e-002

54, 85 1, 1 4 78 1.886e-008 1.900e-007 7.998e-003 -5.347e-003

54, 86 1, 1 4 78 -3.842e-009 -3.912e-008 1.780e-003 -1.157e-002

54, 88 1, 1 4 78 1.863e-008 1.602e-007 2.478e-002 1.143e-002

55, 56 1, 1 4 78 -7.451e-009 -4.657e-008 1.356e-003 -1.199e-002

55, 59 1, 1 4 78 -2.258e-008 -1.406e-007 2.143e-003 -1.120e-002

55, 60 1, 1 4 77 7.451e-009 4.470e-008 7.219e-002 5.867e-002

55, 62 1, 1 4 78 -7.916e-009 -4.470e-008 2.083e-002 7.482e-003

55, 64 1, 1 4 78 -6.519e-009 -3.725e-008 9.841e-003 -3.504e-003

55, 65 1, 1 4 78 -2.142e-008 -1.192e-007 6.899e-002 5.565e-002

55, 66 1, 1 4 78 -7.218e-009 -4.098e-008 7.361e-003 -5.984e-003

55, 67 1, 1 4 78 -8.848e-009 -5.588e-008 2.597e-002 1.263e-002

55, 68 1, 1 4 78 -2.270e-008 -1.299e-007 5.737e-004 -1.277e-002

55, 70 1, 1 4 78 2.328e-010 0.000e+000 4.580e-003 -8.764e-003

55, 71 1, 1 4 78 -7.916e-009 -4.843e-008 2.402e-002 1.067e-002

55, 72 1, 1 4 78 0.000e+000 0.000e+000 5.031e-002 3.696e-002

55, 73 1, 1 4 77 7.451e-009 4.563e-008 1.752e-003 -1.177e-002

55, 74 1, 1 4 78 -2.261e-008 -1.269e-007 5.592e-005 -1.329e-002

55, 76 1, 1 4 78 -2.263e-008 -1.114e-007 1.074e-005 -1.333e-002

55, 77 1, 1 4 78 -1.537e-008 -9.686e-008 1.574e-002 2.392e-003

55, 78 1, 1 4 78 -7.451e-009 -4.470e-008 1.410e-002 7.583e-004

55, 81 1, 1 4 78 1.164e-010 9.313e-010 1.075e-003 -1.227e-002

55, 82 1, 1 4 78 -7.451e-009 -3.725e-008 3.202e-002 1.868e-002

55, 83 1, 1 4 77 1.455e-011 1.746e-010 1.182e-005 -1.351e-002

55, 85 1, 1 4 78 0.000e+000 3.725e-009 4.660e-002 3.326e-002

55, 86 1, 1 4 78 -2.235e-008 -1.416e-007 7.942e-002 6.607e-002

55, 88 1, 1 4 78 0.000e+000 0.000e+000 1.879e-002 5.445e-003

56, 59 1, 1 4 78 -1.537e-008 -8.568e-008 1.709e-002 3.740e-003

56, 60 1, 1 4 77 -7.451e-009 -3.353e-008 3.781e-002 2.428e-002

56, 62 1, 1 4 78 2.328e-010 9.313e-010 1.791e-003 -1.155e-002

56, 64 1, 1 4 78 4.657e-010 1.863e-009 9.752e-003 -3.593e-003

56, 65 1, 1 4 78 -1.508e-008 -7.288e-008 9.398e-005 -1.325e-002

56, 66 1, 1 4 78 0.000e+000 -5.821e-011 5.721e-006 -1.334e-002

56, 67 1, 1 4 78 0.000e+000 0.000e+000 5.098e-002 3.763e-002

56, 68 1, 1 4 78 -1.444e-008 -7.264e-008 6.720e-003 -6.625e-003

56, 70 1, 1 4 78 7.218e-009 4.005e-008 2.714e-003 -1.063e-002

56, 71 1, 1 4 78 -1.863e-009 -1.118e-008 2.649e-002 1.315e-002

56, 72 1, 1 4 78 7.683e-009 4.284e-008 3.972e-003 -9.373e-003

56, 73 1, 1 4 77 -7.392e-009 -4.098e-008 2.407e-004 -1.328e-002

56, 74 1, 1 4 78 -1.304e-008 -5.960e-008 1.055e-001 9.212e-002

56, 76 1, 1 4 78 -1.502e-008 -6.380e-008 5.460e-004 -1.280e-002

56, 77 1, 1 4 78 -7.683e-009 -4.563e-008 3.590e-003 -9.755e-003

56, 78 1, 1 4 78 -4.657e-010 -1.863e-009 1.275e-002 -5.984e-004

56, 81 1, 1 4 78 7.916e-009 4.843e-008 7.225e-003 -6.120e-003

56, 82 1, 1 4 78 4.657e-010 2.794e-009 2.575e-003 -1.077e-002

56, 83 1, 1 4 77 -1.583e-008 -6.706e-008 1.867e-002 5.141e-003

56, 85 1, 1 4 78 7.916e-009 4.470e-008 6.842e-003 -6.503e-003

56, 86 1, 1 4 78 -1.537e-008 -8.661e-008 3.680e-003 -9.665e-003

56, 88 1, 1 4 78 7.683e-009 3.446e-008 3.149e-003 -1.020e-002

59, 60 1, 1 4 77 1.490e-008 7.916e-008 3.642e-003 -9.883e-003

59, 62 1, 1 4 78 -1.490e-008 -6.612e-008 2.110e-003 -1.124e-002

59, 64 1, 1 4 78 -1.513e-008 -6.892e-008 5.129e-003 -8.216e-003

59, 65 1, 1 4 78 -3.073e-008 -1.490e-007 4.095e-002 2.760e-002

59, 66 1, 1 4 78 -1.502e-008 -7.241e-008 1.172e-004 -1.323e-002

59, 67 1, 1 4 78 -1.490e-008 -7.451e-008 3.989e-002 2.654e-002

59, 68 1, 1 4 78 -3.027e-008 -1.490e-007 1.624e-002 2.896e-003

59, 70 1, 1 4 78 -7.683e-009 -4.284e-008 1.491e-003 -1.185e-002

59, 71 1, 1 4 78 -1.513e-008 -7.823e-008 5.131e-003 -8.214e-003

59, 72 1, 1 4 78 -7.451e-009 -4.284e-008 2.691e-003 -1.065e-002

59, 73 1, 1 4 77 1.513e-008 8.196e-008 4.568e-003 -8.957e-003

59, 74 1, 1 4 78 -3.166e-008 -1.490e-007 9.287e-002 7.953e-002

59, 76 1, 1 4 78 -2.980e-008 -1.267e-007 8.199e-002 6.864e-002

59, 77 1, 1 4 78 -2.261e-008 -1.299e-007 7.414e-005 -1.327e-002

59, 78 1, 1 4 78 -1.630e-008 -8.382e-008 8.634e-003 -4.710e-003

59, 81 1, 1 4 78 -7.218e-009 -4.657e-008 7.311e-003 -6.034e-003

59, 82 1, 1 4 78 -1.490e-008 -7.078e-008 1.042e-002 -2.921e-003

59, 83 1, 1 4 77 8.382e-009 3.912e-008 4.819e-003 -8.706e-003

59, 85 1, 1 4 78 -7.916e-009 -4.470e-008 2.500e-002 1.165e-002

59, 86 1, 1 4 78 -3.073e-008 -1.714e-007 2.770e-002 1.435e-002

59, 88 1, 1 4 78 -8.382e-009 -3.725e-008 2.634e-002 1.299e-002

60, 62 1, 1 4 77 7.451e-009 3.353e-008 6.651e-003 -6.874e-003

60, 64 1, 1 4 77 -7.218e-009 -3.353e-008 1.602e-003 -1.192e-002

60, 65 1, 1 4 77 -6.985e-009 -3.353e-008 7.559e-003 -5.966e-003

60, 66 1, 1 4 77 2.235e-008 1.118e-007 4.538e-002 3.186e-002

60, 67 1, 1 4 77 1.513e-008 7.963e-008 2.579e-004 -1.327e-002

60, 68 1, 1 4 77 -7.451e-009 -3.539e-008 1.107e-002 -2.456e-003

60, 70 1, 1 4 77 2.235e-008 1.229e-007 2.808e-002 1.456e-002

60, 71 1, 1 4 77 7.683e-009 3.912e-008 3.590e-003 -9.935e-003

60, 72 1, 1 4 77 1.510e-008 8.696e-008 2.414e-005 -1.350e-002

60, 73 1, 1 4 76 -1.444e-008 -7.823e-008 2.242e-002 8.712e-003

60, 74 1, 1 4 77 -7.451e-009 -3.353e-008 1.001e-002 -3.511e-003

60, 76 1, 1 4 77 6.519e-009 2.608e-008 2.952e-002 1.600e-002

60, 77 1, 1 4 77 2.258e-008 1.267e-007 5.465e-003 -8.060e-003

60, 78 1, 1 4 77 -7.567e-009 -3.900e-008 1.742e-006 -1.352e-002

60, 81 1, 1 4 77 7.567e-009 5.029e-008 7.057e-004 -1.282e-002

60, 82 1, 1 4 77 -7.916e-009 -3.912e-008 1.281e-002 -7.135e-004

60, 83 1, 1 4 76 -1.583e-008 -6.706e-008 3.006e-002 1.635e-002

60, 85 1, 1 4 77 1.490e-008 7.823e-008 6.012e-003 -7.513e-003

60, 86 1, 1 4 77 -7.538e-009 -4.144e-008 2.235e-005 -1.350e-002

60, 88 1, 1 4 77 0.000e+000 0.000e+000 9.367e-003 -4.158e-003

62, 64 1, 1 4 78 -4.657e-010 -3.725e-009 6.563e-003 -6.782e-003

62, 65 1, 1 4 78 -1.490e-008 -5.960e-008 3.209e-002 1.874e-002

62, 66 1, 1 4 78 -1.164e-010 -4.657e-010 9.697e-004 -1.238e-002

62, 67 1, 1 4 78 1.863e-009 1.490e-008 1.105e-001 9.715e-002

62, 68 1, 1 4 78 -1.502e-008 -6.286e-008 5.267e-004 -1.282e-002

62, 70 1, 1 4 78 8.382e-009 3.353e-008 3.063e-002 1.729e-002

62, 71 1, 1 4 78 0.000e+000 0.000e+000 4.106e-003 -9.238e-003

62, 72 1, 1 4 78 7.596e-009 3.644e-008 5.210e-005 -1.329e-002

62, 73 1, 1 4 77 7.916e-009 3.632e-008 1.878e-003 -1.165e-002

62, 74 1, 1 4 78 -1.444e-008 -6.333e-008 1.593e-002 2.583e-003

62, 76 1, 1 4 78 -1.537e-008 -5.215e-008 1.034e-002 -3.003e-003

62, 77 1, 1 4 78 -8.382e-009 -3.725e-008 8.688e-002 7.353e-002

62, 78 1, 1 4 78 4.657e-010 0.000e+000 1.617e-002 2.823e-003

62, 81 1, 1 4 78 6.985e-009 3.725e-008 2.039e-002 7.043e-003

62, 82 1, 1 4 78 4.657e-010 1.863e-009 1.434e-002 9.954e-004

62, 83 1, 1 4 77 0.000e+000 0.000e+000 5.796e-002 4.444e-002

62, 85 1, 1 4 78 6.985e-009 3.353e-008 2.062e-002 7.271e-003

62, 86 1, 1 4 78 -1.490e-008 -7.078e-008 4.739e-002 3.404e-002

62, 88 1, 1 4 78 7.625e-009 3.004e-008 9.642e-005 -1.325e-002

64, 65 1, 1 4 78 -1.513e-008 -6.240e-008 1.704e-003 -1.164e-002

64, 66 1, 1 4 78 0.000e+000 0.000e+000 9.080e-003 -4.265e-003

64, 67 1, 1 4 78 2.328e-010 1.863e-009 4.055e-003 -9.290e-003

64, 68 1, 1 4 78 -1.502e-008 -6.426e-008 6.299e-004 -1.271e-002

64, 70 1, 1 4 78 7.683e-009 3.725e-008 7.674e-004 -1.258e-002

64, 71 1, 1 4 78 9.313e-010 1.863e-009 8.022e-003 -5.323e-003

64, 72 1, 1 4 78 7.451e-009 3.912e-008 6.435e-003 -6.910e-003

64, 73 1, 1 4 77 -7.549e-009 -3.622e-008 1.349e-015 -1.353e-002

64, 74 1, 1 4 78 -1.537e-008 -6.519e-008 4.701e-003 -8.644e-003

64, 76 1, 1 4 78 -1.676e-008 -6.706e-008 5.430e-002 4.095e-002

64, 77 1, 1 4 78 -7.451e-009 -3.725e-008 5.495e-003 -7.850e-003

64, 78 1, 1 4 78 0.000e+000 -3.725e-009 4.938e-002 3.603e-002

64, 81 1, 1 4 78 6.985e-009 4.098e-008 9.633e-003 -3.711e-003

64, 82 1, 1 4 78 0.000e+000 0.000e+000 1.373e-002 3.900e-004

64, 83 1, 1 4 77 -1.490e-008 -6.333e-008 4.705e-002 3.352e-002

64, 85 1, 1 4 78 7.451e-009 2.980e-008 4.087e-002 2.753e-002

64, 86 1, 1 4 78 -1.513e-008 -7.264e-008 2.205e-003 -1.114e-002

64, 88 1, 1 4 78 7.451e-009 2.980e-008 3.528e-003 -9.817e-003

65, 66 1, 1 4 78 -1.537e-008 -6.799e-008 1.912e-003 -1.143e-002

65, 67 1, 1 4 78 -1.513e-008 -7.218e-008 2.500e-004 -1.309e-002

65, 68 1, 1 4 78 -3.015e-008 -1.371e-007 1.655e-004 -1.318e-002

65, 70 1, 1 4 78 -7.683e-009 -3.725e-008 2.596e-003 -1.075e-002

65, 71 1, 1 4 78 -1.676e-008 -7.451e-008 1.064e-001 9.304e-002

65, 72 1, 1 4 78 -6.985e-009 -3.725e-008 2.024e-002 6.891e-003

65, 73 1, 1 4 77 -7.451e-009 -3.912e-008 3.782e-003 -9.743e-003

65, 74 1, 1 4 78 -3.018e-008 -1.339e-007 2.671e-005 -1.332e-002

65, 76 1, 1 4 78 -3.027e-008 -1.229e-007 1.239e-002 -9.560e-004

65, 77 1, 1 4 78 -2.095e-008 -1.118e-007 2.132e-002 7.978e-003

65, 78 1, 1 4 78 -1.537e-008 -7.078e-008 4.949e-003 -8.395e-003

65, 81 1, 1 4 78 -7.683e-009 -4.610e-008 6.705e-004 -1.267e-002

65, 82 1, 1 4 78 -1.513e-008 -6.706e-008 3.951e-004 -1.295e-002

65, 83 1, 1 4 77 -1.444e-008 -5.960e-008 4.731e-003 -8.794e-003

65, 85 1, 1 4 78 -7.451e-009 -3.725e-008 4.098e-002 2.764e-002

65, 86 1, 1 4 78 -3.073e-008 -1.583e-007 8.538e-003 -4.807e-003

65, 88 1, 1 4 78 -6.519e-009 -2.421e-008 1.501e-002 1.666e-003

66, 67 1, 1 4 78 0.000e+000 4.657e-010 8.562e-004 -1.249e-002

66, 68 1, 1 4 78 -1.490e-008 -6.706e-008 4.067e-004 -1.294e-002

66, 70 1, 1 4 78 7.683e-009 3.795e-008 9.786e-005 -1.325e-002

66, 71 1, 1 4 78 -1.164e-010 -2.328e-010 1.316e-004 -1.321e-002

66, 72 1, 1 4 78 6.985e-009 3.725e-008 2.246e-002 9.117e-003

66, 73 1, 1 4 77 2.328e-008 1.173e-007 9.702e-003 -3.823e-003

66, 74 1, 1 4 78 -1.519e-008 -6.612e-008 1.720e-004 -1.317e-002

66, 76 1, 1 4 78 -1.525e-008 -5.821e-008 3.671e-004 -1.298e-002

66, 77 1, 1 4 78 -7.567e-009 -3.912e-008 1.298e-003 -1.205e-002

66, 78 1, 1 4 78 0.000e+000 1.863e-009 3.905e-003 -9.440e-003

66, 81 1, 1 4 78 7.683e-009 4.470e-008 5.879e-003 -7.466e-003

66, 82 1, 1 4 78 0.000e+000 0.000e+000 4.751e-006 -1.334e-002

66, 83 1, 1 4 77 1.583e-008 6.706e-008 2.222e-002 8.698e-003

66, 85 1, 1 4 78 7.451e-009 3.539e-008 6.334e-003 -7.011e-003

66, 86 1, 1 4 78 -1.490e-008 -7.451e-008 1.309e-002 -2.559e-004

66, 88 1, 1 4 78 7.567e-009 3.190e-008 4.003e-005 -1.330e-002

67, 68 1, 1 4 78 -1.513e-008 -7.357e-008 8.044e-004 -1.254e-002

67, 70 1, 1 4 78 7.451e-009 3.725e-008 2.048e-002 7.136e-003

67, 71 1, 1 4 78 1.863e-009 7.451e-009 3.932e-002 2.597e-002

67, 72 1, 1 4 78 7.625e-009 4.284e-008 3.153e-004 -1.303e-002

67, 73 1, 1 4 77 1.537e-008 8.196e-008 1.352e-002 -5.051e-006

67, 74 1, 1 4 78 -1.490e-008 -7.078e-008 5.330e-002 3.995e-002

67, 76 1, 1 4 78 -1.490e-008 -5.960e-008 2.409e-002 1.075e-002

67, 77 1, 1 4 78 -6.054e-009 -3.353e-008 2.901e-002 1.567e-002

67, 78 1, 1 4 78 0.000e+000 -4.657e-010 5.108e-004 -1.283e-002

67, 81 1, 1 4 78 7.218e-009 4.470e-008 4.806e-003 -8.539e-003

67, 82 1, 1 4 78 0.000e+000 0.000e+000 3.761e-002 2.426e-002

67, 83 1, 1 4 77 7.451e-009 2.608e-008 3.350e-002 1.997e-002

67, 85 1, 1 4 78 7.451e-009 4.098e-008 2.506e-002 1.172e-002

67, 86 1, 1 4 78 -1.676e-008 -8.941e-008 1.927e-001 1.793e-001

67, 88 1, 1 4 78 7.567e-009 3.492e-008 4.893e-004 -1.286e-002

68, 70 1, 1 4 78 -1.118e-008 -5.960e-008 1.232e-001 1.099e-001

68, 71 1, 1 4 78 -1.490e-008 -7.078e-008 3.052e-002 1.718e-002

68, 72 1, 1 4 78 -6.519e-009 -3.353e-008 3.596e-002 2.262e-002

68, 73 1, 1 4 77 -9.313e-009 -5.215e-008 3.754e-002 2.401e-002

68, 74 1, 1 4 78 -3.004e-008 -1.369e-007 2.131e-003 -1.121e-002

68, 76 1, 1 4 78 -2.794e-008 -1.192e-007 7.687e-002 6.352e-002

68, 77 1, 1 4 78 -2.258e-008 -1.206e-007 3.500e-004 -1.299e-002

68, 78 1, 1 4 78 -1.490e-008 -6.892e-008 1.170e-002 -1.646e-003

68, 81 1, 1 4 78 -7.916e-009 -5.215e-008 2.976e-002 1.642e-002

68, 82 1, 1 4 78 -1.490e-008 -6.706e-008 3.702e-002 2.368e-002

68, 83 1, 1 4 77 -1.490e-008 -5.960e-008 1.858e-002 5.059e-003

68, 85 1, 1 4 78 -8.382e-009 -4.098e-008 6.234e-002 4.899e-002

68, 86 1, 1 4 78 -2.980e-008 -1.565e-007 4.670e-002 3.335e-002

68, 88 1, 1 4 78 -7.451e-009 -3.260e-008 1.333e-003 -1.201e-002

70, 71 1, 1 4 78 6.519e-009 3.725e-008 2.220e-002 8.857e-003

70, 72 1, 1 4 78 1.490e-008 8.196e-008 1.883e-002 5.489e-003

70, 73 1, 1 4 77 2.235e-008 1.267e-007 1.935e-002 5.827e-003

70, 74 1, 1 4 78 -7.683e-009 -3.725e-008 2.596e-003 -1.075e-002

70, 76 1, 1 4 78 -7.451e-009 -2.980e-008 4.323e-002 2.988e-002

70, 77 1, 1 4 78 9.313e-010 1.490e-008 8.357e-002 7.023e-002

70, 78 1, 1 4 78 7.392e-009 3.912e-008 3.449e-004 -1.300e-002

70, 81 1, 1 4 78 1.490e-008 9.686e-008 1.373e-002 3.863e-004

70, 82 1, 1 4 78 7.451e-009 3.725e-008 1.264e-002 -7.033e-004

70, 83 1, 1 4 77 1.583e-008 7.451e-008 4.104e-002 2.752e-002

70, 85 1, 1 4 78 1.508e-008 8.615e-008 4.371e-004 -1.291e-002

70, 86 1, 1 4 78 -7.625e-009 -4.331e-008 4.371e-004 -1.291e-002

70, 88 1, 1 4 78 1.513e-008 7.264e-008 5.091e-004 -1.284e-002

71, 72 1, 1 4 78 7.538e-009 4.168e-008 5.367e-005 -1.329e-002

71, 73 1, 1 4 77 7.683e-009 4.098e-008 4.805e-003 -8.720e-003

71, 74 1, 1 4 78 -1.513e-008 -6.985e-008 5.768e-004 -1.277e-002

71, 76 1, 1 4 78 -1.508e-008 -6.147e-008 7.378e-006 -1.334e-002

71, 77 1, 1 4 78 -8.382e-009 -4.843e-008 3.261e-002 1.927e-002

71, 78 1, 1 4 78 -2.328e-010 -9.313e-010 3.785e-003 -9.560e-003

71, 81 1, 1 4 78 7.800e-009 4.936e-008 7.384e-004 -1.261e-002

71, 82 1, 1 4 78 -4.657e-010 -1.863e-009 8.594e-003 -4.751e-003

71, 83 1, 1 4 77 0.000e+000 0.000e+000 2.169e-002 8.163e-003

71, 85 1, 1 4 78 7.451e-009 3.725e-008 3.968e-002 2.634e-002

71, 86 1, 1 4 78 -1.537e-008 -8.103e-008 3.807e-003 -9.538e-003

71, 88 1, 1 4 78 1.024e-008 3.725e-008 5.579e-002 4.245e-002

72, 73 1, 1 4 77 1.490e-008 8.568e-008 1.519e-002 1.663e-003

72, 74 1, 1 4 78 -7.567e-009 -3.865e-008 7.799e-004 -1.256e-002

72, 76 1, 1 4 78 -8.382e-009 -3.725e-008 4.887e-002 3.552e-002

72, 77 1, 1 4 78 5.821e-011 4.657e-010 1.520e-004 -1.319e-002

72, 78 1, 1 4 78 7.683e-009 4.261e-008 1.229e-004 -1.322e-002

72, 81 1, 1 4 78 1.490e-008 1.080e-007 2.342e-002 1.008e-002

72, 82 1, 1 4 78 7.451e-009 3.725e-008 6.815e-002 5.480e-002

72, 83 1, 1 4 77 8.382e-009 2.980e-008 6.581e-002 5.228e-002

72, 85 1, 1 4 78 1.490e-008 8.941e-008 5.726e-002 4.391e-002

72, 86 1, 1 4 78 -7.538e-009 -4.482e-008 4.830e-005 -1.330e-002

72, 88 1, 1 4 78 1.537e-008 7.637e-008 6.264e-003 -7.081e-003

73, 74 1, 1 4 77 -7.683e-009 -3.912e-008 2.229e-003 -1.130e-002

73, 76 1, 1 4 77 7.451e-009 3.166e-008 9.828e-003 -3.697e-003

73, 77 1, 1 4 77 2.235e-008 1.267e-007 8.380e-002 7.027e-002

73, 78 1, 1 4 77 -6.519e-009 -3.353e-008 3.806e-002 2.454e-002

73, 81 1, 1 4 77 7.683e-009 5.215e-008 6.858e-003 -6.667e-003

73, 82 1, 1 4 77 -7.451e-009 -4.098e-008 1.278e-002 -7.500e-004

73, 83 1, 1 4 76 -3.073e-008 -1.378e-007 5.676e-003 -8.034e-003

73, 85 1, 1 4 77 1.537e-008 9.313e-008 2.117e-002 7.647e-003

73, 86 1, 1 4 77 -7.451e-009 -4.470e-008 8.353e-003 -5.172e-003

73, 88 1, 1 4 77 0.000e+000 3.725e-009 5.592e-002 4.240e-002

74, 76 1, 1 4 78 -3.027e-008 -1.171e-007 2.215e-004 -1.312e-002

74, 77 1, 1 4 78 -2.264e-008 -1.183e-007 1.088e-004 -1.324e-002

74, 78 1, 1 4 78 -1.444e-008 -6.706e-008 1.589e-003 -1.176e-002

74, 81 1, 1 4 78 -7.451e-009 -4.098e-008 1.676e-002 3.419e-003

74, 82 1, 1 4 78 -1.537e-008 -6.892e-008 2.361e-003 -1.098e-002

74, 83 1, 1 4 77 -1.490e-008 -6.147e-008 8.976e-003 -4.549e-003

74, 85 1, 1 4 78 -7.451e-009 -3.818e-008 3.557e-003 -9.788e-003

74, 86 1, 1 4 78 -3.038e-008 -1.527e-007 1.493e-003 -1.185e-002

74, 88 1, 1 4 78 -7.567e-009 -3.236e-008 1.299e-004 -1.321e-002

76, 77 1, 1 4 78 -2.270e-008 -1.038e-007 6.320e-004 -1.271e-002

76, 78 1, 1 4 78 -1.513e-008 -6.193e-008 9.505e-004 -1.239e-002

76, 81 1, 1 4 78 -7.451e-009 -3.912e-008 6.310e-003 -7.035e-003

76, 82 1, 1 4 78 -1.490e-008 -5.588e-008 5.130e-003 -8.215e-003

76, 83 1, 1 4 77 -9.313e-010 -3.725e-009 2.059e-002 7.066e-003

76, 85 1, 1 4 78 -7.625e-009 -3.353e-008 1.388e-004 -1.321e-002

76, 86 1, 1 4 78 -3.027e-008 -1.341e-007 1.737e-002 4.022e-003

76, 88 1, 1 4 78 -7.683e-009 -2.887e-008 1.910e-003 -1.143e-002

77, 78 1, 1 4 78 -7.451e-009 -4.098e-008 2.469e-003 -1.088e-002

77, 81 1, 1 4 78 2.220e-016 -4.441e-015 3.406e-015 -1.334e-002

77, 82 1, 1 4 78 -6.054e-009 -3.353e-008 2.196e-002 8.618e-003

77, 83 1, 1 4 77 1.490e-008 6.706e-008 9.562e-003 -3.963e-003

77, 85 1, 1 4 78 -9.313e-010 -3.725e-009 3.275e-002 1.940e-002

77, 86 1, 1 4 78 -2.282e-008 -1.341e-007 2.028e-002 6.932e-003

77, 88 1, 1 4 78 0.000e+000 -3.725e-009 3.655e-002 2.321e-002

78, 81 1, 1 4 78 6.519e-009 3.353e-008 4.228e-002 2.893e-002

78, 82 1, 1 4 78 4.657e-010 3.725e-009 2.411e-003 -1.093e-002

78, 83 1, 1 4 77 -1.490e-008 -6.333e-008 4.529e-002 3.176e-002

78, 85 1, 1 4 78 7.683e-009 4.098e-008 1.139e-004 -1.323e-002

78, 86 1, 1 4 78 -1.490e-008 -7.637e-008 1.316e-002 -1.835e-004

78, 88 1, 1 4 78 7.916e-009 3.725e-008 4.013e-003 -9.332e-003

81, 82 1, 1 4 78 7.916e-009 4.657e-008 1.350e-002 1.550e-004

81, 83 1, 1 4 77 0.000e+000 1.455e-011 8.276e-007 -1.352e-002

81, 85 1, 1 4 78 1.490e-008 1.015e-007 3.472e-003 -9.873e-003

81, 86 1, 1 4 78 -7.218e-009 -4.657e-008 5.424e-003 -7.920e-003

81, 88 1, 1 4 78 1.583e-008 9.127e-008 9.986e-003 -3.358e-003

82, 83 1, 1 4 77 -1.490e-008 -6.333e-008 4.012e-002 2.660e-002

82, 85 1, 1 4 78 7.567e-009 3.865e-008 5.114e-004 -1.283e-002

82, 86 1, 1 4 78 -1.513e-008 -7.637e-008 5.114e-004 -1.283e-002

82, 88 1, 1 4 78 7.916e-009 3.353e-008 3.560e-003 -9.785e-003

83, 85 1, 1 4 77 7.683e-009 3.446e-008 1.594e-003 -1.193e-002

83, 86 1, 1 4 77 -1.490e-008 -6.706e-008 5.033e-002 3.681e-002

83, 88 1, 1 4 77 -7.451e-009 -2.980e-008 2.470e-002 1.118e-002

85, 86 1, 1 4 78 -7.916e-009 -4.657e-008 1.404e-002 6.975e-004

85, 88 1, 1 4 78 1.537e-008 7.823e-008 1.943e-002 6.085e-003

86, 88 1, 1 4 78 -7.451e-009 -3.539e-008 1.287e-002 -4.724e-004

Total locus pairs investigated = 2016

\* Number of pairs rejected = 0

\* Number of pairs accepted = 2016

Weighted (by Ind. Alleles) Harmonic Mean Sample Size = 77.81

Expected R^2-sample calculated from this sample size = 0.013379

# Weighted Mean of r^2 = 0.015865

# Weighted Mean of Exp. r^2 Sample = 0.013378

# Weighted Mean of r^2-drift = 0.002487 ( 2.487e-003), Ne = 131.9

Weights on locus pairs are revised on the initial estimate Ne

# Weighted Mean of r^2 = 0.015865

# Weighted Mean of Exp. r^2 Sample = 0.013378

# Weighted Mean of r^2-drift = 0.002487 ( 2.487e-003), Revised Ne = 131.9

# Parametric CI for r^2: 0.014929 0.016892 >>> CI for Ne: 92.8 212.8

# Parametric CI for r^2-drift: 0.002340 0.002648 >>> CI for Ne: 123.8 140.3

# Jackknife CI for r^2: 0.014958 0.016857 >>> CI for Ne: 93.7 208.9

# Jackknife CI for r^2-drift: 0.001758 0.003787 >>> CI for Ne: 85.9 187.5

EXAMPLE clean\_lynx\_ct\_example\_data\_genepopBur.txt