**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

#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

#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