

Frascati, July 28, 1993

Note: **L-8**

DAΦNE program : tracking with systematic and random multipole errors in bendings and quadrupoles.

M.E. Biagini

1. INTRODUCTION

A new version of the DAΦNE program^[1] has been written to perform tracking with multipole error components, both systematic and random, in the magnetic elements. This version, called TRACKMULT, is a stand-alone program to be used for an intensive study of the dynamic apertures with magnetic errors. It will be soon updated to include tilt errors in bendings and fringing fields.

The multipole expansion of a magnetic field can be written as:

$$B(z) = B_0 \rho \sum_{n=0}^m \frac{S_n}{n!} z^n$$

Each component can be treated as a kick :

$$\Delta x' = \frac{S_n}{n!} \operatorname{Re}(z^n)$$

$$\Delta y' = -\frac{S_n}{n!} \operatorname{Im}(z^n)$$

where $z = x + iy$, x and y being the particle coordinates at the multipole of order n and strength S_n .

For the random components a gaussian distribution is assumed^[2] and the multipole strength is randomly extracted by the program itself.

The dynamic apertures have to be calculated at fixed sextupole configuration also in presence of multipole errors, so in the tracking file the option **NVAR = 0** has to be used and **all** the sextupoles, with their optimized strengths, listed.

In Table I a) and b) are summarized the computed systematic^[3] and random component (r.m.s. width) used for DAΦNE, defined as the ratio between the multipole component and the principal field component. The large quadrupoles are those installed in the arcs, between the two dipoles.

Table I a) - Systematic errors.

MULTIPOLE	n	K_n/K	BEND	SMALL QUADS	LARGE QUADS
6-pole	2	K_2/K_0 (m^{-2})	-8.43E-02	-	-
8-pole	3	K_3/K_0 (m^{-3})	1.325	-	-
10-pole	4	K_4/K_0 (m^{-4})	-97.126	-	-
12-pole	5	K_5/K_1 (m^{-4})	-	-4.21E+04	1.94E+13
20-pole	9	K_9/K_1 (m^{-8})	-	1.94E+13	1.29E+14

Table I b) - Random errors.

MULTIPOLE	n	K_n/K	BEND	QUADS
6-pole	2	K_2/K_0 (m^{-2})	5.66E-01	0.015
8-pole	3	K_3/K_0 (m^{-3})	85	2.4
10-pole	4	K_4/K_0 (m^{-4})	567	60
12-pole	5	K_5/K_1 (m^{-4})	-	3.60E+03
20-pole	9	K_9/K_1 (m^{-8})	-	9.60E+10

2. THE INPUT FILES

The lattice input file, read from unit **55**, has to be modified with the insertion of the multipole error components. For each bending or quadrupole the various components must be specified, with the same format as a normal lattice element. In more detail:

- in the field **NEL** :

a **40** is written for a systematic error,

a **41** is written for a random error;

- in the field **A** the multipole order **n** is written;

- in the field **B** :

the error strength **S_n** is written for a systematic error, or

the σ of the multipole strength gaussian distribution is written for a random error.

For the systematic errors the multipole strengths **S_n** are computed as:

- for the **bendings** in general the multipoles are inserted at both ends. Given the field error $\Delta\mathbf{B}/\mathbf{B}$ at a distance **x₀** from the magnetic axis we have:

$$\frac{\mathbf{K}_n}{\mathbf{K}_0} = \frac{\mathbf{DB}}{\mathbf{B}} \frac{n!}{x_0^n}$$

and

$$\mathbf{S}_n = - \frac{\mathbf{K}_n}{\mathbf{K}_0} \frac{\mathbf{L}}{2r}$$

where L= bending length, ρ = bending radius >0;

- for the **quadrupoles** the multipoles are placed in the middle:

$$\frac{\mathbf{K}_n}{\mathbf{K}_1} = \frac{\mathbf{DB}}{\mathbf{B}} \frac{n!}{x_0^{n-1}}$$

and

$$\mathbf{S}_n = - \frac{\mathbf{K}_n}{\mathbf{K}_1} \mathbf{L} \mathbf{K}_1$$

where L= quadrupole length, \mathbf{K}_1 = quadrupole strength (m^{-2}) **with its sign**.

The fields **RAG** and **BL** are not used.

The insertion of these new elements changes of course the total number of elements, then in the tracking file, read from unit **54**, the sextupole identification numbers have to be modified.

A dedicated code, called SYSGEN, has been written to easily make all these modifications on both files 55 and 54, as explained in the following paragraph.

The output and graphic files are the same as for the DAΦNE program, except that with the tracking results the seeds used in the generation of the random errors is given, and a list of all the random extracted multipole strengths used in the simulation is written, to make it possible to reproduce a given lattice with the same errors.

3. THE AUTOMATIC MULTIPOLE COMPONENTS GENERATION

The program SYSGEN reads the lattice file on unit 55 and the tracking file on unit 54, and generates two new files with the multipoles as specified in another input file, read on unit 56. The program is specific for the DAΦNE lattice: for example it takes into account that in the splitter dipoles there are no errors simulated, the quadrupole in the middle of the Short straight section is generally splitted in two parts, and to avoid a long sequence of data, the errors are the same for all the quadrupoles (it does not distinguish between large and small quads).

The command file to execute it is shown in Appendix A. The file on unit 58 contains several data lines preceeded by title lines.

First the dipole data are given:

NBEND NMB NOERR

where:

NBEND : number dipoles with multipole errors,

NMB : number of multipoles, both random and systematic, per dipole,

NOERR : flag, set to 1 if no errors have to be considered in the dipoles.

Then for each dipole its **identification number** is written, one number in each line, for NBEND lines.

In the following for each multipole a line containing:

NEL n S_n

is written, for NMB lines, (NEL = 40 for systematic, 41 for random errors).

Then the data relative to the quadrupoles are given:

NQUAD **NMQ**

where:

NQUAD : total number of quadrupoles,

NMQ : number of multipoles, both random and systematic, per quadrupole, (NEL = 40 for systematic, 41 for random errors),

If **NQUAD = 0** no errors are read for the quadrupoles.

For each multipole a line containing:

NEL **n** **S_n**

is written, for NMQ lines.

As a result, on unit 45 the new lattice file, with the total element number updated, and on unit 56 the new tracking file, with new sextupole identification numbers, are written.

In **Appendix A** the SYSGEN command file, the error data file (Unit 58), the command file to execute TRACKMULT, the updated tracking file (Unit 56) and the updated lattice file (Unit 45) are listed.

4. DAΦNE LATTICE EXAMPLE

As an example the dynamic aperture with errors for the DAΦNE lattice with two KLOE insertions (D15)^[4] has been computed and it is shown. A discussion of the complete study will be presented in another Note^[5].

In Figs. 1a), b), c) are the dynamic aperture respectively for $\Delta p/p = -1\%$, 0 , $+1\%$ for the case of systematic inserted in all the dipoles and quadrupoles.

In Figs. 2a), b), c) are the plots of the maximum horizontal stable amplitude (for a fixed vertical amplitude of $2 \sigma_y$ full-coupling) for a sample of 50 machines simulated with random multipole errors in all the magnetic elements.

REFERENCES

- [1] M.E. Biagini, "DAΦNE: a tracking program for the Frascati Φ-factory", Technical Note L-7.
- [2] M.R. Masullo, F. Sannibale, "Multipole random errors in DAΦNE main rings", Technical Note L-5.
- [3] M. Modena, C. Sanelli, private communication.
- [4] M.E. Biagini, C. Biscari, S. Guiducci, J. Lu, M.R. Masullo, G. Vignola, "Review of the DAΦNE lattices", Technical Note L-9, in preparation.
- [5] M.E. Biagini, J. Lu, M.R. Masullo, "Simulation of dynamic apertures with systematic and random multipole errors in DAΦNE", Technical Note L-10, in preparation.

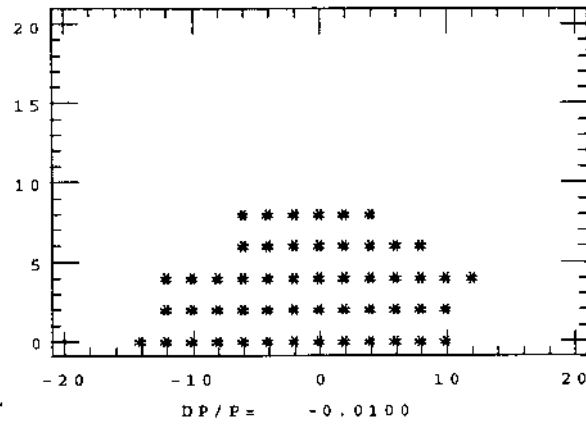


Fig 1a) - Dynamic aperture with systematic errors for $\Delta p/p = -1\%$

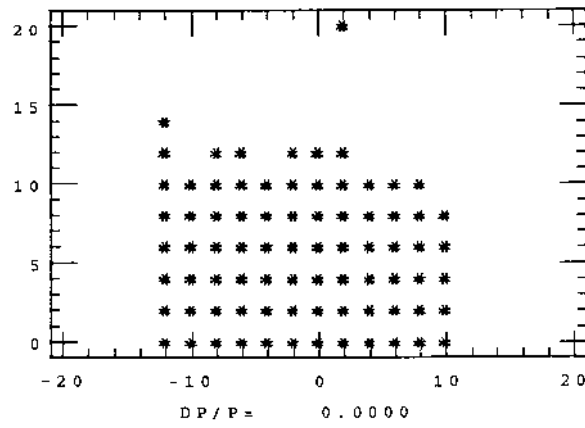


Fig 1b) - Dynamic aperture with systematic errors for $\Delta p/p = 0$

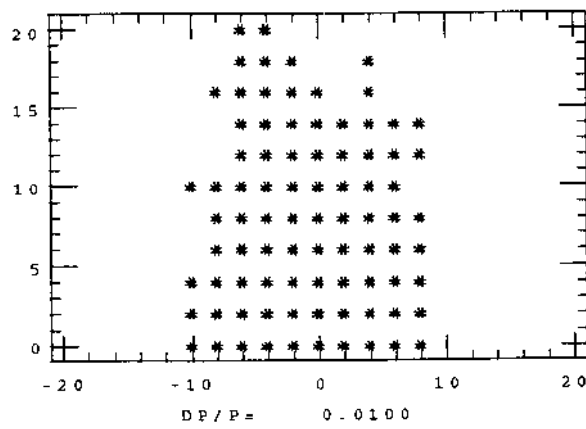


Fig 1c) - Dynamic aperture with systematic errors for $\Delta p/p = +1\%$

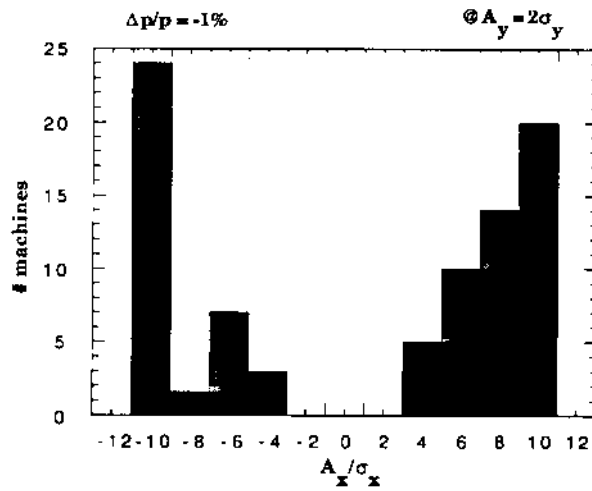


Fig 2a) - Dynamic aperture limits with random errors for $\Delta p/p = -1\%$

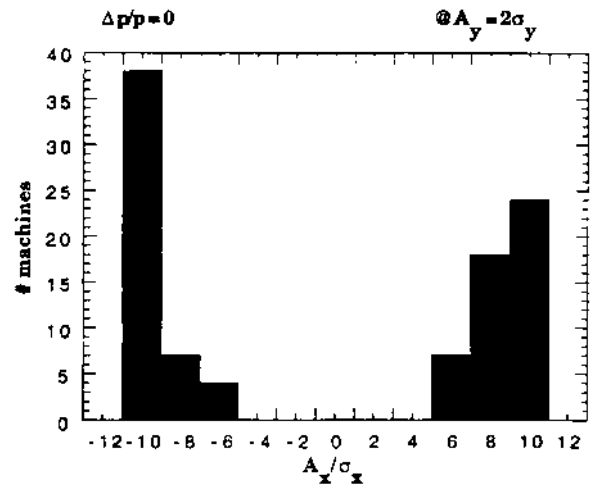


Fig 2b) - Dynamic aperture limits with random errors for $\Delta p/p = 0$

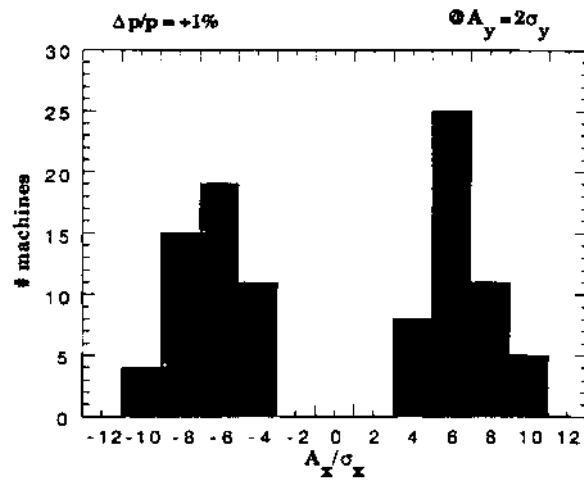


Fig 2c) - Dynamic aperture limits with random errors for $\Delta p/p = +1\%$

APPENDIX A - INPUT FILES

A1. Command file for SYSGEN

```

$ASS SYSERR.DAT FOR058
$ASS 'P1'.DAT FOR055
$ASS 'P1'SYS.DAT FOR045
$ASS T'P1'M.DAT FOR054
$ASS T'P1'SYS.DAT FOR056
$R/NODEB SYSGEN

```

A2. Data file for SYSGEN (example)

```

NBEND  NMB  NOERR
      8    6    0
BENDINGS IDENTIFICATION
89
167
194
272
449
527
554
632
MULTIPOLES IN BENDINGS
40 2  -.0843
40 3  +1.325
40 4  -97.126
41 2  .566
41 3  85.
41 4  567.
NQAD  NMQ
 39    7
MULTIPOLES IN QUADRUPOLES
40 5  -4.212D+04
40 9  +1.94D+13
41 2  .015
41 3  2.4
41 4  60.
41 5  3600.
41 9  9.6D+10

```


A3. Command file for TRACKMULT

```

$SET DEF [BIAGINI.TRACK]
$ ASSIGN DAD15SYS.DAT FOR099
$ ASSIGN QXD15SYS.DAT FOR097
$ ASSIGN QZD15SYS.DAT FOR098
$ ASSIGN XX.TOP FOR011
$ ASSIGN ZZ.TOP FOR022
$ ASSIGN XZ.TOP FOR033
$ ASSIGN NUD15SYS.DAT FOR008
$ ASSIGN TD15SYS.DAT FOR054
$ ASSIGN TD15SYS.OUT FOR006
$ ASSIGN D15SYS.DAT FOR055
$ ASSIGN SEED.DAT FOR057
$ R/NODEB TRACKMULT

```

A4. Updated tracking data file for TRACKMULT

```

D15 CON KLOE & KLOE - SYSTEMATIC ERRORS IN DIPOLES AND QUADS (NO LOW-B)
#TURN #PART #S.EL ICROM IDPP IBET IPRIN ISOL IDYNA ICGUP IAUTO IORB
256 1 0 1 0 1 0 0 1 0 0 0
TYPE OF EXTR. (0=none,1=LINEAR,2=GAUSS) SEED(5digit<60000) N.ENERGIES NDP
0 13333 3 20
SIGMAX (mm) SIGMAX'(mrad) SIGMAP SIGMAZ(mm) SIGMAZ'(mrad) DPP (%)
2.12132 0. 3.960-04 .15 0. 0.01
VARIABILI PER IL NOLISY SE DPP.NE.0. : NEQ,DELTA,MXCALL,EPS,ESPF,ESPFMN,IPRINT
4 1.0D-8 1000 1.0-24 -16.00 -25.00 0
VETTORE XIN (m,rad) INNESCO PER CALCOLO ETA OFF-ENERGY
0.001 12.5D-5 -.01 0.001 0.001
PIPE APERTURE (+-) AND CROSSING ANGLE
HORIZ(mm) VERT(mm) TETAC(rad)
1000. 1000. -12.5D-3
#FIXED SEX. X-CROM Z-CROM #VAR.FAM.(SF,SD) NVAR
12 -9.0000 -20.0000 2 0
JF JD = POSITION OF SF AND SD (IN THIS ORDER!) BETWEEN SEXTUPOLES, REPE
3 2
6 7
POS. # TYPE LENGHT K(m-2) OF FIXED SEXTUPOLES
90 1 8 0.000000 0.800000
137 2 8 0.000000 10.835000
214 3 7 0.000000 -2.357000
252 4 7 0.000000 0.000000
308 5 7 0.000000 0.000000
346 6 7 0.000000 -2.357000
423 7 8 0.000000 10.835000
470 8 8 0.000000 0.800000
660 9 7 0.000000 -2.000000
696 10 8 0.000000 6.600000
773 11 7 0.000000 -5.500000
801 12 8 0.000000 1.500000
886 13 8 0.000000 1.500000
914 14 7 0.000000 -5.500000
991 15 8 0.000000 6.600000
1027 16 7 0.000000 -2.000000
DYNAMIC APERTURE LIMITS : NXMIN,NXMAX,NZMIN,NZMAX,NSTEP
-10 10 0 10 1
PARTICLE COORDINATES (NX,NXP,NZ,NZP,NP)
0 0 0 0 0

```

A5. Updated lattice data file for TRACKMULT

```

KLOE & KLOE (D15)
OF ELEMENTS ---- # OF FAMILIES ---- # OF CONDITIONS (FREE FORMAT)
1126 8 4
OF PERIODS ----- NM1,NM2.....NM10( MATCHING POINTS) (11 DATA F.F.)
1 218 0 0 0 0 0 0 0 0 0 0 0 0 0 0
ENERGY(MeV) -----TRANSPORT(0=NO,1=YES)-----ACCURACY (3 DATA F.F.)
510. 0. 1.d+17
AR FLAG (0/1) -- SYMFLAG(0=NO,1=YES) -- SCREENFLAG(0/1) -- DISPERS MULTIPLIER
0 0 0 1.
IDENTIFIERS OF VARIABLES (MUST BE = # OF CONDITIONS) (FREE FORMAT)
03 105 108 110 319 321 323 325
QxW QzW
5.15 6.18
CORRECTED CHROMATICITIES(CRXCOR,CRZCOR)
0 0
IT CHROMATICITIES and EMITTANCE ( CRXW,CRZW,ENW --- when used)
9.1 -4.1 1.D-06
F RELATED PARAMETERS ( MUST BE OK WHEN PAR-FLAG=1)
I(mA) - COUPL - VRF(KV) - RF HARMONIC - HOR APERT(m) - VERT AP(m) - Z/n(Ohm)
43.75 .01 254. 120 .04 .03 2
ADDITIONAL CONSTANTS:
X0 BZ0 ETA0W ETAPO ALFAZO ALFAZ0
.5 .045 0. 0. 0. 0.
X1 BZ1 ETA1W BX2 BZ2 ETA2W
.7 1.199 0. 10. 1. 0.
X3 BZ3 ETA3W BX4 BZ4 ETA4W
-.66 -.66 1 1 1 1
X5 BZ5 ETA5W BX6 BZ6 ETA6W
1 1 1 1 1 1
X7 BZ7 ETA7W ETAZI DETAZI ETA8W
0 0 0 0 0 0
Xi BZi ETAXi AXi AZi DETAXi
4.5 .045 0. 0. 0. 0.
LDCOST(# 0) FRFW
1.22e-2 0
xxx
xxxx
xxx
CELL INPUT : FORMAT(314-4G(10.6) (FOLLOW THE FIELD INDICATOR)
iiiijjjiifllLLLLLLLLKKKKKKKKRRRRRRRRFFFFFFFF
1 0 14 0.460000 0.000000+00 0.600000+00 0.100000+01
2 0 14 0.010000 0.000000+00 0.600000+00 0.100000+01
3 0 12 0.000000 0.696793D-01 -0.104231D+00 0.100000+01
4 0 14 0.020000 0.000000+00 0.600000+00 0.100000+01
5 0 12 0.000000 0.696793D-01 -0.104231D+00 0.100000+01
6 0 14 0.020000 0.000000+00 0.600000+00 0.100000+01
7 0 12 0.000000 0.696793D-01 -0.104231D+00 0.100000+01
8 0 14 0.020000 0.000000+00 0.600000+00 0.100000+01
9 0 12 0.000000 0.696793D-01 -0.104231D+00 0.100000+01
10 0 14 0.020000 0.000000+00 0.600000+00 0.100000+01
11 0 12 0.000000 0.696793D-01 -0.104231D+00 0.100000+01
12 0 14 0.020000 0.000000+00 0.600000+00 0.100000+01
13 0 12 0.000000 0.696793D-01 -0.104231D+00 0.100000+01
14 0 14 0.020000 0.000000+00 0.600000+00 0.100000+01
15 0 12 0.000000 0.696793D-01 -0.104231D+00 0.100000+01
16 0 14 0.020000 0.000000+00 0.600000+00 0.100000+01
17 0 12 0.000000 0.696793D-01 -0.104231D+00 0.100000+01
18 0 14 0.020000 0.000000+00 0.600000+00 0.100000+01
19 0 12 0.000000 0.696793D-01 -0.104231D+00 0.100000+01
20 0 14 0.020000 0.000000+00 0.600000+00 0.100000+01
21 0 12 0.000000 0.696793D-01 -0.104231D+00 0.100000+01
22 0 14 0.010000 0.000000+00 0.600000+00 0.100000+01
23 0 14 0.170000 0.000000+00 0.600000+00 0.100000+01
24 0 14 0.017500 0.000000+00 0.600000+00 0.100000+01
25 0 13 0.000000 0.211725D+00 -0.176889D+00 0.100000+01
26 0 14 0.035000 0.000000+00 0.600000+00 0.100000+01
27 0 13 0.000000 0.211725D+00 -0.176889D+00 0.100000+01
28 0 14 0.035000 0.000000+00 0.600000+00 0.100000+01
29 0 13 0.000000 0.211725D+00 -0.176889D+00 0.100000+01
30 0 14 0.035000 0.000000+00 0.600000+00 0.100000+01
31 0 13 0.000000 0.211725D+00 -0.176889D+00 0.100000+01
32 0 14 0.035000 0.000000+00 0.600000+00 0.100000+01
33 0 13 0.000000 0.211725D+00 -0.176889D+00 0.100000+01
34 0 14 0.035000 0.000000+00 0.600000+00 0.100000+01
35 0 13 0.000000 0.211725D+00 -0.176889D+00 0.100000+01
36 0 14 0.035000 0.000000+00 0.600000+00 0.100000+01
37 0 13 0.000000 0.211725D+00 -0.176889D+00 0.100000+01
38 0 14 0.035000 0.000000+00 0.600000+00 0.100000+01
39 0 13 0.000000 0.211725D+00 -0.176889D+00 0.100000+01
40 0 14 0.035000 0.000000+00 0.600000+00 0.100000+01

```

41	0	13	0.000000	0.2117250+00	-0.1768890+00	0.1000000+01
42	0	14	0.035000	0.0000000+00	0.6000000+00	0.1000000+01
43	0	13	0.000000	0.2117250+00	-0.1768890+00	0.1000000+01
44	0	14	0.017500	0.0000000+00	0.6000000+00	0.1000000+01
45	0	14	0.150000	0.0000000+00	0.6000000+00	0.1000000+01
46	0	14	0.013500	0.0000000+00	0.6000000+00	0.1000000+01
47	0	12	0.000000	0.8372860-01	-0.2537130+00	0.1000000+01
48	0	14	0.027000	0.0000000+00	0.6000000+00	0.1000000+01
49	0	12	0.000000	0.8372860-01	-0.2537130+00	0.1000000+01
50	0	14	0.027000	0.0000000+00	0.6000000+00	0.1000000+01
51	0	12	0.000000	0.8372860-01	-0.2537130+00	0.1000000+01
52	0	14	0.027000	0.0000000+00	0.6000000+00	0.1000000+01
53	0	12	0.000000	0.8372860-01	-0.2537130+00	0.1000000+01
54	0	14	0.027000	0.0000000+00	0.6000000+00	0.1000000+01
55	0	12	0.000000	0.8372860-01	-0.2537130+00	0.1000000+01
56	0	14	0.027000	0.0000000+00	0.6000000+00	0.1000000+01
57	0	12	0.000000	0.8372860-01	-0.2537130+00	0.1000000+01
58	0	14	0.027000	0.0000000+00	0.6000000+00	0.1000000+01
59	0	12	0.000000	0.8372860-01	-0.2537130+00	0.1000000+01
60	0	14	0.027000	0.0000000+00	0.6000000+00	0.1000000+01
61	0	12	0.000000	0.8372860-01	-0.2537130+00	0.1000000+01
62	0	14	0.027000	0.0000000+00	0.6000000+00	0.1000000+01
63	0	12	0.000000	0.8372860-01	-0.2537130+00	0.1000000+01
64	0	14	0.027000	0.0000000+00	0.6000000+00	0.1000000+01
65	0	12	0.000000	0.8372860-01	-0.2537130+00	0.1000000+01
66	0	14	0.013500	0.0000000+00	0.6000000+00	0.1000000+01
67	0	14	0.350000	0.0000000+00	0.6000000+00	0.1000000+01
68	0	14	0.300000	0.0000000+00	0.3000000+00	0.1000000+01
69	0	1	1.205000	0.0000000+00	0.0000000+00	0.1000000+01
70	0	14	0.300000	0.0000000+00	-0.7438190+00	0.1000000+01
71	0	14	0.540000	0.0000000+00	-0.1487640+01	0.1000000+01
72	0	14	0.300000	0.0000000+00	-0.7438190+00	0.1000000+01
73	0	1	0.455000	0.0000000+00	0.0000000+00	0.1000000+01
74	0	16	0.058750	0.4375000-02	0.0000000+00	0.0000000+00
75	0	17	-0.035000	-0.2000000-01	0.0000000+00	0.0000000+00
76	0	4	1.450000	0.0000000+00	0.9495460+01	0.0000000+00
77	0	1	0.375000	0.0000000+00	0.0000000+00	0.0000000+00
78	0	1	0.250000	0.0000000+00	0.0000000+00	0.0000000+00
79	0	1	0.375000	0.0000000+00	0.0000000+00	0.0000000+00
80	0	2	0.150000	0.1383670+01	0.0000000+00	0.0000000+00
81	0	40	5.000000	0.1748410+05	0.0000000+00	0.0000000+00
82	0	40	9.000000	-0.8052980+13	0.0000000+00	0.0000000+00
83	0	41	2.000000	0.1500000-01	0.0000000+00	0.0000000+00
84	0	41	3.000000	0.2400000+01	0.0000000+00	0.0000000+00
85	0	41	4.000000	0.6000000+02	0.0000000+00	0.0000000+00
86	0	41	5.000000	0.3600000+04	0.0000000+00	0.0000000+00
87	0	41	9.000000	0.9600000+11	0.0000000+00	0.0000000+00
88	0	2	0.150000	0.1383670+01	0.0000000+00	0.0000000+00
89	0	1	0.200000	0.0000000+00	0.0000000+00	0.0000000+00
90	1	7	0.000000	0.0000000+00	0.0000000+00	0.0000000+00
91	0	1	0.200000	0.0000000+00	0.0000000+00	0.0000000+00
92	0	3	0.150000	0.2863030+01	0.0000000+00	0.0000000+00
93	0	40	5.000000	0.3617730+05	0.0000000+00	0.0000000+00
94	0	40	9.000000	-0.1666290+14	0.0000000+00	0.0000000+00
95	0	41	2.000000	0.1500000-01	0.0000000+00	0.0000000+00
96	0	41	3.000000	0.2400000+01	0.0000000+00	0.0000000+00
97	0	41	4.000000	0.6000000+02	0.0000000+00	0.0000000+00
98	0	41	5.000000	0.3600000+04	0.0000000+00	0.0000000+00
99	0	41	9.000000	0.9600000+11	0.0000000+00	0.0000000+00
100	0	3	0.150000	0.2863030+01	0.0000000+00	0.0000000+00
101	0	1	0.300000	0.0000000+00	0.0000000+00	0.0000000+00
102	0	1	0.300000	0.0000000+00	0.0000000+00	0.0000000+00
103	0	2	0.150000	0.1193220+01	0.0000000+00	0.0000000+00
104	0	40	5.000000	0.1507750+05	0.0000000+00	0.0000000+00
105	0	40	9.000000	-0.6944520+13	0.0000000+00	0.0000000+00
106	0	41	2.000000	0.1500000-01	0.0000000+00	0.0000000+00
107	0	41	3.000000	0.2400000+01	0.0000000+00	0.0000000+00
108	0	41	4.000000	0.6000000+02	0.0000000+00	0.0000000+00
109	0	41	5.000000	0.3600000+04	0.0000000+00	0.0000000+00
110	0	41	9.000000	0.9600000+11	0.0000000+00	0.0000000+00
111	0	2	0.150000	0.1193220+01	0.0000000+00	0.0000000+00
112	0	1	0.800000	0.0000000+00	0.0000000+00	0.0000000+00
113	0	40	2.000000	0.2979410-01	0.0000000+00	0.0000000+00
114	0	40	3.000000	-0.4682940+00	0.0000000+00	0.0000000+00
115	0	40	4.000000	0.3432720+02	0.0000000+00	0.0000000+00
116	0	41	2.000000	0.5660000+00	0.0000000+00	0.0000000+00
117	0	41	3.000000	0.8500000+02	0.0000000+00	0.0000000+00
118	0	41	4.000000	0.5670000+03	0.0000000+00	0.0000000+00
119	0	4	0.990000	0.0000000+00	0.1400560+01	0.0000000+00
120	0	40	2.000000	0.2979410-01	0.0000000+00	0.0000000+00

121	0	40	3.000000	-0.4682940+00	0.000000+00	0.000000+00
122	0	40	4.000000	0.3432720+02	0.000000+00	0.000000+00
123	0	41	2.000000	0.5660000+00	0.000000+00	0.000000+00
124	0	41	3.000000	0.8500000+02	0.000000+00	0.000000+00
125	0	41	4.000000	0.5670000+03	0.000000+00	0.000000+00
126	0	1	0.600000	0.000000+00	0.000000+00	0.000000+00
127	0	3	0.150000	0.2032660+01	0.000000+00	0.000000+00
128	0	40	5.000000	0.2568470+05	0.000000+00	0.000000+00
129	0	40	9.000000	-0.1183010+14	0.000000+00	0.000000+00
130	0	41	2.000000	0.1500000-01	0.000000+00	0.000000+00
131	0	41	3.000000	0.2400000+01	0.000000+00	0.000000+00
132	0	41	4.000000	0.6000000+02	0.000000+00	0.000000+00
133	0	41	5.000000	0.3600000+04	0.000000+00	0.000000+00
134	0	41	9.000000	0.9600000+11	0.000000+00	0.000000+00
135	0	3	0.150000	0.2032660+01	0.000000+00	0.000000+00
136	0	1	0.200000	0.000000+00	0.000000+00	0.000000+00
137	2	7	0.000000	0.000000+00	0.000000+00	0.000000+00
138	0	1	0.400000	0.000000+00	0.000000+00	0.000000+00
139	0	2	0.150000	0.2435480+01	0.000000+00	0.000000+00
140	0	40	5.000000	0.3077470+05	0.000000+00	0.000000+00
141	0	40	9.000000	-0.1417450+14	0.000000+00	0.000000+00
142	0	41	2.000000	0.1500000-01	0.000000+00	0.000000+00
143	0	41	3.000000	0.2400000+01	0.000000+00	0.000000+00
144	0	41	4.000000	0.6000000+02	0.000000+00	0.000000+00
145	0	41	5.000000	0.3600000+04	0.000000+00	0.000000+00
146	0	41	9.000000	0.9600000+11	0.000000+00	0.000000+00
147	0	2	0.150000	0.2435480+01	0.000000+00	0.000000+00
148	0	1	0.600000	0.000000+00	0.000000+00	0.000000+00
149	0	6	0.000000	0.1217380+01	0.1888880+01	0.000000+00
150	0	4	0.080267	0.000000+00	0.1888880+01	0.000000+00
151	0	6	0.000000	0.1217380+01	0.1888880+01	0.000000+00
152	0	6	0.000000	0.1217380+01	0.9444420+00	0.000000+00
153	0	4	0.040134	0.000000+00	0.9444420+00	0.000000+00
154	0	6	0.000000	0.1217380+01	0.9444420+00	0.000000+00
155	0	6	0.000000	0.1217380+01	0.1888880+01	0.000000+00
156	0	4	0.080267	0.000000+00	0.1888880+01	0.000000+00
157	0	6	0.000000	0.1217380+01	0.1888880+01	0.000000+00
158	0	6	0.000000	0.1217380+01	0.1888880+01	0.000000+00
159	0	4	0.080267	0.000000+00	-0.1888880+01	0.000000+00
160	0	6	0.000000	0.1217380+01	0.1888880+01	0.000000+00
161	0	6	0.000000	0.4869530+01	0.9444420+00	0.000000+00
162	0	4	0.160535	0.000000+00	-0.9444420+00	0.000000+00
163	0	6	0.000000	0.4869530+01	0.9444420+00	0.000000+00
164	0	6	0.000000	0.1217380+01	0.1888880+01	0.000000+00
165	0	4	0.080267	0.000000+00	-0.1888880+01	0.000000+00
166	0	6	0.000000	0.1217380+01	0.1888880+01	0.000000+00
167	0	6	0.000000	0.1217380+01	0.1888880+01	0.000000+00
168	0	4	0.080267	0.000000+00	0.1888880+01	0.000000+00
169	0	6	0.000000	0.1217380+01	0.1888880+01	0.000000+00
170	0	6	0.000000	0.4869530+01	0.9444420+00	0.000000+00
171	0	4	0.160535	0.000000+00	0.9444420+00	0.000000+00
172	0	6	0.000000	0.4869530+01	0.9444420+00	0.000000+00
173	0	6	0.000000	0.1217380+01	0.1888880+01	0.000000+00
174	0	4	0.080267	0.000000+00	0.1888880+01	0.000000+00
175	0	6	0.000000	0.1217380+01	0.1888880+01	0.000000+00
176	0	6	0.000000	0.1217380+01	0.1888880+01	0.000000+00
177	0	4	0.080267	0.000000+00	-0.1888880+01	0.000000+00
178	0	6	0.000000	0.1217380+01	0.1888880+01	0.000000+00
179	0	6	0.000000	0.4869530+01	0.9444420+00	0.000000+00
180	0	4	0.080267	0.000000+00	-0.9444420+00	0.000000+00
181	0	4	0.080267	0.000000+00	-0.9444420+00	0.000000+00
182	0	6	0.000000	0.4869530+01	0.9444420+00	0.000000+00
183	0	6	0.000000	0.1217380+01	0.1888880+01	0.000000+00
184	0	4	0.080267	0.000000+00	-0.1888880+01	0.000000+00
185	0	6	0.000000	0.1217380+01	0.1888880+01	0.000000+00
186	0	6	0.000000	0.1217380+01	0.1888880+01	0.000000+00
187	0	4	0.080267	0.000000+00	0.1888880+01	0.000000+00
188	0	6	0.000000	0.1217380+01	0.1888880+01	0.000000+00
189	0	6	0.000000	0.4869530+01	0.9444420+00	0.000000+00
190	0	4	0.160535	0.000000+00	0.9444420+00	0.000000+00
191	0	6	0.000000	0.4869530+01	0.9444420+00	0.000000+00
192	0	6	0.000000	0.1217380+01	0.1888880+01	0.000000+00
193	0	4	0.080267	0.000000+00	0.1888880+01	0.000000+00
194	0	6	0.000000	0.1217380+01	0.1888880+01	0.000000+00
195	0	6	0.000000	0.1217380+01	0.1888880+01	0.000000+00
196	0	4	0.080267	0.000000+00	-0.1888880+01	0.000000+00
197	0	6	0.000000	0.1217380+01	0.1888880+01	0.000000+00
198	0	6	0.000000	0.4869530+01	0.9444420+00	0.000000+00
199	0	4	0.160535	0.000000+00	-0.9444420+00	0.000000+00
200	0	6	0.000000	0.4869530+01	0.9444420+00	0.000000+00

201	0	6	0.000000	0.1217380+01	0.1888880+01	0.0000000+00
202	0	4	0.080267	0.0000000+00	-0.1888880+01	0.0000000+00
203	0	6	0.000000	0.1217380+01	0.1888880+01	0.0000000+00
204	0	6	0.000000	0.1217380+01	0.1888880+01	0.0000000+00
205	0	4	0.080267	0.0000000+00	0.1888880+01	0.0000000+00
206	0	6	0.000000	0.1217380+01	0.1888880+01	0.0000000+00
207	0	6	0.000000	0.1217380+01	0.9444420+00	0.0000000+00
208	0	4	0.040134	0.0000000+00	0.9444420+00	0.0000000+00
209	0	6	0.000000	0.1217380+01	0.9444420+00	0.0000000+00
210	0	6	0.000000	0.1217380+01	0.1888880+01	0.0000000+00
211	0	4	0.080267	0.0000000+00	0.1888880+01	0.0000000+00
212	0	6	0.000000	0.1217380+01	0.1888880+01	0.0000000+00
213	0	1	0.225000	0.0000000+00	0.0000000+00	0.0000000+00
214	3	8	0.000000	0.0000000+00	0.0000000+00	0.0000000+00
215	0	1	0.375000	0.0000000+00	0.0000000+00	0.0000000+00
216	0	2	0.150000	0.1290070+01	0.0000000+00	0.0000000+00
217	0	40	5.000000	0.1630140+05	0.0000000+00	0.0000000+00
218	0	40	9.000000	-0.7508240+13	0.0000000+00	0.0000000+00
219	0	41	2.000000	0.1500000-01	0.0000000+00	0.0000000+00
220	0	41	3.000000	0.2400000+01	0.0000000+00	0.0000000+00
221	0	41	4.000000	0.6000000+02	0.0000000+00	0.0000000+00
222	0	41	5.000000	0.3600000+04	0.0000000+00	0.0000000+00
223	0	41	9.000000	0.9600000+11	0.0000000+00	0.0000000+00
224	0	2	0.150000	0.1290070+01	0.0000000+00	0.0000000+00
225	0	1	0.600000	0.0000000+00	0.0000000+00	0.0000000+00
226	0	6	0.000000	0.2025000+02	0.1400560+01	0.0000000+00
227	0	40	2.000000	0.2979410-01	0.0000000+00	0.0000000+00
228	0	40	3.000000	-0.4682940+00	0.0000000+00	0.0000000+00
229	0	40	4.000000	0.3432720+02	0.0000000+00	0.0000000+00
230	0	41	2.000000	0.5660000+00	0.0000000+00	0.0000000+00
231	0	41	3.000000	0.8500000+02	0.0000000+00	0.0000000+00
232	0	41	4.000000	0.5670000+03	0.0000000+00	0.0000000+00
233	0	4	0.990000	0.0000000+00	0.1400560+01	0.0000000+00
234	0	40	2.000000	0.2979410-01	0.0000000+00	0.0000000+00
235	0	40	3.000000	-0.4682940+00	0.0000000+00	0.0000000+00
236	0	40	4.000000	0.3432720+02	0.0000000+00	0.0000000+00
237	0	41	2.000000	0.5660000+00	0.0000000+00	0.0000000+00
238	0	41	3.000000	0.8500000+02	0.0000000+00	0.0000000+00
239	0	41	4.000000	0.5670000+03	0.0000000+00	0.0000000+00
240	0	6	0.000000	0.2025000+02	0.1400560+01	0.0000000+00
241	0	1	0.750000	0.0000000+00	0.0000000+00	0.0000000+00
242	0	3	0.150000	0.2161650+01	0.0000000+00	0.0000000+00
243	0	40	5.000000	0.2731460+05	0.0000000+00	0.0000000+00
244	0	40	9.000000	-0.1258080+14	0.0000000+00	0.0000000+00
245	0	41	2.000000	0.1500000-01	0.0000000+00	0.0000000+00
246	0	41	3.000000	0.2400000+01	0.0000000+00	0.0000000+00
247	0	41	4.000000	0.6000000+02	0.0000000+00	0.0000000+00
248	0	41	5.000000	0.3600000+04	0.0000000+00	0.0000000+00
249	0	41	9.000000	0.9600000+11	0.0000000+00	0.0000000+00
250	0	3	0.150000	0.2161650+01	0.0000000+00	0.0000000+00
251	0	1	0.200000	0.0000000+00	0.0000000+00	0.0000000+00
252	4	8	0.000000	0.0000000+00	0.0000000+00	0.0000000+00
253	0	1	0.200000	0.0000000+00	0.0000000+00	0.0000000+00
254	0	2	0.150000	0.3019700+01	0.0000000+00	0.0000000+00
255	0	40	5.000000	0.3815690+05	0.0000000+00	0.0000000+00
256	0	40	9.000000	-0.1757460+14	0.0000000+00	0.0000000+00
257	0	41	2.000000	0.1500000-01	0.0000000+00	0.0000000+00
258	0	41	3.000000	0.2400000+01	0.0000000+00	0.0000000+00
259	0	41	4.000000	0.6000000+02	0.0000000+00	0.0000000+00
260	0	41	5.000000	0.3600000+04	0.0000000+00	0.0000000+00
261	0	41	9.000000	0.9600000+11	0.0000000+00	0.0000000+00
262	0	2	0.150000	0.3019700+01	0.0000000+00	0.0000000+00
263	0	1	1.110000	0.0000000+00	0.0000000+00	0.0000000+00
264	0	1	1.110000	0.0000000+00	0.0000000+00	0.0000000+00
265	0	3	0.150000	0.3083420+01	0.0000000+00	0.0000000+00
266	0	40	5.000000	0.3896210+05	0.0000000+00	0.0000000+00
267	0	40	9.000000	-0.1794550+14	0.0000000+00	0.0000000+00
268	0	41	2.000000	0.1500000-01	0.0000000+00	0.0000000+00
269	0	41	3.000000	0.2400000+01	0.0000000+00	0.0000000+00
270	0	41	4.000000	0.6000000+02	0.0000000+00	0.0000000+00
271	0	41	5.000000	0.3600000+04	0.0000000+00	0.0000000+00
272	0	41	9.000000	0.9600000+11	0.0000000+00	0.0000000+00
273	0	3	0.150000	0.3083420+01	0.0000000+00	0.0000000+00
274	0	1	0.200000	0.0000000+00	0.0000000+00	0.0000000+00
275	0	1	0.414197	0.0000000+00	0.0000000+00	0.0000000+00
276	0	2	0.150000	0.5667380+01	0.0000000+00	0.0000000+00
277	0	40	5.000000	0.7161300+05	0.0000000+00	0.0000000+00
278	0	40	9.000000	-0.3298420+14	0.0000000+00	0.0000000+00
279	0	41	2.000000	0.1500000-01	0.0000000+00	0.0000000+00
280	0	41	3.000000	0.2400000+01	0.0000000+00	0.0000000+00

281	0	41	4.000000	0.600000D+02	0.000000D+00	0.000000D+00
282	0	41	5.000000	0.360000D+04	0.000000D+00	0.000000D+00
283	0	41	9.000000	0.960000D+11	0.000000D+00	0.000000D+00
284	0	2	0.150000	0.566738D+01	0.000000D+00	0.000000D+00
285	0	1	0.414197	0.000000D+00	0.000000D+00	0.000000D+00
286	0	1	0.200000	0.000000D+00	0.000000D+00	0.000000D+00
287	0	3	0.150000	0.308342D+01	0.000000D+00	0.000000D+00
288	0	40	5.000000	0.389621D+05	0.000000D+00	0.000000D+00
289	0	40	9.000000	-0.179455D+14	0.000000D+00	0.000000D+00
290	0	41	2.000000	0.150000D-01	0.000000D+00	0.000000D+00
291	0	41	3.000000	0.240000D+01	0.000000D+00	0.000000D+00
292	0	41	4.000000	0.600000D+02	0.000000D+00	0.000000D+00
293	0	41	5.000000	0.360000D+04	0.000000D+00	0.000000D+00
294	0	41	9.000000	0.960000D+11	0.000000D+00	0.000000D+00
295	0	3	0.150000	0.308342D+01	0.000000D+00	0.000000D+00
296	0	1	1.110000	0.000000D+00	0.000000D+00	0.000000D+00
297	0	1	1.110000	0.000000D+00	0.000000D+00	0.000000D+00
298	0	2	0.150000	0.301970D+01	0.000000D+00	0.000000D+00
299	0	40	5.000000	0.381569D+05	0.000000D+00	0.000000D+00
300	0	40	9.000000	-0.175746D+14	0.000000D+00	0.000000D+00
301	0	41	2.000000	0.150000D-01	0.000000D+00	0.000000D+00
302	0	41	3.000000	0.240000D+01	0.000000D+00	0.000000D+00
303	0	41	4.000000	0.600000D+02	0.000000D+00	0.000000D+00
304	0	41	5.000000	0.360000D+04	0.000000D+00	0.000000D+00
305	0	41	9.000000	0.960000D+11	0.000000D+00	0.000000D+00
306	0	2	0.150000	0.301970D+01	0.000000D+00	0.000000D+00
307	0	1	0.200000	0.000000D+00	0.000000D+00	0.000000D+00
308	5	8	0.000000	0.000000D+00	0.000000D+00	0.000000D+00
309	0	1	0.200000	0.000000D+00	0.000000D+00	0.000000D+00
310	0	3	0.150000	0.216165D+01	0.000000D+00	0.000000D+00
311	0	40	5.000000	0.273146D+05	0.000000D+00	0.000000D+00
312	0	40	9.000000	-0.125808D+14	0.000000D+00	0.000000D+00
313	0	41	2.000000	0.150000D-01	0.000000D+00	0.000000D+00
314	0	41	3.000000	0.240000D+01	0.000000D+00	0.000000D+00
315	0	41	4.000000	0.600000D+02	0.000000D+00	0.000000D+00
316	0	41	5.000000	0.360000D+04	0.000000D+00	0.000000D+00
317	0	41	9.000000	0.960000D+11	0.000000D+00	0.000000D+00
318	0	3	0.150000	0.216165D+01	0.000000D+00	0.000000D+00
319	0	1	0.750000	0.000000D+00	0.000000D+00	0.000000D+00
320	0	6	0.000000	0.202500D+02	0.140056D+01	0.000000D+00
321	0	40	2.000000	0.297941D-01	0.000000D+00	0.000000D+00
322	0	40	3.000000	-0.468294D+00	0.000000D+00	0.000000D+00
323	0	40	4.000000	0.343272D+02	0.000000D+00	0.000000D+00
324	0	41	2.000000	0.566000D+00	0.000000D+00	0.000000D+00
325	0	41	3.000000	0.850000D+02	0.000000D+00	0.000000D+00
326	0	41	4.000000	0.567000D+03	0.000000D+00	0.000000D+00
327	0	4	0.990000	0.000000D+00	0.140056D+01	0.000000D+00
328	0	40	2.000000	0.297941D-01	0.000000D+00	0.000000D+00
329	0	40	3.000000	-0.468294D+00	0.000000D+00	0.000000D+00
330	0	40	4.000000	0.343272D+02	0.000000D+00	0.000000D+00
331	0	41	2.000000	0.566000D+00	0.000000D+00	0.000000D+00
332	0	41	3.000000	0.850000D+02	0.000000D+00	0.000000D+00
333	0	41	4.000000	0.567000D+03	0.000000D+00	0.000000D+00
334	0	6	0.000000	0.202500D+02	0.140056D+01	0.000000D+00
335	0	1	0.600000	0.000000D+00	0.000000D+00	0.000000D+00
336	0	2	0.150000	0.129007D+01	0.000000D+00	0.000000D+00
337	0	40	5.000000	0.163014D+05	0.000000D+00	0.000000D+00
338	0	40	9.000000	-0.750824D+13	0.000000D+00	0.000000D+00
339	0	41	2.000000	0.150000D-01	0.000000D+00	0.000000D+00
340	0	41	3.000000	0.240000D+01	0.000000D+00	0.000000D+00
341	0	41	4.000000	0.600000D+02	0.000000D+00	0.000000D+00
342	0	41	5.000000	0.360000D+04	0.000000D+00	0.000000D+00
343	0	41	9.000000	0.960000D+11	0.000000D+00	0.000000D+00
344	0	2	0.150000	0.129007D+01	0.000000D+00	0.000000D+00
345	0	1	0.375000	0.000000D+00	0.000000D+00	0.000000D+00
346	6	8	0.000000	0.000000D+00	0.000000D+00	0.000000D+00
347	0	1	0.225000	0.000000D+00	0.000000D+00	0.000000D+00
348	0	6	0.000000	0.121738D+01	0.188888D+01	0.000000D+00
349	0	4	0.080267	0.000000D+00	0.188888D+01	0.000000D+00
350	0	6	0.000000	0.121738D+01	0.188888D+01	0.000000D+00
351	0	6	0.000000	0.121738D+01	0.944442D+00	0.000000D+00
352	0	4	0.040134	0.000000D+00	0.944442D+00	0.000000D+00
353	0	6	0.000000	0.121738D+01	0.944442D+00	0.000000D+00
354	0	6	0.000000	0.121738D+01	0.188888D+01	0.000000D+00
355	0	4	0.080267	0.000000D+00	0.188888D+01	0.000000D+00
356	0	6	0.000000	0.121738D+01	0.188888D+01	0.000000D+00
357	0	6	0.000000	0.121738D+01	0.188888D+01	0.000000D+00
358	0	4	0.080267	0.000000D+00	-0.188888D+01	0.000000D+00
359	0	6	0.000000	0.121738D+01	0.188888D+01	0.000000D+00
360	0	6	0.000000	0.486953D+01	0.944442D+00	0.000000D+00

361	0	4	0.160535	0.000000+00	-0.944442D+00	0.000000D+00
362	0	6	0.000000	0.486953D+01	0.944442D+00	0.000000D+00
363	0	6	0.000000	0.121738D+01	0.188888D+01	0.000000D+00
364	0	4	0.080267	0.000000+00	-0.188888D+01	0.000000D+00
365	0	6	0.000000	0.121738D+01	0.188888D+01	0.000000D+00
366	0	6	0.000000	0.121738D+01	0.188888D+01	0.000000D+00
367	0	4	0.080267	0.000000+00	0.188888D+01	0.000000D+00
368	0	6	0.000000	0.121738D+01	0.188888D+01	0.000000D+00
369	0	6	0.000000	0.486953D+01	0.944442D+00	0.000000D+00
370	0	4	0.160535	0.000000+00	0.944442D+00	0.000000D+00
371	0	6	0.000000	0.486953D+01	0.944442D+00	0.000000D+00
372	0	6	0.000000	0.121738D+01	0.188888D+01	0.000000D+00
373	0	4	0.080267	0.000000+00	0.188888D+01	0.000000D+00
374	0	6	0.000000	0.121738D+01	0.188888D+01	0.000000D+00
375	0	6	0.000000	0.121738D+01	0.188888D+01	0.000000D+00
376	0	4	0.080267	0.000000+00	-0.188888D+01	0.000000D+00
377	0	6	0.000000	0.121738D+01	0.188888D+01	0.000000D+00
378	0	6	0.000000	0.486953D+01	0.944442D+00	0.000000D+00
379	0	4	0.080267	0.000000+00	-0.944442D+00	0.000000D+00
380	0	4	0.080267	0.000000+00	-0.944442D+00	0.000000D+00
381	0	6	0.000000	0.486953D+01	0.944442D+00	0.000000D+00
382	0	6	0.000000	0.121738D+01	0.188888D+01	0.000000D+00
383	0	4	0.080267	0.000000+00	-0.188888D+01	0.000000D+00
384	0	6	0.000000	0.121738D+01	0.188888D+01	0.000000D+00
385	0	6	0.000000	0.121738D+01	0.188888D+01	0.000000D+00
386	0	4	0.080267	0.000000+00	0.188888D+01	0.000000D+00
387	0	6	0.000000	0.121738D+01	0.188888D+01	0.000000D+00
388	0	6	0.000000	0.486953D+01	0.944442D+00	0.000000D+00
389	0	4	0.160535	0.000000+00	0.944442D+00	0.000000D+00
390	0	6	0.000000	0.486953D+01	0.944442D+00	0.000000D+00
391	0	6	0.000000	0.121738D+01	0.188888D+01	0.000000D+00
392	0	4	0.080267	0.000000+00	0.188888D+01	0.000000D+00
393	0	6	0.000000	0.121738D+01	0.188888D+01	0.000000D+00
394	0	6	0.000000	0.121738D+01	0.188888D+01	0.000000D+00
395	0	4	0.080267	0.000000+00	-0.188888D+01	0.000000D+00
396	0	6	0.000000	0.121738D+01	0.188888D+01	0.000000D+00
397	0	6	0.000000	0.486953D+01	0.944442D+00	0.000000D+00
398	0	4	0.160535	0.000000+00	-0.944442D+00	0.000000D+00
399	0	6	0.000000	0.486953D+01	0.944442D+00	0.000000D+00
400	0	6	0.000000	0.121738D+01	0.188888D+01	0.000000D+00
401	0	4	0.080267	0.000000+00	-0.188888D+01	0.000000D+00
402	0	6	0.000000	0.121738D+01	0.188888D+01	0.000000D+00
403	0	6	0.000000	0.121738D+01	0.188888D+01	0.000000D+00
404	0	4	0.080267	0.000000+00	0.188888D+01	0.000000D+00
405	0	6	0.000000	0.121738D+01	0.188888D+01	0.000000D+00
406	0	6	0.000000	0.121738D+01	0.944442D+00	0.000000D+00
407	0	4	0.040134	0.000000+00	0.944442D+00	0.000000D+00
408	0	6	0.000000	0.121738D+01	0.944442D+00	0.000000D+00
409	0	6	0.000000	0.121738D+01	0.188888D+01	0.000000D+00
410	0	4	0.080267	0.000000+00	0.188888D+01	0.000000D+00
411	0	6	0.000000	0.121738D+01	0.188888D+01	0.000000D+00
412	0	1	0.600000	0.000000+00	0.000000D+00	0.000000D+00
413	0	2	0.150000	0.243548D+01	0.000000D+00	0.000000D+00
414	0	40	5.000000	0.307747D+05	0.000000D+00	0.000000D+00
415	0	40	9.000000	-0.141745D+14	0.000000D+00	0.000000D+00
416	0	41	2.000000	0.150000D-01	0.000000D+00	0.000000D+00
417	0	41	3.000000	0.240000D+01	0.000000D+00	0.000000D+00
418	0	41	4.000000	0.600000D+02	0.000000D+00	0.000000D+00
419	0	41	5.000000	0.360000D+04	0.000000D+00	0.000000D+00
420	0	41	9.000000	0.960000D+11	0.000000D+00	0.000000D+00
421	0	2	0.150000	0.243548D+01	0.000000D+00	0.000000D+00
422	0	1	0.400000	0.000000+00	0.000000D+00	0.000000D+00
423	7	7	0.000000	0.000000+00	0.000000D+00	0.000000D+00
424	0	1	0.200000	0.000000+00	0.000000D+00	0.000000D+00
425	0	3	0.150000	0.203266D+01	0.000000D+00	0.000000D+00
426	0	40	5.000000	0.256847D+05	0.000000D+00	0.000000D+00
427	0	40	9.000000	-0.118301D+14	0.000000D+00	0.000000D+00
428	0	41	2.000000	0.150000D-01	0.000000D+00	0.000000D+00
429	0	41	3.000000	0.240000D+01	0.000000D+00	0.000000D+00
430	0	41	4.000000	0.600000D+02	0.000000D+00	0.000000D+00
431	0	41	5.000000	0.360000D+04	0.000000D+00	0.000000D+00
432	0	41	9.000000	0.960000D+11	0.000000D+00	0.000000D+00
433	0	3	0.150000	0.203266D+01	0.000000D+00	0.000000D+00
434	0	1	0.600000	0.000000+00	0.000000D+00	0.000000D+00
435	0	40	2.000000	0.297941D-01	0.000000D+00	0.000000D+00
436	0	40	3.000000	-0.468294D+00	0.000000D+00	0.000000D+00
437	0	40	4.000000	0.343272D+02	0.000000D+00	0.000000D+00
438	0	41	2.000000	0.566000D+00	0.000000D+00	0.000000D+00
439	0	41	3.000000	0.850000D+02	0.000000D+00	0.000000D+00
440	0	41	4.000000	0.567000D+03	0.000000D+00	0.000000D+00

441	0	4	0.990000	0.000000+00	0.1400560+01	0.0000000+00
442	0	40	2.000000	0.2979410-01	0.0000000+00	0.0000000+00
443	0	40	3.000000	-0.4682940+00	0.0000000+00	0.0000000+00
444	0	40	4.000000	0.3432720+02	0.0000000+00	0.0000000+00
445	0	41	2.000000	0.5660000+00	0.0000000+00	0.0000000+00
446	0	41	3.000000	0.8500000+02	0.0000000+00	0.0000000+00
447	0	41	4.000000	0.5670000+03	0.0000000+00	0.0000000+00
448	0	1	0.800000	0.0000000+00	0.0000000+00	0.0000000+00
449	0	2	0.150000	0.1193220+01	0.0000000+00	0.0000000+00
450	0	40	5.000000	0.1507750+05	0.0000000+00	0.0000000+00
451	0	40	9.000000	-0.6944520+13	0.0000000+00	0.0000000+00
452	0	41	2.000000	0.1500000-01	0.0000000+00	0.0000000+00
453	0	41	3.000000	0.2400000+01	0.0000000+00	0.0000000+00
454	0	41	4.000000	0.6000000+02	0.0000000+00	0.0000000+00
455	0	41	5.000000	0.3600000+04	0.0000000+00	0.0000000+00
456	0	41	9.000000	0.9600000+11	0.0000000+00	0.0000000+00
457	0	2	0.150000	0.1193220+01	0.0000000+00	0.0000000+00
458	0	1	0.300000	0.0000000+00	0.0000000+00	0.0000000+00
459	0	1	0.300000	0.0000000+00	0.0000000+00	0.0000000+00
460	0	3	0.150000	0.2863030+01	0.0000000+00	0.0000000+00
461	0	40	5.000000	0.3617730+05	0.0000000+00	0.0000000+00
462	0	40	9.000000	-0.1666290+14	0.0000000+00	0.0000000+00
463	0	41	2.000000	0.1500000-01	0.0000000+00	0.0000000+00
464	0	41	3.000000	0.2400000+01	0.0000000+00	0.0000000+00
465	0	41	4.000000	0.6000000+02	0.0000000+00	0.0000000+00
466	0	41	5.000000	0.3600000+04	0.0000000+00	0.0000000+00
467	0	41	9.000000	0.9600000+11	0.0000000+00	0.0000000+00
468	0	3	0.150000	0.2863030+01	0.0000000+00	0.0000000+00
469	0	1	0.200000	0.0000000+00	0.0000000+00	0.0000000+00
470	8	7	0.000000	0.0000000+00	0.0000000+00	0.0000000+00
471	0	1	0.200000	0.0000000+00	0.0000000+00	0.0000000+00
472	0	2	0.150000	0.1383670+01	0.0000000+00	0.0000000+00
473	0	40	5.000000	0.1748410+05	0.0000000+00	0.0000000+00
474	0	40	9.000000	-0.8052980+13	0.0000000+00	0.0000000+00
475	0	41	2.000000	0.1500000-01	0.0000000+00	0.0000000+00
476	0	41	3.000000	0.2400000+01	0.0000000+00	0.0000000+00
477	0	41	4.000000	0.6000000+02	0.0000000+00	0.0000000+00
478	0	41	5.000000	0.3600000+04	0.0000000+00	0.0000000+00
479	0	41	9.000000	0.9600000+11	0.0000000+00	0.0000000+00
480	0	2	0.150000	0.1383670+01	0.0000000+00	0.0000000+00
481	0	1	0.375000	0.0000000+00	0.0000000+00	0.0000000+00
482	0	1	0.250000	0.0000000+00	0.0000000+00	0.0000000+00
483	0	1	0.375000	0.0000000+00	0.0000000+00	0.0000000+00
484	0	4	1.450000	0.0000000+00	0.9495460+01	0.0000000+00
485	0	17	0.035000	-0.2000000-01	0.0000000+00	0.0000000+00
486	0	16	-0.058750	0.4375000-02	0.0000000+00	0.0000000+00
487	0	1	0.455000	0.0000000+00	0.0000000+00	0.1000000+01
488	0	14	0.300000	0.0000000+00	-0.7438190+00	0.1000000+01
489	0	14	0.540000	0.0000000+00	-0.1487640+01	0.1000000+01
490	0	14	0.300000	0.0000000+00	-0.7438190+00	0.1000000+01
491	0	1	1.205000	0.0000000+00	0.0000000+00	0.1000000+01
492	0	14	0.300000	0.0000000+00	0.3000000+00	0.1000000+01
493	0	14	0.350000	0.0000000+00	0.6000000+00	0.1000000+01
494	0	14	0.013500	0.0000000+00	0.6000000+00	0.1000000+01
495	0	12	0.000000	0.8372860-01	0.2537130+00	0.1000000+01
496	0	14	0.027000	0.0000000+00	0.6000000+00	0.1000000+01
497	0	12	0.000000	0.8372860-01	0.2537130+00	0.1000000+01
498	0	14	0.027000	0.0000000+00	0.6000000+00	0.1000000+01
499	0	12	0.000000	0.8372860-01	0.2537130+00	0.1000000+01
500	0	14	0.027000	0.0000000+00	0.6000000+00	0.1000000+01
501	0	12	0.000000	0.8372860-01	0.2537130+00	0.1000000+01
502	0	14	0.027000	0.0000000+00	0.6000000+00	0.1000000+01
503	0	12	0.000000	0.8372860-01	0.2537130+00	0.1000000+01
504	0	14	0.027000	0.0000000+00	0.6000000+00	0.1000000+01
505	0	12	0.000000	0.8372860-01	0.2537130+00	0.1000000+01
506	0	14	0.027000	0.0000000+00	0.6000000+00	0.1000000+01
507	0	12	0.000000	0.8372860-01	0.2537130+00	0.1000000+01
508	0	14	0.027000	0.0000000+00	0.6000000+00	0.1000000+01
509	0	12	0.000000	0.8372860-01	0.2537130+00	0.1000000+01
510	0	14	0.027000	0.0000000+00	0.6000000+00	0.1000000+01
511	0	12	0.000000	0.8372860-01	0.2537130+00	0.1000000+01
512	0	14	0.027000	0.0000000+00	0.6000000+00	0.1000000+01
513	0	12	0.000000	0.8372860-01	0.2537130+00	0.1000000+01
514	0	14	0.013500	0.0000000+00	0.6000000+00	0.1000000+01
515	0	14	0.150000	0.0000000+00	0.6000000+00	0.1000000+01
516	0	14	0.017500	0.0000000+00	0.6000000+00	0.1000000+01
517	0	13	0.000000	0.2117250+00	0.1768890+00	0.1000000+01
518	0	14	0.035000	0.0000000+00	0.6000000+00	0.1000000+01
519	0	13	0.000000	0.2117250+00	0.1768890+00	0.1000000+01
520	0	14	0.035000	0.0000000+00	0.6000000+00	0.1000000+01

601	0	13	0.000000	0.2117250+00	-0.1768890+00	0.1000000+01
602	0	14	0.033000	0.0000000+00	0.6000000+00	0.1000000+01
603	0	13	0.000000	0.2117250+00	-0.1768890+00	0.1000000+01
604	0	14	0.017500	0.0000000+00	0.6000000+00	0.1000000+01
605	0	14	0.150000	0.0000000+00	0.6000000+00	0.1000000+01
606	0	14	0.013500	0.0000000+00	0.6000000+00	0.1000000+01
607	0	12	0.000000	0.8372860-01	-0.2537130+00	0.1000000+01
608	0	14	0.027000	0.0000000+00	0.6000000+00	0.1000000+01
609	0	12	0.000000	0.8372860-01	-0.2537130+00	0.1000000+01
610	0	14	0.027000	0.0000000+00	0.6000000+00	0.1000000+01
611	0	12	0.000000	0.8372860-01	-0.2537130+00	0.1000000+01
612	0	14	0.027000	0.0000000+00	0.6000000+00	0.1000000+01
613	0	12	0.000000	0.8372860-01	-0.2537130+00	0.1000000+01
614	0	14	0.027000	0.0000000+00	0.6000000+00	0.1000000+01
615	0	12	0.000000	0.8372860-01	-0.2537130+00	0.1000000+01
616	0	14	0.027000	0.0000000+00	0.6000000+00	0.1000000+01
617	0	12	0.000000	0.8372860-01	-0.2537130+00	0.1000000+01
618	0	14	0.027000	0.0000000+00	0.6000000+00	0.1000000+01
619	0	12	0.000000	0.8372860-01	-0.2537130+00	0.1000000+01
620	0	14	0.027000	0.0000000+00	0.6000000+00	0.1000000+01
621	0	12	0.000000	0.8372860-01	-0.2537130+00	0.1000000+01
622	0	14	0.027000	0.0000000+00	0.6000000+00	0.1000000+01
623	0	12	0.000000	0.8372860-01	-0.2537130+00	0.1000000+01
624	0	14	0.027000	0.0000000+00	0.6000000+00	0.1000000+01
625	0	12	0.000000	0.8372860-01	-0.2537130+00	0.1000000+01
626	0	14	0.013500	0.0000000+00	0.6000000+00	0.1000000+01
627	0	14	0.350000	0.0000000+00	0.6000000+00	0.1000000+01
628	0	14	0.300000	0.0000000+00	0.3000000+00	0.1000000+01
629	0	1	1.205000	0.0000000+00	0.0000000+00	0.1000000+01
630	0	14	0.300000	0.0000000+00	-0.7438190+00	0.1000000+01
631	0	14	0.540000	0.0000000+00	-0.1487640+01	0.1000000+01
632	0	14	0.300000	0.0000000+00	-0.7438190+00	0.1000000+01
633	0	1	0.455000	0.0000000+00	0.0000000+00	0.1000000+01
634	0	17	0.035000	0.2000000-01	0.0000000+00	0.0000000+00
635	0	16	-0.058750	-0.4375000-02	0.0000000+00	0.0000000+00
636	0	4	1.450000	0.0000000+00	+0.9695460+01	0.0000000+00
637	0	1	0.375000	0.0000000+00	0.0000000+00	0.0000000+00
638	0	1	0.250000	0.0000000+00	0.0000000+00	0.0000000+00
639	0	1	0.375000	0.0000000+00	0.0000000+00	0.0000000+00
640	0	2	0.150000	0.9877060+00	0.0000000+00	0.0000000+00
641	0	40	5.000000	0.1248070+05	0.0000000+00	0.0000000+00
642	0	40	9.000000	-0.5748450+13	0.0000000+00	0.0000000+00
643	0	41	2.000000	0.1500000-01	0.0000000+00	0.0000000+00
644	0	41	3.000000	0.2400000+01	0.0000000+00	0.0000000+00
645	0	41	4.000000	0.6000000+02	0.0000000+00	0.0000000+00
646	0	41	5.000000	0.3600000+04	0.0000000+00	0.0000000+00
647	0	41	9.000000	0.9600000+11	0.0000000+00	0.0000000+00
648	0	2	0.150000	0.9877060+00	0.0000000+00	0.0000000+00
649	0	1	0.400000	0.0000000+00	0.0000000+00	0.0000000+00
650	0	3	0.150000	0.2490320+01	0.0000000+00	0.0000000+00
651	0	40	5.000000	0.3146770+05	0.0000000+00	0.0000000+00
652	0	40	9.000000	-0.1449370+14	0.0000000+00	0.0000000+00
653	0	41	2.000000	0.1500000-01	0.0000000+00	0.0000000+00
654	0	41	3.000000	0.2400000+01	0.0000000+00	0.0000000+00
655	0	41	4.000000	0.6000000+02	0.0000000+00	0.0000000+00
656	0	41	5.000000	0.3600000+04	0.0000000+00	0.0000000+00
657	0	41	9.000000	0.9600000+11	0.0000000+00	0.0000000+00
658	0	3	0.150000	0.2490320+01	0.0000000+00	0.0000000+00
659	0	1	0.300000	0.0000000+00	0.0000000+00	0.0000000+00
660	9	7	0.000000	0.0000000+00	0.0000000+00	0.0000000+00
661	0	1	0.300000	0.0000000+00	0.0000000+00	0.0000000+00
662	0	2	0.150000	0.9745620+00	0.0000000+00	0.0000000+00
663	0	40	5.000000	0.1231460+05	0.0000000+00	0.0000000+00
664	0	40	9.000000	-0.5671950+13	0.0000000+00	0.0000000+00
665	0	41	2.000000	0.1500000-01	0.0000000+00	0.0000000+00
666	0	41	3.000000	0.2400000+01	0.0000000+00	0.0000000+00
667	0	41	4.000000	0.6000000+02	0.0000000+00	0.0000000+00
668	0	41	5.000000	0.3600000+04	0.0000000+00	0.0000000+00
669	0	41	9.000000	0.9600000+11	0.0000000+00	0.0000000+00
670	0	2	0.150000	0.9745620+00	0.0000000+00	0.0000000+00
671	0	1	0.800000	0.0000000+00	0.0000000+00	0.0000000+00
672	0	40	2.000000	0.3641500-01	0.0000000+00	0.0000000+00
673	0	40	3.000000	-0.5723590+00	0.0000000+00	0.0000000+00
674	0	40	4.000000	0.4195540+02	0.0000000+00	0.0000000+00
675	0	41	2.000000	0.5660000+00	0.0000000+00	0.0000000+00
676	0	41	3.000000	0.8500000+02	0.0000000+00	0.0000000+00
677	0	41	4.000000	0.5670000+03	0.0000000+00	0.0000000+00
678	0	4	1.210000	0.0000000+00	0.1400560+01	0.0000000+00
679	0	40	2.000000	0.3641500-01	0.0000000+00	0.0000000+00
680	0	40	3.000000	-0.5723590+00	0.0000000+00	0.0000000+00

681	0	40	4.000000	0.4195540+02	0.000000+00	0.000000+00
682	0	41	2.000000	0.5660000+00	0.000000+00	0.000000+00
683	0	41	3.000000	0.8500000+02	0.000000+00	0.000000+00
684	0	41	4.000000	0.5670000+03	0.000000+00	0.000000+00
685	0	1	0.600000	0.0000000+00	0.000000+00	0.000000+00
686	0	3	0.150000	0.2225840+01	0.000000+00	0.000000+00
687	0	40	5.000000	0.2812570+05	0.000000+00	0.000000+00
688	0	40	9.000000	-0.1295440+14	0.000000+00	0.000000+00
689	0	41	2.000000	0.1500000-01	0.000000+00	0.000000+00
690	0	41	3.000000	0.2400000+01	0.000000+00	0.000000+00
691	0	41	4.000000	0.6000000+02	0.000000+00	0.000000+00
692	0	41	5.000000	0.3600000+04	0.000000+00	0.000000+00
693	0	41	9.000000	0.9600000+11	0.000000+00	0.000000+00
694	0	3	0.150000	0.2225840+01	0.000000+00	0.000000+00
695	0	1	0.200000	0.0000000+00	0.000000+00	0.000000+00
696	10	7	0.000000	0.0000000+00	0.000000+00	0.000000+00
697	0	1	0.400000	0.0000000+00	0.000000+00	0.000000+00
698	0	2	0.150000	0.2960010+01	0.000000+00	0.000000+00
699	0	40	5.000000	0.3740270+05	0.000000+00	0.000000+00
700	0	40	9.000000	-0.1722730+14	0.000000+00	0.000000+00
701	0	41	2.000000	0.1500000-01	0.000000+00	0.000000+00
702	0	41	3.000000	0.2400000+01	0.000000+00	0.000000+00
703	0	41	4.000000	0.6000000+02	0.000000+00	0.000000+00
704	0	41	5.000000	0.3600000+04	0.000000+00	0.000000+00
705	0	41	9.000000	0.9600000+11	0.000000+00	0.000000+00
706	0	2	0.150000	0.2960010+01	0.000000+00	0.000000+00
707	0	1	0.600000	0.0000000+00	0.000000+00	0.000000+00
708	0	6	0.000000	0.1217380+01	0.1888880+01	0.000000+00
709	0	4	0.080267	0.0000000+00	0.1888880+01	0.000000+00
710	0	6	0.000000	0.1217380+01	0.1888880+01	0.000000+00
711	0	6	0.000000	0.1217380+01	0.9444420+00	0.000000+00
712	0	4	0.040134	0.0000000+00	0.9444420+00	0.000000+00
713	0	6	0.000000	0.1217380+01	0.9444420+00	0.000000+00
714	0	6	0.000000	0.1217380+01	0.1888880+01	0.000000+00
715	0	4	0.080267	0.0000000+00	0.1888880+01	0.000000+00
716	0	6	0.000000	0.1217380+01	0.1888880+01	0.000000+00
717	0	6	0.000000	0.1217380+01	0.1888880+01	0.000000+00
718	0	4	0.080267	0.0000000+00	-0.1888880+01	0.000000+00
719	0	6	0.000000	0.1217380+01	0.1888880+01	0.000000+00
720	0	6	0.000000	0.4869530+01	0.1888880+01	0.000000+00
721	0	4	0.160535	0.0000000+00	0.9444420+00	0.000000+00
722	0	6	0.000000	0.4869530+01	-0.9444420+00	0.000000+00
723	0	6	0.000000	0.1217380+01	0.9444420+00	0.000000+00
724	0	4	0.080267	0.0000000+00	0.1888880+01	0.000000+00
725	0	6	0.000000	0.1217380+01	-0.1888880+01	0.000000+00
726	0	6	0.000000	0.1217380+01	0.1888880+01	0.000000+00
727	0	4	0.080267	0.0000000+00	0.1888880+01	0.000000+00
728	0	6	0.000000	0.1217380+01	0.1888880+01	0.000000+00
729	0	6	0.000000	0.4869530+01	0.9444420+00	0.000000+00
730	0	4	0.160535	0.0000000+00	0.9444420+00	0.000000+00
731	0	6	0.000000	0.4869530+01	0.9444420+00	0.000000+00
732	0	6	0.000000	0.1217380+01	0.1888880+01	0.000000+00
733	0	4	0.080267	0.0000000+00	0.1888880+01	0.000000+00
734	0	6	0.000000	0.1217380+01	0.1888880+01	0.000000+00
735	0	6	0.000000	0.1217380+01	0.1888880+01	0.000000+00
736	0	4	0.080267	0.0000000+00	-0.1888880+01	0.000000+00
737	0	6	0.000000	0.1217380+01	0.1888880+01	0.000000+00
738	0	6	0.000000	0.4869530+01	0.9444420+00	0.000000+00
739	0	4	0.080267	0.0000000+00	-0.9444420+00	0.000000+00
740	0	4	0.080267	0.0000000+00	-0.9444420+00	0.000000+00
741	0	6	0.000000	0.4869530+01	0.9444420+00	0.000000+00
742	0	6	0.000000	0.1217380+01	0.1888880+01	0.000000+00
743	0	4	0.080267	0.0000000+00	-0.1888880+01	0.000000+00
744	0	6	0.000000	0.1217380+01	0.1888880+01	0.000000+00
745	0	6	0.000000	0.1217380+01	0.1888880+01	0.000000+00
746	0	4	0.080267	0.0000000+00	0.1888880+01	0.000000+00
747	0	6	0.000000	0.1217380+01	0.1888880+01	0.000000+00
748	0	6	0.000000	0.4869530+01	0.9444420+00	0.000000+00
749	0	4	0.160535	0.0000000+00	0.9444420+00	0.000000+00
750	0	6	0.000000	0.4869530+01	0.9444420+00	0.000000+00
751	0	6	0.000000	0.1217380+01	0.1888880+01	0.000000+00
752	0	4	0.080267	0.0000000+00	0.1888880+01	0.000000+00
753	0	6	0.000000	0.1217380+01	0.1888880+01	0.000000+00
754	0	6	0.000000	0.1217380+01	0.1888880+01	0.000000+00
755	0	4	0.080267	0.0000000+00	-0.1888880+01	0.000000+00
756	0	6	0.000000	0.1217380+01	0.1888880+01	0.000000+00
757	0	6	0.000000	0.4869530+01	0.9444420+00	0.000000+00
758	0	4	0.160535	0.0000000+00	-0.9444420+00	0.000000+00
759	0	6	0.000000	0.4869530+01	0.9444420+00	0.000000+00
760	0	6	0.000000	0.1217380+01	0.1888880+01	0.000000+00

761	0	4	0.080267	0.000000+00	-0.188888+01	0.000000+00
762	0	6	0.000000	0.121738+01	0.188888+01	0.000000+00
763	0	6	0.000000	0.121738+01	0.188888+01	0.000000+00
764	0	4	0.080267	0.000000+00	0.188888+01	0.000000+00
765	0	6	0.000000	0.121738+01	0.188888+01	0.000000+00
766	0	6	0.000000	0.121738+01	0.944442+00	0.000000+00
767	0	4	0.040134	0.000000+00	0.944442+00	0.000000+00
768	0	6	0.000000	0.121738+01	0.944442+00	0.000000+00
769	0	6	0.000000	0.121738+01	0.188888+01	0.000000+00
770	0	4	0.080267	0.000000+00	0.188888+01	0.000000+00
771	0	6	0.000000	0.121738+01	0.188888+01	0.000000+00
772	0	1	0.225000	0.000000+00	0.000000+00	0.000000+00
773	11	8	0.000000	0.000000+00	0.000000+00	0.000000+00
774	0	1	0.375000	0.000000+00	0.000000+00	0.000000+00
775	0	2	0.150000	0.194292+01	0.000000+00	0.000000+00
776	0	40	5.000000	0.245507+05	0.000000+00	0.000000+00
777	0	40	9.000000	-0.113078+14	0.000000+00	0.000000+00
778	0	41	2.000000	0.150000+01	0.000000+00	0.000000+00
779	0	41	3.000000	0.240000+01	0.000000+00	0.000000+00
780	0	41	4.000000	0.600000+02	0.000000+00	0.000000+00
781	0	41	5.000000	0.360000+04	0.000000+00	0.000000+00
782	0	41	9.000000	0.960000+11	0.000000+00	0.000000+00
783	0	2	0.150000	0.194292+01	0.000000+00	0.000000+00
784	0	1	0.600000	0.000000+00	0.000000+00	0.000000+00
785	0	6	0.000000	0.247500+02	0.140056+01	0.000000+00
786	0	40	2.000000	0.364150+01	0.000000+00	0.000000+00
787	0	40	3.000000	-0.572359+00	0.000000+00	0.000000+00
788	0	40	4.000000	0.419554+02	0.000000+00	0.000000+00
789	0	41	2.000000	0.566000+00	0.000000+00	0.000000+00
790	0	41	3.000000	0.850000+02	0.000000+00	0.000000+00
791	0	41	4.000000	0.567000+03	0.000000+00	0.000000+00
792	0	4	1.210000	0.000000+00	0.140056+01	0.000000+00
793	0	40	2.000000	0.364150+01	0.000000+00	0.000000+00
794	0	40	3.000000	-0.572359+00	0.000000+00	0.000000+00
795	0	40	4.000000	0.419554+02	0.000000+00	0.000000+00
796	0	41	2.000000	0.566000+00	0.000000+00	0.000000+00
797	0	41	3.000000	0.850000+02	0.000000+00	0.000000+00
798	0	41	4.000000	0.567000+03	0.000000+00	0.000000+00
799	0	6	0.000000	0.247500+02	0.140056+01	0.000000+00
800	0	1	1.350000	0.000000+00	0.000000+00	0.000000+00
801	12	7	0.000000	0.000000+00	0.000000+00	0.000000+00
802	0	1	0.200000	0.000000+00	0.000000+00	0.000000+00
803	0	3	0.150000	0.147654+01	0.000000+00	0.000000+00
804	0	40	5.000000	0.186576+05	0.000000+00	0.000000+00
805	0	40	9.000000	-0.859349+13	0.000000+00	0.000000+00
806	0	41	2.000000	0.150000+01	0.000000+00	0.000000+00
807	0	41	3.000000	0.240000+01	0.000000+00	0.000000+00
808	0	41	4.000000	0.600000+02	0.000000+00	0.000000+00
809	0	41	5.000000	0.360000+04	0.000000+00	0.000000+00
810	0	41	9.000000	0.960000+11	0.000000+00	0.000000+00
811	0	3	0.150000	0.147654+01	0.000000+00	0.000000+00
812	0	1	0.480000	0.000000+00	0.000000+00	0.000000+00
813	0	2	0.150000	0.448480+01	0.000000+00	0.000000+00
814	0	40	5.000000	0.566699+05	0.000000+00	0.000000+00
815	0	40	9.000000	-0.261015+14	0.000000+00	0.000000+00
816	0	41	2.000000	0.150000+01	0.000000+00	0.000000+00
817	0	41	3.000000	0.240000+01	0.000000+00	0.000000+00
818	0	41	4.000000	0.600000+02	0.000000+00	0.000000+00
819	0	41	5.000000	0.360000+04	0.000000+00	0.000000+00
820	0	41	9.000000	0.960000+11	0.000000+00	0.000000+00
821	0	2	0.150000	0.448480+01	0.000000+00	0.000000+00
822	0	1	1.340000	0.000000+00	0.000000+00	0.000000+00
823	0	1	0.300000	0.000000+00	0.000000+00	0.000000+00
824	0	3	0.150000	0.314193+01	0.000000+00	0.000000+00
825	0	40	5.000000	0.397015+05	0.000000+00	0.000000+00
826	0	40	9.000000	-0.182861+14	0.000000+00	0.000000+00
827	0	41	2.000000	0.150000+01	0.000000+00	0.000000+00
828	0	41	3.000000	0.240000+01	0.000000+00	0.000000+00
829	0	41	4.000000	0.600000+02	0.000000+00	0.000000+00
830	0	41	5.000000	0.360000+04	0.000000+00	0.000000+00
831	0	41	9.000000	0.960000+11	0.000000+00	0.000000+00
832	0	3	0.150000	0.314193+01	0.000000+00	0.000000+00
833	0	1	0.450000	0.000000+00	0.000000+00	0.000000+00
834	0	2	0.150000	0.281168+01	0.000000+00	0.000000+00
835	0	40	5.000000	0.355284+05	0.000000+00	0.000000+00
836	0	40	9.000000	-0.163640+14	0.000000+00	0.000000+00
837	0	41	2.000000	0.150000+01	0.000000+00	0.000000+00
838	0	41	3.000000	0.240000+01	0.000000+00	0.000000+00
839	0	41	4.000000	0.600000+02	0.000000+00	0.000000+00
840	0	41	5.000000	0.360000+04	0.000000+00	0.000000+00

841	0	41	9.000000	0.960000+11	0.000000+00	0.000000+00
842	0	2	0.150000	0.281168+01	0.000000+00	0.000000+00
843	0	1	1.877592	0.000000+00	0.000000+00	0.000000+00
844	0	1	1.877592	0.000000+00	0.000000+00	0.000000+00
845	0	2	0.150000	0.281168+01	0.000000+00	0.000000+00
846	0	40	5.000000	0.355284+05	0.000000+00	0.000000+00
847	0	40	9.000000	-0.163640+14	0.000000+00	0.000000+00
848	0	41	2.000000	0.150000-01	0.000000+00	0.000000+00
849	0	41	3.000000	0.240000+01	0.000000+00	0.000000+00
850	0	41	4.000000	0.600000+02	0.000000+00	0.000000+00
851	0	41	5.000000	0.360000+04	0.000000+00	0.000000+00
852	0	41	9.000000	0.960000+11	0.000000+00	0.000000+00
853	0	2	0.150000	0.281168+01	0.000000+00	0.000000+00
854	0	1	0.450000	0.000000+00	0.000000+00	0.000000+00
855	0	3	0.150000	0.314193+01	0.000000+00	0.000000+00
856	0	40	5.000000	0.397015+05	0.000000+00	0.000000+00
857	0	40	9.000000	-0.182861+14	0.000000+00	0.000000+00
858	0	41	2.000000	0.150000-01	0.000000+00	0.000000+00
859	0	41	3.000000	0.240000+01	0.000000+00	0.000000+00
860	0	41	4.000000	0.600000+02	0.000000+00	0.000000+00
861	0	41	5.000000	0.360000+04	0.000000+00	0.000000+00
862	0	41	9.000000	0.960000+11	0.000000+00	0.000000+00
863	0	3	0.150000	0.314193+01	0.000000+00	0.000000+00
864	0	1	0.300000	0.000000+00	0.000000+00	0.000000+00
865	0	1	1.340000	0.000000+00	0.000000+00	0.000000+00
866	0	2	0.150000	0.448480+01	0.000000+00	0.000000+00
867	0	40	5.000000	0.566699+05	0.000000+00	0.000000+00
868	0	40	9.000000	-0.261015+14	0.000000+00	0.000000+00
869	0	41	2.000000	0.150000-01	0.000000+00	0.000000+00
870	0	41	3.000000	0.240000+01	0.000000+00	0.000000+00
871	0	41	4.000000	0.600000+02	0.000000+00	0.000000+00
872	0	41	5.000000	0.360000+04	0.000000+00	0.000000+00
873	0	41	9.000000	0.960000+11	0.000000+00	0.000000+00
874	0	2	0.150000	0.448480+01	0.000000+00	0.000000+00
875	0	1	0.480000	0.000000+00	0.000000+00	0.000000+00
876	0	3	0.150000	0.147654+01	0.000000+00	0.000000+00
877	0	40	5.000000	0.186576+05	0.000000+00	0.000000+00
878	0	40	9.000000	-0.899349+13	0.000000+00	0.000000+00
879	0	41	2.000000	0.150000-01	0.000000+00	0.000000+00
880	0	41	3.000000	0.240000+01	0.000000+00	0.000000+00
881	0	41	4.000000	0.600000+02	0.000000+00	0.000000+00
882	0	41	5.000000	0.360000+04	0.000000+00	0.000000+00
883	0	41	9.000000	0.960000+11	0.000000+00	0.000000+00
884	0	3	0.150000	0.147654+01	0.000000+00	0.000000+00
885	0	1	0.200000	0.000000+00	0.000000+00	0.000000+00
886	13	7	0.000000	0.000000+00	0.000000+00	0.000000+00
887	0	1	1.350000	0.000000+00	0.000000+00	0.000000+00
888	0	6	0.000000	0.247500+02	0.140056+01	0.000000+00
889	0	40	2.000000	0.364150-01	0.000000+00	0.000000+00
890	0	40	3.000000	-0.572359+00	0.000000+00	0.000000+00
891	0	40	4.000000	0.419554+02	0.000000+00	0.000000+00
892	0	41	2.000000	0.566000+00	0.000000+00	0.000000+00
893	0	41	3.000000	0.850000+02	0.000000+00	0.000000+00
894	0	41	4.000000	0.567000+03	0.000000+00	0.000000+00
895	0	4	1.210000	0.000000+00	0.140056+01	0.000000+00
896	0	40	2.000000	0.364150-01	0.000000+00	0.000000+00
897	0	40	3.000000	-0.572359+00	0.000000+00	0.000000+00
898	0	40	4.000000	0.419554+02	0.000000+00	0.000000+00
899	0	41	2.000000	0.566000+00	0.000000+00	0.000000+00
900	0	41	3.000000	0.850000+02	0.000000+00	0.000000+00
901	0	41	4.000000	0.567000+03	0.000000+00	0.000000+00
902	0	6	0.000000	0.247500+02	0.140056+01	0.000000+00
903	0	1	0.600000	0.000000+00	0.000000+00	0.000000+00
904	0	2	0.150000	0.194292+01	0.000000+00	0.000000+00
905	0	40	5.000000	0.245507+05	0.000000+00	0.000000+00
906	0	40	9.000000	-0.113078+14	0.000000+00	0.000000+00
907	0	41	2.000000	0.150000-01	0.000000+00	0.000000+00
908	0	41	3.000000	0.240000+01	0.000000+00	0.000000+00
909	0	41	4.000000	0.600000+02	0.000000+00	0.000000+00
910	0	41	5.000000	0.360000+04	0.000000+00	0.000000+00
911	0	41	9.000000	0.960000+11	0.000000+00	0.000000+00
912	0	2	0.150000	0.194292+01	0.000000+00	0.000000+00
913	0	1	0.375000	0.000000+00	0.000000+00	0.000000+00
914	14	8	0.000000	0.000000+00	0.000000+00	0.000000+00
915	0	1	0.225000	0.000000+00	0.000000+00	0.000000+00
916	0	6	0.000000	0.121738+01	0.188888+01	0.000000+00
917	0	4	0.080267	0.000000+00	0.188888+01	0.000000+00
918	0	6	0.000000	0.121738+01	0.188888+01	0.000000+00
919	0	6	0.000000	0.121738+01	0.944442+00	0.000000+00
920	0	4	0.040134	0.000000+00	0.944442+00	0.000000+00

921	0	6	0.000000	0.1217380+01	0.9444420+00	0.0000000+00
922	0	6	0.000000	0.1217380+01	0.1888880+01	0.0000000+00
923	0	4	0.080267	0.0000000+00	0.1888880+01	0.0000000+00
924	0	6	0.000000	0.1217380+01	0.1888880+01	0.0000000+00
925	0	6	0.000000	0.1217380+01	0.1888880+01	0.0000000+00
926	0	4	0.080267	0.0000000+00	-0.1888880+01	0.0000000+00
927	0	6	0.000000	0.1217380+01	0.1888880+01	0.0000000+00
928	0	6	0.000000	0.4869530+01	0.9444420+00	0.0000000+00
929	0	4	0.160535	0.0000000+00	-0.9444420+00	0.0000000+00
930	0	6	0.000000	0.4869530+01	0.9444420+00	0.0000000+00
931	0	6	0.000000	0.1217380+01	0.1888880+01	0.0000000+00
932	0	4	0.080267	0.0000000+00	-0.1888880+01	0.0000000+00
933	0	6	0.000000	0.1217380+01	0.1888880+01	0.0000000+00
934	0	6	0.000000	0.1217380+01	0.1888880+01	0.0000000+00
935	0	4	0.080267	0.0000000+00	0.1888880+01	0.0000000+00
936	0	6	0.000000	0.1217380+01	0.1888880+01	0.0000000+00
937	0	6	0.000000	0.4869530+01	0.9444420+00	0.0000000+00
938	0	4	0.160535	0.0000000+00	0.9444420+00	0.0000000+00
939	0	6	0.000000	0.4869530+01	0.9444420+00	0.0000000+00
940	0	6	0.000000	0.1217380+01	0.1888880+01	0.0000000+00
941	0	4	0.080267	0.0000000+00	0.1888880+01	0.0000000+00
942	0	6	0.000000	0.1217380+01	0.1888880+01	0.0000000+00
943	0	6	0.000000	0.1217380+01	0.1888880+01	0.0000000+00
944	0	4	0.080267	0.0000000+00	-0.1888880+01	0.0000000+00
945	0	6	0.000000	0.1217380+01	0.1888880+01	0.0000000+00
946	0	6	0.000000	0.4869530+01	0.9444420+00	0.0000000+00
947	0	4	0.080267	0.0000000+00	-0.9444420+00	0.0000000+00
948	0	4	0.080267	0.0000000+00	-0.9444420+00	0.0000000+00
949	0	6	0.000000	0.4869530+01	0.9444420+00	0.0000000+00
950	0	6	0.000000	0.1217380+01	0.1888880+01	0.0000000+00
951	0	4	0.080267	0.0000000+00	-0.1888880+01	0.0000000+00
952	0	6	0.000000	0.1217380+01	0.1888880+01	0.0000000+00
953	0	6	0.000000	0.1217380+01	0.1888880+01	0.0000000+00
954	0	4	0.080267	0.0000000+00	0.1888880+01	0.0000000+00
955	0	6	0.000000	0.1217380+01	0.1888880+01	0.0000000+00
956	0	6	0.000000	0.4869530+01	0.9444420+00	0.0000000+00
957	0	4	0.160535	0.0000000+00	0.9444420+00	0.0000000+00
958	0	6	0.000000	0.4869530+01	0.9444420+00	0.0000000+00
959	0	6	0.000000	0.1217380+01	0.1888880+01	0.0000000+00
960	0	4	0.080267	0.0000000+00	0.1888880+01	0.0000000+00
961	0	6	0.000000	0.1217380+01	0.1888880+01	0.0000000+00
962	0	6	0.000000	0.1217380+01	0.1888880+01	0.0000000+00
963	0	4	0.080267	0.0000000+00	-0.1888880+01	0.0000000+00
964	0	6	0.000000	0.1217380+01	0.1888880+01	0.0000000+00
965	0	6	0.000000	0.4869530+01	0.9444420+00	0.0000000+00
966	0	4	0.160535	0.0000000+00	-0.9444420+00	0.0000000+00
967	0	6	0.000000	0.4869530+01	0.9444420+00	0.0000000+00
968	0	6	0.000000	0.1217380+01	0.1888880+01	0.0000000+00
969	0	4	0.080267	0.0000000+00	-0.1888880+01	0.0000000+00
970	0	6	0.000000	0.1217380+01	0.1888880+01	0.0000000+00
971	0	6	0.000000	0.1217380+01	0.1888880+01	0.0000000+00
972	0	4	0.080267	0.0000000+00	0.1888880+01	0.0000000+00
973	0	6	0.000000	0.1217380+01	0.1888880+01	0.0000000+00
974	0	6	0.000000	0.1217380+01	0.9444420+00	0.0000000+00
975	0	4	0.040134	0.0000000+00	0.9444420+00	0.0000000+00
976	0	6	0.000000	0.1217380+01	0.9444420+00	0.0000000+00
977	0	6	0.000000	0.1217380+01	0.1888880+01	0.0000000+00
978	0	4	0.080267	0.0000000+00	0.1888880+01	0.0000000+00
979	0	6	0.000000	0.1217380+01	0.1888880+01	0.0000000+00
980	0	1	0.600000	0.0000000+00	0.0000000+00	0.0000000+00
981	0	2	0.150000	0.2960010+01	0.0000000+00	0.0000000+00
982	0	40	5.000000	0.3740270+05	0.0000000+00	0.0000000+00
983	0	40	9.000000	-0.1722730+14	0.0000000+00	0.0000000+00
984	0	41	2.000000	0.1500000-01	0.0000000+00	0.0000000+00
985	0	41	3.000000	0.2400000+01	0.0000000+00	0.0000000+00
986	0	41	4.000000	0.6000000+02	0.0000000+00	0.0000000+00
987	0	41	5.000000	0.3600000+04	0.0000000+00	0.0000000+00
988	0	41	9.000000	0.9600000+11	0.0000000+00	0.0000000+00
989	0	2	0.150000	0.2960010+01	0.0000000+00	0.0000000+00
990	0	1	0.400000	0.0000000+00	0.0000000+00	0.0000000+00
991	15	7	0.000000	0.0000000+00	0.0000000+00	0.0000000+00
992	0	1	0.200000	0.0000000+00	0.0000000+00	0.0000000+00
993	0	3	0.150000	0.2225840+01	0.0000000+00	0.0000000+00
994	0	40	5.000000	0.2812570+05	0.0000000+00	0.0000000+00
995	0	40	9.000000	-0.1295440+14	0.0000000+00	0.0000000+00
996	0	41	2.000000	0.1500000-01	0.0000000+00	0.0000000+00
997	0	41	3.000000	0.2400000+01	0.0000000+00	0.0000000+00
998	0	41	4.000000	0.6000000+02	0.0000000+00	0.0000000+00
999	0	41	5.000000	0.3600000+04	0.0000000+00	0.0000000+00
1000	0	41	9.000000	0.9600000+11	0.0000000+00	0.0000000+00

1001	0	3	0.150000	0.2225840+01	0.0000000+00	0.0000000+00
1002	0	1	0.600000	0.0000000+00	0.0000000+00	0.0000000+00
1003	0	40	2.000000	0.3641500-01	0.0000000+00	0.0000000+00
1004	0	40	3.000000	-0.5723590+00	0.0000000+00	0.0000000+00
1005	0	40	4.000000	0.4195540+02	0.0000000+00	0.0000000+00
1006	0	41	2.000000	0.5660000+00	0.0000000+00	0.0000000+00
1007	0	41	3.000000	0.8500000+02	0.0000000+00	0.0000000+00
1008	0	41	4.000000	0.5670000+03	0.0000000+00	0.0000000+00
1009	0	4	1.210000	0.0000000+00	0.1400560+01	0.0000000+00
1010	0	40	2.000000	0.3641500-01	0.0000000+00	0.0000000+00
1011	0	40	3.000000	-0.5723590+00	0.0000000+00	0.0000000+00
1012	0	40	4.000000	0.4195540+02	0.0000000+00	0.0000000+00
1013	0	41	2.000000	0.5660000+00	0.0000000+00	0.0000000+00
1014	0	41	3.000000	0.8500000+02	0.0000000+00	0.0000000+00
1015	0	41	4.000000	0.5670000+03	0.0000000+00	0.0000000+00
1016	0	1	0.800000	0.0000000+00	0.0000000+00	0.0000000+00
1017	0	2	0.150000	0.9745620+00	0.0000000+00	0.0000000+00
1018	0	40	5.000000	0.1231460+05	0.0000000+00	0.0000000+00
1019	0	40	9.000000	-0.5671950+13	0.0000000+00	0.0000000+00
1020	0	41	2.000000	0.1500000-01	0.0000000+00	0.0000000+00
1021	0	41	3.000000	0.2400000+01	0.0000000+00	0.0000000+00
1022	0	41	4.000000	0.6000000+02	0.0000000+00	0.0000000+00
1023	0	41	5.000000	0.3600000+04	0.0000000+00	0.0000000+00
1024	0	41	9.000000	0.9600000+11	0.0000000+00	0.0000000+00
1025	0	2	0.150000	0.9745620+00	0.0000000+00	0.0000000+00
1026	0	1	0.300000	0.0000000+00	0.0000000+00	0.0000000+00
1027	16	7	0.000000	0.0000000+00	0.0000000+00	0.0000000+00
1028	0	1	0.300000	0.0000000+00	0.0000000+00	0.0000000+00
1029	0	3	0.150000	0.2490320+01	0.0000000+00	0.0000000+00
1030	0	40	5.000000	0.3146770+05	0.0000000+00	0.0000000+00
1031	0	40	9.000000	-0.1449370+14	0.0000000+00	0.0000000+00
1032	0	41	2.000000	0.1500000-01	0.0000000+00	0.0000000+00
1033	0	41	3.000000	0.2400000+01	0.0000000+00	0.0000000+00
1034	0	41	4.000000	0.6000000+02	0.0000000+00	0.0000000+00
1035	0	41	5.000000	0.3600000+04	0.0000000+00	0.0000000+00
1036	0	41	9.000000	0.9600000+11	0.0000000+00	0.0000000+00
1037	0	3	0.150000	0.2490320+01	0.0000000+00	0.0000000+00
1038	0	1	0.400000	0.0000000+00	0.0000000+00	0.0000000+00
1039	0	2	0.150000	0.9877060+00	0.0000000+00	0.0000000+00
1040	0	40	5.000000	0.1248070+05	0.0000000+00	0.0000000+00
1041	0	40	9.000000	-0.5748450+13	0.0000000+00	0.0000000+00
1042	0	41	2.000000	0.1500000-01	0.0000000+00	0.0000000+00
1043	0	41	3.000000	0.2400000+01	0.0000000+00	0.0000000+00
1044	0	41	4.000000	0.6000000+02	0.0000000+00	0.0000000+00
1045	0	41	5.000000	0.3600000+04	0.0000000+00	0.0000000+00
1046	0	41	9.000000	0.9600000+11	0.0000000+00	0.0000000+00
1047	0	2	0.150000	0.9877060+00	0.0000000+00	0.0000000+00
1048	0	1	0.375000	0.0000000+00	0.0000000+00	0.0000000+00
1049	0	1	0.250000	0.0000000+00	0.0000000+00	0.0000000+00
1050	0	1	0.375000	0.0000000+00	0.0000000+00	0.0000000+00
1051	0	4	1.450000	0.0000000+00	-0.9495460+01	0.0000000+00
1052	0	17	-0.035000	0.2000000-01	0.0000000+00	0.0000000+00
1053	0	16	0.058750	-0.4375000-02	0.0000000+00	0.0000000+00
1054	0	1	0.455000	0.0000000+00	0.0000000+00	0.1000000+01
1055	0	14	0.300000	0.0000000+00	-0.7438190+00	0.1000000+01
1056	0	14	0.540000	0.0000000+00	-0.7487640+01	0.1000000+01
1057	0	14	0.300000	0.0000000+00	-0.7438190+00	0.1000000+01
1058	0	1	1.205000	0.0000000+00	0.0000000+00	0.1000000+01
1059	0	14	0.300000	0.0000000+00	0.3000000+00	0.1000000+01
1060	0	14	0.350000	0.0000000+00	0.6000000+00	0.1000000+01
1061	0	14	0.013500	0.0000000+00	0.6000000+00	0.1000000+01
1062	0	12	0.000000	0.8372860-01	0.2537130+00	0.1000000+01
1063	0	14	0.027000	0.0000000+00	0.6000000+00	0.1000000+01
1064	0	12	0.000000	0.8372860-01	0.2537130+00	0.1000000+01
1065	0	14	0.027000	0.0000000+00	0.6000000+00	0.1000000+01
1066	0	12	0.000000	0.8372860-01	0.2537130+00	0.1000000+01
1067	0	14	0.027000	0.0000000+00	0.6000000+00	0.1000000+01
1068	0	12	0.000000	0.8372860-01	0.2537130+00	0.1000000+01
1069	0	14	0.027000	0.0000000+00	0.6000000+00	0.1000000+01
1070	0	12	0.000000	0.8372860-01	0.2537130+00	0.1000000+01
1071	0	14	0.027000	0.0000000+00	0.6000000+00	0.1000000+01
1072	0	12	0.000000	0.8372860-01	0.2537130+00	0.1000000+01
1073	0	14	0.027000	0.0000000+00	0.6000000+00	0.1000000+01
1074	0	12	0.000000	0.8372860-01	0.2537130+00	0.1000000+01
1075	0	14	0.027000	0.0000000+00	0.6000000+00	0.1000000+01
1076	0	12	0.000000	0.8372860-01	0.2537130+00	0.1000000+01
1077	0	14	0.027000	0.0000000+00	0.6000000+00	0.1000000+01
1078	0	12	0.000000	0.8372860-01	0.2537130+00	0.1000000+01
1079	0	14	0.027000	0.0000000+00	0.6000000+00	0.1000000+01
1080	0	12	0.000000	0.8372860-01	0.2537130+00	0.1000000+01

1081	0	14	0.013500	0.000000+00	0.600000+00	0.100000+01
1082	0	14	0.150000	0.000000+00	0.600000+00	0.100000+01
1083	0	14	0.017500	0.000000+00	0.600000+00	0.100000+01
1084	0	13	0.000000	0.211725+00	0.176889+00	0.100000+01
1085	0	14	0.035000	0.000000+00	0.600000+00	0.100000+01
1086	0	13	0.000000	0.211725+00	0.176889+00	0.100000+01
1087	0	14	0.035000	0.000000+00	0.600000+00	0.100000+01
1088	0	13	0.000000	0.211725+00	0.176889+00	0.100000+01
1089	0	14	0.035000	0.000000+00	0.600000+00	0.100000+01
1090	0	13	0.000000	0.211725+00	0.176889+00	0.100000+01
1091	0	14	0.035000	0.000000+00	0.600000+00	0.100000+01
1092	0	13	0.000000	0.211725+00	0.176889+00	0.100000+01
1093	0	14	0.035000	0.000000+00	0.600000+00	0.100000+01
1094	0	13	0.000000	0.211725+00	0.176889+00	0.100000+01
1095	0	14	0.035000	0.000000+00	0.600000+00	0.100000+01
1096	0	13	0.000000	0.211725+00	0.176889+00	0.100000+01
1097	0	14	0.035000	0.000000+00	0.600000+00	0.100000+01
1098	0	13	0.000000	0.211725+00	0.176889+00	0.100000+01
1099	0	14	0.035000	0.000000+00	0.600000+00	0.100000+01
1100	0	13	0.000000	0.211725+00	0.176889+00	0.100000+01
1101	0	14	0.035000	0.000000+00	0.600000+00	0.100000+01
1102	0	13	0.000000	0.211725+00	0.176889+00	0.100000+01
1103	0	14	0.017500	0.000000+00	0.600000+00	0.100000+01
1104	0	14	0.170000	0.000000+00	0.600000+00	0.100000+01
1105	0	14	0.010000	0.000000+00	0.600000+00	0.100000+01
1106	0	12	0.000000	0.696793-01	0.104231+00	0.100000+01
1107	0	14	0.020000	0.000000+00	0.600000+00	0.100000+01
1108	0	12	0.000000	0.696793-01	0.104231+00	0.100000+01
1109	0	14	0.020000	0.000000+00	0.600000+00	0.100000+01
1110	0	12	0.000000	0.696793-01	0.104231+00	0.100000+01
1111	0	14	0.020000	0.000000+00	0.600000+00	0.100000+01
1112	0	12	0.000000	0.696793-01	0.104231+00	0.100000+01
1113	0	14	0.020000	0.000000+00	0.600000+00	0.100000+01
1114	0	12	0.000000	0.696793-01	0.104231+00	0.100000+01
1115	0	14	0.020000	0.000000+00	0.600000+00	0.100000+01
1116	0	12	0.000000	0.696793-01	0.104231+00	0.100000+01
1117	0	14	0.020000	0.000000+00	0.600000+00	0.100000+01
1118	0	12	0.000000	0.696793-01	0.104231+00	0.100000+01
1119	0	14	0.020000	0.000000+00	0.600000+00	0.100000+01
1120	0	12	0.000000	0.696793-01	0.104231+00	0.100000+01
1121	0	14	0.020000	0.000000+00	0.600000+00	0.100000+01
1122	0	12	0.000000	0.696793-01	0.104231+00	0.100000+01
1123	0	14	0.020000	0.000000+00	0.600000+00	0.100000+01
1124	0	12	0.000000	0.696793-01	0.104231+00	0.100000+01
1125	0	14	0.010000	0.000000+00	0.600000+00	0.100000+01
1126	0	14	0.460000	0.000000+00	0.600000+00	0.100000+01