

```
1 subroutine nml_reader ( parameters, dir_working )
2
3   use input_parameters
4   use constants_and_parameters
5   implicit NONE
6
7   ! subroutine arguments
8   type ( input_deck ), intent ( out ) :: parameters
9   character ( len = 64 ), intent ( out ) :: dir_working
10
11   integer ( lint ) :: num_intervals
12   integer ( lint ) :: io_status
13
14   real ( dp ) :: domain_a, domain_b ! x \in [ a, b ]
15   real ( dp ) :: xi_pressure, xi_density ! wall thickness
16   real ( dp ) :: eta_pressure, eta_density ! depth ( quadratic )
17
18   character ( len = 64 ) :: file_name_locator
19   character ( len = 64 ) :: file_name_domain, file_name_toy_pressure, file_name_toy_density
20   character ( len = 99 ) :: dir_nml, file_name, io_msg
21
22 ! ++++++ NAMELISTS
23
24 namelist / locator / file_name_domain, file_name_toy_pressure, file_name_toy_density
25 namelist / domain / num_intervals, domain_a, domain_b
26 namelist / toy_pressure / xi_pressure, eta_pressure
27 namelist / toy_density / xi_density, eta_density
28
29 call getcwd ( dir_working )
30 print *, 'working directory = ', dir_working
31
32 ! locator -----
33
34 ! read command file
35 dir_nml = trim ( dir_working ) // '/data/'
36 file_name_locator = 'namelist locator.nml'
37 file_name = trim ( dir_nml ) // file_name_locator
38 write ( *, * ) 'reading namelist locator ', file_name
39
40 ! open namelist
41 open ( unit = io_unit_nml, file = file_name, delim = 'apostrophe', iostat = io_status, iomsg = io_msg )
42 if ( io_status /= 0 ) then ! can't open file
43   write ( *, * )
44   write ( *, * ) 'unable to open file ', file_name
45   write ( *, * ) 'trying to read namelist locator'
46   write ( *, * ) 'io unit = ', io_unit_nml
47   write ( *, * ) 'iostat = ', io_status
48   write ( *, * ) 'iomsg = ', io_msg
49   stop 'error during file open'
50 end if
51
52 ! read namelist
53 read ( unit = io_unit_nml, nml = locator, iostat = io_status, iomsg = io_msg )
54 if ( io_status /= 0 ) then ! can't read file
55   write ( *, * )
56   write ( *, * ) 'unable to read file ', file_name
57   write ( *, * ) 'trying to read namelist locator'
58   write ( *, * ) 'io unit = ', io_unit_nml
59   write ( *, * ) 'iostat = ', io_status
60   write ( *, * ) 'iomsg = ', io_msg
61   stop 'error during file read'
62 end if
63
64 ! close file
65 close ( unit = io_unit_nml, iostat = io_status, iomsg = io_msg )
66 if ( io_status /= 0 ) then ! can't close file
67   write ( *, * )
68   write ( *, * ) 'unable to close file ', file_name
69   write ( *, * ) 'trying to read namelist locator'
70   write ( *, * ) 'io unit = ', io_unit_nml
71   write ( *, * ) 'iostat = ', io_status
72   write ( *, * ) 'iomsg = ', io_msg
73   stop 'error during file close'
74 end if
75
76 ! domain -----
77
78 ! assemble file name
79 file_name = trim ( dir_nml ) // file_name_domain
```

```
80 write ( *, * ) 'reading namelist domain in ', file_name
81
82 ! open namelist
83 open ( unit = io_unit_nml, file = file_name, delim = 'apostrophe', iostat = io_status, iomsg = io_msg )
84 if ( io_status /= 0 ) then
85     write ( *, * )
86     write ( *, * ) 'unable to open file ', file_name
87     write ( *, * ) 'trying to read namelist domain'
88     write ( *, * ) 'io unit = ', io_unit_nml
89     write ( *, * ) 'iostat = ', io_status
90     write ( *, * ) 'iomsg = ', io_msg
91 end if
92
93 ! read namelist
94 read ( unit = io_unit_nml, nml = domain, iostat = io_status, iomsg = io_msg )
95 if ( io_status /= 0 ) then
96     write ( *, * )
97     write ( *, * ) 'unable to read file ', file_name
98     write ( *, * ) 'trying to read namelist domain'
99     write ( *, * ) 'io unit = ', io_unit_nml
100    write ( *, * ) 'iostat = ', io_status
101    write ( *, * ) 'iomsg = ', io_msg
102 end if
103
104 ! close file
105 close ( unit = io_unit_nml, iostat = io_status, iomsg = io_msg )
106 if ( io_status /= 0 ) then
107     write ( *, * )
108     write ( *, * ) 'unable to close file ', file_name
109     write ( *, * ) 'trying to read namelist domain'
110     write ( *, * ) 'io unit = ', io_unit_nml
111     write ( *, * ) 'iostat = ', io_status
112     write ( *, * ) 'iomsg = ', io_msg
113 end if
114
115 ! toy_pressure -----
116
117 ! assemble file name
118 file_name = trim ( dir_nml ) // file_name_toy_pressure
119 write ( *, * ) 'reading namelist toy_pressure in ', file_name
120
121 ! open namelist
122 open ( unit = io_unit_nml, file = file_name, delim = 'apostrophe', iostat = io_status, iomsg = io_msg )
123 if ( io_status /= 0 ) then
124     write ( *, * )
125     write ( *, * ) 'unable to open file ', file_name
126     write ( *, * ) 'trying to open the update for the namelist toy_pressure'
127     write ( *, * ) 'io unit = ', io_unit_nml
128     write ( *, * ) 'iostat = ', io_status
129     write ( *, * ) 'iomsg = ', io_msg
130 end if
131
132 ! read namelist
133 read ( unit = io_unit_nml, nml = toy_pressure, iostat = io_status, iomsg = io_msg )
134 if ( io_status /= 0 ) then
135     write ( *, * )
136     write ( *, * ) 'unable to read file ', file_name
137     write ( *, * ) 'trying to read the namelist toy_pressure'
138     write ( *, * ) 'io unit = ', io_unit_nml
139     write ( *, * ) 'iostat = ', io_status
140     write ( *, * ) 'iomsg = ', io_msg
141 end if
142
143 ! close file
144 close ( unit = io_unit_nml, iostat = io_status, iomsg = io_msg )
145 if ( io_status /= 0 ) then
146     write ( *, * )
147     write ( *, * ) 'unable to close file ', file_name
148     write ( *, * ) 'trying to close the namelist toy_pressure'
149     write ( *, * ) 'io unit = ', io_unit_nml
150     write ( *, * ) 'iostat = ', io_status
151     write ( *, * ) 'iomsg = ', io_msg
152 end if
153
154
155 ! toy_density -----
156
157 ! assemble file name
158 file_name = trim ( dir_nml ) // file_name_toy_density
```

```
159 write ( *, * ) 'reading namelist toy_density in ', file_name
160
161 ! open namelist
162 open ( unit = io_unit_nml, file = file_name, delim = 'apostrophe', iostat = io_status, iomsg = io_msg )
163 if ( io_status /= 0 ) then ! can't open file
164     write ( *, * )
165     write ( *, * ) 'unable to open file ', file_name
166     write ( *, * ) 'trying to open the update for the namelist toy_density'
167     write ( *, * ) 'io unit = ', io_unit_nml
168     write ( *, * ) 'iostat = ', io_status
169     write ( *, * ) 'iomsg = ', io_msg
170 end if
171
172 ! read namelist
173 read ( unit = io_unit_nml, nml = toy_density, iostat = io_status, iomsg = io_msg )
174 if ( io_status /= 0 ) then ! can't read file
175     write ( *, * )
176     write ( *, * ) 'unable to read file ', file_name
177     write ( *, * ) 'trying to read the namelist toy_density'
178     write ( *, * ) 'io unit = ', io_unit_nml
179     write ( *, * ) 'iostat = ', io_status
180     write ( *, * ) 'iomsg = ', io_msg
181 end if
182
183 ! close file
184 close ( unit = io_unit_nml, iostat = io_status, iomsg = io_msg )
185 if ( io_status /= 0 ) then ! can't close file
186     write ( *, * )
187     write ( *, * ) 'unable to close file ', file_name
188     write ( *, * ) 'trying to close the namelist toy_density'
189     write ( *, * ) 'io unit = ', io_unit_nml
190     write ( *, * ) 'iostat = ', io_status
191     write ( *, * ) 'iomsg = ', io_msg
192 end if
193
194 ! call system ( 'pwd' )
195
196 ! ++++++ LOAD PARAMETERS
197
198 parameters % num_intervals = num_intervals
199 parameters % domain_a      = domain_a
200 parameters % domain_b      = domain_b
201 parameters % pressure_xi    = xi_pressure
202 parameters % pressure_eta   = eta_pressure
203 parameters % density_xi     = xi_density
204 parameters % density_eta    = eta_density
205
206 end subroutine nml_reader
207
208 ! ##### !
209 ! # !
210 ! ##### !
211
212 character ( len = 30 ) function timestamp ( ) result ( now ) ! 2013-06-06 19:47:03 UCT-0600
213
214 use kind_types
215 implicit none
216
217 integer ( lint ), dimension ( 8 ) :: values ! DTG ( date time group )
218
219 ! characters
220 character ( len = 8 ) :: date ! DTG
221 character ( len = 10 ) :: time ! DTG
222 character ( len = 5 ) :: zone ! DTG
223
224 ! timestamp
225 call date_and_time ( date, time, zone, values )
226
227 write ( now, 100 ) date ( 1 : 4 ), date ( 5 : 6 ), date ( 7 : 8 ), &
228     time ( 1 : 2 ), time ( 3 : 4 ), time ( 5 : 6 ), "UCT", zone
229 100 format ( a, "-", a, "-", a, 2X, a, ":", a, ":", a, 2X, a, a )
230
231 end function timestamp
232
233 ! ##### !
234 ! # !
235 ! ##### !
236
237 subroutine how_long_sub ( io_unit_out, time_sec_fixed, descriptor )
```

```
238
239 use kind_types
240 implicit NONE
241
242 real ( wp )                :: time_sec_volatile ! local copy of time
243 real ( wp )                :: compare          ! convert to next larger unit
244 real ( wp ), intent ( in ) :: time_sec_fixed  ! time in seconds
245 integer ( lint ), intent ( in ) :: io_unit_out ! where to write the results
246 character ( len = 36 ), intent ( in ) :: descriptor ! e.g. "elapsed CPU time (sec) : "
247
248 ! when do we convert to next higher unit (e.g. seconds to minutes)?
249 compare = 0.5_wp
250
251 time_sec_volatile = time_sec_fixed          ! destructible copy
252
253 write ( io_unit_out, '( A, G10.5 )', advance = 'no' ) descriptor, time_sec_volatile
254 time_sec_volatile = time_sec_volatile / 60
255
256 if ( time_sec_volatile >= compare ) then      ! minutes
257   write ( io_unit_out, '( 5X, G10.5, "(min)" )', advance = 'no' ) time_sec_volatile
258   time_sec_volatile = time_sec_volatile / 60
259
260   if ( time_sec_volatile >= compare ) then      ! hours
261     write ( io_unit_out, '( 5X, G10.5, "(hr)" )', advance = 'no' ) time_sec_volatile
262     time_sec_volatile = time_sec_volatile / 24
263
264     if ( time_sec_volatile >= compare ) then      ! days
265       write ( io_unit_out, '( 5X, G10.5, "(day)" )', advance = 'no' ) time_sec_volatile
266
267     end if
268
269   end if
270
271 end if
272
273 write ( io_unit_out, * )
274
275 end subroutine how_long_sub
276
277 ! ##### !
278 ! # !
279 ! ##### !
280
281 function Taylor_polynomial_fcn ( x, y ) result ( f )
282
283   use constants_and_parameters
284   implicit none
285
286   ! class ( Helios ) :: self
287   real ( wp ), intent ( in ) :: x, y
288   real ( wp ) :: f ( 1 : t )
289
290   ! basis polynomials for 10th order fit
291   f = [ one, x, y, x**2, x * y, y**2, x**3, x**2 * y, x * y**2, y**3, x**4, x**3 * y, x**2 * y**2, &
292     x * y**3, y**4, x**5, x**4 * y, x**3 * y**2, x**2 * y**3, x * y**4, y**5, x**6, x**5 * y, &
293     x**4 * y**2, x**3 * y**3, x**2 * y**4, x * y**5, y**6, x**7, x**6 * y, x**5 * y**2, &
294     x**4 * y**3, x**3 * y**4, x**2 * y**5, x * y**6, y**7, x**8, x**7 * y, x**6 * y**2, &
295     x**5 * y**3, x**4 * y**4, x**3 * y**5, x**2 * y**6, x * y**7, y**8, x**9, x**8 * y, &
296     x**7 * y**2, x**6 * y**3, x**5 * y**4, x**4 * y**5, x**3 * y**6, x**2 * y**7, x * y**8, y**9, &
297     x**10, x**9 * y, x**8 * y**2, x**7 * y**3, x**6 * y**4, x**5 * y**5, x**4 * y**6, &
298     x**3 * y**7, x**2 * y**8, x * y**9, y**10 ]
299
300 end function Taylor_polynomial_fcn
301
302 ! elapsed CPU time for Hilb (sec) : 1971.3 32.855 (min) .54758 (hr)
303 ! elapsed CPU time for poly (sec) : 1010.7 16.846 (min)
304
305
306 ! ##### !
307 ! # !
308 ! ##### !
309
310 function Taylor_polynomial_otro_fcn ( x, y, a ) result ( f )
311
312   use constants_and_parameters
313   implicit none
314
315   ! class ( Helios ) :: self
316   real ( wp ), intent ( in ) :: x, y
```

```
317 real ( wp ), intent ( in ) :: a ( 1 : t )
318 real ( wp )                :: f
319
320 ! basis polynomials for 10th order fit
321
322 ! Fortran code generated by:
323 ! nb: write polynomial 01.nb
324 ! date: Aug 11, 2013, time: 14:25:39
325 ! user: dantopa, CPU: Zernike-2, MM v. 9.0 for Mac OS X x86
326 ! directory: /Users/dantopa/Dropbox/ nb/LANL/Fortran/load HELIOS/
327
328 f = a ( 1 ) + a ( 2 ) * x + a ( 3 ) * y + a ( 4 ) * x**2 &
329 + a ( 5 ) * x * y + a ( 6 ) * y**2 + a ( 7 ) * x**3 + a ( 8 ) * x**2 * y &
330 + a ( 9 ) * x * y**2 + a ( 10 ) * y**3 + a ( 11 ) * x**4 + a ( 12 ) * x**3 * y &
331 + a ( 13 ) * x**2 * y**2 + a ( 14 ) * x * y**3 + a ( 15 ) * y**4 + a ( 16 ) * x**5 &
332 + a ( 17 ) * x**4 * y + a ( 18 ) * x**3 * y**2 + a ( 19 ) * x**2 * y**3 + a ( 20 ) * x * y**4 &
333 + a ( 21 ) * y**5 + a ( 22 ) * x**6 + a ( 23 ) * x**5 * y + a ( 24 ) * x**4 * y**2 &
334 + a ( 25 ) * x**3 * y**3 + a ( 26 ) * x**2 * y**4 + a ( 27 ) * x * y**5 + a ( 28 ) * y**6 &
335 + a ( 29 ) * x**7 + a ( 30 ) * x**6 * y + a ( 31 ) * x**5 * y**2 + a ( 32 ) * x**4 * y**3 &
336 + a ( 33 ) * x**3 * y**4 + a ( 34 ) * x**2 * y**5 + a ( 35 ) * x * y**6 + a ( 36 ) * y**7 &
337 + a ( 37 ) * x**8 + a ( 38 ) * x**7 * y + a ( 39 ) * x**6 * y**2 + a ( 40 ) * x**5 * y**3 &
338 + a ( 41 ) * x**4 * y**4 + a ( 42 ) * x**3 * y**5 + a ( 43 ) * x**2 * y**6 + a ( 44 ) * x * y**7 &
339 + a ( 45 ) * y**8 + a ( 46 ) * x**9 + a ( 47 ) * x**8 * y + a ( 48 ) * x**7 * y**2 &
340 + a ( 49 ) * x**6 * y**3 + a ( 50 ) * x**5 * y**4 + a ( 51 ) * x**4 * y**5 + a ( 52 ) * x**3 * y**6 &
341 + a ( 53 ) * x**2 * y**7 + a ( 54 ) * x * y**8 + a ( 55 ) * y**9 + a ( 56 ) * x**10 &
342 + a ( 57 ) * x**9 * y + a ( 58 ) * x**8 * y**2 + a ( 59 ) * x**7 * y**3 + a ( 60 ) * x**6 * y**4 &
343 + a ( 61 ) * x**5 * y**5 + a ( 62 ) * x**4 * y**6 + a ( 63 ) * x**3 * y**7 + a ( 64 ) * x**2 * y**8 &
344 + a ( 65 ) * x * y**9 + a ( 66 ) * y**10
345
346 end function Taylor_polynomial_otro_fcn
347
348 ! ##### !
349 ! # !
350 ! ##### !
351
352 function Taylor_polynomial_numr_fcn ( x, y ) result ( f )
353
354 use constants_and_parameters
355 implicit none
356
357 ! class ( Helios ) :: self
358 real ( wp ), intent ( in ) :: x, y
359 real ( wp ) :: f
360
361 ! basis polynomials for 10th order fit
362
363 ! Fortran code generated by:
364 ! nb: write polynomial 01.nb
365 ! date: Aug 11, 2013, time: 14:25:39
366 ! user: dantopa, CPU: Zernike-2, MM v. 9.0 for Mac OS X x86
367 ! directory: /Users/dantopa/Dropbox/ nb/LANL/Fortran/load HELIOS/
368
369 f = 0.00023624078873436816 &
370 + 0.0020723394123795882 * x - 0.002730740739144458 * y - 0.0006967619232823357 * x**2 &
371 + 0.00006164133732424956 * x * y + 0.0010693680163633042 * y**2 + 0.00009639295651416534 * x**3 &
372 + 0.000045846648713516926 * x**2 * y - 0.00005912598784694697 * x * y**2 - 0.00019185905389443867 * y**3 &
373 - 7.093240940994581e-6 * x**4 - 7.5731844424270264e-6 * x**3 * y + 2.5346679281183383e-6 * x**2 * y**2 &
374 + 6.451930141772055e-6 * x * y**3 + 0.00001970465290913931 * y**4 + 3.0998657869748453e-7 * x**5 &
375 + 5.305584494041726e-7 * x**4 * y - 4.79942889039212e-9 * x**3 * y**2 - 2.3167836719869998e-7 * x**2 * y**3 &
376 - 3.921732664779752e-7 * x * y**4 - 1.2477679657238996e-6 * y**5 - 8.464415631745896e-9 * x**6 &
377 - 1.9015085390854307e-8 * x**5 * y + 4.4970742878651076e-10 * x**4 * y**2 + 2.020748715214935e-9 * x**3 * y**3 &
378 + 9.715111660874048e-9 * x**2 * y**4 + 1.4556853684248182e-8 * x * y**5 + 5.034201437168396e-8 * y**6 &
379 + 1.460248578211062e-10 * x**7 + 3.7536189256836264e-10 * x**6 * y - 4.6936881468785016e-11 * x**5 * y**2 &
380 + 5.519271687906607e-11 * x**4 * y**3 - 1.520261445563445e-10 * x**3 * y**4 - 1.2976161355626352e-9 * y**7 &
381 - 2.1461775559104397e-10 * x**2 * y**5 - 3.26113281247294e-10 * x * y**6 - 1.2976161355626352e-9 * y**7 &
382 - 1.5467136463632989e-12 * x**8 - 4.115786600425664e-12 * x**7 * y + 7.57891881255054e-13 * x**6 * y**2 &
383 - 8.222885869150994e-13 * x**5 * y**3 + 5.92397340996403e-13 * x**4 * y**4 + 2.2806874881044467e-12 * x**3 * y**5 &
384 + 3.3747000598770626e-12 * x**2 * y**6 + 3.954244052603308e-12 * x * y**7 + 2.0693900935891672e-11 * y**8 &
385 + 9.176926781774342e-15 * x**9 + 2.336029108025699e-14 * x**8 * y - 3.141531600468888e-15 * x**7 * y**2 &
386 - 1.1638326310642216e-15 * x**6 * y**3 + 1.1007121145273976e-14 * x**5 * y**4 - 2.1918541928276306e-14 * x**4 * y**5 &
387 - 6.669977490849901e-15 * x**3 * y**6 - 3.8034383129835514e-14 * x**2 * y**7 - 1.9607871266070757e-14 * x * y**8 &
388 - 1.860011834805848e-13 * y**9 - 2.332983643759255e-17 * x**10 - 5.303633394923939e-17 * x**9 * y &
389 - 4.049134749433674e-18 * x**8 * y**2 + 3.58033911425524e-17 * x**7 * y**3 - 7.302864838764852e-17 * x**6 * y**4 &
390 + 5.4808551163430194e-17 * x**5 * y**5 + 5.684005539976988e-17 * x**4 * y**6 - 1.0714476962340622e-17 * x**3 * y**7 &
391 + 1.9387836389403417e-16 * x**2 * y**8 - 4.023557181670727e-19 * x * y**9 + 7.201436148129852e-16 * y**10
392
393 end function Taylor_polynomial_numr_fcn
394
395 ! ##### !
```

```
396 !      #                                     #      !
397 !      #####                                     #####      !
398
399 ! Fortran code generated by:
400 ! nb: loopier 05.nb
401 ! date: Aug 15, 2013, time: 11:23:19
402 ! user: dantopa, CPU: Zernike-2, MM v. 9.0 for Mac OS X x86
403 ! directory: /Users/dantopa/Dropbox/ nb/LANL/Fortran/load HELIOS/
404
405 subroutine load_data ( HeB_emissivity, LyB_emissivity, HeB_opacity, LyB_opacity )
406
407   use linear_regression_results
408   use quality_parameters
409   use HELIOS_data
410   implicit none
411
412   type ( HELIOS ), intent ( in out ) :: HeB_emissivity ! instantiate class
413   type ( HELIOS ), intent ( in out ) :: LyB_emissivity ! instantiate class
414   type ( HELIOS ), intent ( in out ) :: HeB_opacity    ! instantiate class
415   type ( HELIOS ), intent ( in out ) :: LyB_opacity    ! instantiate class
416
417   ! Mathematica output
418   real ( wp )                :: amplitudes ( 1 : t )
419   real ( wp )                :: errors      ( 1 : t )
420
421   type ( lr_results )        :: lr_fit_temp
422   type ( lr_results )        :: lr_fit_density
423   type ( surface_fit_quality ) :: sf_quality
424   type ( array_characteristics ) :: scaled_characteristics
425   type ( array_characteristics ) :: normalized_characteristics
426
427   ! HELIOS output
428   real ( wp )                :: array ( num_pts_temp, num_pts_density ) ! HELIOS output array
429   real ( wp )                :: pts_temp   ( 1 : num_pts_temp )         ! Te_ID.txt
430   real ( wp )                :: pts_density ( 1 : num_pts_density )      ! Ne_ID.txt
431
432   ! scale factors for temperature
433   pts_temp ( 1 ) = 260.
434   pts_temp ( 2 ) = 275.5
435   pts_temp ( 3 ) = 291.
436   pts_temp ( 4 ) = 306.5
437   pts_temp ( 5 ) = 322.
438   pts_temp ( 6 ) = 337.5
439   pts_temp ( 7 ) = 353.
440   pts_temp ( 8 ) = 368.5
441   pts_temp ( 9 ) = 384.
442   pts_temp ( 10 ) = 399.5
443   pts_temp ( 11 ) = 415.
444   pts_temp ( 12 ) = 430.5
445   pts_temp ( 13 ) = 446.
446   pts_temp ( 14 ) = 461.5
447   pts_temp ( 15 ) = 477.
448   pts_temp ( 16 ) = 492.5
449   pts_temp ( 17 ) = 508.
450   pts_temp ( 18 ) = 523.5
451   pts_temp ( 19 ) = 539.
452   pts_temp ( 20 ) = 554.5
453   pts_temp ( 21 ) = 570.
454   pts_temp ( 22 ) = 585.5
455   pts_temp ( 23 ) = 601.
456   pts_temp ( 24 ) = 616.5
457   pts_temp ( 25 ) = 632.
458   pts_temp ( 26 ) = 647.5
459   pts_temp ( 27 ) = 663.
460   pts_temp ( 28 ) = 678.5
461   pts_temp ( 29 ) = 694.
462   pts_temp ( 30 ) = 709.5
463   pts_temp ( 31 ) = 725.
464   pts_temp ( 32 ) = 740.5
465   pts_temp ( 33 ) = 756.
466   pts_temp ( 34 ) = 771.5
467   pts_temp ( 35 ) = 787.
468   pts_temp ( 36 ) = 802.5
469   pts_temp ( 37 ) = 818.
470   pts_temp ( 38 ) = 833.5
471   pts_temp ( 39 ) = 849.
472   pts_temp ( 40 ) = 864.5
473   pts_temp ( 41 ) = 880.
474   pts_temp ( 42 ) = 895.5
```

```
475 pts_temp ( 43 ) = 911.
476 pts_temp ( 44 ) = 926.5
477 pts_temp ( 45 ) = 942.
478 pts_temp ( 46 ) = 957.5
479 pts_temp ( 47 ) = 973.
480 pts_temp ( 48 ) = 988.5
481 pts_temp ( 49 ) = 1004.
482 pts_temp ( 50 ) = 1019.5
483 pts_temp ( 51 ) = 1035.
484 pts_temp ( 52 ) = 1050.5
485 pts_temp ( 53 ) = 1066.
486 pts_temp ( 54 ) = 1081.5
487 pts_temp ( 55 ) = 1097.
488 pts_temp ( 56 ) = 1112.5
489 pts_temp ( 57 ) = 1128.
490 pts_temp ( 58 ) = 1143.5
491 pts_temp ( 59 ) = 1159.
492 pts_temp ( 60 ) = 1174.5
493 pts_temp ( 61 ) = 1190.
494 pts_temp ( 62 ) = 1205.5
495 pts_temp ( 63 ) = 1221.
496 pts_temp ( 64 ) = 1236.5
497 pts_temp ( 65 ) = 1252.
498 pts_temp ( 66 ) = 1267.5
499 pts_temp ( 67 ) = 1283.
500 pts_temp ( 68 ) = 1298.5
501 pts_temp ( 69 ) = 1314.
502 pts_temp ( 70 ) = 1329.5
503 pts_temp ( 71 ) = 1345.
504 pts_temp ( 72 ) = 1360.5
505 pts_temp ( 73 ) = 1376.
506 pts_temp ( 74 ) = 1391.5
507 pts_temp ( 75 ) = 1407.
508 pts_temp ( 76 ) = 1422.5
509 pts_temp ( 77 ) = 1438.
510 pts_temp ( 78 ) = 1453.5
511 pts_temp ( 79 ) = 1469.
512 pts_temp ( 80 ) = 1484.5
513 pts_temp ( 81 ) = 1500.
514
515 call HeB_emmissivity % put ( pts_temp = pts_temp )
516
517 lr_fit_density % intercept_value = 244.5000000000003
518 lr_fit_density % intercept_error = 0.
519 lr_fit_density % slope_value     = 15.5
520 lr_fit_density % slope_error     = 0.
521 lr_fit_density % error_rms       = 0.
522
523 call HeB_emmissivity % put ( pts_temp_lr = lr_fit_temp )
524
525 ! scale factors for density
526 pts_density ( 1 ) = 1.e23
527 pts_density ( 2 ) = 1.576e23
528 pts_density ( 3 ) = 2.152e23
529 pts_density ( 4 ) = 2.728e23
530 pts_density ( 5 ) = 3.304e23
531 pts_density ( 6 ) = 3.88e23
532 pts_density ( 7 ) = 4.456e23
533 pts_density ( 8 ) = 5.032e23
534 pts_density ( 9 ) = 5.608e23
535 pts_density ( 10 ) = 6.184e23
536 pts_density ( 11 ) = 6.76e23
537 pts_density ( 12 ) = 7.336e23
538 pts_density ( 13 ) = 7.912e23
539 pts_density ( 14 ) = 8.488e23
540 pts_density ( 15 ) = 9.064e23
541 pts_density ( 16 ) = 9.64e23
542 pts_density ( 17 ) = 1.0216e24
543 pts_density ( 18 ) = 1.0792e24
544 pts_density ( 19 ) = 1.1368e24
545 pts_density ( 20 ) = 1.1944e24
546 pts_density ( 21 ) = 1.252e24
547 pts_density ( 22 ) = 1.3096e24
548 pts_density ( 23 ) = 1.3672e24
549 pts_density ( 24 ) = 1.4248e24
550 pts_density ( 25 ) = 1.4824e24
551 pts_density ( 26 ) = 1.54e24
552 pts_density ( 27 ) = 1.5976e24
553 pts_density ( 28 ) = 1.6552e24
```

```
554 pts_density ( 29 ) = 1.7128e24
555 pts_density ( 30 ) = 1.7704e24
556 pts_density ( 31 ) = 1.828e24
557 pts_density ( 32 ) = 1.8856e24
558 pts_density ( 33 ) = 1.9432e24
559 pts_density ( 34 ) = 2.0008e24
560 pts_density ( 35 ) = 2.0584e24
561 pts_density ( 36 ) = 2.116e24
562 pts_density ( 37 ) = 2.1736e24
563 pts_density ( 38 ) = 2.2312e24
564 pts_density ( 39 ) = 2.2888e24
565 pts_density ( 40 ) = 2.3464e24
566 pts_density ( 41 ) = 2.404e24
567 pts_density ( 42 ) = 2.4616e24
568 pts_density ( 43 ) = 2.5192e24
569 pts_density ( 44 ) = 2.5768e24
570 pts_density ( 45 ) = 2.6344e24
571 pts_density ( 46 ) = 2.692e24
572 pts_density ( 47 ) = 2.7496e24
573 pts_density ( 48 ) = 2.8072e24
574 pts_density ( 49 ) = 2.8648e24
575 pts_density ( 50 ) = 2.9224e24
576 pts_density ( 51 ) = 2.98e24
577
578 call HeB_emmissivity % put ( pts_density = pts_density )
579
580 lr_fit_density % intercept_value = 4.2399999925e22
581 lr_fit_density % intercept_error = 1.6282460071720295e7
582 lr_fit_density % slope_value = 5.76e22
583 lr_fit_density % slope_error = 18240.24653292042
584 lr_fit_density % error_rms = 1.9756314628630587e8
585
586 call HeB_emmissivity % put ( pts_density_lr = lr_fit_density )
587
588 ! fit amplitudes describing surface for HeB_emmissivity
589 amplitudes ( 1 ) = 0.00023624078873436816
590 amplitudes ( 2 ) = 0.0020723394123795882
591 amplitudes ( 3 ) = -0.002730740739144458
592 amplitudes ( 4 ) = -0.0006967619232823357
593 amplitudes ( 5 ) = 0.00006164133732424956
594 amplitudes ( 6 ) = 0.0010693680163633042
595 amplitudes ( 7 ) = 0.00009639295651416534
596 amplitudes ( 8 ) = 0.000045846648713516926
597 amplitudes ( 9 ) = -0.00005912598784694697
598 amplitudes ( 10 ) = -0.00019185905389443867
599 amplitudes ( 11 ) = -7.093240940994581e-6
600 amplitudes ( 12 ) = -7.5731844424270264e-6
601 amplitudes ( 13 ) = 2.5346679281183383e-6
602 amplitudes ( 14 ) = 6.451930141772055e-6
603 amplitudes ( 15 ) = 0.00001970465290913931
604 amplitudes ( 16 ) = 3.0998657869748453e-7
605 amplitudes ( 17 ) = 5.305584494041726e-7
606 amplitudes ( 18 ) = -4.79942889039212e-9
607 amplitudes ( 19 ) = -2.3167836719869998e-7
608 amplitudes ( 20 ) = -3.921732664779752e-7
609 amplitudes ( 21 ) = -1.2477679657238996e-6
610 amplitudes ( 22 ) = -8.464415631745896e-9
611 amplitudes ( 23 ) = -1.9015085390854307e-8
612 amplitudes ( 24 ) = 4.4970742878651076e-10
613 amplitudes ( 25 ) = 2.020748715214935e-9
614 amplitudes ( 26 ) = 9.715111660874048e-9
615 amplitudes ( 27 ) = 1.4556853684248182e-8
616 amplitudes ( 28 ) = 5.034201437168396e-8
617 amplitudes ( 29 ) = 1.460248578211062e-10
618 amplitudes ( 30 ) = 3.7536189256836264e-10
619 amplitudes ( 31 ) = -4.6936881468785016e-11
620 amplitudes ( 32 ) = 5.519271687906607e-11
621 amplitudes ( 33 ) = -1.520261445563445e-10
622 amplitudes ( 34 ) = -2.1461775559104397e-10
623 amplitudes ( 35 ) = -3.26113281247294e-10
624 amplitudes ( 36 ) = -1.2976161355626352e-9
625 amplitudes ( 37 ) = -1.5467136463632989e-12
626 amplitudes ( 38 ) = -4.115786600425664e-12
627 amplitudes ( 39 ) = 7.578918812550554e-13
628 amplitudes ( 40 ) = -8.222885869150994e-13
629 amplitudes ( 41 ) = 5.92397340996403e-13
630 amplitudes ( 42 ) = 2.2806874881044467e-12
631 amplitudes ( 43 ) = 3.3747000598770626e-12
632 amplitudes ( 44 ) = 3.954244052603308e-12
```



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633 amplitudes ( 45 ) = 2.0693900935891672e-11
634 amplitudes ( 46 ) = 9.176926781774342e-15
635 amplitudes ( 47 ) = 2.336029108025699e-14
636 amplitudes ( 48 ) = -3.14153160046888e-15
637 amplitudes ( 49 ) = -1.1638326310642216e-15
638 amplitudes ( 50 ) = 1.1007121145273976e-14
639 amplitudes ( 51 ) = -2.1918541928276306e-14
640 amplitudes ( 52 ) = -6.669977490849901e-15
641 amplitudes ( 53 ) = -3.8034383129835514e-14
642 amplitudes ( 54 ) = -1.9607871266070757e-14
643 amplitudes ( 55 ) = -1.860011834805848e-13
644 amplitudes ( 56 ) = -2.332983643759252e-17
645 amplitudes ( 57 ) = -5.303633394923939e-17
646 amplitudes ( 58 ) = -4.049134749433674e-18
647 amplitudes ( 59 ) = 3.58033911425524e-17
648 amplitudes ( 60 ) = -7.302864838764852e-17
649 amplitudes ( 61 ) = 5.4808551163430194e-17
650 amplitudes ( 62 ) = 5.684005539976988e-17
651 amplitudes ( 63 ) = -1.0714476962340622e-17
652 amplitudes ( 64 ) = 1.9387836389403417e-16
653 amplitudes ( 65 ) = -4.023557181670727e-19
654 amplitudes ( 66 ) = 7.201436148129852e-16
655
656 call HeB_emissivity % put ( amplitudes = amplitudes )
657
658 ! errors in fit amplitudes describing surface for HeB_emissivity
659 errors ( 1 ) = 5.46099085741523e-7
660 errors ( 2 ) = 2.0004854162703226e-7
661 errors ( 3 ) = 3.555280234503944e-7
662 errors ( 4 ) = 3.715695720353703e-8
663 errors ( 5 ) = 4.784967238570551e-8
664 errors ( 6 ) = 1.0541108111467863e-7
665 errors ( 7 ) = 3.749738312511331e-9
666 errors ( 8 ) = 4.428693412163037e-9
667 errors ( 9 ) = 7.282140309297076e-9
668 errors ( 10 ) = 1.674260145405657e-8
669 errors ( 11 ) = 2.2629712683401844e-10
670 errors ( 12 ) = 2.571260967823493e-10
671 errors ( 13 ) = 3.8965031379764e-10
672 errors ( 14 ) = 6.795332092490787e-10
673 errors ( 15 ) = 1.5870767889816303e-9
674 errors ( 16 ) = 8.629249602227025e-12
675 errors ( 17 ) = 9.632774565536663e-12
676 errors ( 18 ) = 1.4023950434385113e-11
677 errors ( 19 ) = 2.2634537228729617e-11
678 errors ( 20 ) = 4.057272220729003e-11
679 errors ( 21 ) = 9.509711956030798e-11
680 errors ( 22 ) = 2.1302179021994298e-13
681 errors ( 23 ) = 2.375187737290941e-13
682 errors ( 24 ) = 3.3693705230396356e-13
683 errors ( 25 ) = 5.237118642284725e-13
684 errors ( 26 ) = 8.704383259771408e-13
685 errors ( 27 ) = 1.588581544588943e-12
686 errors ( 28 ) = 3.692174715943557e-12
687 errors ( 29 ) = 3.39469807467315e-15
688 errors ( 30 ) = 3.849988369501383e-15
689 errors ( 31 ) = 5.364861245480189e-15
690 errors ( 32 ) = 8.135839861520653e-15
691 errors ( 33 ) = 1.3037116402311857e-14
692 errors ( 34 ) = 2.2092288286160753e-14
693 errors ( 35 ) = 4.080986118188312e-14
694 errors ( 36 ) = 9.262179170032775e-14
695 errors ( 37 ) = 3.368944153258412e-17
696 errors ( 38 ) = 3.970326590150679e-17
697 errors ( 39 ) = 5.505679352520148e-17
698 errors ( 40 ) = 8.188238927380755e-17
699 errors ( 41 ) = 1.2809489446503362e-16
700 errors ( 42 ) = 2.0945014793371652e-16
701 errors ( 43 ) = 3.605352596635136e-16
702 errors ( 44 ) = 6.660885121903273e-16
703 errors ( 45 ) = 1.4481064301036045e-15
704 errors ( 46 ) = 1.8923344194617965e-19
705 errors ( 47 ) = 2.373242186867052e-19
706 errors ( 48 ) = 3.3709290402177625e-19
707 errors ( 49 ) = 4.982692421235566e-19
708 errors ( 50 ) = 7.643473670104698e-19
709 errors ( 51 ) = 1.2206862090271791e-18
710 errors ( 52 ) = 2.0295666702453733e-18
711 errors ( 53 ) = 3.5024679361292665e-18
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712 errors ( 54 ) = 6.293506302946878e-18
713 errors ( 55 ) = 1.2822831389575321e-17
714 errors ( 56 ) = 4.592721699118455e-22
715 errors ( 57 ) = 6.277800434015377e-22
716 errors ( 58 ) = 9.616475201121186e-22
717 errors ( 59 ) = 1.5041374172602368e-21
718 errors ( 60 ) = 2.374681970666115e-21
719 errors ( 61 ) = 3.773580406232887e-21
720 errors ( 62 ) = 6.033024940017956e-21
721 errors ( 63 ) = 9.713116401806782e-21
722 errors ( 64 ) = 1.5799838212464275e-20
723 errors ( 65 ) = 2.6281374764035017e-20
724 errors ( 66 ) = 4.908728063674987e-20
725
726 call HeB_emissivity % put ( errors = errors )
727
728 ! quality measures for surface fit
729 sf_quality % error_norm_L1 = 0.059452489535444394
730 sf_quality % error_norm_L2 = 0.033052008839367354
731 sf_quality % error_norm_Linf = 0.05612755140973981
732 sf_quality % error_maximum = 0.0033703531420746662
733 sf_quality % error_rms = 0.0006363839585311574
734 sf_quality % condition_number = 3.053286452268271e20
735
736 call HeB_emissivity % put ( sf_quality = sf_quality )
737
738 ! HELIOS output scaled
739 array ( 1, 1 ) = 4.91073e17
740 array ( 1, 2 ) = 1.0496e18
741 array ( 1, 3 ) = 1.63356e18
742 array ( 1, 4 ) = 2.24663e18
743 array ( 1, 5 ) = 2.91193e18
744 array ( 1, 6 ) = 3.62845e18
745 array ( 1, 7 ) = 4.37564e18
746 array ( 1, 8 ) = 5.13844e18
747 array ( 1, 9 ) = 5.84591e18
748 array ( 1, 10 ) = 6.55787e18
749 array ( 1, 11 ) = 7.27091e18
750 array ( 1, 12 ) = 7.98836e18
751 array ( 1, 13 ) = 8.70873e18
752 array ( 1, 14 ) = 9.43244e18
753 array ( 1, 15 ) = 1.01615e19
754 array ( 1, 16 ) = 1.08923e19
755 array ( 1, 17 ) = 1.16023e19
756 array ( 1, 18 ) = 1.22725e19
757 array ( 1, 19 ) = 1.29391e19
758 array ( 1, 20 ) = 1.36047e19
759 array ( 1, 21 ) = 1.42691e19
760 array ( 1, 22 ) = 1.49314e19
761 array ( 1, 23 ) = 1.5593e19
762 array ( 1, 24 ) = 1.62525e19
763 array ( 1, 25 ) = 1.6911e19
764 array ( 1, 26 ) = 1.75678e19
765 array ( 1, 27 ) = 1.82229e19
766 array ( 1, 28 ) = 1.88805e19
767 array ( 1, 29 ) = 1.95355e19
768 array ( 1, 30 ) = 2.01881e19
769 array ( 1, 31 ) = 2.08437e19
770 array ( 1, 32 ) = 2.14976e19
771 array ( 1, 33 ) = 2.21501e19
772 array ( 1, 34 ) = 2.28025e19
773 array ( 1, 35 ) = 2.34413e19
774 array ( 1, 36 ) = 2.40802e19
775 array ( 1, 37 ) = 2.4718e19
776 array ( 1, 38 ) = 2.53549e19
777 array ( 1, 39 ) = 2.5996e19
778 array ( 1, 40 ) = 2.66353e19
779 array ( 1, 41 ) = 2.72699e19
780 array ( 1, 42 ) = 2.79085e19
781 array ( 1, 43 ) = 2.85489e19
782 array ( 1, 44 ) = 2.91889e19
783 array ( 1, 45 ) = 2.98262e19
784 array ( 1, 46 ) = 3.04603e19
785 array ( 1, 47 ) = 3.10987e19
786 array ( 1, 48 ) = 3.17377e19
787 array ( 1, 49 ) = 3.23778e19
788 array ( 1, 50 ) = 3.30149e19
789 array ( 1, 51 ) = 3.36493e19
790 array ( 2, 1 ) = 1.50395e18
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```
791 array ( 2, 2 ) = 3.31855e18
792 array ( 2, 3 ) = 5.22842e18
793 array ( 2, 4 ) = 7.25656e18
794 array ( 2, 5 ) = 9.45506e18
795 array ( 2, 6 ) = 1.18148e19
796 array ( 2, 7 ) = 1.4275e19
797 array ( 2, 8 ) = 1.6785e19
798 array ( 2, 9 ) = 1.91101e19
799 array ( 2, 10 ) = 2.14507e19
800 array ( 2, 11 ) = 2.37916e19
801 array ( 2, 12 ) = 2.61442e19
802 array ( 2, 13 ) = 2.85036e19
803 array ( 2, 14 ) = 3.08629e19
804 array ( 2, 15 ) = 3.32366e19
805 array ( 2, 16 ) = 3.56103e19
806 array ( 2, 17 ) = 3.79109e19
807 array ( 2, 18 ) = 4.00855e19
808 array ( 2, 19 ) = 4.22462e19
809 array ( 2, 20 ) = 4.4401e19
810 array ( 2, 21 ) = 4.65471e19
811 array ( 2, 22 ) = 4.86818e19
812 array ( 2, 23 ) = 5.08159e19
813 array ( 2, 24 ) = 5.29402e19
814 array ( 2, 25 ) = 5.50584e19
815 array ( 2, 26 ) = 5.71708e19
816 array ( 2, 27 ) = 5.92743e19
817 array ( 2, 28 ) = 6.13767e19
818 array ( 2, 29 ) = 6.34722e19
819 array ( 2, 30 ) = 6.55605e19
820 array ( 2, 31 ) = 6.76518e19
821 array ( 2, 32 ) = 6.9736e19
822 array ( 2, 33 ) = 7.18159e19
823 array ( 2, 34 ) = 7.38936e19
824 array ( 2, 35 ) = 7.59251e19
825 array ( 2, 36 ) = 7.79571e19
826 array ( 2, 37 ) = 7.99831e19
827 array ( 2, 38 ) = 8.20039e19
828 array ( 2, 39 ) = 8.40287e19
829 array ( 2, 40 ) = 8.6049e19
830 array ( 2, 41 ) = 8.80674e19
831 array ( 2, 42 ) = 9.00809e19
832 array ( 2, 43 ) = 9.20891e19
833 array ( 2, 44 ) = 9.41052e19
834 array ( 2, 45 ) = 9.61139e19
835 array ( 2, 46 ) = 9.8115e19
836 array ( 2, 47 ) = 1.00125e20
837 array ( 2, 48 ) = 1.02134e20
838 array ( 2, 49 ) = 1.04146e20
839 array ( 2, 50 ) = 1.06144e20
840 array ( 2, 51 ) = 1.08131e20
841 array ( 3, 1 ) = 2.51683e18
842 array ( 3, 2 ) = 5.5875e18
843 array ( 3, 3 ) = 8.82329e18
844 array ( 3, 4 ) = 1.22665e19
845 array ( 3, 5 ) = 1.59982e19
846 array ( 3, 6 ) = 2.00011e19
847 array ( 3, 7 ) = 2.41745e19
848 array ( 3, 8 ) = 2.84315e19
849 array ( 3, 9 ) = 3.23742e19
850 array ( 3, 10 ) = 3.63436e19
851 array ( 3, 11 ) = 4.03124e19
852 array ( 3, 12 ) = 4.43e19
853 array ( 3, 13 ) = 4.82985e19
854 array ( 3, 14 ) = 5.22934e19
855 array ( 3, 15 ) = 5.63116e19
856 array ( 3, 16 ) = 6.03283e19
857 array ( 3, 17 ) = 6.42195e19
858 array ( 3, 18 ) = 6.78986e19
859 array ( 3, 19 ) = 7.15533e19
860 array ( 3, 20 ) = 7.51973e19
861 array ( 3, 21 ) = 7.88251e19
862 array ( 3, 22 ) = 8.24321e19
863 array ( 3, 23 ) = 8.60389e19
864 array ( 3, 24 ) = 8.96278e19
865 array ( 3, 25 ) = 9.32058e19
866 array ( 3, 26 ) = 9.67738e19
867 array ( 3, 27 ) = 1.00326e20
868 array ( 3, 28 ) = 1.03873e20
869 array ( 3, 29 ) = 1.07409e20
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870 array ( 3, 30 ) = 1.10933e20
871 array ( 3, 31 ) = 1.1446e20
872 array ( 3, 32 ) = 1.17974e20
873 array ( 3, 33 ) = 1.21482e20
874 array ( 3, 34 ) = 1.24985e20
875 array ( 3, 35 ) = 1.28409e20
876 array ( 3, 36 ) = 1.31834e20
877 array ( 3, 37 ) = 1.35248e20
878 array ( 3, 38 ) = 1.38653e20
879 array ( 3, 39 ) = 1.42061e20
880 array ( 3, 40 ) = 1.45463e20
881 array ( 3, 41 ) = 1.48865e20
882 array ( 3, 42 ) = 1.52253e20
883 array ( 3, 43 ) = 1.55629e20
884 array ( 3, 44 ) = 1.59022e20
885 array ( 3, 45 ) = 1.62402e20
886 array ( 3, 46 ) = 1.6577e20
887 array ( 3, 47 ) = 1.69151e20
888 array ( 3, 48 ) = 1.72531e20
889 array ( 3, 49 ) = 1.75914e20
890 array ( 3, 50 ) = 1.79274e20
891 array ( 3, 51 ) = 1.82613e20
892 array ( 4, 1 ) = 4.5686e18
893 array ( 4, 2 ) = 1.03241e19
894 array ( 4, 3 ) = 1.64253e19
895 array ( 4, 4 ) = 2.29785e19
896 array ( 4, 5 ) = 3.00889e19
897 array ( 4, 6 ) = 3.77058e19
898 array ( 4, 7 ) = 4.56615e19
899 array ( 4, 8 ) = 5.37778e19
900 array ( 4, 9 ) = 6.1307e19
901 array ( 4, 10 ) = 6.88937e19
902 array ( 4, 11 ) = 7.64759e19
903 array ( 4, 12 ) = 8.40904e19
904 array ( 4, 13 ) = 9.17241e19
905 array ( 4, 14 ) = 9.93374e19
906 array ( 4, 15 ) = 1.06986e20
907 array ( 4, 16 ) = 1.14635e20
908 array ( 4, 17 ) = 1.22053e20
909 array ( 4, 18 ) = 1.29058e20
910 array ( 4, 19 ) = 1.36011e20
911 array ( 4, 20 ) = 1.42942e20
912 array ( 4, 21 ) = 1.49846e20
913 array ( 4, 22 ) = 1.56709e20
914 array ( 4, 23 ) = 1.63553e20
915 array ( 4, 24 ) = 1.70364e20
916 array ( 4, 25 ) = 1.77157e20
917 array ( 4, 26 ) = 1.83923e20
918 array ( 4, 27 ) = 1.90652e20
919 array ( 4, 28 ) = 1.97375e20
920 array ( 4, 29 ) = 2.04077e20
921 array ( 4, 30 ) = 2.10755e20
922 array ( 4, 31 ) = 2.17429e20
923 array ( 4, 32 ) = 2.24074e20
924 array ( 4, 33 ) = 2.30703e20
925 array ( 4, 34 ) = 2.37327e20
926 array ( 4, 35 ) = 2.43796e20
927 array ( 4, 36 ) = 2.5025e20
928 array ( 4, 37 ) = 2.56687e20
929 array ( 4, 38 ) = 2.63109e20
930 array ( 4, 39 ) = 2.69518e20
931 array ( 4, 40 ) = 2.75916e20
932 array ( 4, 41 ) = 2.82331e20
933 array ( 4, 42 ) = 2.88708e20
934 array ( 4, 43 ) = 2.95051e20
935 array ( 4, 44 ) = 3.01426e20
936 array ( 4, 45 ) = 3.07778e20
937 array ( 4, 46 ) = 3.14112e20
938 array ( 4, 47 ) = 3.2047e20
939 array ( 4, 48 ) = 3.26817e20
940 array ( 4, 49 ) = 3.33145e20
941 array ( 4, 50 ) = 3.39447e20
942 array ( 4, 51 ) = 3.45724e20
943 array ( 5, 1 ) = 8.05883e18
944 array ( 5, 2 ) = 1.84774e19
945 array ( 5, 3 ) = 2.95756e19
946 array ( 5, 4 ) = 4.15858e19
947 array ( 5, 5 ) = 5.463e19
948 array ( 5, 6 ) = 6.85898e19
```

```
949 array ( 5, 7 ) = 8.31928e19
950 array ( 5, 8 ) = 9.8093e19
951 array ( 5, 9 ) = 1.11935e20
952 array ( 5, 10 ) = 1.25892e20
953 array ( 5, 11 ) = 1.39837e20
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4769 array ( 80, 2 ) = 9.03384e20
4770 array ( 80, 3 ) = 1.539e21
4771 array ( 80, 4 ) = 2.34825e21
4772 array ( 80, 5 ) = 3.38671e21
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4774 array ( 80, 7 ) = 5.96104e21
4775 array ( 80, 8 ) = 7.55287e21
4776 array ( 80, 9 ) = 9.25814e21
4777 array ( 80, 10 ) = 1.12591e22
4778 array ( 80, 11 ) = 1.33773e22
4779 array ( 80, 12 ) = 1.57141e22
4780 array ( 80, 13 ) = 1.82762e22
4781 array ( 80, 14 ) = 2.09396e22
4782 array ( 80, 15 ) = 2.38936e22
4783 array ( 80, 16 ) = 2.69966e22
4784 array ( 80, 17 ) = 3.02461e22
4785 array ( 80, 18 ) = 3.37289e22
4786 array ( 80, 19 ) = 3.73123e22
4787 array ( 80, 20 ) = 4.11202e22
4788 array ( 80, 21 ) = 4.51106e22
4789 array ( 80, 22 ) = 4.91998e22
4790 array ( 80, 23 ) = 5.35779e22
4791 array ( 80, 24 ) = 5.80535e22
4792 array ( 80, 25 ) = 6.26948e22
4793 array ( 80, 26 ) = 6.75528e22
4794 array ( 80, 27 ) = 7.2497e22
4795 array ( 80, 28 ) = 7.76611e22
4796 array ( 80, 29 ) = 8.29616e22
4797 array ( 80, 30 ) = 8.83651e22
4798 array ( 80, 31 ) = 9.40156e22
4799 array ( 80, 32 ) = 9.9743e22
4800 array ( 80, 33 ) = 1.05632e23
4801 array ( 80, 34 ) = 1.1168e23
4802 array ( 80, 35 ) = 1.17576e23
4803 array ( 80, 36 ) = 1.23679e23
4804 array ( 80, 37 ) = 1.29858e23
4805 array ( 80, 38 ) = 1.36124e23
4806 array ( 80, 39 ) = 1.42559e23
4807 array ( 80, 40 ) = 1.49034e23
4808 array ( 80, 41 ) = 1.55633e23
4809 array ( 80, 42 ) = 1.62341e23
4810 array ( 80, 43 ) = 1.69093e23
4811 array ( 80, 44 ) = 1.76037e23
4812 array ( 80, 45 ) = 1.83017e23
4813 array ( 80, 46 ) = 1.90074e23
4814 array ( 80, 47 ) = 1.97251e23
4815 array ( 80, 48 ) = 2.04454e23
4816 array ( 80, 49 ) = 2.11769e23
4817 array ( 80, 50 ) = 2.19156e23
4818 array ( 80, 51 ) = 2.26587e23
4819 array ( 81, 1 ) = 3.61554e20
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4821 array ( 81, 3 ) = 1.47523e21
4822 array ( 81, 4 ) = 2.25057e21
4823 array ( 81, 5 ) = 3.24568e21
4824 array ( 81, 6 ) = 4.35337e21
4825 array ( 81, 7 ) = 5.71183e21
4826 array ( 81, 8 ) = 7.23711e21
4827 array ( 81, 9 ) = 8.87183e21
4828 array ( 81, 10 ) = 1.07912e22
4829 array ( 81, 11 ) = 1.28233e22
4830 array ( 81, 12 ) = 1.50652e22
4831 array ( 81, 13 ) = 1.75253e22
4832 array ( 81, 14 ) = 2.00839e22
4833 array ( 81, 15 ) = 2.29228e22
4834 array ( 81, 16 ) = 2.59049e22
4835 array ( 81, 17 ) = 2.90278e22
4836 array ( 81, 18 ) = 3.23816e22
4837 array ( 81, 19 ) = 3.58337e22
4838 array ( 81, 20 ) = 3.9503e22
4839 array ( 81, 21 ) = 4.3351e22
4840 array ( 81, 22 ) = 4.72961e22
4841 array ( 81, 23 ) = 5.15189e22
4842 array ( 81, 24 ) = 5.58383e22
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4844 array ( 81, 26 ) = 6.5019e22
4845 array ( 81, 27 ) = 6.98014e22
4846 array ( 81, 28 ) = 7.4798e22
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4848 array ( 81, 30 ) = 8.51669e22
4849 array ( 81, 31 ) = 9.06434e22
4850 array ( 81, 32 ) = 9.61965e22
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4852 array ( 81, 34 ) = 1.07781e23
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4854 array ( 81, 36 ) = 1.19437e23
4855 array ( 81, 37 ) = 1.25446e23
4856 array ( 81, 38 ) = 1.31544e23
4857 array ( 81, 39 ) = 1.37812e23
4858 array ( 81, 40 ) = 1.44123e23
4859 array ( 81, 41 ) = 1.50567e23
4860 array ( 81, 42 ) = 1.571e23
4861 array ( 81, 43 ) = 1.63667e23
4862 array ( 81, 44 ) = 1.7045e23
4863 array ( 81, 45 ) = 1.7727e23
4864 array ( 81, 46 ) = 1.84167e23
4865 array ( 81, 47 ) = 1.91178e23
4866 array ( 81, 48 ) = 1.98217e23
4867 array ( 81, 49 ) = 2.05368e23
4868 array ( 81, 50 ) = 2.1259e23
4869 array ( 81, 51 ) = 2.19855e23
4870
4871 call HeB_emmissivity % put ( array_scaled = array )
4872
4873 scaled_characteristics % array_max = 4.06485e23
4874 scaled_characteristics % array_min = 4.91073e17
4875 scaled_characteristics % array_mean = 9.87243985681269e22
4876 scaled_characteristics % array_sd = 1.0533155588307317e23
4877
4878 call HeB_emmissivity % put ( array_scaled_characteristics = scaled_characteristics )
4879
4880 ! HELIOS output normalized
4881 array ( 1, 1 ) = 0.
4882 array ( 1, 2 ) = 1.3740425224920567e-6
4883 array ( 1, 3 ) = 2.8106532350170757e-6
4884 array ( 1, 4 ) = 4.318877992753416e-6
4885 array ( 1, 5 ) = 5.955594731987089e-6
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4891 array ( 1, 11 ) = 0.000016679201423682252
4892 array ( 1, 12 ) = 0.00001844421333494514
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4898 array ( 1, 18 ) = 0.000028983704769216213
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4901 array ( 1, 21 ) = 0.00003389557706976326
4902 array ( 1, 22 ) = 0.00003552491345394252
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4904 array ( 1, 24 ) = 0.00003877497580807089
4905 array ( 1, 25 ) = 0.00004039496374251456
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4911 array ( 1, 31 ) = 0.00005006987118334465
4912 array ( 1, 32 ) = 0.000051678542573371555
4913 array ( 1, 33 ) = 0.0000532837697977064
4914 array ( 1, 34 ) = 0.0000548887510102061
4915 array ( 1, 35 ) = 0.00005646027461312578
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4925 array ( 1, 45 ) = 0.00007216788427543313
4926 array ( 1, 46 ) = 0.0000737278453221009
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8810 array ( 78, 3 ) = 0.004107435561092545
8811 array ( 78, 4 ) = 0.006269781187301517
8812 array ( 78, 5 ) = 0.00904400744988836
8813 array ( 78, 6 ) = 0.012133276468564583
8814 array ( 78, 7 ) = 0.01592394983042871
8815 array ( 78, 8 ) = 0.02017609219266177
8816 array ( 78, 9 ) = 0.024727409547617228
8817 array ( 78, 10 ) = 0.03006168416911185
8818 array ( 78, 11 ) = 0.0357074097739027
8819 array ( 78, 12 ) = 0.04193470735698131
8820 array ( 78, 13 ) = 0.04874997322606148
8821 array ( 78, 14 ) = 0.0558297018179248
8822 array ( 78, 15 ) = 0.06367723334728222
8823 array ( 78, 16 ) = 0.0719178917892047
8824 array ( 78, 17 ) = 0.08054355875313242
8825 array ( 78, 18 ) = 0.0897603921569186
8826 array ( 78, 19 ) = 0.09923578399944438
8827 array ( 78, 20 ) = 0.10929693002145542
8828 array ( 78, 21 ) = 0.1198267285894217
8829 array ( 78, 22 ) = 0.13060893530024892
8830 array ( 78, 23 ) = 0.14215377870003215
8831 array ( 78, 24 ) = 0.15394143578110556
8832 array ( 78, 25 ) = 0.16614583691091817
8833 array ( 78, 26 ) = 0.17889663032659248
8834 array ( 78, 27 ) = 0.1918648982045368
8835 array ( 78, 28 ) = 0.2054036675281873
8836 array ( 78, 29 ) = 0.2192799650896596
8837 array ( 78, 30 ) = 0.2334103928768389
8838 array ( 78, 31 ) = 0.24817553119869767
8839 array ( 78, 32 ) = 0.26313059065729005
8840 array ( 78, 33 ) = 0.27848664940717216
8841 array ( 78, 34 ) = 0.2942461675666955
8842 array ( 78, 35 ) = 0.3095874656064688
8843 array ( 78, 36 ) = 0.3254527688551055
8844 array ( 78, 37 ) = 0.34149520062504807
8845 array ( 78, 38 ) = 0.3577418222181627
8846 array ( 78, 39 ) = 0.37440174369432444
8847 array ( 78, 40 ) = 0.3911502294311392
8848 array ( 78, 41 ) = 0.40819146925177896
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8849 array ( 78, 42 ) = 0.4255402238663526
8850 array ( 78, 43 ) = 0.4430119843984998
8851 array ( 78, 44 ) = 0.46089212457699125
8852 array ( 78, 45 ) = 0.47885836889778416
8853 array ( 78, 46 ) = 0.49701896256834327
8854 array ( 78, 47 ) = 0.5154895311511877
8855 array ( 78, 48 ) = 0.5340265229295218
8856 array ( 78, 49 ) = 0.5528365878448693
8857 array ( 78, 50 ) = 0.5718237812815227
8858 array ( 78, 51 ) = 0.5909192199256408
8859 array ( 79, 1 ) = 0.0009632690014032456
8860 array ( 79, 2 ) = 0.002312720180853998
8861 array ( 79, 3 ) = 0.003941795792488001
8862 array ( 79, 4 ) = 0.00601606918171431
8863 array ( 79, 5 ) = 0.008677449815519179
8864 array ( 79, 6 ) = 0.011640686971049542
8865 array ( 79, 7 ) = 0.0152767172933402
8866 array ( 79, 8 ) = 0.019356577567419746
8867 array ( 79, 9 ) = 0.02372530493832902
8868 array ( 79, 10 ) = 0.02884859981000149
8869 array ( 79, 11 ) = 0.03427143869214906
8870 array ( 79, 12 ) = 0.040253954499256304
8871 array ( 79, 13 ) = 0.04680770978757511
8872 array ( 79, 14 ) = 0.053617809408117195
8873 array ( 79, 15 ) = 0.06116815864061692
8874 array ( 79, 16 ) = 0.0690995802057595
8875 array ( 79, 17 ) = 0.07740493976032568
8876 array ( 79, 18 ) = 0.08629039522216873
8877 array ( 79, 19 ) = 0.09542899686237812
8878 array ( 79, 20 ) = 0.10513785393645853
8879 array ( 79, 21 ) = 0.11530503105941796
8880 array ( 79, 22 ) = 0.12571945007670027
8881 array ( 79, 23 ) = 0.13687239662309414
8882 array ( 79, 24 ) = 0.1482669267916025
8883 array ( 79, 25 ) = 0.16007377279581736
8884 array ( 79, 26 ) = 0.172420368766345
8885 array ( 79, 27 ) = 0.1849814870571209
8886 array ( 79, 28 ) = 0.19809785405982383
8887 array ( 79, 29 ) = 0.21155002721750252
8888 array ( 79, 30 ) = 0.22525534655354756
8889 array ( 79, 31 ) = 0.23958430589169058
8890 array ( 79, 32 ) = 0.2541044164257429
8891 array ( 79, 33 ) = 0.2690225741090631
8892 array ( 79, 34 ) = 0.28433681084697027
8893 array ( 79, 35 ) = 0.299257428648642
8894 array ( 79, 36 ) = 0.31469959154082566
8895 array ( 79, 37 ) = 0.33032134307266664
8896 array ( 79, 38 ) = 0.3461472844276797
8897 array ( 79, 39 ) = 0.36239144590244293
8898 array ( 79, 40 ) = 0.3787241716378591
8899 array ( 79, 41 ) = 0.39533981098369436
8900 array ( 79, 42 ) = 0.41227280559686946
8901 array ( 79, 43 ) = 0.4293361864826724
8902 array ( 79, 44 ) = 0.446815327369874
8903 array ( 79, 45 ) = 0.46438057239937713
8904 array ( 79, 46 ) = 0.48213524654194356
8905 array ( 79, 47 ) = 0.5001974354784438
8906 array ( 79, 48 ) = 0.5183260476104338
8907 array ( 79, 49 ) = 0.5367252727610856
8908 array ( 79, 50 ) = 0.5553040865513947
8909 array ( 79, 51 ) = 0.5739886854308172
8910 array ( 80, 1 ) = 0.0009257620370167186
8911 array ( 80, 2 ) = 0.0022212234591260874
8912 array ( 80, 3 ) = 0.0037849140452146943
8913 array ( 80, 4 ) = 0.00577576482114262
8914 array ( 80, 5 ) = 0.00833049932441122
8915 array ( 80, 6 ) = 0.01117464215054687
8916 array ( 80, 7 ) = 0.014663655800153618
8917 array ( 80, 8 ) = 0.018579745995575738
8918 array ( 80, 9 ) = 0.02277491201678873
8919 array ( 80, 10 ) = 0.0276975104333482
8920 array ( 80, 11 ) = 0.03290853312543412
8921 array ( 80, 12 ) = 0.03865733768915161
8922 array ( 80, 13 ) = 0.044960406917455516
8923 array ( 80, 14 ) = 0.051512686134763445
8924 array ( 80, 15 ) = 0.05877987574500885
8925 array ( 80, 16 ) = 0.06641362298962343
8926 array ( 80, 17 ) = 0.0744077757272854
8927 array ( 80, 18 ) = 0.0829758776723181
```

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8928 array ( 80, 19 ) = 0.09179146586789308
8929 array ( 80, 20 ) = 0.10115935053845958
8930 array ( 80, 21 ) = 0.11097620680816957
8931 array ( 80, 22 ) = 0.12103612277100485
8932 array ( 80, 23 ) = 0.13180676692558016
8933 array ( 80, 24 ) = 0.14281727261942387
8934 array ( 80, 25 ) = 0.15423541992410633
8935 array ( 80, 26 ) = 0.16618667487555258
8936 array ( 80, 27 ) = 0.1783499920288956
8937 array ( 80, 28 ) = 0.19105428920772713
8938 array ( 80, 29 ) = 0.2040941465296993
8939 array ( 80, 30 ) = 0.21738739604187296
8940 array ( 80, 31 ) = 0.23128829478686
8941 array ( 80, 32 ) = 0.24537837663307513
8942 array ( 80, 33 ) = 0.259866013604888
8943 array ( 80, 34 ) = 0.27474480939458473
8944 array ( 80, 35 ) = 0.2892496671948579
8945 array ( 80, 36 ) = 0.30426376949388556
8946 array ( 80, 37 ) = 0.31946484078762505
8947 array ( 80, 38 ) = 0.33487994237794244
8948 array ( 80, 39 ) = 0.3507108039696585
8949 array ( 80, 40 ) = 0.3666400702954334
8950 array ( 80, 41 ) = 0.3828743912967907
8951 array ( 80, 42 ) = 0.39937686519845833
8952 array ( 80, 43 ) = 0.4159875843075906
8953 array ( 80, 44 ) = 0.43307064614020546
8954 array ( 80, 45 ) = 0.4502422722334732
8955 array ( 80, 46 ) = 0.4676033274398042
8956 array ( 80, 47 ) = 0.4852595968483117
8957 array ( 80, 48 ) = 0.5029798293339575
8958 array ( 80, 49 ) = 0.520975595074968
8959 array ( 80, 50 ) = 0.5391484893372845
8960 array ( 80, 51 ) = 0.5574296288070657
8961 array ( 81, 1 ) = 0.008882575327485427
8962 array ( 81, 2 ) = 0.0021297242772798258
8963 array ( 81, 3 ) = 0.003628032297941387
8964 array ( 81, 4 ) = 0.00553546046057093
8965 array ( 81, 5 ) = 0.007983548833303261
8966 array ( 81, 6 ) = 0.0107085973300442
8967 array ( 81, 7 ) = 0.014050569705783526
8968 array ( 81, 8 ) = 0.01780293902491525
8969 array ( 81, 9 ) = 0.021824543696431963
8970 array ( 81, 10 ) = 0.026546421056694903
8971 array ( 81, 11 ) = 0.031545627558719175
8972 array ( 81, 12 ) = 0.03706096689088206
8973 array ( 81, 13 ) = 0.043113104047335926
8974 array ( 81, 14 ) = 0.04940756286140969
8975 array ( 81, 15 ) = 0.05639159284940078
8976 array ( 81, 16 ) = 0.06372791178532251
8977 array ( 81, 17 ) = 0.07141061538513138
8978 array ( 81, 18 ) = 0.0796613603122949
8979 array ( 81, 19 ) = 0.08815393487340802
8980 array ( 81, 20 ) = 0.09718084714046064
8981 array ( 81, 21 ) = 0.10664738255692115
8982 array ( 81, 22 ) = 0.11635279546530948
8983 array ( 81, 23 ) = 0.1267413832399013
8984 array ( 81, 24 ) = 0.13736761844724527
8985 array ( 81, 25 ) = 0.1483970670523953
8986 array ( 81, 26 ) = 0.15995322699659528
8987 array ( 81, 27 ) = 0.1717184970006703
8988 array ( 81, 28 ) = 0.18401072435563043
8989 array ( 81, 29 ) = 0.1966382658418961
8990 array ( 81, 30 ) = 0.20951944553019836
8991 array ( 81, 31 ) = 0.22299228368202942
8992 array ( 81, 32 ) = 0.23665356689958314
8993 array ( 81, 33 ) = 0.25070945310071285
8994 array ( 81, 34 ) = 0.2651528079421992
8995 array ( 81, 35 ) = 0.27924190574107377
8996 array ( 81, 36 ) = 0.29382794744694546
8997 array ( 81, 37 ) = 0.3086107986209348
8998 array ( 81, 38 ) = 0.32361260032820516
8999 array ( 81, 39 ) = 0.33903262215522556
9000 array ( 81, 40 ) = 0.35455842907135915
9001 array ( 81, 41 ) = 0.3704114317282384
9002 array ( 81, 42 ) = 0.3864833849183987
9003 array ( 81, 43 ) = 0.40263898213250887
9004 array ( 81, 44 ) = 0.4193259649105368
9005 array ( 81, 45 ) = 0.4361039720675692
9006 array ( 81, 46 ) = 0.4530714083376649
```

```
9007 array ( 81, 47 ) = 0.4703192980998282
9008 array ( 81, 48 ) = 0.48763607117583274
9009 array ( 81, 49 ) = 0.5052283775072021
9010 array ( 81, 50 ) = 0.5229953522415257
9011 array ( 81, 51 ) = 0.5408681120649628
9012
9013 call HeB_emissivity % put ( array_normalized = array )
9014
9015 normalized_characteristics % array_max = 1.
9016 normalized_characteristics % array_min = 0.
9017 normalized_characteristics % array_mean = 0.24287249655769005
9018 normalized_characteristics % array_sd = 0.25912809361694383
9019
9020 call HeB_emissivity % put ( array_normalized_characteristics = normalized_characteristics )
9021
9022 ! scale factors for temperature
9023 pts_temp ( 1 ) = 260.
9024 pts_temp ( 2 ) = 275.5
9025 pts_temp ( 3 ) = 291.
9026 pts_temp ( 4 ) = 306.5
9027 pts_temp ( 5 ) = 322.
9028 pts_temp ( 6 ) = 337.5
9029 pts_temp ( 7 ) = 353.
9030 pts_temp ( 8 ) = 368.5
9031 pts_temp ( 9 ) = 384.
9032 pts_temp ( 10 ) = 399.5
9033 pts_temp ( 11 ) = 415.
9034 pts_temp ( 12 ) = 430.5
9035 pts_temp ( 13 ) = 446.
9036 pts_temp ( 14 ) = 461.5
9037 pts_temp ( 15 ) = 477.
9038 pts_temp ( 16 ) = 492.5
9039 pts_temp ( 17 ) = 508.
9040 pts_temp ( 18 ) = 523.5
9041 pts_temp ( 19 ) = 539.
9042 pts_temp ( 20 ) = 554.5
9043 pts_temp ( 21 ) = 570.
9044 pts_temp ( 22 ) = 585.5
9045 pts_temp ( 23 ) = 601.
9046 pts_temp ( 24 ) = 616.5
9047 pts_temp ( 25 ) = 632.
9048 pts_temp ( 26 ) = 647.5
9049 pts_temp ( 27 ) = 663.
9050 pts_temp ( 28 ) = 678.5
9051 pts_temp ( 29 ) = 694.
9052 pts_temp ( 30 ) = 709.5
9053 pts_temp ( 31 ) = 725.
9054 pts_temp ( 32 ) = 740.5
9055 pts_temp ( 33 ) = 756.
9056 pts_temp ( 34 ) = 771.5
9057 pts_temp ( 35 ) = 787.
9058 pts_temp ( 36 ) = 802.5
9059 pts_temp ( 37 ) = 818.
9060 pts_temp ( 38 ) = 833.5
9061 pts_temp ( 39 ) = 849.
9062 pts_temp ( 40 ) = 864.5
9063 pts_temp ( 41 ) = 880.
9064 pts_temp ( 42 ) = 895.5
9065 pts_temp ( 43 ) = 911.
9066 pts_temp ( 44 ) = 926.5
9067 pts_temp ( 45 ) = 942.
9068 pts_temp ( 46 ) = 957.5
9069 pts_temp ( 47 ) = 973.
9070 pts_temp ( 48 ) = 988.5
9071 pts_temp ( 49 ) = 1004.
9072 pts_temp ( 50 ) = 1019.5
9073 pts_temp ( 51 ) = 1035.
9074 pts_temp ( 52 ) = 1050.5
9075 pts_temp ( 53 ) = 1066.
9076 pts_temp ( 54 ) = 1081.5
9077 pts_temp ( 55 ) = 1097.
9078 pts_temp ( 56 ) = 1112.5
9079 pts_temp ( 57 ) = 1128.
9080 pts_temp ( 58 ) = 1143.5
9081 pts_temp ( 59 ) = 1159.
9082 pts_temp ( 60 ) = 1174.5
9083 pts_temp ( 61 ) = 1190.
9084 pts_temp ( 62 ) = 1205.5
9085 pts_temp ( 63 ) = 1221.
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9086 pts_temp ( 64 ) = 1236.5
9087 pts_temp ( 65 ) = 1252.
9088 pts_temp ( 66 ) = 1267.5
9089 pts_temp ( 67 ) = 1283.
9090 pts_temp ( 68 ) = 1298.5
9091 pts_temp ( 69 ) = 1314.
9092 pts_temp ( 70 ) = 1329.5
9093 pts_temp ( 71 ) = 1345.
9094 pts_temp ( 72 ) = 1360.5
9095 pts_temp ( 73 ) = 1376.
9096 pts_temp ( 74 ) = 1391.5
9097 pts_temp ( 75 ) = 1407.
9098 pts_temp ( 76 ) = 1422.5
9099 pts_temp ( 77 ) = 1438.
9100 pts_temp ( 78 ) = 1453.5
9101 pts_temp ( 79 ) = 1469.
9102 pts_temp ( 80 ) = 1484.5
9103 pts_temp ( 81 ) = 1500.
9104
9105 call LyB_emmissivity % put ( pts_temp = pts_temp )
9106
9107 lr_fit_density % intercept_value = 244.5000000000003
9108 lr_fit_density % intercept_error = 0.
9109 lr_fit_density % slope_value     = 15.5
9110 lr_fit_density % slope_error     = 0.
9111 lr_fit_density % error_rms       = 0.
9112
9113 call LyB_emmissivity % put ( pts_temp_lr = lr_fit_temp )
9114
9115 ! scale factors for density
9116 pts_density ( 1 ) = 1.e23
9117 pts_density ( 2 ) = 1.576e23
9118 pts_density ( 3 ) = 2.152e23
9119 pts_density ( 4 ) = 2.728e23
9120 pts_density ( 5 ) = 3.304e23
9121 pts_density ( 6 ) = 3.88e23
9122 pts_density ( 7 ) = 4.456e23
9123 pts_density ( 8 ) = 5.032e23
9124 pts_density ( 9 ) = 5.608e23
9125 pts_density ( 10 ) = 6.184e23
9126 pts_density ( 11 ) = 6.76e23
9127 pts_density ( 12 ) = 7.336e23
9128 pts_density ( 13 ) = 7.912e23
9129 pts_density ( 14 ) = 8.488e23
9130 pts_density ( 15 ) = 9.064e23
9131 pts_density ( 16 ) = 9.64e23
9132 pts_density ( 17 ) = 1.0216e24
9133 pts_density ( 18 ) = 1.0792e24
9134 pts_density ( 19 ) = 1.1368e24
9135 pts_density ( 20 ) = 1.1944e24
9136 pts_density ( 21 ) = 1.252e24
9137 pts_density ( 22 ) = 1.3096e24
9138 pts_density ( 23 ) = 1.3672e24
9139 pts_density ( 24 ) = 1.4248e24
9140 pts_density ( 25 ) = 1.4824e24
9141 pts_density ( 26 ) = 1.54e24
9142 pts_density ( 27 ) = 1.5976e24
9143 pts_density ( 28 ) = 1.6552e24
9144 pts_density ( 29 ) = 1.7128e24
9145 pts_density ( 30 ) = 1.7704e24
9146 pts_density ( 31 ) = 1.828e24
9147 pts_density ( 32 ) = 1.8856e24
9148 pts_density ( 33 ) = 1.9432e24
9149 pts_density ( 34 ) = 2.0008e24
9150 pts_density ( 35 ) = 2.0584e24
9151 pts_density ( 36 ) = 2.116e24
9152 pts_density ( 37 ) = 2.1736e24
9153 pts_density ( 38 ) = 2.2312e24
9154 pts_density ( 39 ) = 2.2888e24
9155 pts_density ( 40 ) = 2.3464e24
9156 pts_density ( 41 ) = 2.404e24
9157 pts_density ( 42 ) = 2.4616e24
9158 pts_density ( 43 ) = 2.5192e24
9159 pts_density ( 44 ) = 2.5768e24
9160 pts_density ( 45 ) = 2.6344e24
9161 pts_density ( 46 ) = 2.692e24
9162 pts_density ( 47 ) = 2.7496e24
9163 pts_density ( 48 ) = 2.8072e24
9164 pts_density ( 49 ) = 2.8648e24
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9165 pts_density ( 50 ) = 2.9224e24
9166 pts_density ( 51 ) = 2.98e24
9167
9168 call LyB_emissivity % put ( pts_density = pts_density )
9169
9170 lr_fit_density % intercept_value = 4.2399999999999925e22
9171 lr_fit_density % intercept_error = 1.6282460071720295e7
9172 lr_fit_density % slope_value = 5.76e22
9173 lr_fit_density % slope_error = 18240.24653292042
9174 lr_fit_density % error_rms = 1.9756314628630587e8
9175
9176 call LyB_emissivity % put ( pts_density_lr = lr_fit_density )
9177
9178 ! fit amplitudes describing surface for LyB_emissivity
9179 amplitudes ( 1 ) = 0.0021921701482280898
9180 amplitudes ( 2 ) = -0.0004623632160475309
9181 amplitudes ( 3 ) = -0.0023560926172369358
9182 amplitudes ( 4 ) = 0.00015059872723458337
9183 amplitudes ( 5 ) = 0.000032150826714164894
9184 amplitudes ( 6 ) = 0.0009675606755047556
9185 amplitudes ( 7 ) = -0.00002334707802707271
9186 amplitudes ( 8 ) = -1.1691501776692117e-6
9187 amplitudes ( 9 ) = -8.919278198843113e-6
9188 amplitudes ( 10 ) = -0.0001877004846652377
9189 amplitudes ( 11 ) = 1.900030808632479e-6
9190 amplitudes ( 12 ) = 4.669173743625287e-7
9191 amplitudes ( 13 ) = -3.062519007220629e-7
9192 amplitudes ( 14 ) = 1.2075467335377396e-6
9193 amplitudes ( 15 ) = 0.000020325132609573095
9194 amplitudes ( 16 ) = -8.98076365203725e-8
9195 amplitudes ( 17 ) = -4.4613225913988334e-8
9196 amplitudes ( 18 ) = 2.1909506625587748e-8
9197 amplitudes ( 19 ) = 1.1721679018486075e-8
9198 amplitudes ( 20 ) = -8.009549597304535e-8
9199 amplitudes ( 21 ) = -1.33412817422127e-6
9200 amplitudes ( 22 ) = 2.603017454137819e-9
9201 amplitudes ( 23 ) = 1.80975099729384e-9
9202 amplitudes ( 24 ) = -2.087263628196518e-10
9203 amplitudes ( 25 ) = -1.0032486581953281e-9
9204 amplitudes ( 26 ) = -6.31629623165388e-10
9205 amplitudes ( 27 ) = 3.222263062980872e-9
9206 amplitudes ( 28 ) = 5.509499113308253e-8
9207 amplitudes ( 29 ) = -4.699179571197963e-11
9208 amplitudes ( 30 ) = -3.584220009297348e-11
9209 amplitudes ( 31 ) = -4.148521395250884e-13
9210 amplitudes ( 32 ) = 1.0350610441643411e-11
9211 amplitudes ( 33 ) = 1.8327666470990294e-11
9212 amplitudes ( 34 ) = 4.255977373240179e-11
9213 amplitudes ( 35 ) = -8.701249392160974e-11
9214 amplitudes ( 36 ) = -1.4382288857102105e-9
9215 amplitudes ( 37 ) = 5.154743361041708e-13
9216 amplitudes ( 38 ) = 3.4410006637352137e-13
9217 amplitudes ( 39 ) = 5.99678017466744e-14
9218 amplitudes ( 40 ) = 9.225170800569056e-14
9219 amplitudes ( 41 ) = -5.585964907067584e-13
9220 amplitudes ( 42 ) = 2.271441961429616e-13
9221 amplitudes ( 43 ) = -1.5273142196473045e-12
9222 amplitudes ( 44 ) = 1.5681047057470785e-12
9223 amplitudes ( 45 ) = 2.3012386850518616e-11
9224 amplitudes ( 46 ) = -3.144176383780476e-15
9225 amplitudes ( 47 ) = -1.2994594757773358e-15
9226 amplitudes ( 48 ) = -1.6487815860639987e-15
9227 amplitudes ( 49 ) = 6.849432405760734e-16
9228 amplitudes ( 50 ) = -3.544772306209628e-16
9229 amplitudes ( 51 ) = 6.4907219337607275e-15
9230 amplitudes ( 52 ) = -6.646557246172247e-15
9231 amplitudes ( 53 ) = 2.3346077500914548e-14
9232 amplitudes ( 54 ) = -1.647887690788941e-14
9233 amplitudes ( 55 ) = -2.0590084836887864e-13
9234 amplitudes ( 56 ) = 8.175636685722749e-18
9235 amplitudes ( 57 ) = 2.0538370466091003e-19
9236 amplitudes ( 58 ) = 1.167468955309094e-17
9237 amplitudes ( 59 ) = -1.7010086456561836e-17
9238 amplitudes ( 60 ) = 3.081309297024668e-17
9239 amplitudes ( 61 ) = -4.7430518588942676e-17
9240 amplitudes ( 62 ) = 1.6206866860658108e-17
9241 amplitudes ( 63 ) = 1.6459247655025577e-17
9242 amplitudes ( 64 ) = -1.225660514812491e-16
9243 amplitudes ( 65 ) = 7.334148942153032e-17
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9244 amplitudes ( 66 ) = 7.887505723322767e-16
9245
9246 call LyB_emmissivity % put ( amplitudes = amplitudes )
9247
9248 ! errors in fit amplitudes describing surface for LyB_emmissivity
9249 errors ( 1 ) = 8.564839351912748e-8
9250 errors ( 2 ) = 3.137495861750869e-8
9251 errors ( 3 ) = 5.575985174596979e-8
9252 errors ( 4 ) = 5.827575573067729e-9
9253 errors ( 5 ) = 7.504586030733616e-9
9254 errors ( 6 ) = 1.6532329008256e-8
9255 errors ( 7 ) = 5.880966860576817e-10
9256 errors ( 8 ) = 6.945817820322091e-10
9257 errors ( 9 ) = 1.142107055818237e-9
9258 errors ( 10 ) = 2.625854822525149e-9
9259 errors ( 11 ) = 3.549170082387156e-11
9260 errors ( 12 ) = 4.032681558393134e-11
9261 errors ( 13 ) = 6.11114801001291e-11
9262 errors ( 14 ) = 1.0657576479193755e-10
9263 errors ( 15 ) = 2.489119299352021e-10
9264 errors ( 16 ) = 1.3533832687208216e-12
9265 errors ( 17 ) = 1.510772839968874e-12
9266 errors ( 18 ) = 2.1994704932823624e-12
9267 errors ( 19 ) = 3.5499267482882218e-12
9268 errors ( 20 ) = 6.363292978294756e-12
9269 errors ( 21 ) = 1.491472103011702e-11
9270 errors ( 22 ) = 3.3409640472356185e-14
9271 errors ( 23 ) = 3.7251667200480816e-14
9272 errors ( 24 ) = 5.284410466961246e-14
9273 errors ( 25 ) = 8.213725495835506e-14
9274 errors ( 26 ) = 1.365166985698034e-13
9275 errors ( 27 ) = 2.4914793088039736e-13
9276 errors ( 28 ) = 5.790685999466816e-13
9277 errors ( 29 ) = 5.324133370108717e-16
9278 errors ( 30 ) = 6.038195769314873e-16
9279 errors ( 31 ) = 8.414072814358968e-16
9280 errors ( 32 ) = 1.275998499653121e-15
9281 errors ( 33 ) = 2.044698673068984e-15
9282 errors ( 34 ) = 3.4648821986248462e-15
9283 errors ( 35 ) = 6.400485079041623e-15
9284 errors ( 36 ) = 1.452649870897439e-14
9285 errors ( 37 ) = 5.2837417625491645e-18
9286 errors ( 38 ) = 6.22693029655854e-18
9287 errors ( 39 ) = 8.634927325221227e-18
9288 errors ( 40 ) = 1.2842165976686614e-17
9289 errors ( 41 ) = 2.0089984062205706e-17
9290 errors ( 42 ) = 3.2849475784248524e-17
9291 errors ( 43 ) = 5.654517028764455e-17
9292 errors ( 44 ) = 1.0446714250250485e-16
9293 errors ( 45 ) = 2.2711627362400813e-16
9294 errors ( 46 ) = 2.9678753775567824e-20
9295 errors ( 47 ) = 3.722115382430654e-20
9296 errors ( 48 ) = 5.2868547943015363e-20
9297 errors ( 49 ) = 7.814691736743719e-20
9298 errors ( 50 ) = 1.1987773974411546e-19
9299 errors ( 51 ) = 1.914484303744408e-19
9300 errors ( 52 ) = 3.1831059488123174e-19
9301 errors ( 53 ) = 5.493156094088594e-19
9302 errors ( 54 ) = 9.870529332931969e-19
9303 errors ( 55 ) = 2.0110909129109734e-18
9304 errors ( 56 ) = 7.20307441781941e-23
9305 errors ( 57 ) = 9.845896762068416e-23
9306 errors ( 58 ) = 1.5082165009930034e-22
9307 errors ( 59 ) = 2.3590399029037116e-22
9308 errors ( 60 ) = 3.7243734922247256e-22
9309 errors ( 61 ) = 5.9183600201462205e-22
9310 errors ( 62 ) = 9.461998887468186e-22
9311 errors ( 63 ) = 1.5233733906538634e-21
9312 errors ( 64 ) = 2.4779949208708115e-21
9313 errors ( 65 ) = 4.121884813187821e-21
9314 errors ( 66 ) = 7.698688458801292e-21
9315
9316 call LyB_emmissivity % put ( errors = errors )
9317
9318 ! quality measures for surface fit
9319 sf_quality % error_norm_L1 = 0.047571173423273785
9320 sf_quality % error_norm_L2 = 0.011561263576205212
9321 sf_quality % error_norm_Linf = 0.01776271401382923
9322 sf_quality % error_maximum = 0.001794595764476048
```

```
9323 sf_quality % error_rms      = 0.00025202470191767773
9324 sf_quality % condition_number = 3.053286452268271e20
9325
9326 call LyB_emmissivity % put ( sf_quality = sf_quality )
9327
9328 ! HELIOS output scaled
9329 array ( 1, 1 ) = 1.78307e16
9330 array ( 1, 2 ) = 3.59521e16
9331 array ( 1, 3 ) = 5.50183e16
9332 array ( 1, 4 ) = 7.73221e16
9333 array ( 1, 5 ) = 9.63898e16
9334 array ( 1, 6 ) = 1.11674e17
9335 array ( 1, 7 ) = 1.24972e17
9336 array ( 1, 8 ) = 1.37438e17
9337 array ( 1, 9 ) = 1.57137e17
9338 array ( 1, 10 ) = 1.77013e17
9339 array ( 1, 11 ) = 1.97659e17
9340 array ( 1, 12 ) = 2.18778e17
9341 array ( 1, 13 ) = 2.40429e17
9342 array ( 1, 14 ) = 2.65813e17
9343 array ( 1, 15 ) = 2.92585e17
9344 array ( 1, 16 ) = 3.20421e17
9345 array ( 1, 17 ) = 3.50696e17
9346 array ( 1, 18 ) = 3.84554e17
9347 array ( 1, 19 ) = 4.19765e17
9348 array ( 1, 20 ) = 4.5624e17
9349 array ( 1, 21 ) = 4.93949e17
9350 array ( 1, 22 ) = 5.32868e17
9351 array ( 1, 23 ) = 5.73006e17
9352 array ( 1, 24 ) = 6.14314e17
9353 array ( 1, 25 ) = 6.56759e17
9354 array ( 1, 26 ) = 7.00275e17
9355 array ( 1, 27 ) = 7.44851e17
9356 array ( 1, 28 ) = 7.90541e17
9357 array ( 1, 29 ) = 8.37245e17
9358 array ( 1, 30 ) = 8.84926e17
9359 array ( 1, 31 ) = 9.33717e17
9360 array ( 1, 32 ) = 9.83387e17
9361 array ( 1, 33 ) = 1.03386e18
9362 array ( 1, 34 ) = 1.08541e18
9363 array ( 1, 35 ) = 1.1395e18
9364 array ( 1, 36 ) = 1.19454e18
9365 array ( 1, 37 ) = 1.25052e18
9366 array ( 1, 38 ) = 1.30742e18
9367 array ( 1, 39 ) = 1.36561e18
9368 array ( 1, 40 ) = 1.42463e18
9369 array ( 1, 41 ) = 1.48424e18
9370 array ( 1, 42 ) = 1.54512e18
9371 array ( 1, 43 ) = 1.60706e18
9372 array ( 1, 44 ) = 1.66971e18
9373 array ( 1, 45 ) = 1.73306e18
9374 array ( 1, 46 ) = 1.79706e18
9375 array ( 1, 47 ) = 1.86233e18
9376 array ( 1, 48 ) = 1.92852e18
9377 array ( 1, 49 ) = 1.99567e18
9378 array ( 1, 50 ) = 2.0632e18
9379 array ( 1, 51 ) = 2.13114e18
9380 array ( 2, 1 ) = 6.76933e16
9381 array ( 2, 2 ) = 1.42997e17
9382 array ( 2, 3 ) = 2.22227e17
9383 array ( 2, 4 ) = 3.11785e17
9384 array ( 2, 5 ) = 3.9206e17
9385 array ( 2, 6 ) = 4.62572e17
9386 array ( 2, 7 ) = 5.25888e17
9387 array ( 2, 8 ) = 5.86076e17
9388 array ( 2, 9 ) = 6.6395e17
9389 array ( 2, 10 ) = 7.40832e17
9390 array ( 2, 11 ) = 8.19703e17
9391 array ( 2, 12 ) = 8.99212e17
9392 array ( 2, 13 ) = 9.79759e17
9393 array ( 2, 14 ) = 1.07119e18
9394 array ( 2, 15 ) = 1.16624e18
9395 array ( 2, 16 ) = 1.2645e18
9396 array ( 2, 17 ) = 1.36974e18
9397 array ( 2, 18 ) = 1.48476e18
9398 array ( 2, 19 ) = 1.60402e18
9399 array ( 2, 20 ) = 1.72716e18
9400 array ( 2, 21 ) = 1.85428e18
9401 array ( 2, 22 ) = 1.98534e18
```

```
9402 array ( 2, 23 ) = 2.12012e18
9403 array ( 2, 24 ) = 2.25856e18
9404 array ( 2, 25 ) = 2.40045e18
9405 array ( 2, 26 ) = 2.54595e18
9406 array ( 2, 27 ) = 2.69491e18
9407 array ( 2, 28 ) = 2.84718e18
9408 array ( 2, 29 ) = 3.00281e18
9409 array ( 2, 30 ) = 3.16169e18
9410 array ( 2, 31 ) = 3.32398e18
9411 array ( 2, 32 ) = 3.48937e18
9412 array ( 2, 33 ) = 3.65785e18
9413 array ( 2, 34 ) = 3.82942e18
9414 array ( 2, 35 ) = 4.00648e18
9415 array ( 2, 36 ) = 4.18713e18
9416 array ( 2, 37 ) = 4.37083e18
9417 array ( 2, 38 ) = 4.55755e18
9418 array ( 2, 39 ) = 4.74737e18
9419 array ( 2, 40 ) = 4.9402e18
9420 array ( 2, 41 ) = 5.13624e18
9421 array ( 2, 42 ) = 5.33523e18
9422 array ( 2, 43 ) = 5.53699e18
9423 array ( 2, 44 ) = 5.74211e18
9424 array ( 2, 45 ) = 5.94989e18
9425 array ( 2, 46 ) = 6.16033e18
9426 array ( 2, 47 ) = 6.37363e18
9427 array ( 2, 48 ) = 6.58965e18
9428 array ( 2, 49 ) = 6.80901e18
9429 array ( 2, 50 ) = 7.03034e18
9430 array ( 2, 51 ) = 7.25369e18
9431 array ( 3, 1 ) = 1.17556e17
9432 array ( 3, 2 ) = 2.50042e17
9433 array ( 3, 3 ) = 3.89435e17
9434 array ( 3, 4 ) = 5.46249e17
9435 array ( 3, 5 ) = 6.87731e17
9436 array ( 3, 6 ) = 8.1347e17
9437 array ( 3, 7 ) = 9.26805e17
9438 array ( 3, 8 ) = 1.03471e18
9439 array ( 3, 9 ) = 1.17076e18
9440 array ( 3, 10 ) = 1.30465e18
9441 array ( 3, 11 ) = 1.44175e18
9442 array ( 3, 12 ) = 1.57965e18
9443 array ( 3, 13 ) = 1.71909e18
9444 array ( 3, 14 ) = 1.87656e18
9445 array ( 3, 15 ) = 2.03989e18
9446 array ( 3, 16 ) = 2.20858e18
9447 array ( 3, 17 ) = 2.38878e18
9448 array ( 3, 18 ) = 2.58497e18
9449 array ( 3, 19 ) = 2.78828e18
9450 array ( 3, 20 ) = 2.99809e18
9451 array ( 3, 21 ) = 3.21462e18
9452 array ( 3, 22 ) = 3.43782e18
9453 array ( 3, 23 ) = 3.66724e18
9454 array ( 3, 24 ) = 3.90281e18
9455 array ( 3, 25 ) = 4.14414e18
9456 array ( 3, 26 ) = 4.39162e18
9457 array ( 3, 27 ) = 4.64496e18
9458 array ( 3, 28 ) = 4.90383e18
9459 array ( 3, 29 ) = 5.16838e18
9460 array ( 3, 30 ) = 5.43845e18
9461 array ( 3, 31 ) = 5.71424e18
9462 array ( 3, 32 ) = 5.99534e18
9463 array ( 3, 33 ) = 6.28183e18
9464 array ( 3, 34 ) = 6.57344e18
9465 array ( 3, 35 ) = 6.87346e18
9466 array ( 3, 36 ) = 7.17971e18
9467 array ( 3, 37 ) = 7.49114e18
9468 array ( 3, 38 ) = 7.80767e18
9469 array ( 3, 39 ) = 8.12914e18
9470 array ( 3, 40 ) = 8.45576e18
9471 array ( 3, 41 ) = 8.78824e18
9472 array ( 3, 42 ) = 9.12533e18
9473 array ( 3, 43 ) = 9.46691e18
9474 array ( 3, 44 ) = 9.81451e18
9475 array ( 3, 45 ) = 1.01667e19
9476 array ( 3, 46 ) = 1.05236e19
9477 array ( 3, 47 ) = 1.08849e19
9478 array ( 3, 48 ) = 1.12508e19
9479 array ( 3, 49 ) = 1.16223e19
9480 array ( 3, 50 ) = 1.19975e19
```



```
9481 array ( 3, 51 ) = 1.23762e19
9482 array ( 4, 1 ) = 2.36905e17
9483 array ( 4, 2 ) = 5.17492e17
9484 array ( 4, 3 ) = 8.14737e17
9485 array ( 4, 4 ) = 1.14816e18
9486 array ( 4, 5 ) = 1.45549e18
9487 array ( 4, 6 ) = 1.73666e18
9488 array ( 4, 7 ) = 1.9936e18
9489 array ( 4, 8 ) = 2.23944e18
9490 array ( 4, 9 ) = 2.52962e18
9491 array ( 4, 10 ) = 2.81283e18
9492 array ( 4, 11 ) = 3.10108e18
9493 array ( 4, 12 ) = 3.38905e18
9494 array ( 4, 13 ) = 3.67826e18
9495 array ( 4, 14 ) = 3.99876e18
9496 array ( 4, 15 ) = 4.32792e18
9497 array ( 4, 16 ) = 4.66653e18
9498 array ( 4, 17 ) = 5.02498e18
9499 array ( 4, 18 ) = 5.41079e18
9500 array ( 4, 19 ) = 5.80962e18
9501 array ( 4, 20 ) = 6.2198e18
9502 array ( 4, 21 ) = 6.6424e18
9503 array ( 4, 22 ) = 7.07753e18
9504 array ( 4, 23 ) = 7.52267e18
9505 array ( 4, 24 ) = 7.97976e18
9506 array ( 4, 25 ) = 8.44823e18
9507 array ( 4, 26 ) = 8.92751e18
9508 array ( 4, 27 ) = 9.41768e18
9509 array ( 4, 28 ) = 9.91795e18
9510 array ( 4, 29 ) = 1.04293e19
9511 array ( 4, 30 ) = 1.09515e19
9512 array ( 4, 31 ) = 1.14834e19
9513 array ( 4, 32 ) = 1.20254e19
9514 array ( 4, 33 ) = 1.2578e19
9515 array ( 4, 34 ) = 1.31403e19
9516 array ( 4, 35 ) = 1.37139e19
9517 array ( 4, 36 ) = 1.42987e19
9518 array ( 4, 37 ) = 1.4893e19
9519 array ( 4, 38 ) = 1.54966e19
9520 array ( 4, 39 ) = 1.61107e19
9521 array ( 4, 40 ) = 1.67346e19
9522 array ( 4, 41 ) = 1.73694e19
9523 array ( 4, 42 ) = 1.80128e19
9524 array ( 4, 43 ) = 1.86649e19
9525 array ( 4, 44 ) = 1.93277e19
9526 array ( 4, 45 ) = 1.99994e19
9527 array ( 4, 46 ) = 2.06802e19
9528 array ( 4, 47 ) = 2.13701e19
9529 array ( 4, 48 ) = 2.20685e19
9530 array ( 4, 49 ) = 2.27766e19
9531 array ( 4, 50 ) = 2.34921e19
9532 array ( 4, 51 ) = 2.42148e19
9533 array ( 5, 1 ) = 4.52468e17
9534 array ( 5, 2 ) = 1.00704e18
9535 array ( 5, 3 ) = 1.5974e18
9536 array ( 5, 4 ) = 2.25883e18
9537 array ( 5, 5 ) = 2.87692e18
9538 array ( 5, 6 ) = 3.45226e18
9539 array ( 5, 7 ) = 3.98239e18
9540 array ( 5, 8 ) = 4.49105e18
9541 array ( 5, 9 ) = 5.06824e18
9542 array ( 5, 10 ) = 5.62858e18
9543 array ( 5, 11 ) = 6.19667e18
9544 array ( 5, 12 ) = 6.76163e18
9545 array ( 5, 13 ) = 7.32644e18
9546 array ( 5, 14 ) = 7.94425e18
9547 array ( 5, 15 ) = 8.57432e18
9548 array ( 5, 16 ) = 9.22061e18
9549 array ( 5, 17 ) = 9.90031e18
9550 array ( 5, 18 ) = 1.06259e19
9551 array ( 5, 19 ) = 1.13746e19
9552 array ( 5, 20 ) = 1.21426e19
9553 array ( 5, 21 ) = 1.29328e19
9554 array ( 5, 22 ) = 1.37457e19
9555 array ( 5, 23 ) = 1.45742e19
9556 array ( 5, 24 ) = 1.54251e19
9557 array ( 5, 25 ) = 1.62975e19
9558 array ( 5, 26 ) = 1.71883e19
9559 array ( 5, 27 ) = 1.80987e19
```

```
9560 array ( 5, 28 ) = 1.90271e19
9561 array ( 5, 29 ) = 1.99762e19
9562 array ( 5, 30 ) = 2.09456e19
9563 array ( 5, 31 ) = 2.19309e19
9564 array ( 5, 32 ) = 2.2935e19
9565 array ( 5, 33 ) = 2.39587e19
9566 array ( 5, 34 ) = 2.50002e19
9567 array ( 5, 35 ) = 2.60561e19
9568 array ( 5, 36 ) = 2.71311e19
9569 array ( 5, 37 ) = 2.8223e19
9570 array ( 5, 38 ) = 2.93315e19
9571 array ( 5, 39 ) = 3.04612e19
9572 array ( 5, 40 ) = 3.16089e19
9573 array ( 5, 41 ) = 3.27754e19
9574 array ( 5, 42 ) = 3.39583e19
9575 array ( 5, 43 ) = 3.5157e19
9576 array ( 5, 44 ) = 3.63743e19
9577 array ( 5, 45 ) = 3.76079e19
9578 array ( 5, 46 ) = 3.88583e19
9579 array ( 5, 47 ) = 4.01267e19
9580 array ( 5, 48 ) = 4.14107e19
9581 array ( 5, 49 ) = 4.27106e19
9582 array ( 5, 50 ) = 4.40246e19
9583 array ( 5, 51 ) = 4.53524e19
9584 array ( 6, 1 ) = 6.6803e17
9585 array ( 6, 2 ) = 1.49659e18
9586 array ( 6, 3 ) = 2.38006e18
9587 array ( 6, 4 ) = 3.36951e18
9588 array ( 6, 5 ) = 4.29834e18
9589 array ( 6, 6 ) = 5.16785e18
9590 array ( 6, 7 ) = 5.97118e18
9591 array ( 6, 8 ) = 6.74266e18
9592 array ( 6, 9 ) = 7.60686e18
9593 array ( 6, 10 ) = 8.44432e18
9594 array ( 6, 11 ) = 9.29225e18
9595 array ( 6, 12 ) = 1.01342e19
9596 array ( 6, 13 ) = 1.09746e19
9597 array ( 6, 14 ) = 1.18897e19
9598 array ( 6, 15 ) = 1.28207e19
9599 array ( 6, 16 ) = 1.37747e19
9600 array ( 6, 17 ) = 1.47756e19
9601 array ( 6, 18 ) = 1.5841e19
9602 array ( 6, 19 ) = 1.69396e19
9603 array ( 6, 20 ) = 1.80654e19
9604 array ( 6, 21 ) = 1.92232e19
9605 array ( 6, 22 ) = 2.04139e19
9606 array ( 6, 23 ) = 2.16258e19
9607 array ( 6, 24 ) = 2.28704e19
9608 array ( 6, 25 ) = 2.41467e19
9609 array ( 6, 26 ) = 2.54491e19
9610 array ( 6, 27 ) = 2.67797e19
9611 array ( 6, 28 ) = 2.81362e19
9612 array ( 6, 29 ) = 2.95231e19
9613 array ( 6, 30 ) = 3.09398e19
9614 array ( 6, 31 ) = 3.23785e19
9615 array ( 6, 32 ) = 3.38447e19
9616 array ( 6, 33 ) = 3.53395e19
9617 array ( 6, 34 ) = 3.68602e19
9618 array ( 6, 35 ) = 3.83984e19
9619 array ( 6, 36 ) = 3.99635e19
9620 array ( 6, 37 ) = 4.15531e19
9621 array ( 6, 38 ) = 4.31665e19
9622 array ( 6, 39 ) = 4.48117e19
9623 array ( 6, 40 ) = 4.64831e19
9624 array ( 6, 41 ) = 4.81814e19
9625 array ( 6, 42 ) = 4.99037e19
9626 array ( 6, 43 ) = 5.16492e19
9627 array ( 6, 44 ) = 5.34209e19
9628 array ( 6, 45 ) = 5.52165e19
9629 array ( 6, 46 ) = 5.70364e19
9630 array ( 6, 47 ) = 5.88833e19
9631 array ( 6, 48 ) = 6.07529e19
9632 array ( 6, 49 ) = 6.26447e19
9633 array ( 6, 50 ) = 6.45572e19
9634 array ( 6, 51 ) = 6.649e19
9635 array ( 7, 1 ) = 1.23443e18
9636 array ( 7, 2 ) = 2.84253e18
9637 array ( 7, 3 ) = 4.57681e18
9638 array ( 7, 4 ) = 6.53422e18
```

```
9639 array ( 7, 5 ) = 8.41185e18
9640 array ( 7, 6 ) = 1.02039e19
9641 array ( 7, 7 ) = 1.18825e19
9642 array ( 7, 8 ) = 1.35028e19
9643 array ( 7, 9 ) = 1.52479e19
9644 array ( 7, 10 ) = 1.69341e19
9645 array ( 7, 11 ) = 1.86326e19
9646 array ( 7, 12 ) = 2.03099e19
9647 array ( 7, 13 ) = 2.19736e19
9648 array ( 7, 14 ) = 2.37517e19
9649 array ( 7, 15 ) = 2.55474e19
9650 array ( 7, 16 ) = 2.73782e19
9651 array ( 7, 17 ) = 2.92788e19
9652 array ( 7, 18 ) = 3.12729e19
9653 array ( 7, 19 ) = 3.33222e19
9654 array ( 7, 20 ) = 3.54129e19
9655 array ( 7, 21 ) = 3.75548e19
9656 array ( 7, 22 ) = 3.97517e19
9657 array ( 7, 23 ) = 4.19839e19
9658 array ( 7, 24 ) = 4.42712e19
9659 array ( 7, 25 ) = 4.66102e19
9660 array ( 7, 26 ) = 4.89932e19
9661 array ( 7, 27 ) = 5.14257e19
9662 array ( 7, 28 ) = 5.39035e19
9663 array ( 7, 29 ) = 5.64309e19
9664 array ( 7, 30 ) = 5.90071e19
9665 array ( 7, 31 ) = 6.16261e19
9666 array ( 7, 32 ) = 6.4292e19
9667 array ( 7, 33 ) = 6.70041e19
9668 array ( 7, 34 ) = 6.97611e19
9669 array ( 7, 35 ) = 7.25253e19
9670 array ( 7, 36 ) = 7.53391e19
9671 array ( 7, 37 ) = 7.81985e19
9672 array ( 7, 38 ) = 8.11031e19
9673 array ( 7, 39 ) = 8.40497e19
9674 array ( 7, 40 ) = 8.70429e19
9675 array ( 7, 41 ) = 9.00911e19
9676 array ( 7, 42 ) = 9.31777e19
9677 array ( 7, 43 ) = 9.63031e19
9678 array ( 7, 44 ) = 9.94674e19
9679 array ( 7, 45 ) = 1.02681e20
9680 array ( 7, 46 ) = 1.05947e20
9681 array ( 7, 47 ) = 1.09251e20
9682 array ( 7, 48 ) = 1.12592e20
9683 array ( 7, 49 ) = 1.1597e20
9684 array ( 7, 50 ) = 1.19396e20
9685 array ( 7, 51 ) = 1.22866e20
9686 array ( 8, 1 ) = 1.86829e18
9687 array ( 8, 2 ) = 4.35315e18
9688 array ( 8, 3 ) = 7.0455e18
9689 array ( 8, 4 ) = 1.00939e19
9690 array ( 8, 5 ) = 1.30431e19
9691 array ( 8, 6 ) = 1.58785e19
9692 array ( 8, 7 ) = 1.85483e19
9693 array ( 8, 8 ) = 2.113e19
9694 array ( 8, 9 ) = 2.38702e19
9695 array ( 8, 10 ) = 2.6515e19
9696 array ( 8, 11 ) = 2.91739e19
9697 array ( 8, 12 ) = 3.17938e19
9698 array ( 8, 13 ) = 3.43862e19
9699 array ( 8, 14 ) = 3.7136e19
9700 array ( 8, 15 ) = 3.99049e19
9701 array ( 8, 16 ) = 4.27219e19
9702 array ( 8, 17 ) = 4.56334e19
9703 array ( 8, 18 ) = 4.86696e19
9704 array ( 8, 19 ) = 5.17851e19
9705 array ( 8, 20 ) = 5.49574e19
9706 array ( 8, 21 ) = 5.8202e19
9707 array ( 8, 22 ) = 6.1526e19
9708 array ( 8, 23 ) = 6.4901e19
9709 array ( 8, 24 ) = 6.83558e19
9710 array ( 8, 25 ) = 7.18841e19
9711 array ( 8, 26 ) = 7.54764e19
9712 array ( 8, 27 ) = 7.91419e19
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13042 array ( 73, 42 ) = 5.5594e23
13043 array ( 73, 43 ) = 5.71106e23
13044 array ( 73, 44 ) = 5.86236e23
13045 array ( 73, 45 ) = 6.01173e23
13046 array ( 73, 46 ) = 6.1589e23
13047 array ( 73, 47 ) = 6.30623e23
13048 array ( 73, 48 ) = 6.45256e23
13049 array ( 73, 49 ) = 6.59679e23
13050 array ( 73, 50 ) = 6.74062e23
13051 array ( 73, 51 ) = 6.88392e23
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13054 array ( 74, 3 ) = 7.51695e21
13055 array ( 74, 4 ) = 1.21519e22
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13057 array ( 74, 6 ) = 2.473e22
13058 array ( 74, 7 ) = 3.2698e22
13059 array ( 74, 8 ) = 4.14533e22
13060 array ( 74, 9 ) = 5.08127e22
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13062 array ( 74, 11 ) = 7.24778e22
13063 array ( 74, 12 ) = 8.43582e22
13064 array ( 74, 13 ) = 9.69896e22
13065 array ( 74, 14 ) = 1.09919e23
13066 array ( 74, 15 ) = 1.23724e23
13067 array ( 74, 16 ) = 1.37893e23
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13069 array ( 74, 18 ) = 1.67245e23
13070 array ( 74, 19 ) = 1.82299e23
13071 array ( 74, 20 ) = 1.97812e23
13072 array ( 74, 21 ) = 2.13626e23
13073 array ( 74, 22 ) = 2.29584e23
13074 array ( 74, 23 ) = 2.46023e23
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13077 array ( 74, 26 ) = 2.9627e23
13078 array ( 74, 27 ) = 3.13316e23
13079 array ( 74, 28 ) = 3.30599e23
13080 array ( 74, 29 ) = 3.47968e23
13081 array ( 74, 30 ) = 3.6539e23
13082 array ( 74, 31 ) = 3.83003e23
13083 array ( 74, 32 ) = 4.00636e23
13084 array ( 74, 33 ) = 4.18365e23
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13086 array ( 74, 35 ) = 4.52302e23
13087 array ( 74, 36 ) = 4.68435e23
13088 array ( 74, 37 ) = 4.84509e23
13089 array ( 74, 38 ) = 5.00537e23
13090 array ( 74, 39 ) = 5.16522e23
13091 array ( 74, 40 ) = 5.32378e23
13092 array ( 74, 41 ) = 5.48082e23
13093 array ( 74, 42 ) = 5.6373e23
13094 array ( 74, 43 ) = 5.79294e23
13095 array ( 74, 44 ) = 5.94845e23
13096 array ( 74, 45 ) = 6.10211e23
13097 array ( 74, 46 ) = 6.25368e23
13098 array ( 74, 47 ) = 6.40551e23
13099 array ( 74, 48 ) = 6.5564e23
13100 array ( 74, 49 ) = 6.70553e23
13101 array ( 74, 50 ) = 6.85385e23
13102 array ( 74, 51 ) = 7.00132e23
13103 array ( 75, 1 ) = 1.30424e21
13104 array ( 75, 2 ) = 4.02537e21
13105 array ( 75, 3 ) = 7.47471e21
13106 array ( 75, 4 ) = 1.20838e22
13107 array ( 75, 5 ) = 1.80361e22
13108 array ( 75, 6 ) = 2.46084e22
13109 array ( 75, 7 ) = 3.25531e22
13110 array ( 75, 8 ) = 4.12899e22
13111 array ( 75, 9 ) = 5.06359e22
13112 array ( 75, 10 ) = 6.12474e22
13113 array ( 75, 11 ) = 7.2313e22
13114 array ( 75, 12 ) = 8.42084e22
```

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13115 array ( 75, 13 ) = 9.68748e22
13116 array ( 75, 14 ) = 1.0985e23
13117 array ( 75, 15 ) = 1.23718e23
13118 array ( 75, 16 ) = 1.37962e23
13119 array ( 75, 17 ) = 1.52532e23
13120 array ( 75, 18 ) = 1.67522e23
13121 array ( 75, 19 ) = 1.82707e23
13122 array ( 75, 20 ) = 1.98371e23
13123 array ( 75, 21 ) = 2.14351e23
13124 array ( 75, 22 ) = 2.30484e23
13125 array ( 75, 23 ) = 2.47118e23
13126 array ( 75, 24 ) = 2.63859e23
13127 array ( 75, 25 ) = 2.80817e23
13128 array ( 75, 26 ) = 2.9805e23
13129 array ( 75, 27 ) = 3.15361e23
13130 array ( 75, 28 ) = 3.32921e23
13131 array ( 75, 29 ) = 3.50582e23
13132 array ( 75, 30 ) = 3.68308e23
13133 array ( 75, 31 ) = 3.86251e23
13134 array ( 75, 32 ) = 4.0423e23
13135 array ( 75, 33 ) = 4.22337e23
13136 array ( 75, 34 ) = 4.40424e23
13137 array ( 75, 35 ) = 4.56934e23
13138 array ( 75, 36 ) = 4.73475e23
13139 array ( 75, 37 ) = 4.89929e23
13140 array ( 75, 38 ) = 5.06308e23
13141 array ( 75, 39 ) = 5.22645e23
13142 array ( 75, 40 ) = 5.38885e23
13143 array ( 75, 41 ) = 5.55077e23
13144 array ( 75, 42 ) = 5.71145e23
13145 array ( 75, 43 ) = 5.8709e23
13146 array ( 75, 44 ) = 6.0305e23
13147 array ( 75, 45 ) = 6.18836e23
13148 array ( 75, 46 ) = 6.34428e23
13149 array ( 75, 47 ) = 6.50058e23
13150 array ( 75, 48 ) = 6.65605e23
13151 array ( 75, 49 ) = 6.81013e23
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13156 array ( 76, 3 ) = 7.43082e21
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13158 array ( 76, 5 ) = 1.79372e22
13159 array ( 76, 6 ) = 2.44814e22
13160 array ( 76, 7 ) = 3.24003e22
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13163 array ( 76, 10 ) = 6.10571e22
13164 array ( 76, 11 ) = 7.21264e22
13165 array ( 76, 12 ) = 8.40331e22
13166 array ( 76, 13 ) = 9.67296e22
13167 array ( 76, 14 ) = 1.09745e23
13168 array ( 76, 15 ) = 1.23671e23
13169 array ( 76, 16 ) = 1.37984e23
13170 array ( 76, 17 ) = 1.52638e23
13171 array ( 76, 18 ) = 1.67741e23
13172 array ( 76, 19 ) = 1.83049e23
13173 array ( 76, 20 ) = 1.98857e23
13174 array ( 76, 21 ) = 2.14994e23
13175 array ( 76, 22 ) = 2.31294e23
13176 array ( 76, 23 ) = 2.48117e23
13177 array ( 76, 24 ) = 2.65058e23
13178 array ( 76, 25 ) = 2.82233e23
13179 array ( 76, 26 ) = 2.99712e23
13180 array ( 76, 27 ) = 3.17278e23
13181 array ( 76, 28 ) = 3.35108e23
13182 array ( 76, 29 ) = 3.53054e23
13183 array ( 76, 30 ) = 3.71076e23
13184 array ( 76, 31 ) = 3.89342e23
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13186 array ( 76, 33 ) = 4.26116e23
13187 array ( 76, 34 ) = 4.44541e23
13188 array ( 76, 35 ) = 4.6137e23
13189 array ( 76, 36 ) = 4.78305e23
13190 array ( 76, 37 ) = 4.95132e23
13191 array ( 76, 38 ) = 5.1186e23
13192 array ( 76, 39 ) = 5.28556e23
13193 array ( 76, 40 ) = 5.45181e23
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13195 array ( 76, 42 ) = 5.78316e23
13196 array ( 76, 43 ) = 5.94644e23
13197 array ( 76, 44 ) = 6.11006e23
13198 array ( 76, 45 ) = 6.27208e23
13199 array ( 76, 46 ) = 6.43243e23
13200 array ( 76, 47 ) = 6.59308e23
13201 array ( 76, 48 ) = 6.75295e23
13202 array ( 76, 49 ) = 6.91179e23
13203 array ( 76, 50 ) = 7.06874e23
13204 array ( 76, 51 ) = 7.224e23
13205 array ( 77, 1 ) = 1.28993e21
13206 array ( 77, 2 ) = 3.97403e21
13207 array ( 77, 3 ) = 7.37835e21
13208 array ( 77, 4 ) = 1.19298e22
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13211 array ( 77, 7 ) = 3.2207e22
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13214 array ( 77, 10 ) = 6.07764e22
13215 array ( 77, 11 ) = 7.18263e22
13216 array ( 77, 12 ) = 8.37252e22
13217 array ( 77, 13 ) = 9.64268e22
13218 array ( 77, 14 ) = 1.09455e23
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13220 array ( 77, 16 ) = 1.37768e23
13221 array ( 77, 17 ) = 1.5248e23
13222 array ( 77, 18 ) = 1.67657e23
13223 array ( 77, 19 ) = 1.83048e23
13224 array ( 77, 20 ) = 1.98958e23
13225 array ( 77, 21 ) = 2.15212e23
13226 array ( 77, 22 ) = 2.31638e23
13227 array ( 77, 23 ) = 2.48613e23
13228 array ( 77, 24 ) = 2.65718e23
13229 array ( 77, 25 ) = 2.83078e23
13230 array ( 77, 26 ) = 3.00755e23
13231 array ( 77, 27 ) = 3.18527e23
13232 array ( 77, 28 ) = 3.36591e23
13233 array ( 77, 29 ) = 3.54783e23
13234 array ( 77, 30 ) = 3.73063e23
13235 array ( 77, 31 ) = 3.91615e23
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13237 array ( 77, 33 ) = 4.28891e23
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13239 array ( 77, 35 ) = 4.64787e23
13240 array ( 77, 36 ) = 4.82048e23
13241 array ( 77, 37 ) = 4.99206e23
13242 array ( 77, 38 ) = 5.16269e23
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13244 array ( 77, 40 ) = 5.50372e23
13245 array ( 77, 41 ) = 5.67356e23
13246 array ( 77, 42 ) = 5.84212e23
13247 array ( 77, 43 ) = 6.00939e23
13248 array ( 77, 44 ) = 6.17661e23
13249 array ( 77, 45 ) = 6.3427e23
13250 array ( 77, 46 ) = 6.5078e23
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13252 array ( 77, 48 ) = 6.8356e23
13253 array ( 77, 49 ) = 6.9981e23
13254 array ( 77, 50 ) = 7.15939e23
13255 array ( 77, 51 ) = 7.31948e23
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13257 array ( 78, 2 ) = 3.94589e21
13258 array ( 78, 3 ) = 7.32588e21
13259 array ( 78, 4 ) = 1.18463e22
13260 array ( 78, 5 ) = 1.76992e22
13261 array ( 78, 6 ) = 2.41696e22
13262 array ( 78, 7 ) = 3.20137e22
13263 array ( 78, 8 ) = 4.06633e22
13264 array ( 78, 9 ) = 4.99355e22
13265 array ( 78, 10 ) = 6.04958e22
13266 array ( 78, 11 ) = 7.15262e22
13267 array ( 78, 12 ) = 8.34174e22
13268 array ( 78, 13 ) = 9.6124e22
13269 array ( 78, 14 ) = 1.09165e23
13270 array ( 78, 15 ) = 1.23152e23
13271 array ( 78, 16 ) = 1.37552e23
13272 array ( 78, 17 ) = 1.52323e23
```



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13274 array ( 78, 19 ) = 1.83046e23
13275 array ( 78, 20 ) = 1.99059e23
13276 array ( 78, 21 ) = 2.15431e23
13277 array ( 78, 22 ) = 2.31982e23
13278 array ( 78, 23 ) = 2.49109e23
13279 array ( 78, 24 ) = 2.66379e23
13280 array ( 78, 25 ) = 2.83923e23
13281 array ( 78, 26 ) = 3.01798e23
13282 array ( 78, 27 ) = 3.19777e23
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13285 array ( 78, 30 ) = 3.75051e23
13286 array ( 78, 31 ) = 3.93888e23
13287 array ( 78, 32 ) = 4.12739e23
13288 array ( 78, 33 ) = 4.31666e23
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13290 array ( 78, 35 ) = 4.68204e23
13291 array ( 78, 36 ) = 4.85791e23
13292 array ( 78, 37 ) = 5.03279e23
13293 array ( 78, 38 ) = 5.20679e23
13294 array ( 78, 39 ) = 5.38168e23
13295 array ( 78, 40 ) = 5.55563e23
13296 array ( 78, 41 ) = 5.72878e23
13297 array ( 78, 42 ) = 5.90109e23
13298 array ( 78, 43 ) = 6.07233e23
13299 array ( 78, 44 ) = 6.24317e23
13300 array ( 78, 45 ) = 6.41333e23
13301 array ( 78, 46 ) = 6.58318e23
13302 array ( 78, 47 ) = 6.75135e23
13303 array ( 78, 48 ) = 6.91825e23
13304 array ( 78, 49 ) = 7.08442e23
13305 array ( 78, 50 ) = 7.25003e23
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13308 array ( 79, 2 ) = 3.91567e21
13309 array ( 79, 3 ) = 7.26949e21
13310 array ( 79, 4 ) = 1.1756e22
13311 array ( 79, 5 ) = 1.75694e22
13312 array ( 79, 6 ) = 2.39986e22
13313 array ( 79, 7 ) = 3.1799e22
13314 array ( 79, 8 ) = 4.04083e22
13315 array ( 79, 9 ) = 4.96437e22
13316 array ( 79, 10 ) = 6.01702e22
13317 array ( 79, 11 ) = 7.1171e22
13318 array ( 79, 12 ) = 8.30411e22
13319 array ( 79, 13 ) = 9.57388e22
13320 array ( 79, 14 ) = 1.08778e23
13321 array ( 79, 15 ) = 1.22777e23
13322 array ( 79, 16 ) = 1.372e23
13323 array ( 79, 17 ) = 1.52006e23
13324 array ( 79, 18 ) = 1.67312e23
13325 array ( 79, 19 ) = 1.82848e23
13326 array ( 79, 20 ) = 1.98935e23
13327 array ( 79, 21 ) = 2.15402e23
13328 array ( 79, 22 ) = 2.32062e23
13329 array ( 79, 23 ) = 2.49317e23
13330 array ( 79, 24 ) = 2.66725e23
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13332 array ( 79, 26 ) = 3.02469e23
13333 array ( 79, 27 ) = 3.20628e23
13334 array ( 79, 28 ) = 3.39128e23
13335 array ( 79, 29 ) = 3.57783e23
13336 array ( 79, 30 ) = 3.76545e23
13337 array ( 79, 31 ) = 3.9561e23
13338 array ( 79, 32 ) = 4.14705e23
13339 array ( 79, 33 ) = 4.33915e23
13340 array ( 79, 34 ) = 4.53251e23
13341 array ( 79, 35 ) = 4.7101e23
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13344 array ( 79, 38 ) = 5.24396e23
13345 array ( 79, 39 ) = 5.42228e23
13346 array ( 79, 40 ) = 5.59965e23
13347 array ( 79, 41 ) = 5.77616e23
13348 array ( 79, 42 ) = 5.95195e23
13349 array ( 79, 43 ) = 6.12673e23
13350 array ( 79, 44 ) = 6.30133e23
13351 array ( 79, 45 ) = 6.47532e23
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13352 array ( 79, 46 ) = 6.6491e23
13353 array ( 79, 47 ) = 6.82109e23
13354 array ( 79, 48 ) = 6.99176e23
13355 array ( 79, 49 ) = 7.16174e23
13356 array ( 79, 50 ) = 7.33131e23
13357 array ( 79, 51 ) = 7.50027e23
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13359 array ( 80, 2 ) = 3.88395e21
13360 array ( 80, 3 ) = 7.21028e21
13361 array ( 80, 4 ) = 1.16607e22
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13363 array ( 80, 6 ) = 2.38166e22
13364 array ( 80, 7 ) = 3.15689e22
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13366 array ( 80, 9 ) = 4.93258e22
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13370 array ( 80, 13 ) = 9.5294e22
13371 array ( 80, 14 ) = 1.08322e23
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13373 array ( 80, 16 ) = 1.3675e23
13374 array ( 80, 17 ) = 1.51574e23
13375 array ( 80, 18 ) = 1.66923e23
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13380 array ( 80, 23 ) = 2.49317e23
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13382 array ( 80, 25 ) = 2.84673e23
13383 array ( 80, 26 ) = 3.0287e23
13384 array ( 80, 27 ) = 3.21191e23
13385 array ( 80, 28 ) = 3.39875e23
13386 array ( 80, 29 ) = 3.58722e23
13387 array ( 80, 30 ) = 3.77682e23
13388 array ( 80, 31 ) = 3.96932e23
13389 array ( 80, 32 ) = 4.16256e23
13390 array ( 80, 33 ) = 4.35784e23
13391 array ( 80, 34 ) = 4.55383e23
13392 array ( 80, 35 ) = 4.73374e23
13393 array ( 80, 36 ) = 4.91497e23
13394 array ( 80, 37 ) = 5.09572e23
13395 array ( 80, 38 ) = 5.27613e23
13396 array ( 80, 39 ) = 5.4575e23
13397 array ( 80, 40 ) = 5.63798e23
13398 array ( 80, 41 ) = 5.81787e23
13399 array ( 80, 42 ) = 5.99694e23
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13406 array ( 80, 49 ) = 7.23259e23
13407 array ( 80, 50 ) = 7.40582e23
13408 array ( 80, 51 ) = 7.57825e23
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13411 array ( 81, 3 ) = 7.15106e21
13412 array ( 81, 4 ) = 1.15655e22
13413 array ( 81, 5 ) = 1.72944e22
13414 array ( 81, 6 ) = 2.36346e22
13415 array ( 81, 7 ) = 3.13388e22
13416 array ( 81, 8 ) = 3.98571e22
13417 array ( 81, 9 ) = 4.90078e22
13418 array ( 81, 10 ) = 5.9454e22
13419 array ( 81, 11 ) = 7.03809e22
13420 array ( 81, 12 ) = 8.21896e22
13421 array ( 81, 13 ) = 9.48492e22
13422 array ( 81, 14 ) = 1.07865e23
13423 array ( 81, 15 ) = 1.21862e23
13424 array ( 81, 16 ) = 1.363e23
13425 array ( 81, 17 ) = 1.51142e23
13426 array ( 81, 18 ) = 1.66534e23
13427 array ( 81, 19 ) = 1.82168e23
13428 array ( 81, 20 ) = 1.98362e23
13429 array ( 81, 21 ) = 2.14989e23
13430 array ( 81, 22 ) = 2.31839e23
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13431 array ( 81, 23 ) = 2.49317e23
13432 array ( 81, 24 ) = 2.66963e23
13433 array ( 81, 25 ) = 2.84923e23
13434 array ( 81, 26 ) = 3.03272e23
13435 array ( 81, 27 ) = 3.21754e23
13436 array ( 81, 28 ) = 3.40622e23
13437 array ( 81, 29 ) = 3.59661e23
13438 array ( 81, 30 ) = 3.78819e23
13439 array ( 81, 31 ) = 3.98255e23
13440 array ( 81, 32 ) = 4.17807e23
13441 array ( 81, 33 ) = 4.37653e23
13442 array ( 81, 34 ) = 4.57516e23
13443 array ( 81, 35 ) = 4.75739e23
13444 array ( 81, 36 ) = 4.94114e23
13445 array ( 81, 37 ) = 5.12472e23
13446 array ( 81, 38 ) = 5.3083e23
13447 array ( 81, 39 ) = 5.49273e23
13448 array ( 81, 40 ) = 5.67631e23
13449 array ( 81, 41 ) = 5.85958e23
13450 array ( 81, 42 ) = 6.04194e23
13451 array ( 81, 43 ) = 6.22317e23
13452 array ( 81, 44 ) = 6.40555e23
13453 array ( 81, 45 ) = 6.58684e23
13454 array ( 81, 46 ) = 6.7673e23
13455 array ( 81, 47 ) = 6.94699e23
13456 array ( 81, 48 ) = 7.12558e23
13457 array ( 81, 49 ) = 7.30343e23
13458 array ( 81, 50 ) = 7.48033e23
13459 array ( 81, 51 ) = 7.65623e23
13460
13461 call LyB_emissivity % put ( array_scaled = array )
13462
13463 scaled_characteristics % array_max = 7.65623e23
13464 scaled_characteristics % array_min = 1.78307e16
13465 scaled_characteristics % array_mean = 1.2045298679283207e23
13466 scaled_characteristics % array_sd = 1.6907043307676605e23
13467
13468 call LyB_emissivity % put ( array_scaled_characteristics = scaled_characteristics )
13469
13470 ! HELIOS output normalized
13471 array ( 1, 1 ) = 0.
13472 array ( 1, 2 ) = 2.366882972694368e-8
13473 array ( 1, 3 ) = 4.857168719600532e-8
13474 array ( 1, 4 ) = 7.770325785080056e-8
13475 array ( 1, 5 ) = 1.0260807450869918e-7
13476 array ( 1, 6 ) = 1.2257116385679328e-7
13477 array ( 1, 7 ) = 1.3994002595955008e-7
13478 array ( 1, 8 ) = 1.5622219132072967e-7
13479 array ( 1, 9 ) = 1.8195156525381781e-7
13480 array ( 1, 10 ) = 2.079121234696694e-7
13481 array ( 1, 11 ) = 2.348783986218364e-7
13482 array ( 1, 12 ) = 2.6246247132059715e-7
13483 array ( 1, 13 ) = 2.9074140299353955e-7
13484 array ( 1, 14 ) = 3.238961026187748e-7
13485 array ( 1, 15 ) = 3.588637049811605e-7
13486 array ( 1, 16 ) = 3.9522102529190934e-7
13487 array ( 1, 17 ) = 4.3476398665158466e-7
13488 array ( 1, 18 ) = 4.78986797079855e-7
13489 array ( 1, 19 ) = 5.249767958390797e-7
13490 array ( 1, 20 ) = 5.726177377249312e-7
13491 array ( 1, 21 ) = 6.218704389606702e-7
13492 array ( 1, 22 ) = 6.727035525249048e-7
13493 array ( 1, 23 ) = 7.25128833550657e-7
13494 array ( 1, 24 ) = 7.790822818692521e-7
13495 array ( 1, 25 ) = 8.345207953262766e-7
13496 array ( 1, 26 ) = 8.913581696129035e-7
13497 array ( 1, 27 ) = 9.495800373443284e-7
13498 array ( 1, 28 ) = 1.0092569293186823e-6
13499 array ( 1, 29 ) = 1.0702582329468334e-6
13500 array ( 1, 30 ) = 1.132535621570803e-6
13501 array ( 1, 31 ) = 1.1962628099341363e-6
13502 array ( 1, 32 ) = 1.2611380829559389e-6
13503 array ( 1, 33 ) = 1.3270621750684704e-6
13504 array ( 1, 34 ) = 1.394392964765952e-6
13505 array ( 1, 35 ) = 1.4650413142273836e-6
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17485 array ( 79, 37 ) = 0.6617760881912258
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17487 array ( 79, 39 ) = 0.7082180065088467
17488 array ( 79, 40 ) = 0.7313847614431676
17489 array ( 79, 41 ) = 0.7544391895508349
17490 array ( 79, 42 ) = 0.7773995765943272
17491 array ( 79, 43 ) = 0.8002280449227965
17492 array ( 79, 44 ) = 0.823033002985222
17493 array ( 79, 45 ) = 0.845758287368277
17494 array ( 79, 46 ) = 0.8684561431076143
17495 array ( 79, 47 ) = 0.8909202023124054
17496 array ( 79, 48 ) = 0.9132118528995427
17497 array ( 79, 49 ) = 0.935413380800179
17498 array ( 79, 50 ) = 0.9575613575392711
17499 array ( 79, 51 ) = 0.9796296605989927
17500 array ( 80, 1 ) = 0.0016500316718818788
17501 array ( 80, 2 ) = 0.0050729043664485465
17502 array ( 80, 3 ) = 0.009417510102518858
17503 array ( 80, 4 ) = 0.015230318891761671
17504 array ( 80, 5 ) = 0.02276823263574047
17505 array ( 80, 6 ) = 0.03110745461404332
17506 array ( 80, 7 ) = 0.0412329343613137
17507 array ( 80, 8 ) = 0.05241833526938926
17508 array ( 80, 9 ) = 0.0644256812008717
17509 array ( 80, 10 ) = 0.07812210913500756
17510 array ( 80, 11 ) = 0.09244221218224812
17511 array ( 80, 12 ) = 0.10790608967251651
17512 array ( 80, 13 ) = 0.12446593739819045
17513 array ( 80, 14 ) = 0.1414821455102912
17514 array ( 80, 15 ) = 0.15976529573697112
17515 array ( 80, 16 ) = 0.17861269234870075
17516 array ( 80, 17 ) = 0.19797470256160996
17517 array ( 80, 18 ) = 0.21802242886746157
17518 array ( 80, 19 ) = 0.23837840088366433
17519 array ( 80, 20 ) = 0.259459272769549
17520 array ( 80, 21 ) = 0.28107173789320045
17521 array ( 80, 22 ) = 0.3029571833281375
17522 array ( 80, 23 ) = 0.3256393655677897
17523 array ( 80, 24 ) = 0.3485318340539228
17524 array ( 80, 25 ) = 0.3718187525702449
17525 array ( 80, 26 ) = 0.3955863254145723
17526 array ( 80, 27 ) = 0.4195158578694232
17527 array ( 80, 28 ) = 0.44391951402282276
17528 array ( 80, 29 ) = 0.4685360686965074
17529 array ( 80, 30 ) = 0.493300215595911
17530 array ( 80, 31 ) = 0.518443139003797
17531 array ( 80, 32 ) = 0.5436827157276406
17532 array ( 80, 33 ) = 0.5691887421333132
17533 array ( 80, 34 ) = 0.5947875034772695
17534 array ( 80, 35 ) = 0.6182860143879851
17535 array ( 80, 36 ) = 0.641956933916355
17536 array ( 80, 37 ) = 0.6655651594019415
17537 array ( 80, 38 ) = 0.689128976607223
17538 array ( 80, 39 ) = 0.7128181818980713
```

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17539 array ( 80, 40 ) = 0.7363911419845923
17540 array ( 80, 41 ) = 0.7598870406435253
17541 array ( 80, 42 ) = 0.7832758369793703
17542 array ( 80, 43 ) = 0.8065261839707355
17543 array ( 80, 44 ) = 0.829839225004884
17544 array ( 80, 45 ) = 0.8530412453382704
17545 array ( 80, 46 ) = 0.8761753471253081
17546 array ( 80, 47 ) = 0.8991422647982571
17547 array ( 80, 48 ) = 0.9219511412383565
17548 array ( 80, 49 ) = 0.9446672827401723
17549 array ( 80, 50 ) = 0.967293301555487
17550 array ( 80, 51 ) = 0.9898148302994964
17551 array ( 81, 1 ) = 0.0016374536795484792
17552 array ( 81, 2 ) = 0.005031474053175916
17553 array ( 81, 3 ) = 0.009340161327234963
17554 array ( 81, 4 ) = 0.015105975706908125
17555 array ( 81, 5 ) = 0.02258864032568414
17556 array ( 81, 6 ) = 0.0308869739701823308
17557 array ( 81, 7 ) = 0.04093239479372126
17558 array ( 81, 8 ) = 0.052058366973741804
17559 array ( 81, 9 ) = 0.06401033316743233
17560 array ( 81, 10 ) = 0.0776543854533263
17561 array ( 81, 11 ) = 0.09192629245517721
17562 array ( 81, 12 ) = 0.10734994126799297
17563 array ( 81, 13 ) = 0.12388497260173187
17564 array ( 81, 14 ) = 0.14088524597795854
17565 array ( 81, 15 ) = 0.15916709007874713
17566 array ( 81, 16 ) = 0.1780249356976073
17567 array ( 81, 17 ) = 0.19741045617656028
17568 array ( 81, 18 ) = 0.21751434589573854
17569 array ( 81, 19 ) = 0.23793431808061596
17570 array ( 81, 20 ) = 0.2590857207646319
17571 array ( 81, 21 ) = 0.2808026759595888
17572 array ( 81, 22 ) = 0.30281089722830984
17573 array ( 81, 23 ) = 0.3256393655677897
17574 array ( 81, 24 ) = 0.34868726303498976
17575 array ( 81, 25 ) = 0.3721452840430746
17576 array ( 81, 26 ) = 0.39611138802288237
17577 array ( 81, 27 ) = 0.4202512067462357
17578 array ( 81, 28 ) = 0.44489519006363787
17579 array ( 81, 29 ) = 0.46976252090845566
17580 array ( 81, 30 ) = 0.49478528073434036
17581 array ( 81, 31 ) = 0.5201711435580116
17582 array ( 81, 32 ) = 0.5457085169850759
17583 array ( 81, 33 ) = 0.571629891424188
17584 array ( 81, 34 ) = 0.5975734700034524
17585 array ( 81, 35 ) = 0.6213750021209541
17586 array ( 81, 36 ) = 0.6453750653739362
17587 array ( 81, 37 ) = 0.6693529244867659
17588 array ( 81, 38 ) = 0.6933307835995955
17589 array ( 81, 39 ) = 0.7174196634131874
17590 array ( 81, 40 ) = 0.7413975225260171
17591 array ( 81, 41 ) = 0.7653348917362158
17592 array ( 81, 42 ) = 0.7891534034903047
17593 array ( 81, 43 ) = 0.8128243230186746
17594 array ( 81, 44 ) = 0.836645447024546
17595 array ( 81, 45 ) = 0.8603242033082638
17596 array ( 81, 46 ) = 0.883894551143002
17597 array ( 81, 47 ) = 0.9073643272841085
17598 array ( 81, 48 ) = 0.9306904295771703
17599 array ( 81, 49 ) = 0.9539198785542743
17600 array ( 81, 50 ) = 0.9770252455717031
17601 array ( 81, 51 ) = 1.
17602
17603 call LyB_emissivity % put ( array_normalized = array )
17604
17605 normalized_characteristics % array_max = 1.
17606 normalized_characteristics % array_min = 0.
17607 normalized_characteristics % array_mean = 0.15732674144765502
17608 normalized_characteristics % array_sd = 0.22082727009803882
17609
17610 call LyB_emissivity % put ( array_normalized_characteristics = normalized_characteristics )
17611
17612 ! scale factors for temperature
17613 pts_temp ( 1 ) = 260.
17614 pts_temp ( 2 ) = 275.5
17615 pts_temp ( 3 ) = 291.
17616 pts_temp ( 4 ) = 306.5
17617 pts_temp ( 5 ) = 322.
```

```
17618 pts_temp ( 6 ) = 337.5
17619 pts_temp ( 7 ) = 353.
17620 pts_temp ( 8 ) = 368.5
17621 pts_temp ( 9 ) = 384.
17622 pts_temp ( 10 ) = 399.5
17623 pts_temp ( 11 ) = 415.
17624 pts_temp ( 12 ) = 430.5
17625 pts_temp ( 13 ) = 446.
17626 pts_temp ( 14 ) = 461.5
17627 pts_temp ( 15 ) = 477.
17628 pts_temp ( 16 ) = 492.5
17629 pts_temp ( 17 ) = 508.
17630 pts_temp ( 18 ) = 523.5
17631 pts_temp ( 19 ) = 539.
17632 pts_temp ( 20 ) = 554.5
17633 pts_temp ( 21 ) = 570.
17634 pts_temp ( 22 ) = 585.5
17635 pts_temp ( 23 ) = 601.
17636 pts_temp ( 24 ) = 616.5
17637 pts_temp ( 25 ) = 632.
17638 pts_temp ( 26 ) = 647.5
17639 pts_temp ( 27 ) = 663.
17640 pts_temp ( 28 ) = 678.5
17641 pts_temp ( 29 ) = 694.
17642 pts_temp ( 30 ) = 709.5
17643 pts_temp ( 31 ) = 725.
17644 pts_temp ( 32 ) = 740.5
17645 pts_temp ( 33 ) = 756.
17646 pts_temp ( 34 ) = 771.5
17647 pts_temp ( 35 ) = 787.
17648 pts_temp ( 36 ) = 802.5
17649 pts_temp ( 37 ) = 818.
17650 pts_temp ( 38 ) = 833.5
17651 pts_temp ( 39 ) = 849.
17652 pts_temp ( 40 ) = 864.5
17653 pts_temp ( 41 ) = 880.
17654 pts_temp ( 42 ) = 895.5
17655 pts_temp ( 43 ) = 911.
17656 pts_temp ( 44 ) = 926.5
17657 pts_temp ( 45 ) = 942.
17658 pts_temp ( 46 ) = 957.5
17659 pts_temp ( 47 ) = 973.
17660 pts_temp ( 48 ) = 988.5
17661 pts_temp ( 49 ) = 1004.
17662 pts_temp ( 50 ) = 1019.5
17663 pts_temp ( 51 ) = 1035.
17664 pts_temp ( 52 ) = 1050.5
17665 pts_temp ( 53 ) = 1066.
17666 pts_temp ( 54 ) = 1081.5
17667 pts_temp ( 55 ) = 1097.
17668 pts_temp ( 56 ) = 1112.5
17669 pts_temp ( 57 ) = 1128.
17670 pts_temp ( 58 ) = 1143.5
17671 pts_temp ( 59 ) = 1159.
17672 pts_temp ( 60 ) = 1174.5
17673 pts_temp ( 61 ) = 1190.
17674 pts_temp ( 62 ) = 1205.5
17675 pts_temp ( 63 ) = 1221.
17676 pts_temp ( 64 ) = 1236.5
17677 pts_temp ( 65 ) = 1252.
17678 pts_temp ( 66 ) = 1267.5
17679 pts_temp ( 67 ) = 1283.
17680 pts_temp ( 68 ) = 1298.5
17681 pts_temp ( 69 ) = 1314.
17682 pts_temp ( 70 ) = 1329.5
17683 pts_temp ( 71 ) = 1345.
17684 pts_temp ( 72 ) = 1360.5
17685 pts_temp ( 73 ) = 1376.
17686 pts_temp ( 74 ) = 1391.5
17687 pts_temp ( 75 ) = 1407.
17688 pts_temp ( 76 ) = 1422.5
17689 pts_temp ( 77 ) = 1438.
17690 pts_temp ( 78 ) = 1453.5
17691 pts_temp ( 79 ) = 1469.
17692 pts_temp ( 80 ) = 1484.5
17693 pts_temp ( 81 ) = 1500.
17694
17695 call HeB_opacity % put ( pts_temp = pts_temp )
17696
```



```
17697 lr_fit_density % intercept_value = 244.50000000000003
17698 lr_fit_density % intercept_error = 0.
17699 lr_fit_density % slope_value    = 15.5
17700 lr_fit_density % slope_error     = 0.
17701 lr_fit_density % error_rms      = 0.
17702
17703 call HeB_opacity % put ( pts_temp_lr = lr_fit_temp )
17704
17705 ! scale factors for density
17706 pts_density ( 1 ) = 1.e23
17707 pts_density ( 2 ) = 1.576e23
17708 pts_density ( 3 ) = 2.152e23
17709 pts_density ( 4 ) = 2.728e23
17710 pts_density ( 5 ) = 3.304e23
17711 pts_density ( 6 ) = 3.88e23
17712 pts_density ( 7 ) = 4.456e23
17713 pts_density ( 8 ) = 5.032e23
17714 pts_density ( 9 ) = 5.608e23
17715 pts_density ( 10 ) = 6.184e23
17716 pts_density ( 11 ) = 6.76e23
17717 pts_density ( 12 ) = 7.336e23
17718 pts_density ( 13 ) = 7.912e23
17719 pts_density ( 14 ) = 8.488e23
17720 pts_density ( 15 ) = 9.064e23
17721 pts_density ( 16 ) = 9.64e23
17722 pts_density ( 17 ) = 1.0216e24
17723 pts_density ( 18 ) = 1.0792e24
17724 pts_density ( 19 ) = 1.1368e24
17725 pts_density ( 20 ) = 1.1944e24
17726 pts_density ( 21 ) = 1.252e24
17727 pts_density ( 22 ) = 1.3096e24
17728 pts_density ( 23 ) = 1.3672e24
17729 pts_density ( 24 ) = 1.4248e24
17730 pts_density ( 25 ) = 1.4824e24
17731 pts_density ( 26 ) = 1.54e24
17732 pts_density ( 27 ) = 1.5976e24
17733 pts_density ( 28 ) = 1.6552e24
17734 pts_density ( 29 ) = 1.7128e24
17735 pts_density ( 30 ) = 1.7704e24
17736 pts_density ( 31 ) = 1.828e24
17737 pts_density ( 32 ) = 1.8856e24
17738 pts_density ( 33 ) = 1.9432e24
17739 pts_density ( 34 ) = 2.0008e24
17740 pts_density ( 35 ) = 2.0584e24
17741 pts_density ( 36 ) = 2.116e24
17742 pts_density ( 37 ) = 2.1736e24
17743 pts_density ( 38 ) = 2.2312e24
17744 pts_density ( 39 ) = 2.2888e24
17745 pts_density ( 40 ) = 2.3464e24
17746 pts_density ( 41 ) = 2.404e24
17747 pts_density ( 42 ) = 2.4616e24
17748 pts_density ( 43 ) = 2.5192e24
17749 pts_density ( 44 ) = 2.5768e24
17750 pts_density ( 45 ) = 2.6344e24
17751 pts_density ( 46 ) = 2.692e24
17752 pts_density ( 47 ) = 2.7496e24
17753 pts_density ( 48 ) = 2.8072e24
17754 pts_density ( 49 ) = 2.8648e24
17755 pts_density ( 50 ) = 2.9224e24
17756 pts_density ( 51 ) = 2.98e24
17757
17758 call HeB_opacity % put ( pts_density = pts_density )
17759
17760 lr_fit_density % intercept_value = 4.239999999999925e22
17761 lr_fit_density % intercept_error = 1.6282460071720295e7
17762 lr_fit_density % slope_value    = 5.76e22
17763 lr_fit_density % slope_error     = 18240.24653292042
17764 lr_fit_density % error_rms      = 1.9756314628630587e8
17765
17766 call HeB_opacity % put ( pts_density_lr = lr_fit_density )
17767
17768 ! fit amplitudes describing surface for HeB_opacity
17769 amplitudes ( 1 ) = 0.01860706659637215
17770 amplitudes ( 2 ) = -0.000579971935079587
17771 amplitudes ( 3 ) = 0.013491513093118145
17772 amplitudes ( 4 ) = 0.000705772299406241
17773 amplitudes ( 5 ) = 0.0017457021909730829
17774 amplitudes ( 6 ) = 0.0002283434934670554
17775 amplitudes ( 7 ) = -0.00012192079890502465
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17776 amplitudes ( 8 ) = -0.00007002189270520643
17777 amplitudes ( 9 ) = -0.00005782465427244643
17778 amplitudes ( 10 ) = -0.0000576177805377143
17779 amplitudes ( 11 ) = 9.932714147018469e-6
17780 amplitudes ( 12 ) = 3.617027801770545e-6
17781 amplitudes ( 13 ) = 2.15294526405967e-6
17782 amplitudes ( 14 ) = 2.761948338929669e-7
17783 amplitudes ( 15 ) = 0.000010315121652896121
17784 amplitudes ( 16 ) = -4.6265530817879485e-7
17785 amplitudes ( 17 ) = -2.3237645151976658e-7
17786 amplitudes ( 18 ) = 2.2365166644409162e-8
17787 amplitudes ( 19 ) = -7.592497453348798e-8
17788 amplitudes ( 20 ) = 5.411401569872871e-8
17789 amplitudes ( 21 ) = -9.276859044435214e-7
17790 amplitudes ( 22 ) = 1.3132599608349178e-8
17791 amplitudes ( 23 ) = 6.8980225675251015e-9
17792 amplitudes ( 24 ) = -6.177456931571295e-10
17793 amplitudes ( 25 ) = 1.7786615831691843e-10
17794 amplitudes ( 26 ) = 1.6208584322676478e-9
17795 amplitudes ( 27 ) = -2.184570640082593e-9
17796 amplitudes ( 28 ) = 4.6385222654355345e-8
17797 amplitudes ( 29 ) = -2.3084817733033973e-10
17798 amplitudes ( 30 ) = -9.336502642343309e-11
17799 amplitudes ( 31 ) = -3.633351496573063e-11
17800 amplitudes ( 32 ) = 5.298820214559344e-11
17801 amplitudes ( 33 ) = -3.3554755347681086e-11
17802 amplitudes ( 34 ) = -3.745314317113206e-11
17803 amplitudes ( 35 ) = 4.937769312332727e-11
17804 amplitudes ( 36 ) = -1.3647223879729674e-9
17805 amplitudes ( 37 ) = 2.4521387514543465e-12
17806 amplitudes ( 38 ) = 4.853755295738879e-13
17807 amplitudes ( 39 ) = 1.1127567609856863e-12
17808 amplitudes ( 40 ) = -1.1258861529604055e-12
17809 amplitudes ( 41 ) = 3.5718205349352994e-13
17810 amplitudes ( 42 ) = 4.751113316712043e-14
17811 amplitudes ( 43 ) = 1.197605785511353e-12
17812 amplitudes ( 44 ) = -9.268436231163431e-13
17813 amplitudes ( 45 ) = 2.3569817757029832e-11
17814 amplitudes ( 46 ) = -1.4415093564789484e-14
17815 amplitudes ( 47 ) = 6.122676388697473e-16
17816 amplitudes ( 48 ) = -1.0871014125959127e-14
17817 amplitudes ( 49 ) = 8.09230324308887e-15
17818 amplitudes ( 50 ) = 1.3169656290421901e-15
17819 amplitudes ( 51 ) = -4.777735743348885e-15
17820 amplitudes ( 52 ) = 3.797320904758194e-15
17821 amplitudes ( 53 ) = -1.9345344465490544e-14
17822 amplitudes ( 54 ) = 1.2207713834668083e-14
17823 amplitudes ( 55 ) = -2.2146108655358617e-13
17824 amplitudes ( 56 ) = 3.599375331938976e-17
17825 amplitudes ( 57 ) = -1.0246523550493357e-17
17826 amplitudes ( 58 ) = 3.631231409083489e-17
17827 amplitudes ( 59 ) = -1.815832049368889e-17
17828 amplitudes ( 60 ) = -1.6777393694509958e-17
17829 amplitudes ( 61 ) = 1.5860268179071018e-17
17830 amplitudes ( 62 ) = 7.181627717740355e-18
17831 amplitudes ( 63 ) = -2.192887774933053e-17
17832 amplitudes ( 64 ) = 1.1169897123474285e-16
17833 amplitudes ( 65 ) = -7.012651429067447e-17
17834 amplitudes ( 66 ) = 8.747281764070462e-16
17835
17836 call HeB_opacity % put ( amplitudes = amplitudes )
17837
17838 ! errors in fit amplitudes describing surface for HeB_opacity
17839 errors ( 1 ) = 2.3154099479107927e-7
17840 errors ( 2 ) = 8.481874360205644e-8
17841 errors ( 3 ) = 1.507406153482803e-7
17842 errors ( 4 ) = 1.57542084558417e-8
17843 errors ( 5 ) = 2.028782144831757e-8
17844 errors ( 6 ) = 4.4693329874659474e-8
17845 errors ( 7 ) = 1.58985459187536e-9
17846 errors ( 8 ) = 1.8777253158821023e-9
17847 errors ( 9 ) = 3.0875605827711015e-9
17848 errors ( 10 ) = 7.098709185346779e-9
17849 errors ( 11 ) = 9.594790255758089e-11
17850 errors ( 12 ) = 1.0901910255881914e-10
17851 errors ( 13 ) = 1.6520815293960088e-10
17852 errors ( 14 ) = 2.881158371643523e-10
17853 errors ( 15 ) = 6.72905976452356e-10
17854 errors ( 16 ) = 3.658722545721064e-12
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17855 errors ( 17 ) = 4.084207909767933e-12
17856 errors ( 18 ) = 5.946026131996177e-12
17857 errors ( 19 ) = 9.596835818649099e-12
17858 errors ( 20 ) = 1.72024614333533e-11
17859 errors ( 21 ) = 4.0320304940378125e-11
17860 errors ( 22 ) = 9.031928180712546e-14
17861 errors ( 23 ) = 1.0070577773650006e-13
17862 errors ( 24 ) = 1.4285821439620426e-13
17863 errors ( 25 ) = 2.2204901856353907e-13
17864 errors ( 26 ) = 3.690578526191158e-13
17865 errors ( 27 ) = 6.735439790041485e-13
17866 errors ( 28 ) = 1.5654481558254686e-12
17867 errors ( 29 ) = 1.4393207931448797e-15
17868 errors ( 30 ) = 1.6323596949407138e-15
17869 errors ( 31 ) = 2.2746518756900766e-15
17870 errors ( 32 ) = 3.44952134911471e-15
17871 errors ( 33 ) = 5.527617569437106e-15
17872 errors ( 34 ) = 9.366927249188077e-15
17873 errors ( 35 ) = 1.730300617974573e-14
17874 errors ( 36 ) = 3.927078867108123e-14
17875 errors ( 37 ) = 1.428401367092293e-17
17876 errors ( 38 ) = 1.6833819948273586e-17
17877 errors ( 39 ) = 2.3343574592369816e-17
17878 errors ( 40 ) = 3.4717380715963037e-17
17879 errors ( 41 ) = 5.431105831612828e-17
17880 errors ( 42 ) = 8.880493829404701e-17
17881 errors ( 43 ) = 1.5286363749611133e-16
17882 errors ( 44 ) = 2.8241540914143954e-16
17883 errors ( 45 ) = 6.139838211489842e-16
17884 errors ( 46 ) = 8.023324070660837e-20
17885 errors ( 47 ) = 1.0062328818610065e-19
17886 errors ( 48 ) = 1.4292429409258985e-19
17887 errors ( 49 ) = 2.1126158055809616e-19
17888 errors ( 50 ) = 3.2407626078193545e-19
17889 errors ( 51 ) = 5.175597369516227e-19
17890 errors ( 52 ) = 8.605176205071621e-19
17891 errors ( 53 ) = 1.4850142242118136e-18
17892 errors ( 54 ) = 2.668388847656787e-18
17893 errors ( 55 ) = 5.436762692889446e-18
17894 errors ( 56 ) = 1.9472718024578196e-22
17895 errors ( 57 ) = 2.661729703535496e-22
17896 errors ( 58 ) = 4.0772971290144785e-22
17897 errors ( 59 ) = 6.377404448901807e-22
17898 errors ( 60 ) = 1.0068433369630627e-21
17899 errors ( 61 ) = 1.5999634205519278e-21
17900 errors ( 62 ) = 2.5579471430800366e-21
17901 errors ( 63 ) = 4.1182721101649464e-21
17902 errors ( 64 ) = 6.698986233028815e-21
17903 errors ( 65 ) = 1.1143061426442414e-20
17904 errors ( 66 ) = 2.0812555975604605e-20
17905
17906 call HeB_opacity % put ( errors = errors )
17907
17908 ! quality measures for surface fit
17909 sf_quality % error_norm_L1 = 0.04823398753250872
17910 sf_quality % error_norm_L2 = 0.017406730524386956
17911 sf_quality % error_norm_Linf = 0.03683300307165755
17912 sf_quality % error_maximum = 0.001724326498406148
17913 sf_quality % error_rms = 0.0004143787218148411
17914 sf_quality % condition_number = 3.053286452268271e20
17915
17916 call HeB_opacity % put ( sf_quality = sf_quality )
17917
17918 ! HELIOS output scaled
17919 array ( 1, 1 ) = 10.9105
17920 array ( 1, 2 ) = 15.6221
17921 array ( 1, 3 ) = 20.2187
17922 array ( 1, 4 ) = 24.5583
17923 array ( 1, 5 ) = 29.1198
17924 array ( 1, 6 ) = 34.0507
17925 array ( 1, 7 ) = 39.0582
17926 array ( 1, 8 ) = 44.1342
17927 array ( 1, 9 ) = 48.894
17928 array ( 1, 10 ) = 53.6659
17929 array ( 1, 11 ) = 58.4623
17930 array ( 1, 12 ) = 63.279
17931 array ( 1, 13 ) = 68.1155
17932 array ( 1, 14 ) = 73.0913
17933 array ( 1, 15 ) = 78.1096
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17935 array ( 1, 17 ) = 88.1135
17936 array ( 1, 18 ) = 92.8166
17937 array ( 1, 19 ) = 97.5233
17938 array ( 1, 20 ) = 102.246
17939 array ( 1, 21 ) = 106.957
17940 array ( 1, 22 ) = 111.664
17941 array ( 1, 23 ) = 116.388
17942 array ( 1, 24 ) = 121.114
17943 array ( 1, 25 ) = 125.84
17944 array ( 1, 26 ) = 130.566
17945 array ( 1, 27 ) = 135.291
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17947 array ( 1, 29 ) = 144.73
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17949 array ( 1, 31 ) = 154.19
17950 array ( 1, 32 ) = 158.924
17951 array ( 1, 33 ) = 163.682
17952 array ( 1, 34 ) = 168.415
17953 array ( 1, 35 ) = 173.029
17954 array ( 1, 36 ) = 177.643
17955 array ( 1, 37 ) = 182.274
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17957 array ( 1, 39 ) = 191.543
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17959 array ( 1, 41 ) = 200.77
17960 array ( 1, 42 ) = 205.407
17961 array ( 1, 43 ) = 210.057
17962 array ( 1, 44 ) = 214.671
17963 array ( 1, 45 ) = 219.284
17964 array ( 1, 46 ) = 223.896
17965 array ( 1, 47 ) = 228.54
17966 array ( 1, 48 ) = 233.185
17967 array ( 1, 49 ) = 237.797
17968 array ( 1, 50 ) = 242.431
17969 array ( 1, 51 ) = 247.084
17970 array ( 2, 1 ) = 11.768
17971 array ( 2, 2 ) = 16.9034
17972 array ( 2, 3 ) = 21.8864
17973 array ( 2, 4 ) = 26.5527
17974 array ( 2, 5 ) = 31.4027
17975 array ( 2, 6 ) = 36.6128
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17977 array ( 2, 8 ) = 47.2197
17978 array ( 2, 9 ) = 52.1835
17979 array ( 2, 10 ) = 57.1503
17980 array ( 2, 11 ) = 62.132
17981 array ( 2, 12 ) = 67.1206
17982 array ( 2, 13 ) = 72.1242
17983 array ( 2, 14 ) = 77.2467
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17986 array ( 2, 17 ) = 92.6381
17987 array ( 2, 18 ) = 97.4314
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17989 array ( 2, 20 ) = 107.018
17990 array ( 2, 21 ) = 111.802
17991 array ( 2, 22 ) = 116.578
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17993 array ( 2, 24 ) = 126.132
17994 array ( 2, 25 ) = 130.904
17995 array ( 2, 26 ) = 135.674
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17997 array ( 2, 28 ) = 145.19
17998 array ( 2, 29 ) = 149.947
17999 array ( 2, 30 ) = 154.708
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18001 array ( 2, 32 ) = 164.203
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18003 array ( 2, 34 ) = 173.715
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18008 array ( 2, 39 ) = 196.85
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18010 array ( 2, 41 ) = 206.07
18011 array ( 2, 42 ) = 210.693
18012 array ( 2, 43 ) = 215.327
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18016 array ( 2, 47 ) = 233.744
18017 array ( 2, 48 ) = 238.361
18018 array ( 2, 49 ) = 242.945
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18020 array ( 2, 51 ) = 252.171
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18070 array ( 3, 50 ) = 252.669
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18073 array ( 4, 2 ) = 19.3298
18074 array ( 4, 3 ) = 25.0663
18075 array ( 4, 4 ) = 30.3768
18076 array ( 4, 5 ) = 35.794
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18088 array ( 4, 17 ) = 101.399
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18090 array ( 4, 19 ) = 111.327
18091 array ( 4, 20 ) = 116.27
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18095 array ( 4, 24 ) = 135.868
18096 array ( 4, 25 ) = 140.729
18097 array ( 4, 26 ) = 145.586
18098 array ( 4, 27 ) = 150.433
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18105 array ( 4, 34 ) = 184.013
18106 array ( 4, 35 ) = 188.662
18107 array ( 4, 36 ) = 193.284
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18115 array ( 4, 44 ) = 230.124
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18117 array ( 4, 46 ) = 239.274
18118 array ( 4, 47 ) = 243.848
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18120 array ( 4, 49 ) = 252.943
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18122 array ( 4, 51 ) = 262.048
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18124 array ( 5, 2 ) = 20.2865
18125 array ( 5, 3 ) = 26.3635
18126 array ( 5, 4 ) = 31.9787
18127 array ( 5, 5 ) = 37.6603
18128 array ( 5, 6 ) = 43.6611
18129 array ( 5, 7 ) = 49.6773
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18165 array ( 5, 43 ) = 230.093
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18167 array ( 5, 45 ) = 239.233
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18169 array ( 5, 47 ) = 248.329
18170 array ( 5, 48 ) = 252.867
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18178 array ( 6, 5 ) = 39.5267
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18194 array ( 6, 21 ) = 129.473
18195 array ( 6, 22 ) = 134.494
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18205 array ( 6, 32 ) = 183.572
18206 array ( 6, 33 ) = 188.384
18207 array ( 6, 34 ) = 193.175
18208 array ( 6, 35 ) = 197.826
18209 array ( 6, 36 ) = 202.458
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18211 array ( 6, 38 ) = 211.707
18212 array ( 6, 39 ) = 216.325
18213 array ( 6, 40 ) = 220.929
18214 array ( 6, 41 ) = 225.51
18215 array ( 6, 42 ) = 230.076
18216 array ( 6, 43 ) = 234.629
18217 array ( 6, 44 ) = 239.214
18218 array ( 6, 45 ) = 243.771
18219 array ( 6, 46 ) = 248.289
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18233 array ( 7, 9 ) = 66.3377
18234 array ( 7, 10 ) = 72.1842
18235 array ( 7, 11 ) = 78.0056
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18241 array ( 7, 17 ) = 112.379
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18243 array ( 7, 19 ) = 122.787
18244 array ( 7, 20 ) = 127.941
18245 array ( 7, 21 ) = 133.053
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18248 array ( 7, 24 ) = 148.212
18249 array ( 7, 25 ) = 153.2
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18253 array ( 7, 29 ) = 172.961
18254 array ( 7, 30 ) = 177.852
18255 array ( 7, 31 ) = 182.718
18256 array ( 7, 32 ) = 187.565
18257 array ( 7, 33 ) = 192.393
18258 array ( 7, 34 ) = 197.197
18259 array ( 7, 35 ) = 201.854
18260 array ( 7, 36 ) = 206.496
18261 array ( 7, 37 ) = 211.125
18262 array ( 7, 38 ) = 215.744
18263 array ( 7, 39 ) = 220.352
18264 array ( 7, 40 ) = 224.948
18265 array ( 7, 41 ) = 229.527
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18268 array ( 7, 44 ) = 243.191
18269 array ( 7, 45 ) = 247.729
18270 array ( 7, 46 ) = 252.243
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18293 array ( 8, 18 ) = 120.878
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18297 array ( 8, 22 ) = 141.662
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18312 array ( 8, 37 ) = 215.061
18313 array ( 8, 38 ) = 219.675
18314 array ( 8, 39 ) = 224.273
18315 array ( 8, 40 ) = 228.859
18316 array ( 8, 41 ) = 233.436
18317 array ( 8, 42 ) = 237.993
18318 array ( 8, 43 ) = 242.534
18319 array ( 8, 44 ) = 247.058
18320 array ( 8, 45 ) = 251.576
18321 array ( 8, 46 ) = 256.09
18322 array ( 8, 47 ) = 260.579
18323 array ( 8, 48 ) = 265.056
18324 array ( 8, 49 ) = 269.53
18325 array ( 8, 50 ) = 273.991
18326 array ( 8, 51 ) = 278.438
18327 array ( 9, 1 ) = 15.7314
18328 array ( 9, 2 ) = 23.2792
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18333 array ( 9, 7 ) = 57.5733
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18372 array ( 9, 46 ) = 259.772
18373 array ( 9, 47 ) = 264.246
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18376 array ( 9, 50 ) = 277.609
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18404 array ( 10, 27 ) = 173.585
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18406 array ( 10, 29 ) = 183.612
18407 array ( 10, 30 ) = 188.582
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18439 array ( 11, 11 ) = 86.8918
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18444 array ( 11, 16 ) = 117.915
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18447 array ( 11, 19 ) = 134.792
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18478 array ( 11, 50 ) = 283.862
18479 array ( 11, 51 ) = 288.246
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18484 array ( 12, 5 ) = 46.9433
18485 array ( 12, 6 ) = 54.2987
18486 array ( 12, 7 ) = 61.5709
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18494 array ( 12, 15 ) = 113.811
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20194 array ( 45, 32 ) = 104.727
20195 array ( 45, 33 ) = 107.718
20196 array ( 45, 34 ) = 110.685
20197 array ( 45, 35 ) = 113.401
20198 array ( 45, 36 ) = 116.104
20199 array ( 45, 37 ) = 118.779
20200 array ( 45, 38 ) = 121.428
20201 array ( 45, 39 ) = 124.061
20202 array ( 45, 40 ) = 126.677
20203 array ( 45, 41 ) = 129.28
20204 array ( 45, 42 ) = 131.862
20205 array ( 45, 43 ) = 134.422
20206 array ( 45, 44 ) = 136.967
20207 array ( 45, 45 ) = 139.494
20208 array ( 45, 46 ) = 142.002
20209 array ( 45, 47 ) = 144.491
20210 array ( 45, 48 ) = 146.964
20211 array ( 45, 49 ) = 149.428
20212 array ( 45, 50 ) = 151.872
20213 array ( 45, 51 ) = 154.299
20214 array ( 46, 1 ) = 5.93267
20215 array ( 46, 2 ) = 8.69616
20216 array ( 46, 3 ) = 11.4864
20217 array ( 46, 4 ) = 14.3266
20218 array ( 46, 5 ) = 17.2306
20219 array ( 46, 6 ) = 20.1675
20220 array ( 46, 7 ) = 23.2033
20221 array ( 46, 8 ) = 26.2937
20222 array ( 46, 9 ) = 29.3479
20223 array ( 46, 10 ) = 32.4554
20224 array ( 46, 11 ) = 35.5767
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20226 array ( 46, 13 ) = 41.9159
20227 array ( 46, 14 ) = 45.0734
20228 array ( 46, 15 ) = 48.2605
20229 array ( 46, 16 ) = 51.4516
20230 array ( 46, 17 ) = 54.6015
20231 array ( 46, 18 ) = 57.6963
20232 array ( 46, 19 ) = 60.7774
20233 array ( 46, 20 ) = 63.8505
20234 array ( 46, 21 ) = 66.9144
20235 array ( 46, 22 ) = 69.9626
20236 array ( 46, 23 ) = 73.0009
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20238 array ( 46, 25 ) = 79.0213
20239 array ( 46, 26 ) = 82.0115
20240 array ( 46, 27 ) = 84.9833
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20245 array ( 46, 32 ) = 99.584
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20247 array ( 46, 34 ) = 105.312
20248 array ( 46, 35 ) = 107.926
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20253 array ( 46, 40 ) = 120.723
20254 array ( 46, 41 ) = 123.23
20255 array ( 46, 42 ) = 125.718
20256 array ( 46, 43 ) = 128.189
20257 array ( 46, 44 ) = 130.649
20258 array ( 46, 45 ) = 133.089
20259 array ( 46, 46 ) = 135.508
20260 array ( 46, 47 ) = 137.913
20261 array ( 46, 48 ) = 140.302
20262 array ( 46, 49 ) = 142.676
20263 array ( 46, 50 ) = 145.034
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20265 array ( 47, 1 ) = 5.5797
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20270 array ( 47, 6 ) = 18.8715
20271 array ( 47, 7 ) = 21.7224
20272 array ( 47, 8 ) = 24.6269
20273 array ( 47, 9 ) = 27.5016
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20279 array ( 47, 15 ) = 45.3837
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20299 array ( 47, 35 ) = 102.452
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20308 array ( 47, 44 ) = 124.331
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20315 array ( 47, 51 ) = 140.455
20316 array ( 48, 1 ) = 5.25209
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20333 array ( 48, 18 ) = 51.2227
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20343 array ( 48, 28 ) = 78.8506
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20347 array ( 48, 32 ) = 89.569
20348 array ( 48, 33 ) = 92.2147
20349 array ( 48, 34 ) = 94.8463
20350 array ( 48, 35 ) = 97.2595
20351 array ( 48, 36 ) = 99.6612
20352 array ( 48, 37 ) = 102.05
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20366 array ( 48, 51 ) = 133.854
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20380 array ( 49, 14 ) = 37.4487
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20382 array ( 49, 16 ) = 42.8884
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20386 array ( 49, 20 ) = 53.5873
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20410 array ( 49, 44 ) = 112.55
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20414 array ( 49, 48 ) = 121.19
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20417 array ( 49, 51 ) = 127.518
20418 array ( 50, 1 ) = 4.63864
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20420 array ( 50, 3 ) = 8.80448
20421 array ( 50, 4 ) = 10.9593
20422 array ( 50, 5 ) = 13.18
20423 array ( 50, 6 ) = 15.4309
20424 array ( 50, 7 ) = 17.7744
20425 array ( 50, 8 ) = 20.1731
20426 array ( 50, 9 ) = 22.5615
20427 array ( 50, 10 ) = 25.0155
20428 array ( 50, 11 ) = 27.4871
20429 array ( 50, 12 ) = 29.9979
20430 array ( 50, 13 ) = 32.5387
20431 array ( 50, 14 ) = 35.0663
20432 array ( 50, 15 ) = 37.6276
20433 array ( 50, 16 ) = 40.2061
20434 array ( 50, 17 ) = 42.7702
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20436 array ( 50, 19 ) = 47.8253
20437 array ( 50, 20 ) = 50.358
20438 array ( 50, 21 ) = 52.8858
20439 array ( 50, 22 ) = 55.4027
20440 array ( 50, 23 ) = 57.9308
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20445 array ( 50, 28 ) = 70.4329
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20448 array ( 50, 31 ) = 77.826
20449 array ( 50, 32 ) = 80.2722
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20454 array ( 50, 37 ) = 91.7534
20455 array ( 50, 38 ) = 93.9485
20456 array ( 50, 39 ) = 96.1177
20457 array ( 50, 40 ) = 98.272
20458 array ( 50, 41 ) = 100.419
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20460 array ( 50, 43 ) = 104.68
20461 array ( 50, 44 ) = 106.785
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20495 array ( 51, 27 ) = 64.3065
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20497 array ( 51, 29 ) = 69.048
20498 array ( 51, 30 ) = 71.4051
20499 array ( 51, 31 ) = 73.7616
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20501 array ( 51, 33 ) = 78.4327
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20504 array ( 51, 36 ) = 85.0112
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20506 array ( 51, 38 ) = 89.2353
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20509 array ( 51, 41 ) = 95.4591
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20512 array ( 51, 44 ) = 101.578
20513 array ( 51, 45 ) = 103.594
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20515 array ( 51, 47 ) = 107.594
20516 array ( 51, 48 ) = 109.577
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20527 array ( 52, 8 ) = 17.686
20528 array ( 52, 9 ) = 19.7951
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20531 array ( 52, 12 ) = 26.3983
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20538 array ( 52, 19 ) = 42.4
20539 array ( 52, 20 ) = 44.6907
20540 array ( 52, 21 ) = 46.979
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20544 array ( 52, 25 ) = 56.127
20545 array ( 52, 26 ) = 58.4078
20546 array ( 52, 27 ) = 60.6785
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20597 array ( 53, 27 ) = 57.225
20598 array ( 53, 28 ) = 59.3868
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20613 array ( 53, 43 ) = 89.5511
20614 array ( 53, 44 ) = 91.4255
20615 array ( 53, 45 ) = 93.285
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20617 array ( 53, 47 ) = 96.9763
20618 array ( 53, 48 ) = 98.8147
20619 array ( 53, 49 ) = 100.64
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20666 array ( 54, 45 ) = 88.5985
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20680 array ( 55, 8 ) = 14.422
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20683 array ( 55, 11 ) = 19.778
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20692 array ( 55, 20 ) = 37.0917
20693 array ( 55, 21 ) = 39.0549
20694 array ( 55, 22 ) = 41.0178
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20697 array ( 55, 25 ) = 46.9262
20698 array ( 55, 26 ) = 48.9011
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20708 array ( 55, 36 ) = 68.167
20709 array ( 55, 37 ) = 69.949
20710 array ( 55, 38 ) = 71.7213
20711 array ( 55, 39 ) = 73.4952
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20713 array ( 55, 41 ) = 77.0042
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20777 array ( 57, 3 ) = 5.53754
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21329 array ( 67, 45 ) = 44.012
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21830 array ( 77, 36 ) = 19.9993
21831 array ( 77, 37 ) = 20.6448
21832 array ( 77, 38 ) = 21.2905
21833 array ( 77, 39 ) = 21.948
21834 array ( 77, 40 ) = 22.603
21835 array ( 77, 41 ) = 23.2528
21836 array ( 77, 42 ) = 23.9089
21837 array ( 77, 43 ) = 24.5668
21838 array ( 77, 44 ) = 25.2327
21839 array ( 77, 45 ) = 25.8945
21840 array ( 77, 46 ) = 26.5525
21841 array ( 77, 47 ) = 27.2179
21842 array ( 77, 48 ) = 27.8819
21843 array ( 77, 49 ) = 28.5414
21844 array ( 77, 50 ) = 29.2053
21845 array ( 77, 51 ) = 29.8716
21846 array ( 78, 1 ) = 0.972339
21847 array ( 78, 2 ) = 1.27543
21848 array ( 78, 3 ) = 1.59088
21849 array ( 78, 4 ) = 1.92733
21850 array ( 78, 5 ) = 2.28082
21851 array ( 78, 6 ) = 2.6404
21852 array ( 78, 7 ) = 3.02188
21853 array ( 78, 8 ) = 3.42007
21854 array ( 78, 9 ) = 3.82733
21855 array ( 78, 10 ) = 4.25823
21856 array ( 78, 11 ) = 4.69777
21857 array ( 78, 12 ) = 5.154
21858 array ( 78, 13 ) = 5.62568
21859 array ( 78, 14 ) = 6.10057
21860 array ( 78, 15 ) = 6.59669
21861 array ( 78, 16 ) = 7.10356
21862 array ( 78, 17 ) = 7.61831
21863 array ( 78, 18 ) = 8.14834
21864 array ( 78, 19 ) = 8.68433
21865 array ( 78, 20 ) = 9.23327
21866 array ( 78, 21 ) = 9.79171
21867 array ( 78, 22 ) = 10.3546
21868 array ( 78, 23 ) = 10.9332
21869 array ( 78, 24 ) = 11.5151
21870 array ( 78, 25 ) = 12.1042
21871 array ( 78, 26 ) = 12.7042
21872 array ( 78, 27 ) = 13.3073
21873 array ( 78, 28 ) = 13.9199
21874 array ( 78, 29 ) = 14.5385
21875 array ( 78, 30 ) = 15.1613
21876 array ( 78, 31 ) = 15.7934
21877 array ( 78, 32 ) = 16.4273
21878 array ( 78, 33 ) = 17.0673
21879 array ( 78, 34 ) = 17.7145
21880 array ( 78, 35 ) = 18.3229
21881 array ( 78, 36 ) = 18.9389
21882 array ( 78, 37 ) = 19.5551
21883 array ( 78, 38 ) = 20.172
```

```
21884 array ( 78, 39 ) = 20.7961
21885 array ( 78, 40 ) = 21.4192
21886 array ( 78, 41 ) = 22.0428
21887 array ( 78, 42 ) = 22.6699
21888 array ( 78, 43 ) = 23.2975
21889 array ( 78, 44 ) = 23.9339
21890 array ( 78, 45 ) = 24.5666
21891 array ( 78, 46 ) = 25.196
21892 array ( 78, 47 ) = 25.8292
21893 array ( 78, 48 ) = 26.4617
21894 array ( 78, 49 ) = 27.096
21895 array ( 78, 50 ) = 27.7323
21896 array ( 78, 51 ) = 28.3694
21897 array ( 79, 1 ) = 0.92991
21898 array ( 79, 2 ) = 1.21596
21899 array ( 79, 3 ) = 1.51382
21900 array ( 79, 4 ) = 1.83173
21901 array ( 79, 5 ) = 2.1657
21902 array ( 79, 6 ) = 2.50532
21903 array ( 79, 7 ) = 2.86539
21904 array ( 79, 8 ) = 3.24134
21905 array ( 79, 9 ) = 3.62604
21906 array ( 79, 10 ) = 4.03292
21907 array ( 79, 11 ) = 4.44807
21908 array ( 79, 12 ) = 4.87921
21909 array ( 79, 13 ) = 5.32508
21910 array ( 79, 14 ) = 5.77404
21911 array ( 79, 15 ) = 6.24328
21912 array ( 79, 16 ) = 6.72269
21913 array ( 79, 17 ) = 7.2096
21914 array ( 79, 18 ) = 7.71147
21915 array ( 79, 19 ) = 8.21914
21916 array ( 79, 20 ) = 8.7393
21917 array ( 79, 21 ) = 9.26868
21918 array ( 79, 22 ) = 9.80238
21919 array ( 79, 23 ) = 10.3514
21920 array ( 79, 24 ) = 10.9037
21921 array ( 79, 25 ) = 11.4627
21922 array ( 79, 26 ) = 12.0326
21923 array ( 79, 27 ) = 12.6055
21924 array ( 79, 28 ) = 13.1877
21925 array ( 79, 29 ) = 13.776
21926 array ( 79, 30 ) = 14.3685
21927 array ( 79, 31 ) = 14.9699
21928 array ( 79, 32 ) = 15.5733
21929 array ( 79, 33 ) = 16.1826
21930 array ( 79, 34 ) = 16.799
21931 array ( 79, 35 ) = 17.3789
21932 array ( 79, 36 ) = 17.9665
21933 array ( 79, 37 ) = 18.5548
21934 array ( 79, 38 ) = 19.1441
21935 array ( 79, 39 ) = 19.7388
21936 array ( 79, 40 ) = 20.3332
21937 array ( 79, 41 ) = 20.9305
21938 array ( 79, 42 ) = 21.5301
21939 array ( 79, 43 ) = 22.1295
21940 array ( 79, 44 ) = 22.7375
21941 array ( 79, 45 ) = 23.3426
21942 array ( 79, 46 ) = 23.9457
21943 array ( 79, 47 ) = 24.5519
21944 array ( 79, 48 ) = 25.1573
21945 array ( 79, 49 ) = 25.7651
21946 array ( 79, 50 ) = 26.3753
21947 array ( 79, 51 ) = 26.9865
21948 array ( 80, 1 ) = 0.890466
21949 array ( 80, 2 ) = 1.16084
21950 array ( 80, 3 ) = 1.44251
21951 array ( 80, 4 ) = 1.74338
21952 array ( 80, 5 ) = 2.05953
21953 array ( 80, 6 ) = 2.38092
21954 array ( 80, 7 ) = 2.72119
21955 array ( 80, 8 ) = 3.07648
21956 array ( 80, 9 ) = 3.44011
21957 array ( 80, 10 ) = 3.82484
21958 array ( 80, 11 ) = 4.21733
21959 array ( 80, 12 ) = 4.6248
21960 array ( 80, 13 ) = 5.04682
21961 array ( 80, 14 ) = 5.472
21962 array ( 80, 15 ) = 5.91607
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21963 array ( 80, 16 ) = 6.36983
21964 array ( 80, 17 ) = 6.8308
21965 array ( 80, 18 ) = 7.30659
21966 array ( 80, 19 ) = 7.78797
21967 array ( 80, 20 ) = 8.28113
21968 array ( 80, 21 ) = 8.78325
21969 array ( 80, 22 ) = 9.2896
21970 array ( 80, 23 ) = 9.8107
21971 array ( 80, 24 ) = 10.3351
21972 array ( 80, 25 ) = 10.8664
21973 array ( 80, 26 ) = 11.4078
21974 array ( 80, 27 ) = 11.9523
21975 array ( 80, 28 ) = 12.5061
21976 array ( 80, 29 ) = 13.0657
21977 array ( 80, 30 ) = 13.6294
21978 array ( 80, 31 ) = 14.2021
21979 array ( 80, 32 ) = 14.7767
21980 array ( 80, 33 ) = 15.3571
21981 array ( 80, 34 ) = 15.9445
21982 array ( 80, 35 ) = 16.4973
21983 array ( 80, 36 ) = 17.0577
21984 array ( 80, 37 ) = 17.619
21985 array ( 80, 38 ) = 18.1816
21986 array ( 80, 39 ) = 18.7498
21987 array ( 80, 40 ) = 19.3177
21988 array ( 80, 41 ) = 19.8888
21989 array ( 80, 42 ) = 20.462
21990 array ( 80, 43 ) = 21.0348
21991 array ( 80, 44 ) = 21.615
21992 array ( 80, 45 ) = 22.1937
21993 array ( 80, 46 ) = 22.7722
21994 array ( 80, 47 ) = 23.355
21995 array ( 80, 48 ) = 23.9366
21996 array ( 80, 49 ) = 24.5171
21997 array ( 80, 50 ) = 25.1021
21998 array ( 80, 51 ) = 25.69
21999 array ( 81, 1 ) = 0.851022
22000 array ( 81, 2 ) = 1.10572
22001 array ( 81, 3 ) = 1.37121
22002 array ( 81, 4 ) = 1.65503
22003 array ( 81, 5 ) = 1.95336
22004 array ( 81, 6 ) = 2.25651
22005 array ( 81, 7 ) = 2.577
22006 array ( 81, 8 ) = 2.91163
22007 array ( 81, 9 ) = 3.25419
22008 array ( 81, 10 ) = 3.61676
22009 array ( 81, 11 ) = 3.98659
22010 array ( 81, 12 ) = 4.37039
22011 array ( 81, 13 ) = 4.76856
22012 array ( 81, 14 ) = 5.16995
22013 array ( 81, 15 ) = 5.58885
22014 array ( 81, 16 ) = 6.01697
22015 array ( 81, 17 ) = 6.452
22016 array ( 81, 18 ) = 6.90171
22017 array ( 81, 19 ) = 7.35679
22018 array ( 81, 20 ) = 7.82297
22019 array ( 81, 21 ) = 8.29783
22020 array ( 81, 22 ) = 8.77683
22021 array ( 81, 23 ) = 9.26999
22022 array ( 81, 24 ) = 9.76657
22023 array ( 81, 25 ) = 10.27
22024 array ( 81, 26 ) = 10.783
22025 array ( 81, 27 ) = 11.2991
22026 array ( 81, 28 ) = 11.8245
22027 array ( 81, 29 ) = 12.3555
22028 array ( 81, 30 ) = 12.8904
22029 array ( 81, 31 ) = 13.4344
22030 array ( 81, 32 ) = 13.9802
22031 array ( 81, 33 ) = 14.5316
22032 array ( 81, 34 ) = 15.0899
22033 array ( 81, 35 ) = 15.6158
22034 array ( 81, 36 ) = 16.1489
22035 array ( 81, 37 ) = 16.6832
22036 array ( 81, 38 ) = 17.2192
22037 array ( 81, 39 ) = 17.7608
22038 array ( 81, 40 ) = 18.3023
22039 array ( 81, 41 ) = 18.8472
22040 array ( 81, 42 ) = 19.3938
22041 array ( 81, 43 ) = 19.94
```

```
22042 array ( 81, 44 ) = 20.4925
22043 array ( 81, 45 ) = 21.0448
22044 array ( 81, 46 ) = 21.5987
22045 array ( 81, 47 ) = 22.1581
22046 array ( 81, 48 ) = 22.716
22047 array ( 81, 49 ) = 23.269
22048 array ( 81, 50 ) = 23.8289
22049 array ( 81, 51 ) = 24.3934
22050
22051 call HeB_opacity % put ( array_scaled = array )
22052
22053 scaled_characteristics % array_max = 300.515
22054 scaled_characteristics % array_min = 0.851022
22055 scaled_characteristics % array_mean = 97.59138493754509
22056 scaled_characteristics % array_sd = 82.43142596691442
22057
22058 call HeB_opacity % put ( array_scaled_characteristics = scaled_characteristics )
22059
22060 ! HELIOS output normalized
22061 array ( 1, 1 ) = 0.033569193291560724
22062 array ( 1, 2 ) = 0.04929213747539586
22063 array ( 1, 3 ) = 0.06463131848299765
22064 array ( 1, 4 ) = 0.07911287221849535
22065 array ( 1, 5 ) = 0.09433492203056852
22066 array ( 1, 6 ) = 0.11078968590612516
22067 array ( 1, 7 ) = 0.12750006942776418
22068 array ( 1, 8 ) = 0.1444390423195944
22069 array ( 1, 9 ) = 0.16032283333033776
22070 array ( 1, 10 ) = 0.17624700290136308
22071 array ( 1, 11 ) = 0.1922529307142816
22072 array ( 1, 12 ) = 0.20832660107048304
22073 array ( 1, 13 ) = 0.22446634543441854
22074 array ( 1, 14 ) = 0.2410709438022611
22075 array ( 1, 15 ) = 0.25781736769175506
22076 array ( 1, 16 ) = 0.27468492726209487
22077 array ( 1, 17 ) = 0.29120109324584886
22078 array ( 1, 18 ) = 0.3068956723253537
22079 array ( 1, 19 ) = 0.32260226486081023
22080 array ( 1, 20 ) = 0.33836225053382957
22081 array ( 1, 21 ) = 0.35408319247500614
22082 array ( 1, 22 ) = 0.36979078613179195
22083 array ( 1, 23 ) = 0.38555510999723835
22084 array ( 1, 24 ) = 0.4013261080048801
22085 array ( 1, 25 ) = 0.4170971060125218
22086 array ( 1, 26 ) = 0.43286810402016357
22087 array ( 1, 27 ) = 0.4486357649567076
22088 array ( 1, 28 ) = 0.4643600439689818
22089 array ( 1, 29 ) = 0.4801343790477212
22090 array ( 1, 30 ) = 0.49594208483743757
22091 array ( 1, 31 ) = 0.5117030716317862
22092 array ( 1, 32 ) = 0.5275007662082094
22093 array ( 1, 33 ) = 0.5433785504909769
22094 array ( 1, 34 ) = 0.5591729079963025
22095 array ( 1, 35 ) = 0.5745701540410039
22096 array ( 1, 36 ) = 0.5899674000857054
22097 array ( 1, 37 ) = 0.6054213763390673
22098 array ( 1, 38 ) = 0.6209387569432854
22099 array ( 1, 39 ) = 0.6363526883434752
22100 array ( 1, 40 ) = 0.6517499343881766
22101 array ( 1, 41 ) = 0.6671438433617805
22102 array ( 1, 42 ) = 0.6826178420417286
22103 array ( 1, 43 ) = 0.6981352226459464
22104 array ( 1, 44 ) = 0.7135324686906479
22105 array ( 1, 45 ) = 0.7289263776642516
22106 array ( 1, 46 ) = 0.7443169495667578
22107 array ( 1, 47 ) = 0.7598143077443896
22108 array ( 1, 48 ) = 0.7753150029931192
22109 array ( 1, 49 ) = 0.7907055748956253
22110 array ( 1, 50 ) = 0.8061695623622804
22111 array ( 1, 51 ) = 0.8216969541797914
22112 array ( 2, 1 ) = 0.036430731757822424
22113 array ( 2, 2 ) = 0.05356792667285489
22114 array ( 2, 3 ) = 0.07019655195260072
22115 array ( 2, 4 ) = 0.08576832681571091
22116 array ( 2, 5 ) = 0.10195312163946513
22117 array ( 2, 6 ) = 0.11933959576549438
22118 array ( 2, 7 ) = 0.13693630537067755
22119 array ( 2, 8 ) = 0.15473557519149
22120 array ( 2, 9 ) = 0.17130012870616035
```



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22121 array ( 2, 10 ) = 0.18787469343412375
22122 array ( 2, 11 ) = 0.20449898052144258
22123 array ( 2, 12 ) = 0.22114629339933545
22124 array ( 2, 13 ) = 0.23784366234369353
22125 array ( 2, 14 ) = 0.254937809004156593
22126 array ( 2, 15 ) = 0.27214207908566174
22127 array ( 2, 16 ) = 0.289432111856968
22128 array ( 2, 17 ) = 0.3063000051344176
22129 array ( 2, 18 ) = 0.3222955880269333
22130 array ( 2, 19 ) = 0.33828216082748525
22131 array ( 2, 20 ) = 0.35428675381196467
22132 array ( 2, 21 ) = 0.370251301943272
22133 array ( 2, 22 ) = 0.3861891535057978
22134 array ( 2, 23 ) = 0.4021336792105189
22135 array ( 2, 24 ) = 0.41807153077304476
22136 array ( 2, 25 ) = 0.4339960340511798
22137 array ( 2, 26 ) = 0.44991386318711957
22138 array ( 2, 27 ) = 0.46581834403866856
22139 array ( 2, 28 ) = 0.48166943175265464
22140 array ( 2, 29 ) = 0.4975438789643245
22141 array ( 2, 30 ) = 0.5134316744603851
22142 array ( 2, 31 ) = 0.5292660768188828
22143 array ( 2, 32 ) = 0.545117164532869
22144 array ( 2, 33 ) = 0.5610183083133202
22145 array ( 2, 34 ) = 0.5768593848140133
22146 array ( 2, 35 ) = 0.5923000127829846
22147 array ( 2, 36 ) = 0.607707270040979
22148 array ( 2, 37 ) = 0.623151235081048
22149 array ( 2, 38 ) = 0.6386385820453869
22150 array ( 2, 39 ) = 0.6540625246588697
22151 array ( 2, 40 ) = 0.6694664448457666
22152 array ( 2, 41 ) = 0.6848303201794912
22153 array ( 2, 42 ) = 0.7002575998640718
22154 array ( 2, 43 ) = 0.7157215873307269
22155 array ( 2, 44 ) = 0.731048754882377
22156 array ( 2, 45 ) = 0.7463926077895155
22157 array ( 2, 46 ) = 0.7617598201943379
22158 array ( 2, 47 ) = 0.7771804257367231
22159 array ( 2, 48 ) = 0.7925876829947175
22160 array ( 2, 49 ) = 0.8078848169064885
22161 array ( 2, 50 ) = 0.8232520293113109
22162 array ( 2, 51 ) = 0.838672634853696
22163 array ( 3, 1 ) = 0.03929193651697436
22164 array ( 3, 2 ) = 0.057843715870313915
22165 array ( 3, 3 ) = 0.07576145171509403
22166 array ( 3, 4 ) = 0.09242344770581669
22167 array ( 3, 5 ) = 0.10957165495547148
22168 array ( 3, 6 ) = 0.12788983933197334
22169 array ( 3, 7 ) = 0.14637220760648118
22170 array ( 3, 8 ) = 0.16503244177049536
22171 array ( 3, 9 ) = 0.18227742408198291
22172 array ( 3, 10 ) = 0.19950271767399416
22173 array ( 3, 11 ) = 0.2167450303286036
22174 array ( 3, 12 ) = 0.2339656520210781
22175 array ( 3, 13 ) = 0.2512209792529685
22176 array ( 3, 14 ) = 0.26880434057376096
22177 array ( 3, 15 ) = 0.2864671241866782
22178 array ( 3, 16 ) = 0.30417929645184116
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22184 array ( 3, 22 ) = 0.4025841838087059
22185 array ( 3, 23 ) = 0.41871558549489724
22186 array ( 3, 24 ) = 0.43481695354120947
22187 array ( 3, 25 ) = 0.4508949620898378
22188 array ( 3, 26 ) = 0.46695962235407557
22189 array ( 3, 27 ) = 0.4830009231206295
22190 array ( 3, 28 ) = 0.4989821566074251
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22192 array ( 3, 30 ) = 0.5309212640833327
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22196 array ( 3, 34 ) = 0.5945458616317241
22197 array ( 3, 35 ) = 0.6100298715249652
22198 array ( 3, 36 ) = 0.6254438029251551
22199 array ( 3, 37 ) = 0.640877756751931
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22200 array ( 3, 38 ) = 0.6563350700763907
22201 array ( 3, 39 ) = 0.671775698045362
22202 array ( 3, 40 ) = 0.6871796182322588
22203 array ( 3, 41 ) = 0.7025134599261044
22204 array ( 3, 42 ) = 0.717897357686415
22205 array ( 3, 43 ) = 0.7333046149444096
22206 array ( 3, 44 ) = 0.7485683781452037
22207 array ( 3, 45 ) = 0.7638588379147794
22208 array ( 3, 46 ) = 0.7791993537508202
22209 array ( 3, 47 ) = 0.7945465437290564
22210 array ( 3, 48 ) = 0.8098637000674136
22211 array ( 3, 49 ) = 0.8250640589173518
22212 array ( 3, 50 ) = 0.8403344962603414
22213 array ( 3, 51 ) = 0.8556516525986985
22214 array ( 4, 1 ) = 0.04178205897006413
22215 array ( 4, 2 ) = 0.06166499598426875
22216 array ( 4, 3 ) = 0.08080810433611743
22217 array ( 4, 4 ) = 0.09852962040035389
22218 array ( 4, 5 ) = 0.11660720195071293
22219 array ( 4, 6 ) = 0.13581071128942968
22220 array ( 4, 7 ) = 0.15512667992413823
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22222 array ( 4, 9 ) = 0.19249787173285138
22223 array ( 4, 10 ) = 0.21034085718504344
22224 array ( 4, 11 ) = 0.22817116176706434
22225 array ( 4, 12 ) = 0.2459413990693269
22226 array ( 4, 13 ) = 0.2637243172417607
22227 array ( 4, 14 ) = 0.2817688617882527
22228 array ( 4, 15 ) = 0.2998567882590146
22229 array ( 4, 16 ) = 0.31796974276300904
22230 array ( 4, 17 ) = 0.3355357513140936
22231 array ( 4, 18 ) = 0.3521276688117649
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22233 array ( 4, 20 ) = 0.38516133560771193
22234 array ( 4, 21 ) = 0.4015964107637922
22235 array ( 4, 22 ) = 0.4179780927823097
22236 array ( 4, 23 ) = 0.434293033788734
22237 array ( 4, 24 ) = 0.4505612549800697
22238 array ( 4, 25 ) = 0.4667827575858985
22239 array ( 4, 26 ) = 0.4829909119073365
22240 array ( 4, 27 ) = 0.4991656955177976
22241 array ( 4, 28 ) = 0.5152637264930121
22242 array ( 4, 29 ) = 0.5313383979705429
22243 array ( 4, 30 ) = 0.5473863728792923
22244 array ( 4, 31 ) = 0.5633742805082832
22245 array ( 4, 32 ) = 0.5793421657106882
22246 array ( 4, 33 ) = 0.5953000396998
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22248 array ( 4, 35 ) = 0.6267385865110554
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22251 array ( 4, 38 ) = 0.6730304367780902
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22254 array ( 4, 41 ) = 0.7191821300590223
22255 array ( 4, 42 ) = 0.7345193088239655
22256 array ( 4, 43 ) = 0.749863161731104
22257 array ( 4, 44 ) = 0.7651002283631168
22258 array ( 4, 45 ) = 0.780353980350618
22259 array ( 4, 46 ) = 0.7956344289069005
22260 array ( 4, 47 ) = 0.8108981921076948
22261 array ( 4, 48 ) = 0.8261252475264145
22262 array ( 4, 49 ) = 0.841248853741106
22263 array ( 4, 50 ) = 0.8564225160222628
22264 array ( 4, 51 ) = 0.8716328860854942
22265 array ( 5, 1 ) = 0.043757938767001216
22266 array ( 5, 2 ) = 0.06485757190342044
22267 array ( 5, 3 ) = 0.0851369529640296
22268 array ( 5, 4 ) = 0.10387527459172954
22269 array ( 5, 5 ) = 0.12283517774031552
22270 array ( 5, 6 ) = 0.14286027398328136
22271 array ( 5, 7 ) = 0.16293676112115152
22272 array ( 5, 8 ) = 0.18314205920339216
22273 array ( 5, 9 ) = 0.20167047905904792
22274 array ( 5, 10 ) = 0.22008543849738257
22275 array ( 5, 11 ) = 0.23846202161809385
22276 array ( 5, 12 ) = 0.25674850381916775
22277 array ( 5, 13 ) = 0.27501830066475325
22278 array ( 5, 14 ) = 0.29348465099799215
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22279 array ( 5, 15 ) = 0.3119513350383408
22280 array ( 5, 16 ) = 0.3304357055555073
22281 array ( 5, 17 ) = 0.348346767258092
22282 array ( 5, 18 ) = 0.3652189987279686
22283 array ( 5, 19 ) = 0.3820244887758915
22284 array ( 5, 20 ) = 0.39876323740186087
22285 array ( 5, 21 ) = 0.4154085480370951
22286 array ( 5, 22 ) = 0.43197710603708267
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22289 array ( 5, 25 ) = 0.4812756573631283
22290 array ( 5, 26 ) = 0.4976172945284735
22291 array ( 5, 27 ) = 0.5139155497695489
22292 array ( 5, 28 ) = 0.5301203670198892
22293 array ( 5, 29 ) = 0.5462951506303504
22294 array ( 5, 30 ) = 0.5624332264587371
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25944 array ( 77, 8 ) = 0.009233568941008985
25945 array ( 77, 9 ) = 0.010674816577386555
25946 array ( 77, 10 ) = 0.012201493233864767
25947 array ( 77, 11 ) = 0.013757736340268433
25948 array ( 77, 12 ) = 0.015370476060355845
25949 array ( 77, 13 ) = 0.017039779135548955
25950 array ( 77, 14 ) = 0.018720962183849808
25951 array ( 77, 15 ) = 0.020474125855727644
25952 array ( 77, 16 ) = 0.02226556573309589
25953 array ( 77, 17 ) = 0.024085103749106607
25954 array ( 77, 18 ) = 0.025957334117749715
25955 array ( 77, 19 ) = 0.027849787137244772
25956 array ( 77, 20 ) = 0.029786022529541406
25957 array ( 77, 21 ) = 0.03175482773575141
25958 array ( 77, 22 ) = 0.033738716503322934
25959 array ( 77, 23 ) = 0.03577566470134759
25960 array ( 77, 24 ) = 0.0378256274766532
25961 array ( 77, 25 ) = 0.03990128569941096
25962 array ( 77, 26 ) = 0.042012984290023675
25963 array ( 77, 27 ) = 0.04413502780103921
25964 array ( 77, 28 ) = 0.04628944090170224
25965 array ( 77, 29 ) = 0.04846254160051229
25966 array ( 77, 30 ) = 0.05064832316949354
25967 array ( 77, 31 ) = 0.05286914398500042
25968 array ( 77, 32 ) = 0.05509530411426361
25969 array ( 77, 33 ) = 0.05734048554878358
25970 array ( 77, 34 ) = 0.05961102872364593
25971 array ( 77, 35 ) = 0.061743750862174034
25972 array ( 77, 36 ) = 0.06389916508416638
25973 array ( 77, 37 ) = 0.06605324447771964
25974 array ( 77, 38 ) = 0.06820799128549246
25975 array ( 77, 39 ) = 0.0704021155322179
25976 array ( 77, 40 ) = 0.07258789710119913
25977 array ( 77, 41 ) = 0.07475632590047243
25978 array ( 77, 42 ) = 0.07694577824766112
25979 array ( 77, 43 ) = 0.07914123732282564
25980 array ( 77, 44 ) = 0.08136339296677161
25981 array ( 77, 45 ) = 0.08357186661921708
25982 array ( 77, 46 ) = 0.08576765940149135
25983 array ( 77, 47 ) = 0.0879881465098885
25984 array ( 77, 48 ) = 0.09020396171874887
25985 array ( 77, 49 ) = 0.09240476010766967
25986 array ( 77, 50 ) = 0.09462024160942027
25987 array ( 77, 51 ) = 0.09684373208180531
25988 array ( 78, 1 ) = 0.00040484345435740034
25989 array ( 78, 2 ) = 0.0014162796704247187
25990 array ( 78, 3 ) = 0.0024689587481882794
25991 array ( 78, 4 ) = 0.0035917163190031473
```

```
25992 array ( 78, 5 ) = 0.004771337581322504
25993 array ( 78, 6 ) = 0.00597128160662674
25994 array ( 78, 7 ) = 0.007244307488970196
25995 array ( 78, 8 ) = 0.008573095829355906
25996 array ( 78, 9 ) = 0.009932151404597587
25997 array ( 78, 10 ) = 0.011370095340588452
25998 array ( 78, 11 ) = 0.012836871570863283
25999 array ( 78, 12 ) = 0.014359343517758413
26000 array ( 78, 13 ) = 0.015933373213112723
26001 array ( 78, 14 ) = 0.01751811490669059
26002 array ( 78, 15 ) = 0.019173702619672228
26003 array ( 78, 16 ) = 0.020865163846953937
26004 array ( 78, 17 ) = 0.02258292119448538
26005 array ( 78, 18 ) = 0.024351668988389384
26006 array ( 78, 19 ) = 0.026140305726035578
26007 array ( 78, 20 ) = 0.02797215753439674
26008 array ( 78, 21 ) = 0.02983571151818588
26009 array ( 78, 22 ) = 0.0317141154683597
26010 array ( 78, 23 ) = 0.03364494480547808
26011 array ( 78, 24 ) = 0.03558678647721883
26012 array ( 78, 25 ) = 0.037552655060862875
26013 array ( 78, 26 ) = 0.03955489771947164
26014 array ( 78, 27 ) = 0.041567485298483225
26015 array ( 78, 28 ) = 0.043611775052922776
26016 array ( 78, 29 ) = 0.04567608723394842
26017 array ( 78, 30 ) = 0.047754415113584324
26018 array ( 78, 31 ) = 0.04986377775442866
26019 array ( 78, 32 ) = 0.051979147123248824
26020 array ( 78, 33 ) = 0.05411487262576485
26021 array ( 78, 34 ) = 0.05627462504018418
26022 array ( 78, 35 ) = 0.058304899096013475
26023 array ( 78, 36 ) = 0.06036053489218514
26024 array ( 78, 37 ) = 0.062416838102576346
26025 array ( 78, 38 ) = 0.06447547726273593
26026 array ( 78, 39 ) = 0.06655814333479881
26027 array ( 78, 40 ) = 0.06863747233576403
26028 array ( 78, 41 ) = 0.07071846987227808
26029 array ( 78, 42 ) = 0.07281114715763401
26030 array ( 78, 43 ) = 0.07490549297853878
26031 array ( 78, 44 ) = 0.07702920502510316
26032 array ( 78, 45 ) = 0.0791405699086061
26033 array ( 78, 46 ) = 0.08124092245748671
26034 array ( 78, 47 ) = 0.08335395587653849
26035 array ( 78, 48 ) = 0.0854646533458219
26036 array ( 78, 49 ) = 0.08758135754308113
26037 array ( 78, 50 ) = 0.08970473588253573
26038 array ( 78, 51 ) = 0.09183078387886848
26039 array ( 79, 1 ) = 0.00026325486475388133
26040 array ( 79, 2 ) = 0.0012178240522456123
26041 array ( 79, 3 ) = 0.0022118040494009594
26042 array ( 79, 4 ) = 0.003272692322064817
26043 array ( 79, 5 ) = 0.004387173956557435
26044 array ( 79, 6 ) = 0.005520510042751953
26045 array ( 79, 7 ) = 0.006722089232894053
26046 array ( 79, 8 ) = 0.00797666111206733
26047 array ( 79, 9 ) = 0.009260432363345322
26048 array ( 79, 10 ) = 0.01061821985156988
26049 array ( 79, 11 ) = 0.012003604917772267
26050 array ( 79, 12 ) = 0.013442349750826576
26051 array ( 79, 13 ) = 0.014930249641149727
26052 array ( 79, 14 ) = 0.01642846108116472
26053 array ( 79, 15 ) = 0.017994348323040685
26054 array ( 79, 16 ) = 0.019594173577980066
26055 array ( 79, 17 ) = 0.021219026866152062
26056 array ( 79, 18 ) = 0.022893802737945366
26057 array ( 79, 19 ) = 0.02458793362210522
26058 array ( 79, 20 ) = 0.02632374452427512
26059 array ( 79, 21 ) = 0.028090323221965637
26060 array ( 79, 22 ) = 0.029871318066798137
26061 array ( 79, 23 ) = 0.031703436840847116
26062 array ( 79, 24 ) = 0.03354650120809649
26063 array ( 79, 25 ) = 0.03541192395170033
26064 array ( 79, 26 ) = 0.03731372077026889
26065 array ( 79, 27 ) = 0.0392255288021305
26066 array ( 79, 28 ) = 0.041168371595200544
26067 array ( 79, 29 ) = 0.04313157052196644
26068 array ( 79, 30 ) = 0.0451087851473426
26069 array ( 79, 31 ) = 0.04711569970548813
26070 array ( 79, 32 ) = 0.04912928840582901
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26071 array ( 79, 33 ) = 0.05116256582564622
26072 array ( 79, 34 ) = 0.05321953645025696
26073 array ( 79, 35 ) = 0.05515470397980234
26074 array ( 79, 36 ) = 0.05711556695679986
26075 array ( 79, 37 ) = 0.05907876588356576
26076 array ( 79, 38 ) = 0.06104530188142934
26077 array ( 79, 39 ) = 0.06302985806322041
26078 array ( 79, 40 ) = 0.06501341312368215
26079 array ( 79, 41 ) = 0.06700664569032717
26080 array ( 79, 42 ) = 0.06900755352049688
26081 array ( 79, 43 ) = 0.07100779393644704
26082 array ( 79, 44 ) = 0.07303673316383727
26083 array ( 79, 45 ) = 0.07505599488504422
26084 array ( 79, 46 ) = 0.07706858246405579
26085 array ( 79, 47 ) = 0.07909151496347018
26086 array ( 79, 48 ) = 0.08111177780600644
26087 array ( 79, 49 ) = 0.08314004961917712
26088 array ( 79, 50 ) = 0.08517633040298224
26089 array ( 79, 51 ) = 0.08721594825788503
26090 array ( 80, 1 ) = 0.00013162743237694067
26091 array ( 80, 2 ) = 0.0010338846933414204
26092 array ( 80, 3 ) = 0.001973837509425307
26093 array ( 80, 4 ) = 0.0029778620905846747
26094 array ( 80, 5 ) = 0.0040328771181166135
26095 array ( 80, 6 ) = 0.005105378398200401
26096 array ( 80, 7 ) = 0.006240883580608411
26097 array ( 80, 8 ) = 0.007426511570903595
26098 array ( 80, 9 ) = 0.00863997073415344
26099 array ( 80, 10 ) = 0.00992384209756436
26100 array ( 80, 11 ) = 0.011233609132693285
26101 array ( 80, 12 ) = 0.012593365492865478
26102 array ( 80, 13 ) = 0.014001676237508934
26103 array ( 80, 14 ) = 0.015420532126821066
26104 array ( 80, 15 ) = 0.016902425289168393
26105 array ( 80, 16 ) = 0.01841665467045225
26106 array ( 80, 17 ) = 0.01995494433435039
26107 array ( 80, 18 ) = 0.021542689391916166
26108 array ( 80, 19 ) = 0.02314908867691798
26109 array ( 80, 20 ) = 0.024794798659450484
26110 array ( 80, 21 ) = 0.026470408799018214
26111 array ( 80, 22 ) = 0.02816013474932913
26112 array ( 80, 23 ) = 0.02989908249833085
26113 array ( 80, 24 ) = 0.03164904258195492
26114 array ( 80, 25 ) = 0.03342202845615298
26115 array ( 80, 26 ) = 0.035228718748437624
26116 array ( 80, 27 ) = 0.03704575396112508
26117 array ( 80, 28 ) = 0.03889382393502098
26118 array ( 80, 29 ) = 0.040761248921283424
26119 array ( 80, 30 ) = 0.042642355899046365
26120 array ( 80, 31 ) = 0.04455349651668843
26121 array ( 80, 32 ) = 0.0464709775694161
26122 array ( 80, 33 ) = 0.04840781363451032
26123 array ( 80, 34 ) = 0.0503680091972883
26124 array ( 80, 35 ) = 0.052212742100086515
26125 array ( 80, 36 ) = 0.054082836743227114
26126 array ( 80, 37 ) = 0.05595593475035562
26127 array ( 80, 38 ) = 0.0578333709499111
26128 array ( 80, 39 ) = 0.05972949474761361
26129 array ( 80, 40 ) = 0.061624617423986804
26130 array ( 80, 41 ) = 0.06353041872787259
26131 array ( 80, 42 ) = 0.0654432278810635
26132 array ( 80, 43 ) = 0.06735470220581534
26133 array ( 80, 44 ) = 0.06929087085669002
26134 array ( 80, 45 ) = 0.07122203390091818
26135 array ( 80, 46 ) = 0.07315252953092681
26136 array ( 80, 47 ) = 0.07509737456665545
26137 array ( 80, 48 ) = 0.07703821511706689
26138 array ( 80, 49 ) = 0.07897538488927087
26139 array ( 80, 50 ) = 0.08092757148141443
26140 array ( 80, 51 ) = 0.08288943557974127
26141 array ( 81, 1 ) = 0.
26142 array ( 81, 2 ) = 0.0008499453344372279
26143 array ( 81, 3 ) = 0.001735904340160632
26144 array ( 81, 4 ) = 0.002683031859104534
26145 array ( 81, 5 ) = 0.003678580279675791
26146 array ( 81, 6 ) = 0.004690213382937872
26147 array ( 81, 7 ) = 0.005759711299033746
26148 array ( 81, 8 ) = 0.006876395400450835
26149 array ( 81, 9 ) = 0.008019542475672535
```

```
26150 array ( 81, 10 ) = 0.009229464343558839
26151 array ( 81, 11 ) = 0.010463613347614307
26152 array ( 81, 12 ) = 0.011744381234904386
26153 array ( 81, 13 ) = 0.01307310283386814
26154 array ( 81, 14 ) = 0.01441256980176643
26155 array ( 81, 15 ) = 0.01581046888458512
26156 array ( 81, 16 ) = 0.01723913576292443
26157 array ( 81, 17 ) = 0.018690861802548718
26158 array ( 81, 18 ) = 0.020191576045886967
26159 array ( 81, 19 ) = 0.02171021036101977
26160 array ( 81, 20 ) = 0.023265886165336827
26161 array ( 81, 21 ) = 0.024850527746781762
26162 array ( 81, 22 ) = 0.026448984802571098
26163 array ( 81, 23 ) = 0.0280946947851036
26164 array ( 81, 24 ) = 0.02975181755079017
26165 array ( 81, 25 ) = 0.03143179925349586
26166 array ( 81, 26 ) = 0.033143716726606355
26167 array ( 81, 27 ) = 0.03486597912011967
26168 array ( 81, 28 ) = 0.03661927627484142
26169 array ( 81, 29 ) = 0.03839126102771018
26170 array ( 81, 30 ) = 0.04017626035785989
26171 array ( 81, 31 ) = 0.041991627034998515
26172 array ( 81, 32 ) = 0.04381300044011296
26173 array ( 81, 33 ) = 0.045653061443374415
26174 array ( 81, 34 ) = 0.04751614823720988
26175 array ( 81, 35 ) = 0.049271113927480466
26176 array ( 81, 36 ) = 0.05105010652965436
26177 array ( 81, 37 ) = 0.052833103617145466
26178 array ( 81, 38 ) = 0.05462177372550264
26179 array ( 81, 39 ) = 0.05642913143200682
26180 array ( 81, 40 ) = 0.05823615543140123
26181 array ( 81, 41 ) = 0.06005452547252777
26182 array ( 81, 42 ) = 0.06187856853452035
26183 array ( 81, 43 ) = 0.06370127676807388
26184 array ( 81, 44 ) = 0.06554500854954279
26185 array ( 81, 45 ) = 0.06738807291679215
26186 array ( 81, 46 ) = 0.06923647659779782
26187 array ( 81, 47 ) = 0.07110323416984073
26188 array ( 81, 48 ) = 0.07296498613523712
26189 array ( 81, 49 ) = 0.07481038645225487
26190 array ( 81, 50 ) = 0.07667881255984663
26191 array ( 81, 51 ) = 0.0785625891944877
26192
26193 call HeB_opacity % put ( array_normalized = array )
26194
26195 normalized_characteristics % array_max = 1.
26196 normalized_characteristics % array_min = 0.
26197 normalized_characteristics % array_mean = 0.32282946913808
26198 normalized_characteristics % array_sd = 0.2750795291348446
26199
26200 call HeB_opacity % put ( array_normalized_characteristics = normalized_characteristics )
26201
26202 ! scale factors for temperature
26203 pts_temp ( 1 ) = 260.
26204 pts_temp ( 2 ) = 275.5
26205 pts_temp ( 3 ) = 291.
26206 pts_temp ( 4 ) = 306.5
26207 pts_temp ( 5 ) = 322.
26208 pts_temp ( 6 ) = 337.5
26209 pts_temp ( 7 ) = 353.
26210 pts_temp ( 8 ) = 368.5
26211 pts_temp ( 9 ) = 384.
26212 pts_temp ( 10 ) = 399.5
26213 pts_temp ( 11 ) = 415.
26214 pts_temp ( 12 ) = 430.5
26215 pts_temp ( 13 ) = 446.
26216 pts_temp ( 14 ) = 461.5
26217 pts_temp ( 15 ) = 477.
26218 pts_temp ( 16 ) = 492.5
26219 pts_temp ( 17 ) = 508.
26220 pts_temp ( 18 ) = 523.5
26221 pts_temp ( 19 ) = 539.
26222 pts_temp ( 20 ) = 554.5
26223 pts_temp ( 21 ) = 570.
26224 pts_temp ( 22 ) = 585.5
26225 pts_temp ( 23 ) = 601.
26226 pts_temp ( 24 ) = 616.5
26227 pts_temp ( 25 ) = 632.
26228 pts_temp ( 26 ) = 647.5
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26229 pts_temp ( 27 ) = 663.
26230 pts_temp ( 28 ) = 678.5
26231 pts_temp ( 29 ) = 694.
26232 pts_temp ( 30 ) = 709.5
26233 pts_temp ( 31 ) = 725.
26234 pts_temp ( 32 ) = 740.5
26235 pts_temp ( 33 ) = 756.
26236 pts_temp ( 34 ) = 771.5
26237 pts_temp ( 35 ) = 787.
26238 pts_temp ( 36 ) = 802.5
26239 pts_temp ( 37 ) = 818.
26240 pts_temp ( 38 ) = 833.5
26241 pts_temp ( 39 ) = 849.
26242 pts_temp ( 40 ) = 864.5
26243 pts_temp ( 41 ) = 880.
26244 pts_temp ( 42 ) = 895.5
26245 pts_temp ( 43 ) = 911.
26246 pts_temp ( 44 ) = 926.5
26247 pts_temp ( 45 ) = 942.
26248 pts_temp ( 46 ) = 957.5
26249 pts_temp ( 47 ) = 973.
26250 pts_temp ( 48 ) = 988.5
26251 pts_temp ( 49 ) = 1004.
26252 pts_temp ( 50 ) = 1019.5
26253 pts_temp ( 51 ) = 1035.
26254 pts_temp ( 52 ) = 1050.5
26255 pts_temp ( 53 ) = 1066.
26256 pts_temp ( 54 ) = 1081.5
26257 pts_temp ( 55 ) = 1097.
26258 pts_temp ( 56 ) = 1112.5
26259 pts_temp ( 57 ) = 1128.
26260 pts_temp ( 58 ) = 1143.5
26261 pts_temp ( 59 ) = 1159.
26262 pts_temp ( 60 ) = 1174.5
26263 pts_temp ( 61 ) = 1190.
26264 pts_temp ( 62 ) = 1205.5
26265 pts_temp ( 63 ) = 1221.
26266 pts_temp ( 64 ) = 1236.5
26267 pts_temp ( 65 ) = 1252.
26268 pts_temp ( 66 ) = 1267.5
26269 pts_temp ( 67 ) = 1283.
26270 pts_temp ( 68 ) = 1298.5
26271 pts_temp ( 69 ) = 1314.
26272 pts_temp ( 70 ) = 1329.5
26273 pts_temp ( 71 ) = 1345.
26274 pts_temp ( 72 ) = 1360.5
26275 pts_temp ( 73 ) = 1376.
26276 pts_temp ( 74 ) = 1391.5
26277 pts_temp ( 75 ) = 1407.
26278 pts_temp ( 76 ) = 1422.5
26279 pts_temp ( 77 ) = 1438.
26280 pts_temp ( 78 ) = 1453.5
26281 pts_temp ( 79 ) = 1469.
26282 pts_temp ( 80 ) = 1484.5
26283 pts_temp ( 81 ) = 1500.
26284
26285 call LyB_opacity % put ( pts_temp = pts_temp )
26286
26287 lr_fit_density % intercept_value = 244.5000000000003
26288 lr_fit_density % intercept_error = 0.
26289 lr_fit_density % slope_value     = 15.5
26290 lr_fit_density % slope_error     = 0.
26291 lr_fit_density % error_rms       = 0.
26292
26293 call LyB_opacity % put ( pts_temp_lr = lr_fit_temp )
26294
26295 ! scale factors for density
26296 pts_density ( 1 ) = 1.e23
26297 pts_density ( 2 ) = 1.576e23
26298 pts_density ( 3 ) = 2.152e23
26299 pts_density ( 4 ) = 2.728e23
26300 pts_density ( 5 ) = 3.304e23
26301 pts_density ( 6 ) = 3.88e23
26302 pts_density ( 7 ) = 4.456e23
26303 pts_density ( 8 ) = 5.032e23
26304 pts_density ( 9 ) = 5.608e23
26305 pts_density ( 10 ) = 6.184e23
26306 pts_density ( 11 ) = 6.76e23
26307 pts_density ( 12 ) = 7.336e23
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26308 pts_density ( 13 ) = 7.912e23
26309 pts_density ( 14 ) = 8.488e23
26310 pts_density ( 15 ) = 9.064e23
26311 pts_density ( 16 ) = 9.64e23
26312 pts_density ( 17 ) = 1.0216e24
26313 pts_density ( 18 ) = 1.0792e24
26314 pts_density ( 19 ) = 1.1368e24
26315 pts_density ( 20 ) = 1.1944e24
26316 pts_density ( 21 ) = 1.252e24
26317 pts_density ( 22 ) = 1.3096e24
26318 pts_density ( 23 ) = 1.3672e24
26319 pts_density ( 24 ) = 1.4248e24
26320 pts_density ( 25 ) = 1.4824e24
26321 pts_density ( 26 ) = 1.54e24
26322 pts_density ( 27 ) = 1.5976e24
26323 pts_density ( 28 ) = 1.6552e24
26324 pts_density ( 29 ) = 1.7128e24
26325 pts_density ( 30 ) = 1.7704e24
26326 pts_density ( 31 ) = 1.828e24
26327 pts_density ( 32 ) = 1.8856e24
26328 pts_density ( 33 ) = 1.9432e24
26329 pts_density ( 34 ) = 2.0008e24
26330 pts_density ( 35 ) = 2.0584e24
26331 pts_density ( 36 ) = 2.116e24
26332 pts_density ( 37 ) = 2.1736e24
26333 pts_density ( 38 ) = 2.2312e24
26334 pts_density ( 39 ) = 2.2888e24
26335 pts_density ( 40 ) = 2.3464e24
26336 pts_density ( 41 ) = 2.404e24
26337 pts_density ( 42 ) = 2.4616e24
26338 pts_density ( 43 ) = 2.5192e24
26339 pts_density ( 44 ) = 2.5768e24
26340 pts_density ( 45 ) = 2.6344e24
26341 pts_density ( 46 ) = 2.692e24
26342 pts_density ( 47 ) = 2.7496e24
26343 pts_density ( 48 ) = 2.8072e24
26344 pts_density ( 49 ) = 2.8648e24
26345 pts_density ( 50 ) = 2.9224e24
26346 pts_density ( 51 ) = 2.98e24
26347
26348 call LyB_opacity % put ( pts_density = pts_density )
26349
26350 lr_fit_density % intercept_value = 4.239999999999925e22
26351 lr_fit_density % intercept_error = 1.6282460071720295e7
26352 lr_fit_density % slope_value      = 5.76e22
26353 lr_fit_density % slope_error      = 18240.24653292042
26354 lr_fit_density % error_rms        = 1.9756314628630587e8
26355
26356 call LyB_opacity % put ( pts_density_lr = lr_fit_density )
26357
26358 ! fit amplitudes describing surface for LyB_opacity
26359 amplitudes ( 1 ) = -0.0035929658813323335
26360 amplitudes ( 2 ) = 0.0022107606360902317
26361 amplitudes ( 3 ) = -0.0002948220398885388
26362 amplitudes ( 4 ) = -0.0004688918095472599
26363 amplitudes ( 5 ) = 0.0013147138281256457
26364 amplitudes ( 6 ) = 0.0016202756592560942
26365 amplitudes ( 7 ) = 0.00007127484860567962
26366 amplitudes ( 8 ) = -2.4317071307630202e-8
26367 amplitudes ( 9 ) = -0.0001400694314362224
26368 amplitudes ( 10 ) = -0.00041895038014205246
26369 amplitudes ( 11 ) = -6.414684042852506e-6
26370 amplitudes ( 12 ) = -1.844049642921526e-6
26371 amplitudes ( 13 ) = 4.816520778913878e-6
26372 amplitudes ( 14 ) = 9.673440867271448e-6
26373 amplitudes ( 15 ) = 0.00005122644528814144
26374 amplitudes ( 16 ) = 3.312024550173658e-7
26375 amplitudes ( 17 ) = 1.098856455341012e-7
26376 amplitudes ( 18 ) = -7.468789459765229e-8
26377 amplitudes ( 19 ) = -3.071547712052015e-7
26378 amplitudes ( 20 ) = -5.685130141530137e-7
26379 amplitudes ( 21 ) = -3.482826345496259e-6
26380 amplitudes ( 22 ) = -1.0104706603344734e-8
26381 amplitudes ( 23 ) = -2.3450359506788567e-9
26382 amplitudes ( 24 ) = -8.783000103638246e-10
26383 amplitudes ( 25 ) = 6.3507833236833924e-9
26384 amplitudes ( 26 ) = 9.241190457647743e-9
26385 amplitudes ( 27 ) = 2.481262999468821e-8
26386 amplitudes ( 28 ) = 1.4412207082481958e-7
```

```
26387 amplitudes ( 29 ) = 1.8578588387085324e-10
26388 amplitudes ( 30 ) = 2.2384811335858228e-12
26389 amplitudes ( 31 ) = 8.416932430716254e-11
26390 amplitudes ( 32 ) = -9.578745584848017e-11
26391 amplitudes ( 33 ) = -1.4909310085202013e-10
26392 amplitudes ( 34 ) = -1.7858182088679785e-10
26393 amplitudes ( 35 ) = -6.79068411259212e-10
26394 amplitudes ( 36 ) = -3.729611827741107e-9
26395 amplitudes ( 37 ) = -2.0243200923862828e-12
26396 amplitudes ( 38 ) = 5.384965415689877e-13
26397 amplitudes ( 39 ) = -1.767239549648408e-12
26398 amplitudes ( 40 ) = 1.1999132841278562e-12
26399 amplitudes ( 41 ) = 9.668475506728551e-13
26400 amplitudes ( 42 ) = 2.1409333218315252e-12
26401 amplitudes ( 43 ) = 2.6030811430742584e-12
26402 amplitudes ( 44 ) = 1.0566837463450225e-11
26403 amplitudes ( 45 ) = 5.908748343343503e-11
26404 amplitudes ( 46 ) = 1.204379134342024e-14
26405 amplitudes ( 47 ) = -6.598461797759197e-15
26406 amplitudes ( 48 ) = 1.4987033812338938e-14
26407 amplitudes ( 49 ) = -7.272516353567526e-15
26408 amplitudes ( 50 ) = -3.984993252794986e-15
26409 amplitudes ( 51 ) = -1.2648577361038803e-14
26410 amplitudes ( 52 ) = -9.721506870391285e-15
26411 amplitudes ( 53 ) = -3.085805260611748e-14
26412 amplitudes ( 54 ) = -8.233736586792945e-14
26413 amplitudes ( 55 ) = -5.248403821629785e-13
26414 amplitudes ( 56 ) = -3.015334749322208e-17
26415 amplitudes ( 57 ) = 2.407266601233364e-17
26416 amplitudes ( 58 ) = -4.394851445689577e-17
26417 amplitudes ( 59 ) = 6.375907066617878e-18
26418 amplitudes ( 60 ) = 3.3156277551061694e-17
26419 amplitudes ( 61 ) = -1.6420779452310278e-17
26420 amplitudes ( 62 ) = 9.142497849865817e-17
26421 amplitudes ( 63 ) = -3.4137048418738805e-17
26422 amplitudes ( 64 ) = 1.8956190888352212e-16
26423 amplitudes ( 65 ) = 2.3155512009029366e-16
26424 amplitudes ( 66 ) = 2.0034279068459612e-15
26425
26426 call LyB_opacity % put ( amplitudes = amplitudes )
26427
26428 ! errors in fit amplitudes describing surface for LyB_opacity
26429 errors ( 1 ) = 2.460366616020783e-7
26430 errors ( 2 ) = 9.01288367356389e-8
26431 errors ( 3 ) = 1.601777594572328e-7
26432 errors ( 4 ) = 1.6740503590545436e-8
26433 errors ( 5 ) = 2.1557944263075303e-8
26434 errors ( 6 ) = 4.7491364059153236e-8
26435 errors ( 7 ) = 1.6893877327023508e-9
26436 errors ( 8 ) = 1.9952806566379134e-9
26437 errors ( 9 ) = 3.280857884214449e-9
26438 errors ( 10 ) = 7.543125187065236e-9
26439 errors ( 11 ) = 1.0195473874632512e-10
26440 errors ( 12 ) = 1.1584426364164463e-10
26441 errors ( 13 ) = 1.7555103991576622e-10
26442 errors ( 14 ) = 3.061533824477476e-10
26443 errors ( 15 ) = 7.150333795870994e-10
26444 errors ( 16 ) = 3.887777547512504e-12
26445 errors ( 17 ) = 4.339900501484844e-12
26446 errors ( 18 ) = 6.318278197928092e-12
26447 errors ( 19 ) = 1.0197647500366716e-11
26448 errors ( 20 ) = 1.827942471362231e-11
26449 errors ( 21 ) = 4.2844565089907885e-11
26450 errors ( 22 ) = 9.597373715256505e-14
26451 errors ( 23 ) = 1.0701048158096619e-13
26452 errors ( 24 ) = 1.5180187933540933e-13
26453 errors ( 25 ) = 2.3595043844691947e-13
26454 errors ( 26 ) = 3.9216278775328757e-13
26455 errors ( 27 ) = 7.157113244066691e-13
26456 errors ( 28 ) = 1.6634533272086797e-12
26457 errors ( 29 ) = 1.5294297376555341e-15
26458 errors ( 30 ) = 1.734553875608008e-15
26459 errors ( 31 ) = 2.4170568771489704e-15
26460 errors ( 32 ) = 3.665479271293082e-15
26461 errors ( 33 ) = 5.8736750899098124e-15
26462 errors ( 34 ) = 9.953345462384461e-15
26463 errors ( 35 ) = 1.838626408246212e-14
26464 errors ( 36 ) = 4.172934366042466e-14
26465 errors ( 37 ) = 1.517826698914972e-17
```

```
26466 errors ( 38 ) = 1.788770436017525e-17
26467 errors ( 39 ) = 2.4805003397985932e-17
26468 errors ( 40 ) = 3.6890868757954434e-17
26469 errors ( 41 ) = 5.771121216885616e-17
26470 errors ( 42 ) = 9.436458788371625e-17
26471 errors ( 43 ) = 1.6243369379936056e-16
26472 errors ( 44 ) = 3.000960780739547e-16
26473 errors ( 45 ) = 6.524223918511197e-16
26474 errors ( 46 ) = 8.525625758316231e-20
26475 errors ( 47 ) = 1.0692282775700452e-19
26476 errors ( 48 ) = 1.5187209596341104e-19
26477 errors ( 49 ) = 2.2448765088960873e-19
26478 errors ( 50 ) = 3.4436511503812505e-19
26479 errors ( 51 ) = 5.499616600253681e-19
26480 errors ( 52 ) = 9.143904853236958e-19
26481 errors ( 53 ) = 1.5779838144271097e-18
26482 errors ( 54 ) = 2.835443825081928e-18
26483 errors ( 55 ) = 5.777132227008902e-18
26484 errors ( 56 ) = 2.0691811138709083e-22
26485 errors ( 57 ) = 2.8283677840110674e-22
26486 errors ( 58 ) = 4.332557070023913e-22
26487 errors ( 59 ) = 6.776663034163035e-22
26488 errors ( 60 ) = 1.0698769503266918e-21
26489 errors ( 61 ) = 1.7001294264682184e-21
26490 errors ( 62 ) = 2.7180878971598564e-21
26491 errors ( 63 ) = 4.376097297449151e-21
26492 errors ( 64 ) = 7.118377505373803e-21
26493 errors ( 65 ) = 1.1840674848367766e-20
26494 errors ( 66 ) = 2.2115529892512276e-20
26495
26496 call LyB_opacity % put ( errors = errors )
26497
26498 ! quality measures for surface fit
26499 sf_quality % error_norm_L1 = 0.08947125018795857
26500 sf_quality % error_norm_L2 = 0.017461247088066845
26501 sf_quality % error_norm_Linf = 0.026227906692433273
26502 sf_quality % error_maximum = 0.002457977568815495
26503 sf_quality % error_rms = 0.00042715295175900557
26504 sf_quality % condition_number = 3.053286452268271e20
26505
26506 call LyB_opacity % put ( sf_quality = sf_quality )
26507
26508 ! HELIOS output scaled
26509 array ( 1, 1 ) = 1.38546
26510 array ( 1, 2 ) = 1.6994
26511 array ( 1, 3 ) = 1.98706
26512 array ( 1, 4 ) = 2.26081
26513 array ( 1, 5 ) = 2.44878
26514 array ( 1, 6 ) = 2.55844
26515 array ( 1, 7 ) = 2.64133
26516 array ( 1, 8 ) = 2.71749
26517 array ( 1, 9 ) = 2.91765
26518 array ( 1, 10 ) = 3.12467
26519 array ( 1, 11 ) = 3.34197
26520 array ( 1, 12 ) = 3.56705
26521 array ( 1, 13 ) = 3.80019
26522 array ( 1, 14 ) = 4.08717
26523 array ( 1, 15 ) = 4.39343
26524 array ( 1, 16 ) = 4.71199
26525 array ( 1, 17 ) = 5.06809
26526 array ( 1, 18 ) = 5.4805
26527 array ( 1, 19 ) = 5.90792
26528 array ( 1, 20 ) = 6.34977
26529 array ( 1, 21 ) = 6.80449
26530 array ( 1, 22 ) = 7.27175
26531 array ( 1, 23 ) = 7.75176
26532 array ( 1, 24 ) = 8.2435
26533 array ( 1, 25 ) = 8.7463
26534 array ( 1, 26 ) = 9.25956
26535 array ( 1, 27 ) = 9.78311
26536 array ( 1, 28 ) = 10.3161
26537 array ( 1, 29 ) = 10.8594
26538 array ( 1, 30 ) = 11.4126
26539 array ( 1, 31 ) = 11.9732
26540 array ( 1, 32 ) = 12.5434
26541 array ( 1, 33 ) = 13.124
26542 array ( 1, 34 ) = 13.7111
26543 array ( 1, 35 ) = 14.3398
26544 array ( 1, 36 ) = 14.9776
```



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26545 array ( 1, 37 ) = 15.6256
26546 array ( 1, 38 ) = 16.2838
26547 array ( 1, 39 ) = 16.9476
26548 array ( 1, 40 ) = 17.6189
26549 array ( 1, 41 ) = 18.2978
26550 array ( 1, 42 ) = 18.9868
26551 array ( 1, 43 ) = 19.6848
26552 array ( 1, 44 ) = 20.3863
26553 array ( 1, 45 ) = 21.0948
26554 array ( 1, 46 ) = 21.8101
26555 array ( 1, 47 ) = 22.5357
26556 array ( 1, 48 ) = 23.2683
26557 array ( 1, 49 ) = 24.0035
26558 array ( 1, 50 ) = 24.7478
26559 array ( 1, 51 ) = 25.5004
26560 array ( 2, 1 ) = 1.57484
26561 array ( 2, 2 ) = 1.96789
26562 array ( 2, 3 ) = 2.32297
26563 array ( 2, 4 ) = 2.64348
26564 array ( 2, 5 ) = 2.86955
26565 array ( 2, 6 ) = 3.0165
26566 array ( 2, 7 ) = 3.12979
26567 array ( 2, 8 ) = 3.23323
26568 array ( 2, 9 ) = 3.4478
26569 array ( 2, 10 ) = 3.66605
26570 array ( 2, 11 ) = 3.89382
26571 array ( 2, 12 ) = 4.1279
26572 array ( 2, 13 ) = 4.36904
26573 array ( 2, 14 ) = 4.66165
26574 array ( 2, 15 ) = 4.97234
26575 array ( 2, 16 ) = 5.29503
26576 array ( 2, 17 ) = 5.6532
26577 array ( 2, 18 ) = 6.06491
26578 array ( 2, 19 ) = 6.49169
26579 array ( 2, 20 ) = 6.93248
26580 array ( 2, 21 ) = 7.38635
26581 array ( 2, 22 ) = 7.85299
26582 array ( 2, 23 ) = 8.33175
26583 array ( 2, 24 ) = 8.82237
26584 array ( 2, 25 ) = 9.32412
26585 array ( 2, 26 ) = 9.83651
26586 array ( 2, 27 ) = 10.3593
26587 array ( 2, 28 ) = 10.8916
26588 array ( 2, 29 ) = 11.4339
26589 array ( 2, 30 ) = 11.9859
26590 array ( 2, 31 ) = 12.5458
26591 array ( 2, 32 ) = 13.1152
26592 array ( 2, 33 ) = 13.6945
26593 array ( 2, 34 ) = 14.2812
26594 array ( 2, 35 ) = 14.9044
26595 array ( 2, 36 ) = 15.5356
26596 array ( 2, 37 ) = 16.1769
26597 array ( 2, 38 ) = 16.8284
26598 array ( 2, 39 ) = 17.4865
26599 array ( 2, 40 ) = 18.1522
26600 array ( 2, 41 ) = 18.8249
26601 array ( 2, 42 ) = 19.5075
26602 array ( 2, 43 ) = 20.1989
26603 array ( 2, 44 ) = 20.8933
26604 array ( 2, 45 ) = 21.5957
26605 array ( 2, 46 ) = 22.3061
26606 array ( 2, 47 ) = 23.0252
26607 array ( 2, 48 ) = 23.7509
26608 array ( 2, 49 ) = 24.4798
26609 array ( 2, 50 ) = 25.2174
26610 array ( 2, 51 ) = 25.9632
26611 array ( 3, 1 ) = 1.76422
26612 array ( 3, 2 ) = 2.23639
26613 array ( 3, 3 ) = 2.65887
26614 array ( 3, 4 ) = 3.02615
26615 array ( 3, 5 ) = 3.29032
26616 array ( 3, 6 ) = 3.47456
26617 array ( 3, 7 ) = 3.61826
26618 array ( 3, 8 ) = 3.74897
26619 array ( 3, 9 ) = 3.97794
26620 array ( 3, 10 ) = 4.20743
26621 array ( 3, 11 ) = 4.44568
26622 array ( 3, 12 ) = 4.68875
26623 array ( 3, 13 ) = 4.9379
```

```
26624 array ( 3, 14 ) = 5.23614
26625 array ( 3, 15 ) = 5.55124
26626 array ( 3, 16 ) = 5.87808
26627 array ( 3, 17 ) = 6.2383
26628 array ( 3, 18 ) = 6.64933
26629 array ( 3, 19 ) = 7.07546
26630 array ( 3, 20 ) = 7.51519
26631 array ( 3, 21 ) = 7.96821
26632 array ( 3, 22 ) = 8.43422
26633 array ( 3, 23 ) = 8.91174
26634 array ( 3, 24 ) = 9.40123
26635 array ( 3, 25 ) = 9.90194
26636 array ( 3, 26 ) = 10.4135
26637 array ( 3, 27 ) = 10.9355
26638 array ( 3, 28 ) = 11.467
26639 array ( 3, 29 ) = 12.0083
26640 array ( 3, 30 ) = 12.5591
26641 array ( 3, 31 ) = 13.1184
26642 array ( 3, 32 ) = 13.687
26643 array ( 3, 33 ) = 14.265
26644 array ( 3, 34 ) = 14.8513
26645 array ( 3, 35 ) = 15.469
26646 array ( 3, 36 ) = 16.0937
26647 array ( 3, 37 ) = 16.7283
26648 array ( 3, 38 ) = 17.3729
26649 array ( 3, 39 ) = 18.0254
26650 array ( 3, 40 ) = 18.6856
26651 array ( 3, 41 ) = 19.3521
26652 array ( 3, 42 ) = 20.0282
26653 array ( 3, 43 ) = 20.7129
26654 array ( 3, 44 ) = 21.4004
26655 array ( 3, 45 ) = 22.0966
26656 array ( 3, 46 ) = 22.8021
26657 array ( 3, 47 ) = 23.5147
26658 array ( 3, 48 ) = 24.2336
26659 array ( 3, 49 ) = 24.9561
26660 array ( 3, 50 ) = 25.6871
26661 array ( 3, 51 ) = 26.426
26662 array ( 4, 1 ) = 1.93696
26663 array ( 4, 2 ) = 2.49129
26664 array ( 4, 3 ) = 2.9855
26665 array ( 4, 4 ) = 3.40556
26666 array ( 4, 5 ) = 3.71328
26667 array ( 4, 6 ) = 3.93963
26668 array ( 4, 7 ) = 4.11768
26669 array ( 4, 8 ) = 4.27913
26670 array ( 4, 9 ) = 4.52576
26671 array ( 4, 10 ) = 4.7692
26672 array ( 4, 11 ) = 5.02036
26673 array ( 4, 12 ) = 5.27436
26674 array ( 4, 13 ) = 5.53318
26675 array ( 4, 14 ) = 5.83831
26676 array ( 4, 15 ) = 6.1586
26677 array ( 4, 16 ) = 6.49039
26678 array ( 4, 17 ) = 6.85358
26679 array ( 4, 18 ) = 7.2644
26680 array ( 4, 19 ) = 7.6903
26681 array ( 4, 20 ) = 8.12944
26682 array ( 4, 21 ) = 8.58171
26683 array ( 4, 22 ) = 9.04695
26684 array ( 4, 23 ) = 9.52317
26685 array ( 4, 24 ) = 10.0114
26686 array ( 4, 25 ) = 10.5108
26687 array ( 4, 26 ) = 11.0211
26688 array ( 4, 27 ) = 11.542
26689 array ( 4, 28 ) = 12.0722
26690 array ( 4, 29 ) = 12.6122
26691 array ( 4, 30 ) = 13.1615
26692 array ( 4, 31 ) = 13.7197
26693 array ( 4, 32 ) = 14.2871
26694 array ( 4, 33 ) = 14.8634
26695 array ( 4, 34 ) = 15.4483
26696 array ( 4, 35 ) = 16.0597
26697 array ( 4, 36 ) = 16.6778
26698 array ( 4, 37 ) = 17.3057
26699 array ( 4, 38 ) = 17.9435
26700 array ( 4, 39 ) = 18.5899
26701 array ( 4, 40 ) = 19.2439
26702 array ( 4, 41 ) = 19.9041
```

```
26703 array ( 4, 42 ) = 20.5731
26704 array ( 4, 43 ) = 21.2504
26705 array ( 4, 44 ) = 21.9319
26706 array ( 4, 45 ) = 22.622
26707 array ( 4, 46 ) = 23.3211
26708 array ( 4, 47 ) = 24.0265
26709 array ( 4, 48 ) = 24.7381
26710 array ( 4, 49 ) = 25.454
26711 array ( 4, 50 ) = 26.178
26712 array ( 4, 51 ) = 26.9097
26713 array ( 5, 1 ) = 2.08667
26714 array ( 5, 2 ) = 2.72736
26715 array ( 5, 3 ) = 3.29927
26716 array ( 5, 4 ) = 3.78043
26717 array ( 5, 5 ) = 4.13929
26718 array ( 5, 6 ) = 4.41439
26719 array ( 5, 7 ) = 4.63228
26720 array ( 5, 8 ) = 4.82928
26721 array ( 5, 9 ) = 5.09804
26722 array ( 5, 10 ) = 5.35922
26723 array ( 5, 11 ) = 5.62663
26724 array ( 5, 12 ) = 5.89425
26725 array ( 5, 13 ) = 6.16506
26726 array ( 5, 14 ) = 6.47882
26727 array ( 5, 15 ) = 6.80534
26728 array ( 5, 16 ) = 7.14323
26729 array ( 5, 17 ) = 7.51065
26730 array ( 5, 18 ) = 7.92193
26731 array ( 5, 19 ) = 8.34816
26732 array ( 5, 20 ) = 8.78736
26733 array ( 5, 21 ) = 9.23902
26734 array ( 5, 22 ) = 9.70329
26735 array ( 5, 23 ) = 10.1781
26736 array ( 5, 24 ) = 10.6649
26737 array ( 5, 25 ) = 11.1626
26738 array ( 5, 26 ) = 11.6711
26739 array ( 5, 27 ) = 12.1903
26740 array ( 5, 28 ) = 12.7186
26741 array ( 5, 29 ) = 13.2567
26742 array ( 5, 30 ) = 13.8042
26743 array ( 5, 31 ) = 14.3607
26744 array ( 5, 32 ) = 14.9263
26745 array ( 5, 33 ) = 15.5005
26746 array ( 5, 34 ) = 16.0827
26747 array ( 5, 35 ) = 16.6866
26748 array ( 5, 36 ) = 17.298
26749 array ( 5, 37 ) = 17.9193
26750 array ( 5, 38 ) = 18.5502
26751 array ( 5, 39 ) = 19.1897
26752 array ( 5, 40 ) = 19.837
26753 array ( 5, 41 ) = 20.4905
26754 array ( 5, 42 ) = 21.1516
26755 array ( 5, 43 ) = 21.8202
26756 array ( 5, 44 ) = 22.4973
26757 array ( 5, 45 ) = 23.1813
26758 array ( 5, 46 ) = 23.8717
26759 array ( 5, 47 ) = 24.5691
26760 array ( 5, 48 ) = 25.2731
26761 array ( 5, 49 ) = 25.982
26762 array ( 5, 50 ) = 26.6985
26763 array ( 5, 51 ) = 27.4223
26764 array ( 6, 1 ) = 2.23638
26765 array ( 6, 2 ) = 2.96342
26766 array ( 6, 3 ) = 3.61305
26767 array ( 6, 4 ) = 4.1553
26768 array ( 6, 5 ) = 4.56529
26769 array ( 6, 6 ) = 4.88915
26770 array ( 6, 7 ) = 5.14687
26771 array ( 6, 8 ) = 5.37943
26772 array ( 6, 9 ) = 5.67032
26773 array ( 6, 10 ) = 5.94924
26774 array ( 6, 11 ) = 6.2329
26775 array ( 6, 12 ) = 6.51413
26776 array ( 6, 13 ) = 6.79694
26777 array ( 6, 14 ) = 7.11932
26778 array ( 6, 15 ) = 7.45209
26779 array ( 6, 16 ) = 7.79606
26780 array ( 6, 17 ) = 8.16772
26781 array ( 6, 18 ) = 8.57947
```

```
26782 array ( 6, 19 ) = 9.00602
26783 array ( 6, 20 ) = 9.44528
26784 array ( 6, 21 ) = 9.89633
26785 array ( 6, 22 ) = 10.3596
26786 array ( 6, 23 ) = 10.8331
26787 array ( 6, 24 ) = 11.3184
26788 array ( 6, 25 ) = 11.8144
26789 array ( 6, 26 ) = 12.3211
26790 array ( 6, 27 ) = 12.8386
26791 array ( 6, 28 ) = 13.365
26792 array ( 6, 29 ) = 13.9012
26793 array ( 6, 30 ) = 14.4468
26794 array ( 6, 31 ) = 15.0017
26795 array ( 6, 32 ) = 15.5655
26796 array ( 6, 33 ) = 16.1376
26797 array ( 6, 34 ) = 16.717
26798 array ( 6, 35 ) = 17.3135
26799 array ( 6, 36 ) = 17.9183
26800 array ( 6, 37 ) = 18.5328
26801 array ( 6, 38 ) = 19.1568
26802 array ( 6, 39 ) = 19.7895
26803 array ( 6, 40 ) = 20.43
26804 array ( 6, 41 ) = 21.077
26805 array ( 6, 42 ) = 21.7301
26806 array ( 6, 43 ) = 22.39
26807 array ( 6, 44 ) = 23.0627
26808 array ( 6, 45 ) = 23.7406
26809 array ( 6, 46 ) = 24.4223
26810 array ( 6, 47 ) = 25.1117
26811 array ( 6, 48 ) = 25.808
26812 array ( 6, 49 ) = 26.5099
26813 array ( 6, 50 ) = 27.2189
26814 array ( 6, 51 ) = 27.9349
26815 array ( 7, 1 ) = 2.3561
26816 array ( 7, 2 ) = 3.16611
26817 array ( 7, 3 ) = 3.89343
26818 array ( 7, 4 ) = 4.50205
26819 array ( 7, 5 ) = 4.9693
26820 array ( 7, 6 ) = 5.34786
26821 array ( 7, 7 ) = 5.65182
26822 array ( 7, 8 ) = 5.92633
26823 array ( 7, 9 ) = 6.24635
26824 array ( 7, 10 ) = 6.54842
26825 array ( 7, 11 ) = 6.85362
26826 array ( 7, 12 ) = 7.15385
26827 array ( 7, 13 ) = 7.45313
26828 array ( 7, 14 ) = 7.78789
26829 array ( 7, 15 ) = 8.13017
26830 array ( 7, 16 ) = 8.48267
26831 array ( 7, 17 ) = 8.86009
26832 array ( 7, 18 ) = 9.27417
26833 array ( 7, 19 ) = 9.70263
26834 array ( 7, 20 ) = 10.1426
26835 array ( 7, 21 ) = 10.5942
26836 array ( 7, 22 ) = 11.058
26837 array ( 7, 23 ) = 11.531
26838 array ( 7, 24 ) = 12.0157
26839 array ( 7, 25 ) = 12.5109
26840 array ( 7, 26 ) = 13.0168
26841 array ( 7, 27 ) = 13.5333
26842 array ( 7, 28 ) = 14.0576
26843 array ( 7, 29 ) = 14.5922
26844 array ( 7, 30 ) = 15.1367
26845 array ( 7, 31 ) = 15.6893
26846 array ( 7, 32 ) = 16.2508
26847 array ( 7, 33 ) = 16.8204
26848 array ( 7, 34 ) = 17.3974
26849 array ( 7, 35 ) = 17.9872
26850 array ( 7, 36 ) = 18.5861
26851 array ( 7, 37 ) = 19.1939
26852 array ( 7, 38 ) = 19.8103
26853 array ( 7, 39 ) = 20.4351
26854 array ( 7, 40 ) = 21.0681
26855 array ( 7, 41 ) = 21.7086
26856 array ( 7, 42 ) = 22.3551
26857 array ( 7, 43 ) = 23.0082
26858 array ( 7, 44 ) = 23.672
26859 array ( 7, 45 ) = 24.342
26860 array ( 7, 46 ) = 25.0177
```

```
26861 array ( 7, 47 ) = 25.6996
26862 array ( 7, 48 ) = 26.3882
26863 array ( 7, 49 ) = 27.0838
26864 array ( 7, 50 ) = 27.7859
26865 array ( 7, 51 ) = 28.4944
26866 array ( 8, 1 ) = 2.47006
26867 array ( 8, 2 ) = 3.36238
26868 array ( 8, 3 ) = 4.16739
26869 array ( 8, 4 ) = 4.84338
26870 array ( 8, 5 ) = 5.36907
26871 array ( 8, 6 ) = 5.80349
26872 array ( 8, 7 ) = 6.15492
26873 array ( 8, 8 ) = 6.4726
26874 array ( 8, 9 ) = 6.8231
26875 array ( 8, 10 ) = 7.14936
26876 array ( 8, 11 ) = 7.47713
26877 array ( 8, 12 ) = 7.79738
26878 array ( 8, 13 ) = 8.11399
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27966 array ( 29, 30 ) = 37.4791
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28512 array ( 40, 15 ) = 36.7712
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28516 array ( 40, 19 ) = 42.4574
28517 array ( 40, 20 ) = 43.7162
28518 array ( 40, 21 ) = 44.9306
28519 array ( 40, 22 ) = 46.1178
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28523 array ( 40, 26 ) = 50.4689
28524 array ( 40, 27 ) = 51.4869
28525 array ( 40, 28 ) = 52.4629
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29624 array ( 62, 5 ) = 13.642
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30140 array ( 72, 11 ) = 21.4169
30141 array ( 72, 12 ) = 23.2231
30142 array ( 72, 13 ) = 25.0406
30143 array ( 72, 14 ) = 26.8433
30144 array ( 72, 15 ) = 28.6515
30145 array ( 72, 16 ) = 30.4601
30146 array ( 72, 17 ) = 32.2492
30147 array ( 72, 18 ) = 34.0071
30148 array ( 72, 19 ) = 35.7576
30149 array ( 72, 20 ) = 37.5012
30150 array ( 72, 21 ) = 39.2361
30151 array ( 72, 22 ) = 40.9621
30152 array ( 72, 23 ) = 42.6734
30153 array ( 72, 24 ) = 44.3727
30154 array ( 72, 25 ) = 46.0584
30155 array ( 72, 26 ) = 47.7284
30156 array ( 72, 27 ) = 49.3863
30157 array ( 72, 28 ) = 51.0269
30158 array ( 72, 29 ) = 52.6542
30159 array ( 72, 30 ) = 54.2694
30160 array ( 72, 31 ) = 55.8619
30161 array ( 72, 32 ) = 57.4406
30162 array ( 72, 33 ) = 59.0005
30163 array ( 72, 34 ) = 60.5436
30164 array ( 72, 35 ) = 61.8602
30165 array ( 72, 36 ) = 63.1511
30166 array ( 72, 37 ) = 64.4211
30167 array ( 72, 38 ) = 65.6697
30168 array ( 72, 39 ) = 66.8944
30169 array ( 72, 40 ) = 68.1032
30170 array ( 72, 41 ) = 69.2899
30171 array ( 72, 42 ) = 70.4578
30172 array ( 72, 43 ) = 71.6111
30173 array ( 72, 44 ) = 72.7349
30174 array ( 72, 45 ) = 73.8452
30175 array ( 72, 46 ) = 74.9397
30176 array ( 72, 47 ) = 76.0097
30177 array ( 72, 48 ) = 77.0653
30178 array ( 72, 49 ) = 78.1005
```

```
30179 array ( 72, 50 ) = 79.1181
30180 array ( 72, 51 ) = 80.1209
30181 array ( 73, 1 ) = 3.70763
30182 array ( 73, 2 ) = 5.44186
30183 array ( 73, 3 ) = 7.16082
30184 array ( 73, 4 ) = 8.85653
30185 array ( 73, 5 ) = 10.5551
30186 array ( 73, 6 ) = 12.2461
30187 array ( 73, 7 ) = 13.9582
30188 array ( 73, 8 ) = 15.6885
30189 array ( 73, 9 ) = 17.4179
30190 array ( 73, 10 ) = 19.1656
30191 array ( 73, 11 ) = 20.92
30192 array ( 73, 12 ) = 22.6923
30193 array ( 73, 13 ) = 24.4751
30194 array ( 73, 14 ) = 26.2435
30195 array ( 73, 15 ) = 28.0209
30196 array ( 73, 16 ) = 29.8004
30197 array ( 73, 17 ) = 31.5629
30198 array ( 73, 18 ) = 33.2948
30199 array ( 73, 19 ) = 35.0203
30200 array ( 73, 20 ) = 36.7415
30201 array ( 73, 21 ) = 38.4569
30202 array ( 73, 22 ) = 40.165
30203 array ( 73, 23 ) = 41.8582
30204 array ( 73, 24 ) = 43.5411
30205 array ( 73, 25 ) = 45.2132
30206 array ( 73, 26 ) = 46.8699
30207 array ( 73, 27 ) = 48.5153
30208 array ( 73, 28 ) = 50.1466
30209 array ( 73, 29 ) = 51.765
30210 array ( 73, 30 ) = 53.3718
30211 array ( 73, 31 ) = 54.9578
30212 array ( 73, 32 ) = 56.5305
30213 array ( 73, 33 ) = 58.0856
30214 array ( 73, 34 ) = 59.6273
30215 array ( 73, 35 ) = 60.9459
30216 array ( 73, 36 ) = 62.235
30217 array ( 73, 37 ) = 63.505
30218 array ( 73, 38 ) = 64.7555
30219 array ( 73, 39 ) = 65.9852
30220 array ( 73, 40 ) = 67.1985
30221 array ( 73, 41 ) = 68.3868
30222 array ( 73, 42 ) = 69.5611
30223 array ( 73, 43 ) = 70.7233
30224 array ( 73, 44 ) = 71.8518
30225 array ( 73, 45 ) = 72.9686
30226 array ( 73, 46 ) = 74.0721
30227 array ( 73, 47 ) = 75.1478
30228 array ( 73, 48 ) = 76.2094
30229 array ( 73, 49 ) = 77.2556
30230 array ( 73, 50 ) = 78.2814
30231 array ( 73, 51 ) = 79.2901
30232 array ( 74, 1 ) = 3.62488
30233 array ( 74, 2 ) = 5.31763
30234 array ( 74, 3 ) = 6.99535
30235 array ( 74, 4 ) = 8.65023
30236 array ( 74, 5 ) = 10.3085
30237 array ( 74, 6 ) = 11.9597
30238 array ( 74, 7 ) = 13.6321
30239 array ( 74, 8 ) = 15.3226
30240 array ( 74, 9 ) = 17.0128
30241 array ( 74, 10 ) = 18.7242
30242 array ( 74, 11 ) = 20.4429
30243 array ( 74, 12 ) = 22.1797
30244 array ( 74, 13 ) = 23.9273
30245 array ( 74, 14 ) = 25.6617
30246 array ( 74, 15 ) = 27.4078
30247 array ( 74, 16 ) = 29.1565
30248 array ( 74, 17 ) = 30.8892
30249 array ( 74, 18 ) = 32.5953
30250 array ( 74, 19 ) = 34.2959
30251 array ( 74, 20 ) = 35.9928
30252 array ( 74, 21 ) = 37.6855
30253 array ( 74, 22 ) = 39.3721
30254 array ( 74, 23 ) = 41.0466
30255 array ( 74, 24 ) = 42.7114
30256 array ( 74, 25 ) = 44.3661
30257 array ( 74, 26 ) = 46.0077
```

```
30258 array ( 74, 27 ) = 47.6388
30259 array ( 74, 28 ) = 49.2568
30260 array ( 74, 29 ) = 50.8633
30261 array ( 74, 30 ) = 52.4591
30262 array ( 74, 31 ) = 54.0363
30263 array ( 74, 32 ) = 55.601
30264 array ( 74, 33 ) = 57.149
30265 array ( 74, 34 ) = 58.6838
30266 array ( 74, 35 ) = 59.9985
30267 array ( 74, 36 ) = 61.2853
30268 array ( 74, 37 ) = 62.5547
30269 array ( 74, 38 ) = 63.8066
30270 array ( 74, 39 ) = 65.0383
30271 array ( 74, 40 ) = 66.2535
30272 array ( 74, 41 ) = 67.4437
30273 array ( 74, 42 ) = 68.6197
30274 array ( 74, 43 ) = 69.7837
30275 array ( 74, 44 ) = 70.917
30276 array ( 74, 45 ) = 72.0383
30277 array ( 74, 46 ) = 73.1457
30278 array ( 74, 47 ) = 74.2266
30279 array ( 74, 48 ) = 75.2938
30280 array ( 74, 49 ) = 76.3462
30281 array ( 74, 50 ) = 77.3788
30282 array ( 74, 51 ) = 78.3948
30283 array ( 75, 1 ) = 3.54333
30284 array ( 75, 2 ) = 5.19552
30285 array ( 75, 3 ) = 6.83284
30286 array ( 75, 4 ) = 8.44756
30287 array ( 75, 5 ) = 10.0661
30288 array ( 75, 6 ) = 11.678
30289 array ( 75, 7 ) = 13.3116
30290 array ( 75, 8 ) = 14.9626
30291 array ( 75, 9 ) = 16.613
30292 array ( 75, 10 ) = 18.2892
30293 array ( 75, 11 ) = 19.9726
30294 array ( 75, 12 ) = 21.6733
30295 array ( 75, 13 ) = 23.3857
30296 array ( 75, 14 ) = 25.0861
30297 array ( 75, 15 ) = 26.8009
30298 array ( 75, 16 ) = 28.5181
30299 array ( 75, 17 ) = 30.2197
30300 array ( 75, 18 ) = 31.9003
30301 array ( 75, 19 ) = 33.5761
30302 array ( 75, 20 ) = 35.2479
30303 array ( 75, 21 ) = 36.9169
30304 array ( 75, 22 ) = 38.5806
30305 array ( 75, 23 ) = 40.2364
30306 array ( 75, 24 ) = 41.8824
30307 array ( 75, 25 ) = 43.5184
30308 array ( 75, 26 ) = 45.1442
30309 array ( 75, 27 ) = 46.7604
30310 array ( 75, 28 ) = 48.3637
30311 array ( 75, 29 ) = 49.9571
30312 array ( 75, 30 ) = 51.5411
30313 array ( 75, 31 ) = 53.1088
30314 array ( 75, 32 ) = 54.6646
30315 array ( 75, 33 ) = 56.205
30316 array ( 75, 34 ) = 57.731
30317 array ( 75, 35 ) = 59.0395
30318 array ( 75, 36 ) = 60.3238
30319 array ( 75, 37 ) = 61.5925
30320 array ( 75, 38 ) = 62.8456
30321 array ( 75, 39 ) = 64.0782
30322 array ( 75, 40 ) = 65.2946
30323 array ( 75, 41 ) = 66.4865
30324 array ( 75, 42 ) = 67.6627
30325 array ( 75, 43 ) = 68.826
30326 array ( 75, 44 ) = 69.9642
30327 array ( 75, 45 ) = 71.0893
30328 array ( 75, 46 ) = 72.1989
30329 array ( 75, 47 ) = 73.2848
30330 array ( 75, 48 ) = 74.3574
30331 array ( 75, 49 ) = 75.4144
30332 array ( 75, 50 ) = 76.4533
30333 array ( 75, 51 ) = 77.477
30334 array ( 76, 1 ) = 3.46258
30335 array ( 76, 2 ) = 5.07472
30336 array ( 76, 3 ) = 6.67214
```



```
30337 array ( 76, 4 ) = 8.2472
30338 array ( 76, 5 ) = 9.82637
30339 array ( 76, 6 ) = 11.3994
30340 array ( 76, 7 ) = 12.9945
30341 array ( 76, 8 ) = 14.6064
30342 array ( 76, 9 ) = 16.2177
30343 array ( 76, 10 ) = 17.8584
30344 array ( 76, 11 ) = 19.5064
30345 array ( 76, 12 ) = 21.1714
30346 array ( 76, 13 ) = 22.8489
30347 array ( 76, 14 ) = 24.5154
30348 array ( 76, 15 ) = 26.1986
30349 array ( 76, 16 ) = 27.8843
30350 array ( 76, 17 ) = 29.5551
30351 array ( 76, 18 ) = 31.2097
30352 array ( 76, 19 ) = 32.8603
30353 array ( 76, 20 ) = 34.5071
30354 array ( 76, 21 ) = 36.1521
30355 array ( 76, 22 ) = 37.7924
30356 array ( 76, 23 ) = 39.4289
30357 array ( 76, 24 ) = 41.0558
30358 array ( 76, 25 ) = 42.6729
30359 array ( 76, 26 ) = 44.2823
30360 array ( 76, 27 ) = 45.8829
30361 array ( 76, 28 ) = 47.4713
30362 array ( 76, 29 ) = 49.0512
30363 array ( 76, 30 ) = 50.6228
30364 array ( 76, 31 ) = 52.1802
30365 array ( 76, 32 ) = 53.7266
30366 array ( 76, 33 ) = 55.2587
30367 array ( 76, 34 ) = 56.7758
30368 array ( 76, 35 ) = 58.0785
30369 array ( 76, 36 ) = 59.3598
30370 array ( 76, 37 ) = 60.627
30371 array ( 76, 38 ) = 61.8802
30372 array ( 76, 39 ) = 63.1128
30373 array ( 76, 40 ) = 64.3294
30374 array ( 76, 41 ) = 65.5226
30375 array ( 76, 42 ) = 66.6988
30376 array ( 76, 43 ) = 67.8613
30377 array ( 76, 44 ) = 69.0042
30378 array ( 76, 45 ) = 70.1327
30379 array ( 76, 46 ) = 71.2442
30380 array ( 76, 47 ) = 72.3344
30381 array ( 76, 48 ) = 73.4118
30382 array ( 76, 49 ) = 74.4731
30383 array ( 76, 50 ) = 75.5178
30384 array ( 76, 51 ) = 76.5484
30385 array ( 77, 1 ) = 3.38601
30386 array ( 77, 2 ) = 4.96073
30387 array ( 77, 3 ) = 6.52087
30388 array ( 77, 4 ) = 8.05886
30389 array ( 77, 5 ) = 9.60083
30390 array ( 77, 6 ) = 11.1369
30391 array ( 77, 7 ) = 12.6951
30392 array ( 77, 8 ) = 14.2704
30393 array ( 77, 9 ) = 15.846
30394 array ( 77, 10 ) = 17.4496
30395 array ( 77, 11 ) = 19.0616
30396 array ( 77, 12 ) = 20.6926
30397 array ( 77, 13 ) = 22.3366
30398 array ( 77, 14 ) = 23.9704
30399 array ( 77, 15 ) = 25.6201
30400 array ( 77, 16 ) = 27.274
30401 array ( 77, 17 ) = 28.9154
30402 array ( 77, 18 ) = 30.5423
30403 array ( 77, 19 ) = 32.166
30404 array ( 77, 20 ) = 33.7875
30405 array ( 77, 21 ) = 35.4068
30406 array ( 77, 22 ) = 37.0214
30407 array ( 77, 23 ) = 38.636
30408 array ( 77, 24 ) = 40.2419
30409 array ( 77, 25 ) = 41.839
30410 array ( 77, 26 ) = 43.4286
30411 array ( 77, 27 ) = 45.0103
30412 array ( 77, 28 ) = 46.5828
30413 array ( 77, 29 ) = 48.1468
30414 array ( 77, 30 ) = 49.7027
30415 array ( 77, 31 ) = 51.2461
```

```
30416 array ( 77, 32 ) = 52.7794
30417 array ( 77, 33 ) = 54.3003
30418 array ( 77, 34 ) = 55.8089
30419 array ( 77, 35 ) = 57.1068
30420 array ( 77, 36 ) = 58.3825
30421 array ( 77, 37 ) = 59.6442
30422 array ( 77, 38 ) = 60.892
30423 array ( 77, 39 ) = 62.1196
30424 array ( 77, 40 ) = 63.332
30425 array ( 77, 41 ) = 64.5232
30426 array ( 77, 42 ) = 65.6984
30427 array ( 77, 43 ) = 66.8607
30428 array ( 77, 44 ) = 68.0068
30429 array ( 77, 45 ) = 69.1371
30430 array ( 77, 46 ) = 70.2485
30431 array ( 77, 47 ) = 71.3393
30432 array ( 77, 48 ) = 72.4178
30433 array ( 77, 49 ) = 73.4827
30434 array ( 77, 50 ) = 74.5304
30435 array ( 77, 51 ) = 75.5634
30436 array ( 78, 1 ) = 3.30943
30437 array ( 78, 2 ) = 4.84675
30438 array ( 78, 3 ) = 6.3696
30439 array ( 78, 4 ) = 7.87053
30440 array ( 78, 5 ) = 9.37528
30441 array ( 78, 6 ) = 10.8744
30442 array ( 78, 7 ) = 12.3957
30443 array ( 78, 8 ) = 13.9344
30444 array ( 78, 9 ) = 15.4742
30445 array ( 78, 10 ) = 17.0408
30446 array ( 78, 11 ) = 18.6167
30447 array ( 78, 12 ) = 20.2138
30448 array ( 78, 13 ) = 21.8243
30449 array ( 78, 14 ) = 23.4254
30450 array ( 78, 15 ) = 25.0416
30451 array ( 78, 16 ) = 26.6638
30452 array ( 78, 17 ) = 28.2756
30453 array ( 78, 18 ) = 29.8749
30454 array ( 78, 19 ) = 31.4718
30455 array ( 78, 20 ) = 33.0679
30456 array ( 78, 21 ) = 34.6616
30457 array ( 78, 22 ) = 36.2505
30458 array ( 78, 23 ) = 37.8432
30459 array ( 78, 24 ) = 39.4279
30460 array ( 78, 25 ) = 41.005
30461 array ( 78, 26 ) = 42.5749
30462 array ( 78, 27 ) = 44.1376
30463 array ( 78, 28 ) = 45.6942
30464 array ( 78, 29 ) = 47.2424
30465 array ( 78, 30 ) = 48.7826
30466 array ( 78, 31 ) = 50.312
30467 array ( 78, 32 ) = 51.8323
30468 array ( 78, 33 ) = 53.342
30469 array ( 78, 34 ) = 54.8419
30470 array ( 78, 35 ) = 56.1351
30471 array ( 78, 36 ) = 57.4052
30472 array ( 78, 37 ) = 58.6614
30473 array ( 78, 38 ) = 59.9037
30474 array ( 78, 39 ) = 61.1264
30475 array ( 78, 40 ) = 62.3347
30476 array ( 78, 41 ) = 63.5239
30477 array ( 78, 42 ) = 64.6981
30478 array ( 78, 43 ) = 65.86
30479 array ( 78, 44 ) = 67.0093
30480 array ( 78, 45 ) = 68.1415
30481 array ( 78, 46 ) = 69.2528
30482 array ( 78, 47 ) = 70.3442
30483 array ( 78, 48 ) = 71.4239
30484 array ( 78, 49 ) = 72.4923
30485 array ( 78, 50 ) = 73.5429
30486 array ( 78, 51 ) = 74.5784
30487 array ( 79, 1 ) = 3.23577
30488 array ( 79, 2 ) = 4.7376
30489 array ( 79, 3 ) = 6.22497
30490 array ( 79, 4 ) = 7.69043
30491 array ( 79, 5 ) = 9.15923
30492 array ( 79, 6 ) = 10.6227
30493 array ( 79, 7 ) = 12.1091
30494 array ( 79, 8 ) = 13.6127
```

```
30495 array ( 79, 9 ) = 15.1177
30496 array ( 79, 10 ) = 16.6493
30497 array ( 79, 11 ) = 18.1901
30498 array ( 79, 12 ) = 19.7517
30499 array ( 79, 13 ) = 21.3283
30500 array ( 79, 14 ) = 22.8966
30501 array ( 79, 15 ) = 24.4804
30502 array ( 79, 16 ) = 26.0711
30503 array ( 79, 17 ) = 27.6531
30504 array ( 79, 18 ) = 29.2246
30505 array ( 79, 19 ) = 30.7944
30506 array ( 79, 20 ) = 32.3648
30507 array ( 79, 21 ) = 33.9332
30508 array ( 79, 22 ) = 35.4972
30509 array ( 79, 23 ) = 37.0663
30510 array ( 79, 24 ) = 38.6283
30511 array ( 79, 25 ) = 40.1837
30512 array ( 79, 26 ) = 41.7339
30513 array ( 79, 27 ) = 43.2777
30514 array ( 79, 28 ) = 44.8167
30515 array ( 79, 29 ) = 46.3474
30516 array ( 79, 30 ) = 47.8701
30517 array ( 79, 31 ) = 49.3848
30518 array ( 79, 32 ) = 50.8911
30519 array ( 79, 33 ) = 52.3872
30520 array ( 79, 34 ) = 53.8753
30521 array ( 79, 35 ) = 55.1603
30522 array ( 79, 36 ) = 56.4238
30523 array ( 79, 37 ) = 57.6731
30524 array ( 79, 38 ) = 58.9083
30525 array ( 79, 39 ) = 60.1257
30526 array ( 79, 40 ) = 61.3296
30527 array ( 79, 41 ) = 62.5162
30528 array ( 79, 42 ) = 63.6879
30529 array ( 79, 43 ) = 64.8474
30530 array ( 79, 44 ) = 65.9951
30531 array ( 79, 45 ) = 67.1261
30532 array ( 79, 46 ) = 68.2368
30533 array ( 79, 47 ) = 69.3286
30534 array ( 79, 48 ) = 70.4091
30535 array ( 79, 49 ) = 71.478
30536 array ( 79, 50 ) = 72.5302
30537 array ( 79, 51 ) = 73.5679
30538 array ( 80, 1 ) = 3.1642
30539 array ( 80, 2 ) = 4.63195
30540 array ( 80, 3 ) = 6.08514
30541 array ( 80, 4 ) = 7.51628
30542 array ( 80, 5 ) = 8.95002
30543 array ( 80, 6 ) = 10.3787
30544 array ( 80, 7 ) = 11.8319
30545 array ( 80, 8 ) = 13.3015
30546 array ( 80, 9 ) = 14.7722
30547 array ( 80, 10 ) = 16.2703
30548 array ( 80, 11 ) = 17.7767
30549 array ( 80, 12 ) = 19.3017
30550 array ( 80, 13 ) = 20.8439
30551 array ( 80, 14 ) = 22.3795
30552 array ( 80, 15 ) = 23.9317
30553 array ( 80, 16 ) = 25.4913
30554 array ( 80, 17 ) = 27.043
30555 array ( 80, 18 ) = 28.5867
30556 array ( 80, 19 ) = 30.1294
30557 array ( 80, 20 ) = 31.6736
30558 array ( 80, 21 ) = 33.217
30559 array ( 80, 22 ) = 34.7566
30560 array ( 80, 23 ) = 36.301
30561 array ( 80, 24 ) = 37.839
30562 array ( 80, 25 ) = 39.3717
30563 array ( 80, 26 ) = 40.902
30564 array ( 80, 27 ) = 42.4269
30565 array ( 80, 28 ) = 43.9472
30566 array ( 80, 29 ) = 45.4591
30567 array ( 80, 30 ) = 46.963
30568 array ( 80, 31 ) = 48.4627
30569 array ( 80, 32 ) = 49.9541
30570 array ( 80, 33 ) = 51.4351
30571 array ( 80, 34 ) = 52.9088
30572 array ( 80, 35 ) = 54.1832
30573 array ( 80, 36 ) = 55.4395
```

```
30574 array ( 80, 37 ) = 56.6809
30575 array ( 80, 38 ) = 57.9076
30576 array ( 80, 39 ) = 59.1196
30577 array ( 80, 40 ) = 60.319
30578 array ( 80, 41 ) = 61.5024
30579 array ( 80, 42 ) = 62.6706
30580 array ( 80, 43 ) = 63.8263
30581 array ( 80, 44 ) = 64.9689
30582 array ( 80, 45 ) = 66.0964
30583 array ( 80, 46 ) = 67.2061
30584 array ( 80, 47 ) = 68.2983
30585 array ( 80, 48 ) = 69.3792
30586 array ( 80, 49 ) = 70.4466
30587 array ( 80, 50 ) = 71.4992
30588 array ( 80, 51 ) = 72.539
30589 array ( 81, 1 ) = 3.09264
30590 array ( 81, 2 ) = 4.5263
30591 array ( 81, 3 ) = 5.94531
30592 array ( 81, 4 ) = 7.34213
30593 array ( 81, 5 ) = 8.74082
30594 array ( 81, 6 ) = 10.1348
30595 array ( 81, 7 ) = 11.5547
30596 array ( 81, 8 ) = 12.9902
30597 array ( 81, 9 ) = 14.4267
30598 array ( 81, 10 ) = 15.8913
30599 array ( 81, 11 ) = 17.3633
30600 array ( 81, 12 ) = 18.8517
30601 array ( 81, 13 ) = 20.3596
30602 array ( 81, 14 ) = 21.8623
30603 array ( 81, 15 ) = 23.383
30604 array ( 81, 16 ) = 24.9115
30605 array ( 81, 17 ) = 26.4329
30606 array ( 81, 18 ) = 27.9488
30607 array ( 81, 19 ) = 29.4644
30608 array ( 81, 20 ) = 30.9824
30609 array ( 81, 21 ) = 32.5007
30610 array ( 81, 22 ) = 34.0161
30611 array ( 81, 23 ) = 35.5356
30612 array ( 81, 24 ) = 37.0497
30613 array ( 81, 25 ) = 38.5597
30614 array ( 81, 26 ) = 40.0702
30615 array ( 81, 27 ) = 41.5761
30616 array ( 81, 28 ) = 43.0777
30617 array ( 81, 29 ) = 44.5708
30618 array ( 81, 30 ) = 46.0559
30619 array ( 81, 31 ) = 47.5406
30620 array ( 81, 32 ) = 49.0171
30621 array ( 81, 33 ) = 50.483
30622 array ( 81, 34 ) = 51.9424
30623 array ( 81, 35 ) = 53.2062
30624 array ( 81, 36 ) = 54.4551
30625 array ( 81, 37 ) = 55.6887
30626 array ( 81, 38 ) = 56.9069
30627 array ( 81, 39 ) = 58.1135
30628 array ( 81, 40 ) = 59.3084
30629 array ( 81, 41 ) = 60.4887
30630 array ( 81, 42 ) = 61.6533
30631 array ( 81, 43 ) = 62.8052
30632 array ( 81, 44 ) = 63.9427
30633 array ( 81, 45 ) = 65.0667
30634 array ( 81, 46 ) = 66.1753
30635 array ( 81, 47 ) = 67.268
30636 array ( 81, 48 ) = 68.3493
30637 array ( 81, 49 ) = 69.4152
30638 array ( 81, 50 ) = 70.4683
30639 array ( 81, 51 ) = 71.51
30640
30641 call LyB_opacity % put ( array_scaled = array )
30642
30643 scaled_characteristics % array_max = 85.8844
30644 scaled_characteristics % array_min = 1.38546
30645 scaled_characteristics % array_mean = 37.41055660614866
30646 scaled_characteristics % array_sd = 22.724289825666318
30647
30648 call LyB_opacity % put ( array_scaled_characteristics = scaled_characteristics )
30649
30650 ! HELIOS output normalized
30651 array ( 1, 1 ) = 0.
30652 array ( 1, 2 ) = 0.00371531287848108
```

```
30653 array ( 1, 3 ) = 0.007119615938377453
30654 array ( 1, 4 ) = 0.010359301548634814
30655 array ( 1, 5 ) = 0.012583826495338287
30656 array ( 1, 6 ) = 0.013881594254318457
30657 array ( 1, 7 ) = 0.01486255330540241
30658 array ( 1, 8 ) = 0.015763866386962963
30659 array ( 1, 9 ) = 0.018132653498375246
30660 array ( 1, 10 ) = 0.020582625060148685
30661 array ( 1, 11 ) = 0.02315425495278402
30662 array ( 1, 12 ) = 0.025817957006324572
30663 array ( 1, 13 ) = 0.028577044871805495
30664 array ( 1, 14 ) = 0.03197330049347365
30665 array ( 1, 15 ) = 0.03559772465784778
30666 array ( 1, 16 ) = 0.039367712778408816
30667 array ( 1, 17 ) = 0.04358196682703948
30668 array ( 1, 18 ) = 0.0484626197677746
30669 array ( 1, 19 ) = 0.05352090807292966
30670 array ( 1, 20 ) = 0.058749967751074744
30671 array ( 1, 21 ) = 0.06413133703215684
30672 array ( 1, 22 ) = 0.06966111054174169
30673 array ( 1, 23 ) = 0.07534177351810566
30674 array ( 1, 24 ) = 0.0811612548039064
30675 array ( 1, 25 ) = 0.08711162530559553
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34732 array ( 81, 2 ) = 0.037170170418705836
34733 array ( 81, 3 ) = 0.053963398830801895
34734 array ( 81, 4 ) = 0.07049402039836239
34735 array ( 81, 5 ) = 0.08704677242105047
34736 array ( 81, 6 ) = 0.10354378409954018
34737 array ( 81, 7 ) = 0.12034754518814081
34738 array ( 81, 8 ) = 0.13733592397727118
34739 array ( 81, 9 ) = 0.15433613723438422
34740 array ( 81, 10 ) = 0.17166889904181043
34741 array ( 81, 11 ) = 0.18908923591230845
34742 array ( 81, 12 ) = 0.2067036580577224
34743 array ( 81, 13 ) = 0.22454885232879845
34744 array ( 81, 14 ) = 0.2423325073663646
34745 array ( 81, 15 ) = 0.2603291828276189
34746 array ( 81, 16 ) = 0.2784181671391381
34747 array ( 81, 17 ) = 0.29642312672798027
34748 array ( 81, 18 ) = 0.3143629967429177
34749 array ( 81, 19 ) = 0.3322993164174604
34750 array ( 81, 20 ) = 0.35026403881516144
34751 array ( 81, 21 ) = 0.36823231155325736
34752 array ( 81, 22 ) = 0.3861662643342034
34753 array ( 81, 23 ) = 0.40414873843387855
34754 array ( 81, 24 ) = 0.4220673064064472
34755 array ( 81, 25 ) = 0.43993735306028686
34756 array ( 81, 26 ) = 0.45781331694811783
34757 array ( 81, 27 ) = 0.47563484228322855
34758 array ( 81, 28 ) = 0.49340547940601376
34759 array ( 81, 29 ) = 0.5110755235509462
34760 array ( 81, 30 ) = 0.5286508919520173
```



```
34761 array ( 81, 31 ) = 0.5462215265658953
34762 array ( 81, 32 ) = 0.5636951185423154
34763 array ( 81, 33 ) = 0.581043265158119
34764 array ( 81, 34 ) = 0.5983144877320353
34765 array ( 81, 35 ) = 0.6132708883685404
34766 array ( 81, 36 ) = 0.6280509554321035
34767 array ( 81, 37 ) = 0.6426499551355318
34768 array ( 81, 38 ) = 0.6570667040320268
34769 array ( 81, 39 ) = 0.6713461730999228
34770 array ( 81, 40 ) = 0.6854871788924215
34771 array ( 81, 41 ) = 0.6994554014523732
34772 array ( 81, 42 ) = 0.7132378228649968
34773 array ( 81, 43 ) = 0.7268699465342404
34774 array ( 81, 44 ) = 0.7403316538645336
34775 array ( 81, 45 ) = 0.7536335958770606
34776 array ( 81, 46 ) = 0.7667532870826544
34777 array ( 81, 47 ) = 0.7796848102473238
34778 array ( 81, 48 ) = 0.7924814204769906
34779 array ( 81, 49 ) = 0.8050957798997241
34780 array ( 81, 50 ) = 0.8175586581322795
34781 array ( 81, 51 ) = 0.8298866234298324
34782
34783 call LyB_opacity % put ( array_normalized = array )
34784
34785 normalized_characteristics % array_max = 1.
34786 normalized_characteristics % array_min = 0.
34787 normalized_characteristics % array_mean = 0.42633785235825067
34788 normalized_characteristics % array_sd = 0.26892988037088184
34789
34790 call LyB_opacity % put ( array_normalized_characteristics = normalized_characteristics )
34791
34792
34793 end subroutine load_data
34794
```