

Κατάλογος τῶν Συγκερασμῶν ὅλων τῶν Βυζαντινῶν Ἐναρμονίων Κλιμάκων μέχρι καὶ σὲ 1200 μουσικὰ διαστήματα (κόμματα)

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1. Εἰσαγωγή

Σὲ αὐτὸ τὸ κείμενο, ἐφαρμόζουμε τὴν μέθοδο συγκερασμοῦ μας¹, στὴν **ἐναμόνιο κλίμακα** τῆς Βυζαντινῆς μουσικῆς ποὺ φαίνεται νὰ συμφωνοῦν τὰ διάφορα θεωρητικὰ βιβλία. Ἡ μέθοδος μοντελοποίησης (modelling of data) στὴν μέθοδο συγκερασμοῦ μας, ποὺ ἀκολουθοῦμε σὲ αὐτὸν τὸν κατάλογο, εἶναι αὐτὴ τῶν ἐλαχίστων τετραγώνων.

Ὁ κατάλογος ἔχει ὡς ἐξῆς: Οἱ συγκερασμοὶ εἶναι ταξινομημένοι κατὰ φθίνουσα ἀκρίβεια συγκερασμοῦ, ποὺ δίνεται ἀπὸ τὸν ἀριθμὸ Φ τῆς μεθόδου μας (μικρότερο Φ, μεγαλύτερη ἀκρίβεια συγκερασμοῦ). Ἡ μεταβλητὴ N εἶναι τὸ ἄθροισμα τῶν κομμάτων τῆς συγκερασμένης κλίμακας. Στὸ ἀντίστοιχο N, ὑπάρχει ἓνα διάνυσμα π.χ. $t = [t_1, t_2, \dots]$ μὲ τὰ κόμματα (μουσικὰ διαστήματα). Ἡ ἀντιστοίχιση τῶν κομμάτων στὴν κλίμακα, δίνεται πρὶν ἀπὸ κάθε πίνακα συγκερασμῶν.

¹ Παναγιώτης Δ. Παπαδημητρίου, Μέθοδος συγκερασμοῦ κλιμάκων - οἱ διατονικὲς κλίμακες τοῦ Διδύμου, τῆς Ἐπιτροπῆς, τοῦ Χρυσάνθου, καὶ οἱ συγκράσεις τους, ἔκδ. 29/6/05 [<http://music.analogion.net/>]

2. Συγκερασμοί τῆς κλίμακας [9/8-9/8-256/243-9/8-...] - Μέχρι 100 κόμματα

Αὐτὴ ἢ ἑναρμόνιος κλίμακα εἶναι ἡ ἐξῆς²:

$$\Gamma\alpha - 9/8 - \Delta\iota - 9/8 - \text{Κε} - 256/243 - \text{Ζω}' - 9/8 - \text{Νη}' - 9/8 - \text{Πα}' - 9/8 - \text{Βου}' - 256/243 - \Gamma\alpha',$$

Ἡ συγκερασμένη κλίμακα, δίνεται ὡς ἐξῆς:

$$\Gamma\alpha - t_1 - \Delta\iota - t_1 - \text{Κε} - t_2 - \text{Ζω}' - t_1 - \text{Νη}' - t_1 - \text{Πα}' - t_1 - \text{Βου}' - t_2 - \Gamma\alpha',$$

ὅπου οἱ τιμὲς t_1, t_2 , δίνονται στὰ ἀντίστοιχα διανύσματα $t = [t_1 t_2]$ στὸν παρακάτω πῖνακα.

1.	N = 53,	t = [9 4],	Φ = 1.2544e-007
2.	N = 94,	t = [16 7],	Φ = 8.0350e-007
3.	N = 65,	t = [11 5],	Φ = 4.6810e-006
4.	N = 41,	t = [7 3],	Φ = 6.3113e-006
5.	N = 82,	t = [14 6],	Φ = 6.3113e-006
6.	N = 77,	t = [13 6],	Φ = 1.1625e-005
7.	N = 89,	t = [15 7],	Φ = 1.8661e-005
8.	N = 70,	t = [12 5],	Φ = 2.1910e-005
9.	N = 99,	t = [17 7],	Φ = 3.1120e-005
10.	N = 29,	t = [5 2],	Φ = 5.9973e-005
11.	N = 58,	t = [10 4],	Φ = 5.9973e-005
12.	N = 87,	t = [15 6],	Φ = 5.9973e-005
13.	N = 12,	t = [2 1],	Φ = 1.0337e-004
14.	N = 24,	t = [4 2],	Φ = 1.0337e-004
15.	N = 36,	t = [6 3],	Φ = 1.0337e-004
16.	N = 48,	t = [8 4],	Φ = 1.0337e-004
17.	N = 60,	t = [10 5],	Φ = 1.0337e-004
18.	N = 72,	t = [12 6],	Φ = 1.0337e-004
19.	N = 84,	t = [14 7],	Φ = 1.0337e-004
20.	N = 96,	t = [16 8],	Φ = 1.0337e-004
21.	N = 75,	t = [13 5],	Φ = 1.1238e-004
22.	N = 46,	t = [8 3],	Φ = 1.5377e-004
23.	N = 92,	t = [16 6],	Φ = 1.5377e-004
24.	N = 63,	t = [11 4],	Φ = 2.1145e-004
25.	N = 80,	t = [14 5],	Φ = 2.4875e-004
26.	N = 91,	t = [15 8],	Φ = 2.5270e-004
27.	N = 97,	t = [17 6],	Φ = 2.7459e-004
28.	N = 79,	t = [13 7],	Φ = 2.8115e-004
29.	N = 67,	t = [11 6],	Φ = 3.2225e-004
30.	N = 55,	t = [9 5],	Φ = 3.8620e-004
31.	N = 17,	t = [3 1],	Φ = 4.1322e-004
32.	N = 34,	t = [6 2],	Φ = 4.1322e-004
33.	N = 51,	t = [9 3],	Φ = 4.1322e-004
34.	N = 68,	t = [12 4],	Φ = 4.1322e-004
35.	N = 85,	t = [15 5],	Φ = 4.1322e-004
36.	N = 98,	t = [16 9],	Φ = 4.3328e-004
37.	N = 43,	t = [7 4],	Φ = 4.9747e-004
38.	N = 86,	t = [14 8],	Φ = 4.9747e-004
39.	N = 74,	t = [12 7],	Φ = 5.8935e-004
40.	N = 90,	t = [16 5],	Φ = 5.9399e-004

² Μουσική Ἐπιτροπὴ τοῦ Οἴκ. Πατρ. (1881), Στοιχειώδης Διδασκαλία τῆς Ἐκκλησιαστικῆς Μουσικῆς - ἐκπονηθεῖσα ἐπὶ τῇ βάσει τοῦ Ψαλτηρίου, Κωνσταντινούπολις 1888 (ἀνατύπ. ἐκδ. Κουλτούρα), σ. 20.

41.	N = 73,	t = [13 4],	Φ = 6.4075e-004
42.	N = 56,	t = [10 3],	Φ = 7.1958e-004
43.	N = 31,	t = [5 3],	Φ = 7.2979e-004
44.	N = 62,	t = [10 6],	Φ = 7.2979e-004
45.	N = 93,	t = [15 9],	Φ = 7.2979e-004
46.	N = 95,	t = [17 5],	Φ = 7.8323e-004
47.	N = 81,	t = [13 8],	Φ = 8.7132e-004
48.	N = 39,	t = [7 2],	Φ = 8.7930e-004
49.	N = 78,	t = [14 4],	Φ = 8.7930e-004
50.	N = 50,	t = [8 5],	Φ = 9.6543e-004
51.	N = 100,	t = [16 10],	Φ = 9.6543e-004
52.	N = 61,	t = [11 3],	Φ = 1.0399e-003
53.	N = 69,	t = [11 7],	Φ = 1.0821e-003
54.	N = 83,	t = [15 4],	Φ = 1.1199e-003
55.	N = 88,	t = [14 9],	Φ = 1.1514e-003
56.	N = 22,	t = [4 1],	Φ = 1.3572e-003
57.	N = 44,	t = [8 2],	Φ = 1.3572e-003
58.	N = 66,	t = [12 3],	Φ = 1.3572e-003
59.	N = 19,	t = [3 2],	Φ = 1.4214e-003
60.	N = 38,	t = [6 4],	Φ = 1.4214e-003
61.	N = 57,	t = [9 6],	Φ = 1.4214e-003
62.	N = 76,	t = [12 8],	Φ = 1.4214e-003
63.	N = 71,	t = [13 3],	Φ = 1.6632e-003
64.	N = 49,	t = [9 2],	Φ = 1.8105e-003
65.	N = 64,	t = [10 7],	Φ = 1.8396e-003
66.	N = 45,	t = [7 5],	Φ = 2.0326e-003
67.	N = 27,	t = [5 1],	Φ = 2.2273e-003
68.	N = 54,	t = [10 2],	Φ = 2.2273e-003
69.	N = 26,	t = [4 3],	Φ = 2.5493e-003
70.	N = 52,	t = [8 6],	Φ = 2.5493e-003
71.	N = 59,	t = [11 2],	Φ = 2.6058e-003
72.	N = 32,	t = [6 1],	Φ = 2.9479e-003
73.	N = 33,	t = [5 4],	Φ = 3.3499e-003
74.	N = 37,	t = [7 1],	Φ = 3.5361e-003
75.	N = 40,	t = [6 5],	Φ = 3.9300e-003
76.	N = 42,	t = [8 1],	Φ = 4.0195e-003
77.	N = 47,	t = [7 6],	Φ = 4.3655e-003
78.	N = 7,	t = [1 1],	Φ = 7.3053e-003
79.	N = 14,	t = [2 2],	Φ = 7.3053e-003
80.	N = 21,	t = [3 3],	Φ = 7.3053e-003
81.	N = 28,	t = [4 4],	Φ = 7.3053e-003
82.	N = 35,	t = [5 5],	Φ = 7.3053e-003

3. Συγκερασμοί τής κλίμακας [9/8-9/8-256/243-9/8-...] - Μέχρι 1200 κόμματα

Αυτή ή έναρμόνιος κλίμακα είναι ή έξιξ³:

$$\Gamma\alpha - 9/8 - \Delta\iota - 9/8 - \text{Κε} - 256/243 - \text{Ζω}' - 9/8 - \text{Νη}' - 9/8 - \text{Πα}' - 9/8 - \text{Βου}' - 256/243 - \Gamma\alpha',$$

Η συγκερασμένη κλίμακα, δίνεται ώς έξιξ:

$$\Gamma\alpha - t_1 - \Delta\iota - t_1 - \text{Κε} - t_2 - \text{Ζω}' - t_1 - \text{Νη}' - t_1 - \text{Πα}' - t_1 - \text{Βου}' - t_2 - \Gamma\alpha',$$

όπου οί τιμές t_1, t_2 , δίνονται στα αντίστοιχα διανύσματα $t = [t_1 t_2]$ στον παρακάτω πίνακα.

1.	N = 665,	t = [113 50],	Φ = 3.4821e-013
2.	N = 971,	t = [165 73],	Φ = 8.2073e-011
3.	N = 1024,	t = [174 77],	Φ = 9.4871e-011
4.	N = 359,	t = [61 27],	Φ = 7.1233e-010
5.	N = 718,	t = [122 54],	Φ = 7.1233e-010
6.	N = 1077,	t = [183 81],	Φ = 7.1233e-010
7.	N = 306,	t = [52 23],	Φ = 9.0178e-010
8.	N = 612,	t = [104 46],	Φ = 9.0178e-010
9.	N = 918,	t = [156 69],	Φ = 9.0178e-010
10.	N = 1130,	t = [192 85],	Φ = 1.7681e-009
11.	N = 1171,	t = [199 88],	Φ = 2.2485e-009
12.	N = 771,	t = [131 58],	Φ = 2.4207e-009
13.	N = 865,	t = [147 65],	Φ = 2.8697e-009
14.	N = 1183,	t = [201 89],	Φ = 3.1396e-009
15.	N = 559,	t = [95 42],	Φ = 4.4163e-009
16.	N = 1118,	t = [190 84],	Φ = 4.4163e-009
17.	N = 412,	t = [70 31],	Φ = 4.7357e-009
18.	N = 824,	t = [140 62],	Φ = 4.7357e-009
19.	N = 812,	t = [138 61],	Φ = 6.4291e-009
20.	N = 877,	t = [149 66],	Φ = 7.4066e-009
21.	N = 1065,	t = [181 80],	Φ = 7.6364e-009
22.	N = 465,	t = [79 35],	Φ = 1.0270e-008
23.	N = 930,	t = [158 70],	Φ = 1.0270e-008
24.	N = 253,	t = [43 19],	Φ = 1.2213e-008
25.	N = 506,	t = [86 38],	Φ = 1.2213e-008
26.	N = 759,	t = [129 57],	Φ = 1.2213e-008
27.	N = 1012,	t = [172 76],	Φ = 1.2213e-008
28.	N = 983,	t = [167 74],	Φ = 1.3219e-008
29.	N = 518,	t = [88 39],	Φ = 1.6182e-008
30.	N = 1036,	t = [176 78],	Φ = 1.6182e-008
31.	N = 959,	t = [163 72],	Φ = 1.8548e-008
32.	N = 1089,	t = [185 82],	Φ = 1.9115e-008
33.	N = 706,	t = [120 53],	Φ = 2.1139e-008
34.	N = 571,	t = [97 43],	Φ = 2.1986e-008
35.	N = 1142,	t = [194 86],	Φ = 2.1986e-008
36.	N = 1159,	t = [197 87],	Φ = 2.3411e-008
37.	N = 1195,	t = [203 90],	Φ = 2.4777e-008
38.	N = 453,	t = [77 34],	Φ = 2.7184e-008
39.	N = 906,	t = [154 68],	Φ = 2.7184e-008
40.	N = 624,	t = [106 47],	Φ = 2.7478e-008

³ Μουσική Έπιτροπή του Οίκ. Πατρ. (1881), Στοιχειώδης Διδασκαλία τής Έκκλησιαστικής Μουσικής - έκπονηθείσα επί τή βάσει του Ψαλτηρίου, Κωνσταντινούπολις 1888 (ανάτυπ. έκδ. Κουλτούρα), σ. 20.

41.	N = 1106,	t = [188 83],	Φ = 3.1439e-008
42.	N = 677,	t = [115 51],	Φ = 3.2586e-008
43.	N = 653,	t = [111 49],	Φ = 3.4573e-008
44.	N = 730,	t = [124 55],	Φ = 3.7297e-008
45.	N = 853,	t = [145 64],	Φ = 3.8857e-008
46.	N = 783,	t = [133 59],	Φ = 4.1626e-008
47.	N = 1053,	t = [179 79],	Φ = 4.1640e-008
48.	N = 836,	t = [142 63],	Φ = 4.5601e-008
49.	N = 889,	t = [151 67],	Φ = 4.9252e-008
50.	N = 942,	t = [160 71],	Φ = 5.2610e-008
51.	N = 200,	t = [34 15],	Φ = 5.4589e-008
52.	N = 400,	t = [68 30],	Φ = 5.4589e-008
53.	N = 600,	t = [102 45],	Φ = 5.4589e-008
54.	N = 800,	t = [136 60],	Φ = 5.4589e-008
55.	N = 1000,	t = [170 75],	Φ = 5.4589e-008
56.	N = 1200,	t = [204 90],	Φ = 5.4589e-008
57.	N = 995,	t = [169 75],	Φ = 5.5704e-008
58.	N = 1048,	t = [178 79],	Φ = 5.8561e-008
59.	N = 1101,	t = [187 83],	Φ = 6.1204e-008
60.	N = 1154,	t = [196 87],	Φ = 6.3654e-008
61.	N = 1147,	t = [195 86],	Φ = 6.8018e-008
62.	N = 947,	t = [161 71],	Φ = 7.1043e-008
63.	N = 747,	t = [127 56],	Φ = 7.5815e-008
64.	N = 547,	t = [93 41],	Φ = 8.4444e-008
65.	N = 1094,	t = [186 82],	Φ = 8.4444e-008
66.	N = 894,	t = [152 67],	Φ = 9.2011e-008
67.	N = 347,	t = [59 26],	Φ = 1.0460e-007
68.	N = 694,	t = [118 52],	Φ = 1.0460e-007
69.	N = 1041,	t = [177 78],	Φ = 1.0460e-007
70.	N = 1188,	t = [202 89],	Φ = 1.1460e-007
71.	N = 841,	t = [143 63],	Φ = 1.1886e-007
72.	N = 53,	t = [9 4],	Φ = 1.2544e-007
73.	N = 106,	t = [18 8],	Φ = 1.2544e-007
74.	N = 159,	t = [27 12],	Φ = 1.2544e-007
75.	N = 212,	t = [36 16],	Φ = 1.2544e-007
76.	N = 265,	t = [45 20],	Φ = 1.2544e-007
77.	N = 318,	t = [54 24],	Φ = 1.2544e-007
78.	N = 371,	t = [63 28],	Φ = 1.2544e-007
79.	N = 424,	t = [72 32],	Φ = 1.2544e-007
80.	N = 477,	t = [81 36],	Φ = 1.2544e-007
81.	N = 530,	t = [90 40],	Φ = 1.2544e-007
82.	N = 583,	t = [99 44],	Φ = 1.2544e-007
83.	N = 636,	t = [108 48],	Φ = 1.2544e-007
84.	N = 689,	t = [117 52],	Φ = 1.2544e-007
85.	N = 742,	t = [126 56],	Φ = 1.2544e-007
86.	N = 795,	t = [135 60],	Φ = 1.2544e-007
87.	N = 848,	t = [144 64],	Φ = 1.2544e-007
88.	N = 901,	t = [153 68],	Φ = 1.2544e-007
89.	N = 954,	t = [162 72],	Φ = 1.2544e-007
90.	N = 1007,	t = [171 76],	Φ = 1.2544e-007
91.	N = 1060,	t = [180 80],	Φ = 1.2544e-007
92.	N = 1113,	t = [189 84],	Φ = 1.2544e-007
93.	N = 1166,	t = [198 88],	Φ = 1.2544e-007
94.	N = 494,	t = [84 37],	Φ = 1.2943e-007
95.	N = 988,	t = [168 74],	Φ = 1.2943e-007
96.	N = 1135,	t = [193 85],	Φ = 1.3755e-007
97.	N = 641,	t = [109 48],	Φ = 1.4397e-007
98.	N = 788,	t = [134 59],	Φ = 1.5348e-007
99.	N = 935,	t = [159 70],	Φ = 1.6018e-007
100.	N = 1082,	t = [184 81],	Φ = 1.6515e-007
101.	N = 147,	t = [25 11],	Φ = 1.9852e-007
102.	N = 294,	t = [50 22],	Φ = 1.9852e-007
103.	N = 441,	t = [75 33],	Φ = 1.9852e-007

104.	N = 588,	t = [100 44],	Φ = 1.9852e-007
105.	N = 735,	t = [125 55],	Φ = 1.9852e-007
106.	N = 882,	t = [150 66],	Φ = 1.9852e-007
107.	N = 1029,	t = [175 77],	Φ = 1.9852e-007
108.	N = 1176,	t = [200 88],	Φ = 1.9852e-007
109.	N = 1178,	t = [200 89],	Φ = 2.0611e-007
110.	N = 1125,	t = [191 85],	Φ = 2.1040e-007
111.	N = 1072,	t = [182 81],	Φ = 2.1517e-007
112.	N = 1019,	t = [173 77],	Φ = 2.2049e-007
113.	N = 966,	t = [164 73],	Φ = 2.2648e-007
114.	N = 913,	t = [155 69],	Φ = 2.3325e-007
115.	N = 1123,	t = [191 84],	Φ = 2.3357e-007
116.	N = 976,	t = [166 73],	Φ = 2.3910e-007
117.	N = 860,	t = [146 65],	Φ = 2.4098e-007
118.	N = 829,	t = [141 62],	Φ = 2.4669e-007
119.	N = 807,	t = [137 61],	Φ = 2.4988e-007
120.	N = 682,	t = [116 51],	Φ = 2.5775e-007
121.	N = 754,	t = [128 57],	Φ = 2.6022e-007
122.	N = 701,	t = [119 53],	Φ = 2.7239e-007
123.	N = 535,	t = [91 40],	Φ = 2.7538e-007
124.	N = 1070,	t = [182 80],	Φ = 2.7538e-007
125.	N = 648,	t = [110 49],	Φ = 2.8690e-007
126.	N = 923,	t = [157 69],	Φ = 2.8878e-007
127.	N = 595,	t = [101 45],	Φ = 3.0448e-007
128.	N = 1190,	t = [202 90],	Φ = 3.0448e-007
129.	N = 388,	t = [66 29],	Φ = 3.0778e-007
130.	N = 776,	t = [132 58],	Φ = 3.0778e-007
131.	N = 1164,	t = [198 87],	Φ = 3.0778e-007
132.	N = 1137,	t = [193 86],	Φ = 3.1473e-007
133.	N = 1017,	t = [173 76],	Φ = 3.2555e-007
134.	N = 542,	t = [92 41],	Φ = 3.2618e-007
135.	N = 1084,	t = [184 82],	Φ = 3.2618e-007
136.	N = 629,	t = [107 47],	Φ = 3.3676e-007
137.	N = 1031,	t = [175 78],	Φ = 3.3904e-007
138.	N = 870,	t = [148 65],	Φ = 3.5010e-007
139.	N = 489,	t = [83 37],	Φ = 3.5359e-007
140.	N = 978,	t = [166 74],	Φ = 3.5359e-007
141.	N = 1111,	t = [189 83],	Φ = 3.5777e-007
142.	N = 925,	t = [157 70],	Φ = 3.7016e-007
143.	N = 241,	t = [41 18],	Φ = 3.8614e-007
144.	N = 482,	t = [82 36],	Φ = 3.8614e-007
145.	N = 723,	t = [123 54],	Φ = 3.8614e-007
146.	N = 964,	t = [164 72],	Φ = 3.8614e-007
147.	N = 436,	t = [74 33],	Φ = 3.8920e-007
148.	N = 872,	t = [148 66],	Φ = 3.8920e-007
149.	N = 819,	t = [139 62],	Φ = 4.1129e-007
150.	N = 1058,	t = [180 79],	Φ = 4.1710e-007
151.	N = 817,	t = [139 61],	Φ = 4.2646e-007
152.	N = 383,	t = [65 29],	Φ = 4.3716e-007
153.	N = 766,	t = [130 58],	Φ = 4.3716e-007
154.	N = 1149,	t = [195 87],	Φ = 4.3716e-007
155.	N = 576,	t = [98 43],	Φ = 4.4393e-007
156.	N = 1152,	t = [196 86],	Φ = 4.4393e-007
157.	N = 1096,	t = [186 83],	Φ = 4.5702e-007
158.	N = 911,	t = [155 68],	Φ = 4.5989e-007
159.	N = 713,	t = [121 54],	Φ = 4.6786e-007
160.	N = 1043,	t = [177 79],	Φ = 4.7940e-007
161.	N = 335,	t = [57 25],	Φ = 4.8799e-007
162.	N = 670,	t = [114 50],	Φ = 4.8799e-007
163.	N = 1005,	t = [171 75],	Φ = 4.8799e-007
164.	N = 330,	t = [56 25],	Φ = 5.0480e-007
165.	N = 660,	t = [112 50],	Φ = 5.0480e-007
166.	N = 990,	t = [168 75],	Φ = 5.0480e-007

167.	N = 1099,	t = [187 82],	Φ = 5.1192e-007
168.	N = 764,	t = [130 57],	Φ = 5.2259e-007
169.	N = 1193,	t = [203 89],	Φ = 5.3252e-007
170.	N = 937,	t = [159 71],	Φ = 5.3385e-007
171.	N = 607,	t = [103 46],	Φ = 5.4998e-007
172.	N = 429,	t = [73 32],	Φ = 5.5043e-007
173.	N = 858,	t = [146 64],	Φ = 5.5043e-007
174.	N = 884,	t = [150 67],	Φ = 5.6734e-007
175.	N = 952,	t = [162 71],	Φ = 5.7329e-007
176.	N = 1161,	t = [197 88],	Φ = 5.7652e-007
177.	N = 523,	t = [89 39],	Φ = 5.9240e-007
178.	N = 1046,	t = [178 78],	Φ = 5.9240e-007
179.	N = 277,	t = [47 21],	Φ = 6.0633e-007
180.	N = 554,	t = [94 42],	Φ = 6.0633e-007
181.	N = 831,	t = [141 63],	Φ = 6.0633e-007
182.	N = 1108,	t = [188 84],	Φ = 6.0633e-007
183.	N = 1140,	t = [194 85],	Φ = 6.0859e-007
184.	N = 617,	t = [105 46],	Φ = 6.2248e-007
185.	N = 1055,	t = [179 80],	Φ = 6.4000e-007
186.	N = 711,	t = [121 53],	Φ = 6.4509e-007
187.	N = 778,	t = [132 59],	Φ = 6.5220e-007
188.	N = 805,	t = [137 60],	Φ = 6.6269e-007
189.	N = 899,	t = [153 67],	Φ = 6.7678e-007
190.	N = 501,	t = [85 38],	Φ = 6.7829e-007
191.	N = 1002,	t = [170 76],	Φ = 6.7829e-007
192.	N = 993,	t = [169 74],	Φ = 6.8831e-007
193.	N = 1087,	t = [185 81],	Φ = 6.9792e-007
194.	N = 1181,	t = [201 88],	Φ = 7.0605e-007
195.	N = 725,	t = [123 55],	Φ = 7.0684e-007
196.	N = 949,	t = [161 72],	Φ = 7.2216e-007
197.	N = 1173,	t = [199 89],	Φ = 7.3170e-007
198.	N = 224,	t = [38 17],	Φ = 7.7285e-007
199.	N = 448,	t = [76 34],	Φ = 7.7285e-007
200.	N = 672,	t = [114 51],	Φ = 7.7285e-007
201.	N = 896,	t = [152 68],	Φ = 7.7285e-007
202.	N = 1120,	t = [190 85],	Φ = 7.7285e-007
203.	N = 94,	t = [16 7],	Φ = 8.0350e-007
204.	N = 188,	t = [32 14],	Φ = 8.0350e-007
205.	N = 282,	t = [48 21],	Φ = 8.0350e-007
206.	N = 376,	t = [64 28],	Φ = 8.0350e-007
207.	N = 470,	t = [80 35],	Φ = 8.0350e-007
208.	N = 564,	t = [96 42],	Φ = 8.0350e-007
209.	N = 658,	t = [112 49],	Φ = 8.0350e-007
210.	N = 752,	t = [128 56],	Φ = 8.0350e-007
211.	N = 846,	t = [144 63],	Φ = 8.0350e-007
212.	N = 940,	t = [160 70],	Φ = 8.0350e-007
213.	N = 1034,	t = [176 77],	Φ = 8.0350e-007
214.	N = 1128,	t = [192 84],	Φ = 8.0350e-007
215.	N = 1067,	t = [181 81],	Φ = 8.1938e-007
216.	N = 843,	t = [143 64],	Φ = 8.3197e-007
217.	N = 619,	t = [105 47],	Φ = 8.5390e-007
218.	N = 1014,	t = [172 77],	Φ = 8.7235e-007
219.	N = 395,	t = [67 30],	Φ = 9.0166e-007
220.	N = 790,	t = [134 60],	Φ = 9.0166e-007
221.	N = 1185,	t = [201 90],	Φ = 9.0166e-007
222.	N = 1169,	t = [199 87],	Φ = 9.0834e-007
223.	N = 1075,	t = [183 80],	Φ = 9.1781e-007
224.	N = 981,	t = [167 73],	Φ = 9.2916e-007
225.	N = 961,	t = [163 73],	Φ = 9.3311e-007
226.	N = 887,	t = [151 66],	Φ = 9.4301e-007
227.	N = 566,	t = [96 43],	Φ = 9.5538e-007
228.	N = 1132,	t = [192 86],	Φ = 9.5538e-007
229.	N = 793,	t = [135 59],	Φ = 9.6029e-007

230.	N = 699,	t = [119 52],	Φ = 9.8244e-007
231.	N = 737,	t = [125 56],	Φ = 9.8481e-007
232.	N = 908,	t = [154 69],	Φ = 1.0034e-006
233.	N = 605,	t = [103 45],	Φ = 1.0119e-006
234.	N = 1079,	t = [183 82],	Φ = 1.0162e-006
235.	N = 1116,	t = [190 83],	Φ = 1.0305e-006
236.	N = 511,	t = [87 38],	Φ = 1.0528e-006
237.	N = 1022,	t = [174 76],	Φ = 1.0528e-006
238.	N = 928,	t = [158 69],	Φ = 1.0799e-006
239.	N = 171,	t = [29 13],	Φ = 1.0854e-006
240.	N = 342,	t = [58 26],	Φ = 1.0854e-006
241.	N = 513,	t = [87 39],	Φ = 1.0854e-006
242.	N = 684,	t = [116 52],	Φ = 1.0854e-006
243.	N = 855,	t = [145 65],	Φ = 1.0854e-006
244.	N = 1026,	t = [174 78],	Φ = 1.0854e-006
245.	N = 1197,	t = [203 91],	Φ = 1.0854e-006
246.	N = 417,	t = [71 31],	Φ = 1.1136e-006
247.	N = 834,	t = [142 62],	Φ = 1.1136e-006
248.	N = 1157,	t = [197 86],	Φ = 1.1410e-006
249.	N = 1144,	t = [194 87],	Φ = 1.1528e-006
250.	N = 740,	t = [126 55],	Φ = 1.1566e-006
251.	N = 973,	t = [165 74],	Φ = 1.1649e-006
252.	N = 1063,	t = [181 79],	Φ = 1.1737e-006
253.	N = 802,	t = [136 61],	Φ = 1.1822e-006
254.	N = 631,	t = [107 48],	Φ = 1.2091e-006
255.	N = 323,	t = [55 24],	Φ = 1.2134e-006
256.	N = 646,	t = [110 48],	Φ = 1.2134e-006
257.	N = 969,	t = [165 72],	Φ = 1.2134e-006
258.	N = 1091,	t = [185 83],	Φ = 1.2291e-006
259.	N = 1198,	t = [204 89],	Φ = 1.2491e-006
260.	N = 460,	t = [78 35],	Φ = 1.2568e-006
261.	N = 920,	t = [156 70],	Φ = 1.2568e-006
262.	N = 875,	t = [149 65],	Φ = 1.2624e-006
263.	N = 552,	t = [94 41],	Φ = 1.2916e-006
264.	N = 1104,	t = [188 82],	Φ = 1.2916e-006
265.	N = 749,	t = [127 57],	Φ = 1.2977e-006
266.	N = 1038,	t = [176 79],	Φ = 1.3160e-006
267.	N = 781,	t = [133 58],	Φ = 1.3246e-006
268.	N = 1010,	t = [172 75],	Φ = 1.3428e-006
269.	N = 289,	t = [49 22],	Φ = 1.3641e-006
270.	N = 578,	t = [98 44],	Φ = 1.3641e-006
271.	N = 867,	t = [147 66],	Φ = 1.3641e-006
272.	N = 1156,	t = [196 88],	Φ = 1.3641e-006
273.	N = 229,	t = [39 17],	Φ = 1.4060e-006
274.	N = 458,	t = [78 34],	Φ = 1.4060e-006
275.	N = 687,	t = [117 51],	Φ = 1.4060e-006
276.	N = 916,	t = [156 68],	Φ = 1.4060e-006
277.	N = 1145,	t = [195 85],	Φ = 1.4060e-006
278.	N = 985,	t = [167 75],	Φ = 1.4158e-006
279.	N = 696,	t = [118 53],	Φ = 1.4375e-006
280.	N = 1103,	t = [187 84],	Φ = 1.4570e-006
281.	N = 1051,	t = [179 78],	Φ = 1.4680e-006
282.	N = 822,	t = [140 61],	Φ = 1.4855e-006
283.	N = 407,	t = [69 31],	Φ = 1.4907e-006
284.	N = 814,	t = [138 62],	Φ = 1.4907e-006
285.	N = 593,	t = [101 44],	Φ = 1.5169e-006
286.	N = 1186,	t = [202 88],	Φ = 1.5169e-006
287.	N = 932,	t = [158 71],	Φ = 1.5311e-006
288.	N = 957,	t = [163 71],	Φ = 1.5440e-006
289.	N = 525,	t = [89 40],	Φ = 1.5628e-006
290.	N = 1050,	t = [178 80],	Φ = 1.5628e-006
291.	N = 1168,	t = [198 89],	Φ = 1.5883e-006
292.	N = 364,	t = [62 27],	Φ = 1.5888e-006

293.	N = 728,	t = [124 54],	Φ = 1.5888e-006
294.	N = 1092,	t = [186 81],	Φ = 1.5888e-006
295.	N = 643,	t = [109 49],	Φ = 1.6093e-006
296.	N = 863,	t = [147 64],	Φ = 1.6391e-006
297.	N = 761,	t = [129 58],	Φ = 1.6418e-006
298.	N = 879,	t = [149 67],	Φ = 1.6658e-006
299.	N = 499,	t = [85 37],	Φ = 1.6764e-006
300.	N = 998,	t = [170 74],	Φ = 1.6764e-006
301.	N = 997,	t = [169 76],	Φ = 1.6842e-006
302.	N = 1115,	t = [189 85],	Φ = 1.6988e-006
303.	N = 1133,	t = [193 84],	Φ = 1.7050e-006
304.	N = 634,	t = [108 47],	Φ = 1.7278e-006
305.	N = 769,	t = [131 57],	Φ = 1.7615e-006
306.	N = 904,	t = [154 67],	Φ = 1.7854e-006
307.	N = 1039,	t = [177 77],	Φ = 1.8031e-006
308.	N = 1174,	t = [200 87],	Φ = 1.8169e-006
309.	N = 118,	t = [20 9],	Φ = 1.8245e-006
310.	N = 236,	t = [40 18],	Φ = 1.8245e-006
311.	N = 354,	t = [60 27],	Φ = 1.8245e-006
312.	N = 472,	t = [80 36],	Φ = 1.8245e-006
313.	N = 590,	t = [100 45],	Φ = 1.8245e-006
314.	N = 708,	t = [120 54],	Φ = 1.8245e-006
315.	N = 826,	t = [140 63],	Φ = 1.8245e-006
316.	N = 944,	t = [160 72],	Φ = 1.8245e-006
317.	N = 1062,	t = [180 81],	Φ = 1.8245e-006
318.	N = 1180,	t = [200 90],	Φ = 1.8245e-006
319.	N = 135,	t = [23 10],	Φ = 1.9243e-006
320.	N = 270,	t = [46 20],	Φ = 1.9243e-006
321.	N = 405,	t = [69 30],	Φ = 1.9243e-006
322.	N = 540,	t = [92 40],	Φ = 1.9243e-006
323.	N = 675,	t = [115 50],	Φ = 1.9243e-006
324.	N = 810,	t = [138 60],	Φ = 1.9243e-006
325.	N = 945,	t = [161 70],	Φ = 1.9243e-006
326.	N = 1080,	t = [184 80],	Φ = 1.9243e-006
327.	N = 1127,	t = [191 86],	Φ = 1.9533e-006
328.	N = 1009,	t = [171 77],	Φ = 1.9687e-006
329.	N = 891,	t = [151 68],	Φ = 1.9882e-006
330.	N = 773,	t = [131 59],	Φ = 2.0138e-006
331.	N = 1121,	t = [191 83],	Φ = 2.0402e-006
332.	N = 655,	t = [111 50],	Φ = 2.0489e-006
333.	N = 986,	t = [168 73],	Φ = 2.0563e-006
334.	N = 1192,	t = [202 91],	Φ = 2.0718e-006
335.	N = 851,	t = [145 63],	Φ = 2.0777e-006
336.	N = 537,	t = [91 41],	Φ = 2.0999e-006
337.	N = 1074,	t = [182 82],	Φ = 2.0999e-006
338.	N = 716,	t = [122 53],	Φ = 2.1073e-006
339.	N = 956,	t = [162 73],	Φ = 2.1353e-006
340.	N = 581,	t = [99 43],	Φ = 2.1509e-006
341.	N = 1162,	t = [198 86],	Φ = 2.1509e-006
342.	N = 419,	t = [71 32],	Φ = 2.1810e-006
343.	N = 838,	t = [142 64],	Φ = 2.1810e-006
344.	N = 1027,	t = [175 76],	Φ = 2.1817e-006
345.	N = 1139,	t = [193 87],	Φ = 2.2197e-006
346.	N = 446,	t = [76 33],	Φ = 2.2220e-006
347.	N = 892,	t = [152 66],	Φ = 2.2220e-006
348.	N = 720,	t = [122 55],	Φ = 2.2425e-006
349.	N = 1021,	t = [173 78],	Φ = 2.2679e-006
350.	N = 757,	t = [129 56],	Φ = 2.2774e-006
351.	N = 1068,	t = [182 79],	Φ = 2.3007e-006
352.	N = 301,	t = [51 23],	Φ = 2.3294e-006
353.	N = 602,	t = [102 46],	Φ = 2.3294e-006
354.	N = 903,	t = [153 69],	Φ = 2.3294e-006
355.	N = 311,	t = [53 23],	Φ = 2.3579e-006

356.	N = 622,	t = [106 46],	Φ = 2.3579e-006
357.	N = 933,	t = [159 69],	Φ = 2.3579e-006
358.	N = 1086,	t = [184 83],	Φ = 2.3880e-006
359.	N = 785,	t = [133 60],	Φ = 2.4107e-006
360.	N = 1109,	t = [189 82],	Φ = 2.4137e-006
361.	N = 798,	t = [136 59],	Φ = 2.4356e-006
362.	N = 484,	t = [82 37],	Φ = 2.4619e-006
363.	N = 968,	t = [164 74],	Φ = 2.4619e-006
364.	N = 487,	t = [83 36],	Φ = 2.4859e-006
365.	N = 974,	t = [166 72],	Φ = 2.4859e-006
366.	N = 1151,	t = [195 88],	Φ = 2.4971e-006
367.	N = 1150,	t = [196 85],	Φ = 2.5211e-006
368.	N = 667,	t = [113 51],	Φ = 2.5229e-006
369.	N = 663,	t = [113 49],	Φ = 2.5471e-006
370.	N = 850,	t = [144 65],	Φ = 2.5579e-006
371.	N = 1033,	t = [175 79],	Φ = 2.5807e-006
372.	N = 839,	t = [143 62],	Φ = 2.5829e-006
373.	N = 1015,	t = [173 75],	Φ = 2.6065e-006
374.	N = 1191,	t = [203 88],	Φ = 2.6231e-006
375.	N = 183,	t = [31 14],	Φ = 2.6877e-006
376.	N = 366,	t = [62 28],	Φ = 2.6877e-006
377.	N = 549,	t = [93 42],	Φ = 2.6877e-006
378.	N = 732,	t = [124 56],	Φ = 2.6877e-006
379.	N = 915,	t = [155 70],	Φ = 2.6877e-006
380.	N = 1098,	t = [186 84],	Φ = 2.6877e-006
381.	N = 176,	t = [30 13],	Φ = 2.7203e-006
382.	N = 352,	t = [60 26],	Φ = 2.7203e-006
383.	N = 528,	t = [90 39],	Φ = 2.7203e-006
384.	N = 704,	t = [120 52],	Φ = 2.7203e-006
385.	N = 880,	t = [150 65],	Φ = 2.7203e-006
386.	N = 1056,	t = [180 78],	Φ = 2.7203e-006
387.	N = 1163,	t = [197 89],	Φ = 2.7846e-006
388.	N = 980,	t = [166 75],	Φ = 2.8029e-006
389.	N = 1097,	t = [187 81],	Φ = 2.8277e-006
390.	N = 797,	t = [135 61],	Φ = 2.8297e-006
391.	N = 921,	t = [157 68],	Φ = 2.8485e-006
392.	N = 614,	t = [104 47],	Φ = 2.8727e-006
393.	N = 745,	t = [127 55],	Φ = 2.8792e-006
394.	N = 1045,	t = [177 80],	Φ = 2.9057e-006
395.	N = 569,	t = [97 42],	Φ = 2.9293e-006
396.	N = 1138,	t = [194 84],	Φ = 2.9293e-006
397.	N = 431,	t = [73 33],	Φ = 2.9531e-006
398.	N = 862,	t = [146 66],	Φ = 2.9531e-006
399.	N = 962,	t = [164 71],	Φ = 2.9683e-006
400.	N = 1110,	t = [188 85],	Φ = 2.9981e-006
401.	N = 393,	t = [67 29],	Φ = 3.0254e-006
402.	N = 786,	t = [134 58],	Φ = 3.0254e-006
403.	N = 1179,	t = [201 87],	Φ = 3.0254e-006
404.	N = 679,	t = [115 52],	Φ = 3.0268e-006
405.	N = 927,	t = [157 71],	Φ = 3.0613e-006
406.	N = 1003,	t = [171 74],	Φ = 3.0806e-006
407.	N = 1175,	t = [199 90],	Φ = 3.0814e-006
408.	N = 610,	t = [104 45],	Φ = 3.1164e-006
409.	N = 248,	t = [42 19],	Φ = 3.1570e-006
410.	N = 496,	t = [84 38],	Φ = 3.1570e-006
411.	N = 744,	t = [126 57],	Φ = 3.1570e-006
412.	N = 992,	t = [168 76],	Φ = 3.1570e-006
413.	N = 827,	t = [141 61],	Φ = 3.1601e-006
414.	N = 1044,	t = [178 77],	Φ = 3.1858e-006
415.	N = 1057,	t = [179 81],	Φ = 3.2420e-006
416.	N = 809,	t = [137 62],	Φ = 3.2684e-006
417.	N = 217,	t = [37 16],	Φ = 3.2847e-006
418.	N = 434,	t = [74 32],	Φ = 3.2847e-006

419.	N = 651,	t = [111 48],	Φ = 3.2847e-006
420.	N = 868,	t = [148 64],	Φ = 3.2847e-006
421.	N = 1085,	t = [185 80],	Φ = 3.2847e-006
422.	N = 561,	t = [95 43],	Φ = 3.3182e-006
423.	N = 1122,	t = [190 86],	Φ = 3.3182e-006
424.	N = 874,	t = [148 67],	Φ = 3.3647e-006
425.	N = 1126,	t = [192 83],	Φ = 3.3778e-006
426.	N = 1187,	t = [201 91],	Φ = 3.3868e-006
427.	N = 909,	t = [155 67],	Φ = 3.4002e-006
428.	N = 692,	t = [118 51],	Φ = 3.4368e-006
429.	N = 313,	t = [53 24],	Φ = 3.4488e-006
430.	N = 626,	t = [106 48],	Φ = 3.4488e-006
431.	N = 939,	t = [159 72],	Φ = 3.4488e-006
432.	N = 1167,	t = [199 86],	Φ = 3.4654e-006
433.	N = 475,	t = [81 35],	Φ = 3.5074e-006
434.	N = 950,	t = [162 70],	Φ = 3.5074e-006
435.	N = 1004,	t = [170 77],	Φ = 3.5229e-006
436.	N = 691,	t = [117 53],	Φ = 3.5567e-006
437.	N = 733,	t = [125 54],	Φ = 3.5747e-006
438.	N = 1069,	t = [181 82],	Φ = 3.5886e-006
439.	N = 991,	t = [169 73],	Φ = 3.6072e-006
440.	N = 378,	t = [64 29],	Φ = 3.6473e-006
441.	N = 756,	t = [128 58],	Φ = 3.6473e-006
442.	N = 1134,	t = [192 87],	Φ = 3.6473e-006
443.	N = 1199,	t = [203 92],	Φ = 3.7000e-006
444.	N = 258,	t = [44 19],	Φ = 3.7003e-006
445.	N = 516,	t = [88 38],	Φ = 3.7003e-006
446.	N = 774,	t = [132 57],	Φ = 3.7003e-006
447.	N = 1032,	t = [176 76],	Φ = 3.7003e-006
448.	N = 821,	t = [139 63],	Φ = 3.7245e-006
449.	N = 1073,	t = [183 79],	Φ = 3.7873e-006
450.	N = 443,	t = [75 34],	Φ = 3.7909e-006
451.	N = 886,	t = [150 68],	Φ = 3.7909e-006
452.	N = 815,	t = [139 60],	Φ = 3.8151e-006
453.	N = 951,	t = [161 73],	Φ = 3.8488e-006
454.	N = 557,	t = [95 41],	Φ = 3.8689e-006
455.	N = 1114,	t = [190 82],	Φ = 3.8689e-006
456.	N = 508,	t = [86 39],	Φ = 3.8996e-006
457.	N = 1016,	t = [172 78],	Φ = 3.8996e-006
458.	N = 856,	t = [146 63],	Φ = 3.9204e-006
459.	N = 1081,	t = [183 83],	Φ = 3.9445e-006
460.	N = 1155,	t = [197 85],	Φ = 3.9454e-006
461.	N = 573,	t = [97 44],	Φ = 3.9846e-006
462.	N = 1146,	t = [194 88],	Φ = 3.9846e-006
463.	N = 299,	t = [51 22],	Φ = 4.0173e-006
464.	N = 598,	t = [102 44],	Φ = 4.0173e-006
465.	N = 897,	t = [153 66],	Φ = 4.0173e-006
466.	N = 1196,	t = [204 88],	Φ = 4.0173e-006
467.	N = 638,	t = [108 49],	Φ = 4.0530e-006
468.	N = 938,	t = [160 69],	Φ = 4.1068e-006
469.	N = 703,	t = [119 54],	Φ = 4.1092e-006
470.	N = 639,	t = [109 47],	Φ = 4.1490e-006
471.	N = 768,	t = [130 59],	Φ = 4.1561e-006
472.	N = 979,	t = [167 72],	Φ = 4.1897e-006
473.	N = 833,	t = [141 64],	Φ = 4.1959e-006
474.	N = 898,	t = [152 69],	Φ = 4.2302e-006
475.	N = 963,	t = [163 74],	Φ = 4.2599e-006
476.	N = 340,	t = [58 25],	Φ = 4.2666e-006
477.	N = 680,	t = [116 50],	Φ = 4.2666e-006
478.	N = 1020,	t = [174 75],	Φ = 4.2666e-006
479.	N = 1028,	t = [174 79],	Φ = 4.2859e-006
480.	N = 1093,	t = [185 84],	Φ = 4.3089e-006
481.	N = 1158,	t = [196 89],	Φ = 4.3294e-006

482.	N = 1061,	t = [181 78],	Φ = 4.3382e-006
483.	N = 721,	t = [123 53],	Φ = 4.3722e-006
484.	N = 1102,	t = [188 81],	Φ = 4.4050e-006
485.	N = 381,	t = [65 28],	Φ = 4.4675e-006
486.	N = 762,	t = [130 56],	Φ = 4.4675e-006
487.	N = 1143,	t = [195 84],	Φ = 4.4675e-006
488.	N = 1184,	t = [202 87],	Φ = 4.5261e-006
489.	N = 803,	t = [137 59],	Φ = 4.5540e-006
490.	N = 422,	t = [72 31],	Φ = 4.6327e-006
491.	N = 844,	t = [144 62],	Φ = 4.6327e-006
492.	N = 65,	t = [11 5],	Φ = 4.6810e-006
493.	N = 130,	t = [22 10],	Φ = 4.6810e-006
494.	N = 195,	t = [33 15],	Φ = 4.6810e-006
495.	N = 260,	t = [44 20],	Φ = 4.6810e-006
496.	N = 325,	t = [55 25],	Φ = 4.6810e-006
497.	N = 390,	t = [66 30],	Φ = 4.6810e-006
498.	N = 455,	t = [77 35],	Φ = 4.6810e-006
499.	N = 520,	t = [88 40],	Φ = 4.6810e-006
500.	N = 585,	t = [99 45],	Φ = 4.6810e-006
501.	N = 650,	t = [110 50],	Φ = 4.6810e-006
502.	N = 715,	t = [121 55],	Φ = 4.6810e-006
503.	N = 780,	t = [132 60],	Φ = 4.6810e-006
504.	N = 845,	t = [143 65],	Φ = 4.6810e-006
505.	N = 910,	t = [154 70],	Φ = 4.6810e-006
506.	N = 975,	t = [165 75],	Φ = 4.6810e-006
507.	N = 1040,	t = [176 80],	Φ = 4.6810e-006
508.	N = 1105,	t = [187 85],	Φ = 4.6810e-006
509.	N = 1170,	t = [198 90],	Φ = 4.6810e-006
510.	N = 885,	t = [151 65],	Φ = 4.7048e-006
511.	N = 463,	t = [79 34],	Φ = 4.7709e-006
512.	N = 926,	t = [158 68],	Φ = 4.7709e-006
513.	N = 967,	t = [165 71],	Φ = 4.8319e-006
514.	N = 504,	t = [86 37],	Φ = 4.8882e-006
515.	N = 1008,	t = [172 74],	Φ = 4.8882e-006
516.	N = 1049,	t = [179 77],	Φ = 4.9404e-006
517.	N = 545,	t = [93 40],	Φ = 4.9890e-006
518.	N = 1090,	t = [186 80],	Φ = 4.9890e-006
519.	N = 1131,	t = [193 83],	Φ = 5.0342e-006
520.	N = 1182,	t = [200 91],	Φ = 5.0387e-006
521.	N = 1117,	t = [189 86],	Φ = 5.0599e-006
522.	N = 586,	t = [100 43],	Φ = 5.0764e-006
523.	N = 1172,	t = [200 86],	Φ = 5.0764e-006
524.	N = 1052,	t = [178 81],	Φ = 5.0838e-006
525.	N = 987,	t = [167 76],	Φ = 5.1109e-006
526.	N = 922,	t = [156 71],	Φ = 5.1420e-006
527.	N = 627,	t = [107 46],	Φ = 5.1531e-006
528.	N = 857,	t = [145 66],	Φ = 5.1778e-006
529.	N = 792,	t = [134 61],	Φ = 5.2197e-006
530.	N = 668,	t = [114 49],	Φ = 5.2208e-006
531.	N = 727,	t = [123 56],	Φ = 5.2693e-006
532.	N = 709,	t = [121 52],	Φ = 5.2810e-006
533.	N = 662,	t = [112 51],	Φ = 5.3290e-006
534.	N = 750,	t = [128 55],	Φ = 5.3350e-006
535.	N = 791,	t = [135 58],	Φ = 5.3836e-006
536.	N = 597,	t = [101 46],	Φ = 5.4021e-006
537.	N = 1194,	t = [202 92],	Φ = 5.4021e-006
538.	N = 832,	t = [142 61],	Φ = 5.4276e-006
539.	N = 1129,	t = [191 87],	Φ = 5.4451e-006
540.	N = 873,	t = [149 64],	Φ = 5.4676e-006
541.	N = 532,	t = [90 41],	Φ = 5.4937e-006
542.	N = 1064,	t = [180 82],	Φ = 5.4937e-006
543.	N = 914,	t = [156 67],	Φ = 5.5041e-006
544.	N = 955,	t = [163 70],	Φ = 5.5377e-006

545.	N = 999,	t = [169 77],	Φ = 5.5488e-006
546.	N = 996,	t = [170 73],	Φ = 5.5685e-006
547.	N = 1037,	t = [177 76],	Φ = 5.5970e-006
548.	N = 467,	t = [79 36],	Φ = 5.6120e-006
549.	N = 934,	t = [158 72],	Φ = 5.6120e-006
550.	N = 1078,	t = [184 79],	Φ = 5.6234e-006
551.	N = 1119,	t = [191 82],	Φ = 5.6479e-006
552.	N = 1160,	t = [198 85],	Φ = 5.6707e-006
553.	N = 869,	t = [147 67],	Φ = 5.6850e-006
554.	N = 402,	t = [68 31],	Φ = 5.7705e-006
555.	N = 804,	t = [136 62],	Φ = 5.7705e-006
556.	N = 1141,	t = [193 88],	Φ = 5.8359e-006
557.	N = 739,	t = [125 57],	Φ = 5.8717e-006
558.	N = 1076,	t = [182 83],	Φ = 5.9098e-006
559.	N = 337,	t = [57 26],	Φ = 5.9937e-006
560.	N = 674,	t = [114 52],	Φ = 5.9937e-006
561.	N = 1011,	t = [171 78],	Φ = 5.9937e-006
562.	N = 946,	t = [160 73],	Φ = 6.0899e-006
563.	N = 609,	t = [103 47],	Φ = 6.1434e-006
564.	N = 881,	t = [149 68],	Φ = 6.2011e-006
565.	N = 1153,	t = [195 89],	Φ = 6.2318e-006
566.	N = 41,	t = [7 3],	Φ = 6.3113e-006
567.	N = 82,	t = [14 6],	Φ = 6.3113e-006
568.	N = 123,	t = [21 9],	Φ = 6.3113e-006
569.	N = 164,	t = [28 12],	Φ = 6.3113e-006
570.	N = 205,	t = [35 15],	Φ = 6.3113e-006
571.	N = 246,	t = [42 18],	Φ = 6.3113e-006
572.	N = 287,	t = [49 21],	Φ = 6.3113e-006
573.	N = 328,	t = [56 24],	Φ = 6.3113e-006
574.	N = 369,	t = [63 27],	Φ = 6.3113e-006
575.	N = 410,	t = [70 30],	Φ = 6.3113e-006
576.	N = 451,	t = [77 33],	Φ = 6.3113e-006
577.	N = 492,	t = [84 36],	Φ = 6.3113e-006
578.	N = 533,	t = [91 39],	Φ = 6.3113e-006
579.	N = 574,	t = [98 42],	Φ = 6.3113e-006
580.	N = 615,	t = [105 45],	Φ = 6.3113e-006
581.	N = 656,	t = [112 48],	Φ = 6.3113e-006
582.	N = 697,	t = [119 51],	Φ = 6.3113e-006
583.	N = 738,	t = [126 54],	Φ = 6.3113e-006
584.	N = 779,	t = [133 57],	Φ = 6.3113e-006
585.	N = 820,	t = [140 60],	Φ = 6.3113e-006
586.	N = 861,	t = [147 63],	Φ = 6.3113e-006
587.	N = 902,	t = [154 66],	Φ = 6.3113e-006
588.	N = 943,	t = [161 69],	Φ = 6.3113e-006
589.	N = 984,	t = [168 72],	Φ = 6.3113e-006
590.	N = 1025,	t = [175 75],	Φ = 6.3113e-006
591.	N = 1066,	t = [182 78],	Φ = 6.3113e-006
592.	N = 1107,	t = [189 81],	Φ = 6.3113e-006
593.	N = 1148,	t = [196 84],	Φ = 6.3113e-006
594.	N = 1189,	t = [203 87],	Φ = 6.3113e-006
595.	N = 272,	t = [46 21],	Φ = 6.3314e-006
596.	N = 544,	t = [92 42],	Φ = 6.3314e-006
597.	N = 816,	t = [138 63],	Φ = 6.3314e-006
598.	N = 1088,	t = [184 84],	Φ = 6.3314e-006
599.	N = 1023,	t = [173 79],	Φ = 6.4447e-006
600.	N = 751,	t = [127 58],	Φ = 6.4860e-006
601.	N = 479,	t = [81 37],	Φ = 6.5746e-006
602.	N = 958,	t = [162 74],	Φ = 6.5746e-006
603.	N = 1165,	t = [197 90],	Φ = 6.6320e-006
604.	N = 686,	t = [116 53],	Φ = 6.6723e-006
605.	N = 893,	t = [151 69],	Φ = 6.7249e-006
606.	N = 1100,	t = [186 85],	Φ = 6.7579e-006
607.	N = 207,	t = [35 16],	Φ = 6.9010e-006

608.	N = 414,	t = [70 32],	Φ = 6.9010e-006
609.	N = 621,	t = [105 48],	Φ = 6.9010e-006
610.	N = 828,	t = [140 64],	Φ = 6.9010e-006
611.	N = 1035,	t = [175 80],	Φ = 6.9010e-006
612.	N = 1177,	t = [201 86],	Φ = 6.9762e-006
613.	N = 1136,	t = [194 83],	Φ = 7.0008e-006
614.	N = 1095,	t = [187 80],	Φ = 7.0273e-006
615.	N = 1054,	t = [180 77],	Φ = 7.0560e-006
616.	N = 970,	t = [164 75],	Φ = 7.0652e-006
617.	N = 1013,	t = [173 74],	Φ = 7.0870e-006
618.	N = 763,	t = [129 59],	Φ = 7.1100e-006
619.	N = 972,	t = [166 71],	Φ = 7.1207e-006
620.	N = 931,	t = [159 68],	Φ = 7.1574e-006
621.	N = 556,	t = [94 43],	Φ = 7.1887e-006
622.	N = 1112,	t = [188 86],	Φ = 7.1887e-006
623.	N = 890,	t = [152 65],	Φ = 7.1977e-006
624.	N = 849,	t = [145 62],	Φ = 7.2420e-006
625.	N = 905,	t = [153 70],	Φ = 7.2553e-006
626.	N = 808,	t = [138 59],	Φ = 7.2909e-006
627.	N = 767,	t = [131 56],	Φ = 7.3453e-006
628.	N = 349,	t = [59 27],	Φ = 7.3620e-006
629.	N = 698,	t = [118 54],	Φ = 7.3620e-006
630.	N = 1047,	t = [177 81],	Φ = 7.3620e-006
631.	N = 726,	t = [124 53],	Φ = 7.4060e-006
632.	N = 685,	t = [117 50],	Φ = 7.4743e-006
633.	N = 840,	t = [142 65],	Φ = 7.4779e-006
634.	N = 644,	t = [110 47],	Φ = 7.5516e-006
635.	N = 491,	t = [83 38],	Φ = 7.5608e-006
636.	N = 982,	t = [166 76],	Φ = 7.5608e-006
637.	N = 1124,	t = [190 87],	Φ = 7.6231e-006
638.	N = 603,	t = [103 44],	Φ = 7.6400e-006
639.	N = 633,	t = [107 49],	Φ = 7.6716e-006
640.	N = 562,	t = [96 41],	Φ = 7.7419e-006
641.	N = 775,	t = [131 60],	Φ = 7.7422e-006
642.	N = 917,	t = [155 71],	Φ = 7.7911e-006
643.	N = 1083,	t = [185 79],	Φ = 7.7989e-006
644.	N = 1059,	t = [179 82],	Φ = 7.8270e-006
645.	N = 521,	t = [89 38],	Φ = 7.8607e-006
646.	N = 1042,	t = [178 76],	Φ = 7.8607e-006
647.	N = 1001,	t = [171 73],	Φ = 7.9277e-006
648.	N = 480,	t = [82 35],	Φ = 8.0009e-006
649.	N = 960,	t = [164 70],	Φ = 8.0009e-006
650.	N = 142,	t = [24 11],	Φ = 8.0607e-006
651.	N = 284,	t = [48 22],	Φ = 8.0607e-006
652.	N = 426,	t = [72 33],	Φ = 8.0607e-006
653.	N = 568,	t = [96 44],	Φ = 8.0607e-006
654.	N = 710,	t = [120 55],	Φ = 8.0607e-006
655.	N = 852,	t = [144 66],	Φ = 8.0607e-006
656.	N = 994,	t = [168 77],	Φ = 8.0607e-006
657.	N = 919,	t = [157 67],	Φ = 8.0809e-006
658.	N = 439,	t = [75 32],	Φ = 8.1689e-006
659.	N = 878,	t = [150 64],	Φ = 8.1689e-006
660.	N = 837,	t = [143 61],	Φ = 8.2660e-006
661.	N = 1071,	t = [181 83],	Φ = 8.2953e-006
662.	N = 929,	t = [157 72],	Φ = 8.3314e-006
663.	N = 398,	t = [68 29],	Φ = 8.3738e-006
664.	N = 796,	t = [136 58],	Φ = 8.3738e-006
665.	N = 787,	t = [133 61],	Φ = 8.3807e-006
666.	N = 645,	t = [109 50],	Φ = 8.4520e-006
667.	N = 755,	t = [129 55],	Φ = 8.4941e-006
668.	N = 503,	t = [85 39],	Φ = 8.5641e-006
669.	N = 1006,	t = [170 78],	Φ = 8.5641e-006
670.	N = 357,	t = [61 26],	Φ = 8.6293e-006

671.	N = 714,	t = [122 52],	Φ = 8.6293e-006
672.	N = 864,	t = [146 67],	Φ = 8.6483e-006
673.	N = 1030,	t = [176 75],	Φ = 8.7290e-006
674.	N = 361,	t = [61 28],	Φ = 8.7663e-006
675.	N = 722,	t = [122 56],	Φ = 8.7663e-006
676.	N = 673,	t = [115 49],	Φ = 8.7822e-006
677.	N = 989,	t = [169 72],	Φ = 8.8377e-006
678.	N = 941,	t = [159 73],	Φ = 8.8754e-006
679.	N = 580,	t = [98 45],	Φ = 8.9436e-006
680.	N = 316,	t = [54 23],	Φ = 8.9565e-006
681.	N = 632,	t = [108 46],	Φ = 8.9565e-006
682.	N = 948,	t = [162 69],	Φ = 8.9565e-006
683.	N = 799,	t = [135 62],	Φ = 9.0243e-006
684.	N = 1018,	t = [172 79],	Φ = 9.0704e-006
685.	N = 907,	t = [155 66],	Φ = 9.0870e-006
686.	N = 591,	t = [101 43],	Φ = 9.1571e-006
687.	N = 866,	t = [148 63],	Φ = 9.2309e-006
688.	N = 219,	t = [37 17],	Φ = 9.2397e-006
689.	N = 438,	t = [74 34],	Φ = 9.2397e-006
690.	N = 657,	t = [111 51],	Φ = 9.2397e-006
691.	N = 876,	t = [148 68],	Φ = 9.2397e-006
692.	N = 275,	t = [47 20],	Φ = 9.3904e-006
693.	N = 550,	t = [94 40],	Φ = 9.3904e-006
694.	N = 825,	t = [141 60],	Φ = 9.3904e-006
695.	N = 953,	t = [161 74],	Φ = 9.4223e-006
696.	N = 734,	t = [124 57],	Φ = 9.4771e-006
697.	N = 784,	t = [134 57],	Φ = 9.5682e-006
698.	N = 515,	t = [87 40],	Φ = 9.5789e-006
699.	N = 509,	t = [87 37],	Φ = 9.6649e-006
700.	N = 811,	t = [137 63],	Φ = 9.6716e-006
701.	N = 743,	t = [127 54],	Φ = 9.7676e-006
702.	N = 977,	t = [167 71],	Φ = 9.8212e-006
703.	N = 296,	t = [50 23],	Φ = 9.8339e-006
704.	N = 592,	t = [100 46],	Φ = 9.8339e-006
705.	N = 888,	t = [150 69],	Φ = 9.8339e-006
706.	N = 965,	t = [163 75],	Φ = 9.9713e-006
707.	N = 234,	t = [40 17],	Φ = 9.9926e-006
708.	N = 468,	t = [80 34],	Φ = 9.9926e-006
709.	N = 702,	t = [120 51],	Φ = 9.9926e-006
710.	N = 936,	t = [160 68],	Φ = 9.9926e-006
711.	N = 669,	t = [113 52],	Φ = 1.0032e-005
712.	N = 895,	t = [153 65],	Φ = 1.0181e-005
713.	N = 373,	t = [63 29],	Φ = 1.0191e-005
714.	N = 746,	t = [126 58],	Φ = 1.0191e-005
715.	N = 661,	t = [113 48],	Φ = 1.0249e-005
716.	N = 823,	t = [139 64],	Φ = 1.0321e-005
717.	N = 427,	t = [73 31],	Φ = 1.0390e-005
718.	N = 854,	t = [146 62],	Φ = 1.0390e-005
719.	N = 450,	t = [76 35],	Φ = 1.0430e-005
720.	N = 900,	t = [152 70],	Φ = 1.0430e-005
721.	N = 620,	t = [106 45],	Φ = 1.0542e-005
722.	N = 527,	t = [89 41],	Φ = 1.0601e-005
723.	N = 813,	t = [139 59],	Φ = 1.0623e-005
724.	N = 604,	t = [102 47],	Φ = 1.0729e-005
725.	N = 681,	t = [115 53],	Φ = 1.0828e-005
726.	N = 193,	t = [33 14],	Φ = 1.0883e-005
727.	N = 386,	t = [66 28],	Φ = 1.0883e-005
728.	N = 579,	t = [99 42],	Φ = 1.0883e-005
729.	N = 772,	t = [132 56],	Φ = 1.0883e-005
730.	N = 758,	t = [128 59],	Φ = 1.0908e-005
731.	N = 835,	t = [141 65],	Φ = 1.0973e-005
732.	N = 912,	t = [154 71],	Φ = 1.1027e-005
733.	N = 924,	t = [158 67],	Φ = 1.1115e-005

734.	N = 731,	t = [125 53],	Φ = 1.1176e-005
735.	N = 538,	t = [92 39],	Φ = 1.1282e-005
736.	N = 883,	t = [151 64],	Φ = 1.1370e-005
737.	N = 345,	t = [59 25],	Φ = 1.1509e-005
738.	N = 690,	t = [118 50],	Φ = 1.1509e-005
739.	N = 77,	t = [13 6],	Φ = 1.1625e-005
740.	N = 154,	t = [26 12],	Φ = 1.1625e-005
741.	N = 231,	t = [39 18],	Φ = 1.1625e-005
742.	N = 308,	t = [52 24],	Φ = 1.1625e-005
743.	N = 385,	t = [65 30],	Φ = 1.1625e-005
744.	N = 462,	t = [78 36],	Φ = 1.1625e-005
745.	N = 539,	t = [91 42],	Φ = 1.1625e-005
746.	N = 616,	t = [104 48],	Φ = 1.1625e-005
747.	N = 693,	t = [117 54],	Φ = 1.1625e-005
748.	N = 770,	t = [130 60],	Φ = 1.1625e-005
749.	N = 847,	t = [143 66],	Φ = 1.1625e-005
750.	N = 842,	t = [144 61],	Φ = 1.1654e-005
751.	N = 497,	t = [85 36],	Φ = 1.1756e-005
752.	N = 649,	t = [111 47],	Φ = 1.1889e-005
753.	N = 801,	t = [137 58],	Φ = 1.1972e-005
754.	N = 859,	t = [145 67],	Φ = 1.2277e-005
755.	N = 152,	t = [26 11],	Φ = 1.2328e-005
756.	N = 304,	t = [52 22],	Φ = 1.2328e-005
757.	N = 456,	t = [78 33],	Φ = 1.2328e-005
758.	N = 608,	t = [104 44],	Φ = 1.2328e-005
759.	N = 760,	t = [130 55],	Φ = 1.2328e-005
760.	N = 782,	t = [132 61],	Φ = 1.2342e-005
761.	N = 705,	t = [119 55],	Φ = 1.2422e-005
762.	N = 628,	t = [106 49],	Φ = 1.2521e-005
763.	N = 551,	t = [93 43],	Φ = 1.2649e-005
764.	N = 871,	t = [149 63],	Φ = 1.2660e-005
765.	N = 719,	t = [123 52],	Φ = 1.2731e-005
766.	N = 474,	t = [80 37],	Φ = 1.2820e-005
767.	N = 567,	t = [97 41],	Φ = 1.2840e-005
768.	N = 415,	t = [71 30],	Φ = 1.3030e-005
769.	N = 830,	t = [142 60],	Φ = 1.3030e-005
770.	N = 397,	t = [67 31],	Φ = 1.3058e-005
771.	N = 794,	t = [134 62],	Φ = 1.3058e-005
772.	N = 678,	t = [116 49],	Φ = 1.3191e-005
773.	N = 717,	t = [121 56],	Φ = 1.3217e-005
774.	N = 320,	t = [54 25],	Φ = 1.3415e-005
775.	N = 640,	t = [108 50],	Φ = 1.3415e-005
776.	N = 263,	t = [45 19],	Φ = 1.3445e-005
777.	N = 526,	t = [90 38],	Φ = 1.3445e-005
778.	N = 789,	t = [135 57],	Φ = 1.3445e-005
779.	N = 563,	t = [95 44],	Φ = 1.3670e-005
780.	N = 637,	t = [109 46],	Φ = 1.3719e-005
781.	N = 806,	t = [136 63],	Φ = 1.3772e-005
782.	N = 374,	t = [64 27],	Φ = 1.3913e-005
783.	N = 748,	t = [128 54],	Φ = 1.3913e-005
784.	N = 243,	t = [41 19],	Φ = 1.4010e-005
785.	N = 486,	t = [82 38],	Φ = 1.4010e-005
786.	N = 729,	t = [123 57],	Φ = 1.4010e-005
787.	N = 485,	t = [83 35],	Φ = 1.4171e-005
788.	N = 652,	t = [110 51],	Φ = 1.4306e-005
789.	N = 596,	t = [102 43],	Φ = 1.4333e-005
790.	N = 707,	t = [121 51],	Φ = 1.4445e-005
791.	N = 409,	t = [69 32],	Φ = 1.4483e-005
792.	N = 818,	t = [138 64],	Φ = 1.4483e-005
793.	N = 575,	t = [97 45],	Φ = 1.4686e-005
794.	N = 741,	t = [125 58],	Φ = 1.4798e-005
795.	N = 111,	t = [19 8],	Φ = 1.5054e-005
796.	N = 222,	t = [38 16],	Φ = 1.5054e-005

797.	N = 333,	t = [57 24],	Φ = 1.5054e-005
798.	N = 444,	t = [76 32],	Φ = 1.5054e-005
799.	N = 555,	t = [95 40],	Φ = 1.5054e-005
800.	N = 666,	t = [114 48],	Φ = 1.5054e-005
801.	N = 777,	t = [133 56],	Φ = 1.5054e-005
802.	N = 166,	t = [28 13],	Φ = 1.5191e-005
803.	N = 332,	t = [56 26],	Φ = 1.5191e-005
804.	N = 498,	t = [84 39],	Φ = 1.5191e-005
805.	N = 664,	t = [112 52],	Φ = 1.5191e-005
806.	N = 753,	t = [127 59],	Φ = 1.5583e-005
807.	N = 736,	t = [126 53],	Φ = 1.5651e-005
808.	N = 587,	t = [99 46],	Φ = 1.5694e-005
809.	N = 625,	t = [107 45],	Φ = 1.5758e-005
810.	N = 421,	t = [71 33],	Φ = 1.5895e-005
811.	N = 514,	t = [88 37],	Φ = 1.5913e-005
812.	N = 676,	t = [114 53],	Φ = 1.6070e-005
813.	N = 403,	t = [69 29],	Φ = 1.6153e-005
814.	N = 695,	t = [119 50],	Φ = 1.6332e-005
815.	N = 255,	t = [43 20],	Φ = 1.6362e-005
816.	N = 510,	t = [86 40],	Φ = 1.6362e-005
817.	N = 765,	t = [129 60],	Φ = 1.6362e-005
818.	N = 292,	t = [50 21],	Φ = 1.6581e-005
819.	N = 584,	t = [100 42],	Φ = 1.6581e-005
820.	N = 599,	t = [101 47],	Φ = 1.6694e-005
821.	N = 344,	t = [58 27],	Φ = 1.6942e-005
822.	N = 688,	t = [116 54],	Φ = 1.6942e-005
823.	N = 473,	t = [81 34],	Φ = 1.6950e-005
824.	N = 654,	t = [112 47],	Φ = 1.7116e-005
825.	N = 433,	t = [73 34],	Φ = 1.7289e-005
826.	N = 522,	t = [88 41],	Φ = 1.7519e-005
827.	N = 181,	t = [31 13],	Φ = 1.7554e-005
828.	N = 362,	t = [62 26],	Φ = 1.7554e-005
829.	N = 543,	t = [93 39],	Φ = 1.7554e-005
830.	N = 724,	t = [124 52],	Φ = 1.7554e-005
831.	N = 611,	t = [103 48],	Φ = 1.7683e-005
832.	N = 700,	t = [118 55],	Φ = 1.7806e-005
833.	N = 613,	t = [105 44],	Φ = 1.8027e-005
834.	N = 432,	t = [74 31],	Φ = 1.8227e-005
835.	N = 683,	t = [117 49],	Φ = 1.8407e-005
836.	N = 89,	t = [15 7],	Φ = 1.8661e-005
837.	N = 178,	t = [30 14],	Φ = 1.8661e-005
838.	N = 267,	t = [45 21],	Φ = 1.8661e-005
839.	N = 356,	t = [60 28],	Φ = 1.8661e-005
840.	N = 445,	t = [75 35],	Φ = 1.8661e-005
841.	N = 534,	t = [90 42],	Φ = 1.8661e-005
842.	N = 623,	t = [105 49],	Φ = 1.8661e-005
843.	N = 712,	t = [120 56],	Φ = 1.8661e-005
844.	N = 251,	t = [43 18],	Φ = 1.8720e-005
845.	N = 502,	t = [86 36],	Φ = 1.8720e-005
846.	N = 572,	t = [98 41],	Φ = 1.9097e-005
847.	N = 321,	t = [55 23],	Φ = 1.9394e-005
848.	N = 642,	t = [110 46],	Φ = 1.9394e-005
849.	N = 635,	t = [107 50],	Φ = 1.9627e-005
850.	N = 546,	t = [92 43],	Φ = 1.9787e-005
851.	N = 391,	t = [67 28],	Φ = 1.9834e-005
852.	N = 457,	t = [77 36],	Φ = 2.0010e-005
853.	N = 461,	t = [79 33],	Φ = 2.0142e-005
854.	N = 368,	t = [62 29],	Φ = 2.0343e-005
855.	N = 531,	t = [91 38],	Φ = 2.0371e-005
856.	N = 601,	t = [103 43],	Φ = 2.0547e-005
857.	N = 647,	t = [109 51],	Φ = 2.0581e-005
858.	N = 671,	t = [115 48],	Φ = 2.0688e-005
859.	N = 279,	t = [47 22],	Φ = 2.0895e-005

860.	N = 558,	t = [94 44],	Φ = 2.0895e-005
861.	N = 469,	t = [79 37],	Φ = 2.1334e-005
862.	N = 659,	t = [111 52],	Φ = 2.1521e-005
863.	N = 70,	t = [12 5],	Φ = 2.1910e-005
864.	N = 140,	t = [24 10],	Φ = 2.1910e-005
865.	N = 210,	t = [36 15],	Φ = 2.1910e-005
866.	N = 280,	t = [48 20],	Φ = 2.1910e-005
867.	N = 350,	t = [60 25],	Φ = 2.1910e-005
868.	N = 420,	t = [72 30],	Φ = 2.1910e-005
869.	N = 490,	t = [84 35],	Φ = 2.1910e-005
870.	N = 560,	t = [96 40],	Φ = 2.1910e-005
871.	N = 630,	t = [108 45],	Φ = 2.1910e-005
872.	N = 190,	t = [32 15],	Φ = 2.1985e-005
873.	N = 380,	t = [64 30],	Φ = 2.1985e-005
874.	N = 570,	t = [96 45],	Φ = 2.1985e-005
875.	N = 481,	t = [81 38],	Φ = 2.2630e-005
876.	N = 291,	t = [49 23],	Φ = 2.3056e-005
877.	N = 582,	t = [98 46],	Φ = 2.3056e-005
878.	N = 589,	t = [101 42],	Φ = 2.3346e-005
879.	N = 519,	t = [89 37],	Φ = 2.3543e-005
880.	N = 392,	t = [66 31],	Φ = 2.3585e-005
881.	N = 449,	t = [77 32],	Φ = 2.3802e-005
882.	N = 493,	t = [83 39],	Φ = 2.3899e-005
883.	N = 594,	t = [100 47],	Φ = 2.4108e-005
884.	N = 379,	t = [65 27],	Φ = 2.4160e-005
885.	N = 309,	t = [53 22],	Φ = 2.4686e-005
886.	N = 618,	t = [106 44],	Φ = 2.4686e-005
887.	N = 548,	t = [94 39],	Φ = 2.5052e-005
888.	N = 101,	t = [17 8],	Φ = 2.5141e-005
889.	N = 202,	t = [34 16],	Φ = 2.5141e-005
890.	N = 303,	t = [51 24],	Φ = 2.5141e-005
891.	N = 404,	t = [68 32],	Φ = 2.5141e-005
892.	N = 505,	t = [85 40],	Φ = 2.5141e-005
893.	N = 606,	t = [102 48],	Φ = 2.5141e-005
894.	N = 239,	t = [41 17],	Φ = 2.5530e-005
895.	N = 478,	t = [82 34],	Φ = 2.5530e-005
896.	N = 408,	t = [70 29],	Φ = 2.6178e-005
897.	N = 517,	t = [87 41],	Φ = 2.6353e-005
898.	N = 577,	t = [99 41],	Φ = 2.6450e-005
899.	N = 416,	t = [70 33],	Φ = 2.6652e-005
900.	N = 169,	t = [29 12],	Φ = 2.7110e-005
901.	N = 338,	t = [58 24],	Φ = 2.7110e-005
902.	N = 507,	t = [87 36],	Φ = 2.7110e-005
903.	N = 315,	t = [53 25],	Φ = 2.7146e-005
904.	N = 529,	t = [89 42],	Φ = 2.7538e-005
905.	N = 437,	t = [75 31],	Φ = 2.7994e-005
906.	N = 214,	t = [36 17],	Φ = 2.8119e-005
907.	N = 428,	t = [72 34],	Φ = 2.8119e-005
908.	N = 268,	t = [46 19],	Φ = 2.8559e-005
909.	N = 536,	t = [92 38],	Φ = 2.8559e-005
910.	N = 541,	t = [91 43],	Φ = 2.8694e-005
911.	N = 327,	t = [55 26],	Φ = 2.9073e-005
912.	N = 367,	t = [63 26],	Φ = 2.9239e-005
913.	N = 440,	t = [74 35],	Φ = 2.9543e-005
914.	N = 466,	t = [80 33],	Φ = 2.9633e-005
915.	N = 553,	t = [93 44],	Φ = 2.9823e-005
916.	N = 565,	t = [97 40],	Φ = 2.9891e-005
917.	N = 113,	t = [19 9],	Φ = 3.0923e-005
918.	N = 226,	t = [38 18],	Φ = 3.0923e-005
919.	N = 339,	t = [57 27],	Φ = 3.0923e-005
920.	N = 452,	t = [76 36],	Φ = 3.0923e-005
921.	N = 99,	t = [17 7],	Φ = 3.1120e-005
922.	N = 198,	t = [34 14],	Φ = 3.1120e-005

923.	N = 297,	t = [51 21],	Φ = 3.1120e-005
924.	N = 396,	t = [68 28],	Φ = 3.1120e-005
925.	N = 495,	t = [85 35],	Φ = 3.1120e-005
926.	N = 464,	t = [78 37],	Φ = 3.2262e-005
927.	N = 524,	t = [90 37],	Φ = 3.2472e-005
928.	N = 351,	t = [59 28],	Φ = 3.2698e-005
929.	N = 425,	t = [73 30],	Φ = 3.2791e-005
930.	N = 326,	t = [56 23],	Φ = 3.3307e-005
931.	N = 238,	t = [40 19],	Φ = 3.3559e-005
932.	N = 476,	t = [80 38],	Φ = 3.3559e-005
933.	N = 227,	t = [39 16],	Φ = 3.4284e-005
934.	N = 454,	t = [78 32],	Φ = 3.4284e-005
935.	N = 363,	t = [61 29],	Φ = 3.4401e-005
936.	N = 488,	t = [82 39],	Φ = 3.4816e-005
937.	N = 355,	t = [61 25],	Φ = 3.5194e-005
938.	N = 483,	t = [83 34],	Φ = 3.5625e-005
939.	N = 125,	t = [21 10],	Φ = 3.6034e-005
940.	N = 250,	t = [42 20],	Φ = 3.6034e-005
941.	N = 375,	t = [63 30],	Φ = 3.6034e-005
942.	N = 500,	t = [84 40],	Φ = 3.6034e-005
943.	N = 128,	t = [22 9],	Φ = 3.6836e-005
944.	N = 256,	t = [44 18],	Φ = 3.6836e-005
945.	N = 384,	t = [66 27],	Φ = 3.6836e-005
946.	N = 512,	t = [88 36],	Φ = 3.6836e-005
947.	N = 387,	t = [65 31],	Φ = 3.7600e-005
948.	N = 413,	t = [71 29],	Φ = 3.8278e-005
949.	N = 262,	t = [44 21],	Φ = 3.8358e-005
950.	N = 285,	t = [49 20],	Φ = 3.8935e-005
951.	N = 399,	t = [67 32],	Φ = 3.9102e-005
952.	N = 442,	t = [76 31],	Φ = 3.9553e-005
953.	N = 137,	t = [23 11],	Φ = 4.0543e-005
954.	N = 274,	t = [46 22],	Φ = 4.0543e-005
955.	N = 411,	t = [69 33],	Φ = 4.0543e-005
956.	N = 157,	t = [27 11],	Φ = 4.0688e-005
957.	N = 314,	t = [54 22],	Φ = 4.0688e-005
958.	N = 471,	t = [81 33],	Φ = 4.0688e-005
959.	N = 473,	t = [71 34],	Φ = 4.1927e-005
960.	N = 323,	t = [59 24],	Φ = 4.2175e-005
961.	N = 286,	t = [48 23],	Φ = 4.2598e-005
962.	N = 435,	t = [73 35],	Φ = 4.3255e-005
963.	N = 186,	t = [32 13],	Φ = 4.3450e-005
964.	N = 372,	t = [64 26],	Φ = 4.3450e-005
965.	N = 149,	t = [25 12],	Φ = 4.4532e-005
966.	N = 298,	t = [50 24],	Φ = 4.4532e-005
967.	N = 447,	t = [75 36],	Φ = 4.4532e-005
968.	N = 401,	t = [69 28],	Φ = 4.4556e-005
969.	N = 215,	t = [37 15],	Φ = 4.5524e-005
970.	N = 430,	t = [74 30],	Φ = 4.5524e-005
971.	N = 459,	t = [77 37],	Φ = 4.5759e-005
972.	N = 310,	t = [52 25],	Φ = 4.6354e-005
973.	N = 244,	t = [42 17],	Φ = 4.7138e-005
974.	N = 161,	t = [27 13],	Φ = 4.8073e-005
975.	N = 322,	t = [54 26],	Φ = 4.8073e-005
976.	N = 273,	t = [47 19],	Φ = 4.8428e-005
977.	N = 302,	t = [52 21],	Φ = 4.9483e-005
978.	N = 334,	t = [56 27],	Φ = 4.9697e-005
979.	N = 331,	t = [57 23],	Φ = 5.0362e-005
980.	N = 360,	t = [62 25],	Φ = 5.1106e-005
981.	N = 173,	t = [29 14],	Φ = 5.1233e-005
982.	N = 346,	t = [58 28],	Φ = 5.1233e-005
983.	N = 389,	t = [67 27],	Φ = 5.1742e-005
984.	N = 418,	t = [72 29],	Φ = 5.2294e-005
985.	N = 358,	t = [60 29],	Φ = 5.2686e-005

986.	N = 185,	t = [31 15],	Φ = 5.4064e-005
987.	N = 370,	t = [62 30],	Φ = 5.4064e-005
988.	N = 382,	t = [64 31],	Φ = 5.5371e-005
989.	N = 197,	t = [33 16],	Φ = 5.6613e-005
990.	N = 394,	t = [66 32],	Φ = 5.6613e-005
991.	N = 406,	t = [68 33],	Φ = 5.7795e-005
992.	N = 209,	t = [35 17],	Φ = 5.8919e-005
993.	N = 29,	t = [5 2],	Φ = 5.9973e-005
994.	N = 58,	t = [10 4],	Φ = 5.9973e-005
995.	N = 87,	t = [15 6],	Φ = 5.9973e-005
996.	N = 116,	t = [20 8],	Φ = 5.9973e-005
997.	N = 145,	t = [25 10],	Φ = 5.9973e-005
998.	N = 174,	t = [30 12],	Φ = 5.9973e-005
999.	N = 203,	t = [35 14],	Φ = 5.9973e-005
1000.	N = 232,	t = [40 16],	Φ = 5.9973e-005
1001.	N = 261,	t = [45 18],	Φ = 5.9973e-005
1002.	N = 290,	t = [50 20],	Φ = 5.9973e-005
1003.	N = 319,	t = [55 22],	Φ = 5.9973e-005
1004.	N = 348,	t = [60 24],	Φ = 5.9973e-005
1005.	N = 377,	t = [65 26],	Φ = 5.9973e-005
1006.	N = 221,	t = [37 18],	Φ = 6.1013e-005
1007.	N = 233,	t = [39 19],	Φ = 6.2923e-005
1008.	N = 245,	t = [41 20],	Φ = 6.4671e-005
1009.	N = 257,	t = [43 21],	Φ = 6.6277e-005
1010.	N = 269,	t = [45 22],	Φ = 6.7756e-005
1011.	N = 281,	t = [47 23],	Φ = 6.9123e-005
1012.	N = 365,	t = [63 25],	Φ = 6.9413e-005
1013.	N = 336,	t = [58 23],	Φ = 7.0260e-005
1014.	N = 293,	t = [49 24],	Φ = 7.0391e-005
1015.	N = 307,	t = [53 21],	Φ = 7.1273e-005
1016.	N = 305,	t = [51 25],	Φ = 7.1569e-005
1017.	N = 278,	t = [48 19],	Φ = 7.2508e-005
1018.	N = 317,	t = [53 26],	Φ = 7.2666e-005
1019.	N = 329,	t = [55 27],	Φ = 7.3691e-005
1020.	N = 249,	t = [43 17],	Φ = 7.4045e-005
1021.	N = 341,	t = [57 28],	Φ = 7.4650e-005
1022.	N = 353,	t = [59 29],	Φ = 7.5550e-005
1023.	N = 220,	t = [38 15],	Φ = 7.6010e-005
1024.	N = 191,	t = [33 13],	Φ = 7.8610e-005
1025.	N = 162,	t = [28 11],	Φ = 8.2211e-005
1026.	N = 324,	t = [56 22],	Φ = 8.2211e-005
1027.	N = 295,	t = [51 20],	Φ = 8.4586e-005
1028.	N = 133,	t = [23 9],	Φ = 8.7524e-005
1029.	N = 266,	t = [46 18],	Φ = 8.7524e-005
1030.	N = 237,	t = [41 16],	Φ = 9.1250e-005
1031.	N = 104,	t = [18 7],	Φ = 9.6129e-005
1032.	N = 208,	t = [36 14],	Φ = 9.6129e-005
1033.	N = 312,	t = [54 21],	Φ = 9.6129e-005
1034.	N = 283,	t = [49 19],	Φ = 1.0031e-004
1035.	N = 179,	t = [31 12],	Φ = 1.0278e-004
1036.	N = 12,	t = [2 1],	Φ = 1.0337e-004
1037.	N = 24,	t = [4 2],	Φ = 1.0337e-004
1038.	N = 36,	t = [6 3],	Φ = 1.0337e-004
1039.	N = 48,	t = [8 4],	Φ = 1.0337e-004
1040.	N = 60,	t = [10 5],	Φ = 1.0337e-004
1041.	N = 72,	t = [12 6],	Φ = 1.0337e-004
1042.	N = 84,	t = [14 7],	Φ = 1.0337e-004
1043.	N = 96,	t = [16 8],	Φ = 1.0337e-004
1044.	N = 108,	t = [18 9],	Φ = 1.0337e-004
1045.	N = 120,	t = [20 10],	Φ = 1.0337e-004
1046.	N = 132,	t = [22 11],	Φ = 1.0337e-004
1047.	N = 144,	t = [24 12],	Φ = 1.0337e-004
1048.	N = 156,	t = [26 13],	Φ = 1.0337e-004

1049.	N = 168,	t = [28 14],	Φ = 1.0337e-004
1050.	N = 180,	t = [30 15],	Φ = 1.0337e-004
1051.	N = 192,	t = [32 16],	Φ = 1.0337e-004
1052.	N = 204,	t = [34 17],	Φ = 1.0337e-004
1053.	N = 216,	t = [36 18],	Φ = 1.0337e-004
1054.	N = 228,	t = [38 19],	Φ = 1.0337e-004
1055.	N = 240,	t = [40 20],	Φ = 1.0337e-004
1056.	N = 252,	t = [42 21],	Φ = 1.0337e-004
1057.	N = 264,	t = [44 22],	Φ = 1.0337e-004
1058.	N = 276,	t = [46 23],	Φ = 1.0337e-004
1059.	N = 288,	t = [48 24],	Φ = 1.0337e-004
1060.	N = 300,	t = [50 25],	Φ = 1.0337e-004
1061.	N = 254,	t = [44 17],	Φ = 1.0557e-004
1062.	N = 75,	t = [13 5],	Φ = 1.1238e-004
1063.	N = 150,	t = [26 10],	Φ = 1.1238e-004
1064.	N = 225,	t = [39 15],	Φ = 1.1238e-004
1065.	N = 271,	t = [47 18],	Φ = 1.1895e-004
1066.	N = 196,	t = [34 13],	Φ = 1.2151e-004
1067.	N = 121,	t = [21 8],	Φ = 1.2735e-004
1068.	N = 242,	t = [42 16],	Φ = 1.2735e-004
1069.	N = 167,	t = [29 11],	Φ = 1.3438e-004
1070.	N = 213,	t = [37 14],	Φ = 1.3846e-004
1071.	N = 259,	t = [45 17],	Φ = 1.4112e-004
1072.	N = 247,	t = [41 21],	Φ = 1.5072e-004
1073.	N = 235,	t = [39 20],	Φ = 1.5338e-004
1074.	N = 46,	t = [8 3],	Φ = 1.5377e-004
1075.	N = 92,	t = [16 6],	Φ = 1.5377e-004
1076.	N = 138,	t = [24 9],	Φ = 1.5377e-004
1077.	N = 184,	t = [32 12],	Φ = 1.5377e-004
1078.	N = 230,	t = [40 15],	Φ = 1.5377e-004
1079.	N = 223,	t = [37 19],	Φ = 1.5635e-004
1080.	N = 211,	t = [35 18],	Φ = 1.5969e-004
1081.	N = 199,	t = [33 17],	Φ = 1.6348e-004
1082.	N = 187,	t = [31 16],	Φ = 1.6780e-004
1083.	N = 201,	t = [35 13],	Φ = 1.7087e-004
1084.	N = 175,	t = [29 15],	Φ = 1.7279e-004
1085.	N = 155,	t = [27 10],	Φ = 1.7611e-004
1086.	N = 163,	t = [27 14],	Φ = 1.7861e-004
1087.	N = 151,	t = [25 13],	Φ = 1.8547e-004
1088.	N = 109,	t = [19 7],	Φ = 1.8600e-004
1089.	N = 218,	t = [38 14],	Φ = 1.8600e-004
1090.	N = 139,	t = [23 12],	Φ = 1.9368e-004
1091.	N = 172,	t = [30 11],	Φ = 1.9513e-004
1092.	N = 127,	t = [21 11],	Φ = 2.0367e-004
1093.	N = 63,	t = [11 4],	Φ = 2.1145e-004
1094.	N = 126,	t = [22 8],	Φ = 2.1145e-004
1095.	N = 189,	t = [33 12],	Φ = 2.1145e-004
1096.	N = 115,	t = [19 10],	Φ = 2.1609e-004
1097.	N = 206,	t = [36 13],	Φ = 2.2558e-004
1098.	N = 103,	t = [17 9],	Φ = 2.3190e-004
1099.	N = 143,	t = [25 9],	Φ = 2.3195e-004
1100.	N = 194,	t = [32 17],	Φ = 2.4155e-004
1101.	N = 80,	t = [14 5],	Φ = 2.4875e-004
1102.	N = 160,	t = [28 10],	Φ = 2.4875e-004
1103.	N = 91,	t = [15 8],	Φ = 2.5270e-004
1104.	N = 182,	t = [30 16],	Φ = 2.5270e-004
1105.	N = 177,	t = [31 11],	Φ = 2.6276e-004
1106.	N = 170,	t = [28 15],	Φ = 2.6573e-004
1107.	N = 97,	t = [17 6],	Φ = 2.7459e-004
1108.	N = 79,	t = [13 7],	Φ = 2.8115e-004
1109.	N = 158,	t = [26 14],	Φ = 2.8115e-004
1110.	N = 114,	t = [20 7],	Φ = 2.9348e-004
1111.	N = 146,	t = [24 13],	Φ = 2.9966e-004

1112.	N = 131,	t = [23 8],	Φ = 3.0787e-004
1113.	N = 148,	t = [26 9],	Φ = 3.1919e-004
1114.	N = 67,	t = [11 6],	Φ = 3.2225e-004
1115.	N = 134,	t = [22 12],	Φ = 3.2225e-004
1116.	N = 165,	t = [29 10],	Φ = 3.2832e-004
1117.	N = 122,	t = [20 11],	Φ = 3.5036e-004
1118.	N = 55,	t = [9 5],	Φ = 3.8620e-004
1119.	N = 110,	t = [18 10],	Φ = 3.8620e-004
1120.	N = 17,	t = [3 1],	Φ = 4.1322e-004
1121.	N = 34,	t = [6 2],	Φ = 4.1322e-004
1122.	N = 51,	t = [9 3],	Φ = 4.1322e-004
1123.	N = 68,	t = [12 4],	Φ = 4.1322e-004
1124.	N = 85,	t = [15 5],	Φ = 4.1322e-004
1125.	N = 102,	t = [18 6],	Φ = 4.1322e-004
1126.	N = 119,	t = [21 7],	Φ = 4.1322e-004
1127.	N = 136,	t = [24 8],	Φ = 4.1322e-004
1128.	N = 153,	t = [27 9],	Φ = 4.1322e-004
1129.	N = 98,	t = [16 9],	Φ = 4.3328e-004
1130.	N = 141,	t = [23 13],	Φ = 4.5238e-004
1131.	N = 43,	t = [7 4],	Φ = 4.9747e-004
1132.	N = 86,	t = [14 8],	Φ = 4.9747e-004
1133.	N = 129,	t = [21 12],	Φ = 4.9747e-004
1134.	N = 124,	t = [22 7],	Φ = 5.4119e-004
1135.	N = 117,	t = [19 11],	Φ = 5.5467e-004
1136.	N = 107,	t = [19 6],	Φ = 5.6310e-004
1137.	N = 74,	t = [12 7],	Φ = 5.8935e-004
1138.	N = 90,	t = [16 5],	Φ = 5.9399e-004
1139.	N = 105,	t = [17 10],	Φ = 6.2924e-004
1140.	N = 73,	t = [13 4],	Φ = 6.4075e-004
1141.	N = 56,	t = [10 3],	Φ = 7.1958e-004
1142.	N = 112,	t = [20 6],	Φ = 7.1958e-004
1143.	N = 31,	t = [5 3],	Φ = 7.2979e-004
1144.	N = 62,	t = [10 6],	Φ = 7.2979e-004
1145.	N = 93,	t = [15 9],	Φ = 7.2979e-004
1146.	N = 95,	t = [17 5],	Φ = 7.8323e-004
1147.	N = 81,	t = [13 8],	Φ = 8.7132e-004
1148.	N = 39,	t = [7 2],	Φ = 8.7930e-004
1149.	N = 78,	t = [14 4],	Φ = 8.7930e-004
1150.	N = 50,	t = [8 5],	Φ = 9.6543e-004
1151.	N = 100,	t = [16 10],	Φ = 9.6543e-004
1152.	N = 61,	t = [11 3],	Φ = 1.0399e-003
1153.	N = 69,	t = [11 7],	Φ = 1.0821e-003
1154.	N = 83,	t = [15 4],	Φ = 1.1199e-003
1155.	N = 88,	t = [14 9],	Φ = 1.1514e-003
1156.	N = 22,	t = [4 1],	Φ = 1.3572e-003
1157.	N = 44,	t = [8 2],	Φ = 1.3572e-003
1158.	N = 66,	t = [12 3],	Φ = 1.3572e-003
1159.	N = 19,	t = [3 2],	Φ = 1.4214e-003
1160.	N = 38,	t = [6 4],	Φ = 1.4214e-003
1161.	N = 57,	t = [9 6],	Φ = 1.4214e-003
1162.	N = 76,	t = [12 8],	Φ = 1.4214e-003
1163.	N = 71,	t = [13 3],	Φ = 1.6632e-003
1164.	N = 49,	t = [9 2],	Φ = 1.8105e-003
1165.	N = 64,	t = [10 7],	Φ = 1.8396e-003
1166.	N = 45,	t = [7 5],	Φ = 2.0326e-003
1167.	N = 27,	t = [5 1],	Φ = 2.2273e-003
1168.	N = 54,	t = [10 2],	Φ = 2.2273e-003
1169.	N = 26,	t = [4 3],	Φ = 2.5493e-003
1170.	N = 52,	t = [8 6],	Φ = 2.5493e-003
1171.	N = 59,	t = [11 2],	Φ = 2.6058e-003
1172.	N = 32,	t = [6 1],	Φ = 2.9479e-003
1173.	N = 33,	t = [5 4],	Φ = 3.3499e-003
1174.	N = 37,	t = [7 1],	Φ = 3.5361e-003

1175.	N = 40,	t = [6 5],	$\Phi = 3.9300e-003$
1176.	N = 42,	t = [8 1],	$\Phi = 4.0195e-003$
1177.	N = 47,	t = [7 6],	$\Phi = 4.3655e-003$
1178.	N = 7,	t = [1 1],	$\Phi = 7.3053e-003$
1179.	N = 14,	t = [2 2],	$\Phi = 7.3053e-003$
1180.	N = 21,	t = [3 3],	$\Phi = 7.3053e-003$
1181.	N = 28,	t = [4 4],	$\Phi = 7.3053e-003$
1182.	N = 35,	t = [5 5],	$\Phi = 7.3053e-003$