

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P332919-940

Luminaire Tested: **SA4XXRDIP-C575D1205U940-4F0-1E-UDD-A**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P332919-940  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA4XXRDIP-C575D1205U940-4F0-1E-UDD-A  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 575 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1205 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

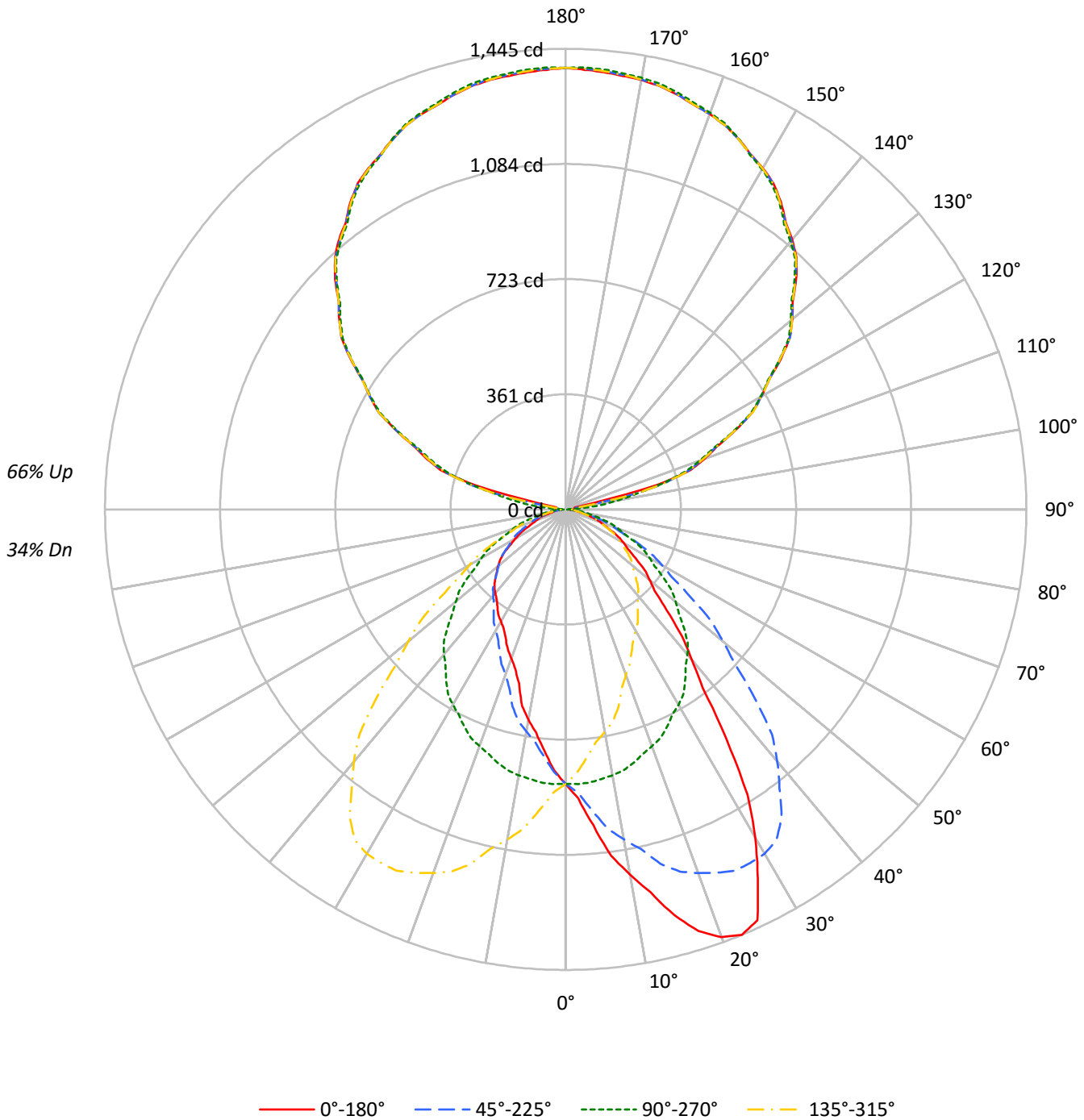
Lumens per Lamp: N/A  
Luminaire Lumens: 6465.9 lumens  
Efficiency: N/A  
Efficacy: 130.9 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39  
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 49.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	34				
1	94	90	87	83	85	82	79	76	65	63	61	51	49	48	37	36	35	29				
2	86	79	73	69	78	72	67	63	58	54	51	45	42	41	33	31	30	25				
3	79	70	63	57	71	63	57	53	51	47	43	40	37	35	29	28	26	21				
4	72	62	54	49	65	56	50	45	46	41	37	36	32	30	26	24	23	19				
5	66	55	47	42	60	50	43	38	41	36	32	32	29	26	24	22	20	16				
6	61	49	42	36	55	45	38	33	37	32	28	29	25	23	22	19	18	14				
7	56	45	37	32	51	41	34	29	33	28	25	26	23	20	20	17	16	13				
8	52	40	33	28	47	37	30	26	30	25	22	24	21	18	18	16	14	12				
9	49	37	30	25	44	34	27	23	28	23	20	22	19	16	17	14	13	10				
10	45	34	27	22	41	31	25	21	25	21	18	20	17	15	16	13	12	10				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	6952	6952	6952	6952
5°	8064	6972	6163	6972
10°	9539	6942	5501	6942
15°	11019	6878	4726	6878
20°	12269	6790	4274	6790
25°	12665	6703	3968	6703
30°	11087	6598	3784	6598
35°	8630	6441	3672	6441
40°	6472	6263	3613	6263
45°	5109	5977	3580	5977
50°	4314	5647	3478	5647
55°	3761	5284	3291	5284
60°	3384	4907	2913	4907
65°	2982	4500	2506	4500
70°	2686	4079	2261	4079
75°	2249	3615	1928	3615
80°	1901	3082	1808	3082
85°	1612	2408	1612	2408



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.4	1.3
10°-20°	251.7	3.9
20°-30°	393.7	6.1
30°-40°	437.6	6.8
40°-50°	388.3	6.0
50°-60°	302.5	4.7
60°-70°	198.1	3.1
70°-80°	97.4	1.5
80°-90°	28.0	0.4
90°-100°	47.4	0.7
100°-110°	302.1	4.7
110°-120°	577.9	8.9
120°-130°	733.6	11.3
130°-140°	784.9	12.1
140°-150°	734.0	11.4
150°-160°	591.9	9.2
160°-170°	381.8	5.9
170°-180°	131.6	2.0
0°-30°	728.8	11.3
0°-40°	1166.4	18.0
0°-60°	1857.2	28.7
0°-90°	2180.7	33.7
90°-120°	927.4	14.3
90°-150°	3179.9	49.2
90°-180°	4285.0	66.3
0°-180°	6465.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	861	861	861	861	861	
5°	995	860	760	860	995	101
15°	1318	823	566	823	1318	375
25°	1422	752	446	752	1422	631
35°	876	654	373	654	876	549
45°	448	524	314	524	448	354
55°	267	375	234	375	267	243
65°	156	236	131	236	156	157
75°	72	116	62	116	72	79
85°	17	26	17	26	17	20
90°	31	3	31	3	31	14
95°	30	57	30	57	30	24
105°	295	312	295	312	295	258
115°	586	582	586	582	586	580
125°	825	818	825	818	825	734
135°	1023	1015	1023	1015	1023	787
145°	1177	1171	1177	1171	1177	736
155°	1283	1284	1283	1284	1283	591
165°	1348	1354	1348	1354	1348	381
175°	1377	1385	1377	1385	1377	131
180°	1385	1385	1385	1385	1385	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1
2.5°	908.3	910.8	908.3	908.0	905.3	904.5	903.3	899.7	893.0	889.1	890.0
5°	995.1	1003.7	998.9	998.2	990.5	982.9	978.0	967.0	955.1	947.2	940.6
7.5°	1095.4	1100.4	1097.3	1092.4	1080.1	1073.1	1061.8	1047.2	1026.1	1009.9	995.1
10°	1163.7	1167.8	1166.4	1157.4	1148.4	1130.0	1119.6	1099.1	1072.4	1051.2	1031.4
12.5°	1230.8	1235.3	1223.1	1223.5	1206.4	1191.9	1175.4	1149.7	1118.7	1091.5	1066.8
15°	1318.4	1312.9	1312.9	1305.9	1286.8	1266.7	1249.7	1222.6	1183.7	1151.2	1116.9
17.5°	1387.0	1388.9	1386.1	1369.7	1354.7	1333.9	1302.7	1271.1	1235.0	1191.2	1156.2
20°	1428.1	1428.1	1425.0	1413.8	1394.4	1372.2	1338.5	1304.2	1258.4	1214.3	1174.7
22.5°	1444.7	1445.8	1442.2	1433.0	1415.5	1393.8	1365.2	1330.3	1283.1	1233.5	1184.5
25°	1421.8	1428.3	1429.1	1426.6	1421.5	1408.3	1383.7	1347.9	1305.6	1251.8	1199.1
27.5°	1305.4	1313.7	1321.0	1332.9	1348.9	1357.3	1358.3	1340.2	1303.2	1251.5	1198.5
30°	1189.4	1196.2	1218.8	1248.3	1271.2	1292.0	1310.1	1314.9	1294.1	1247.6	1191.8
32.5°	1060.5	1070.0	1092.5	1124.3	1162.4	1197.7	1238.2	1258.8	1258.3	1230.4	1178.8
35°	875.7	882.6	903.5	936.7	982.6	1034.9	1099.1	1149.1	1183.1	1180.6	1149.1
37.5°	706.2	714.1	735.1	762.8	807.2	872.0	934.2	1003.0	1065.9	1101.2	1090.6
40°	614.1	614.5	634.9	663.3	705.0	761.5	829.2	905.5	975.6	1032.9	1043.9
42.5°	541.4	541.4	555.0	585.7	615.6	668.9	733.4	809.2	891.3	957.3	986.8
45°	447.5	450.7	461.8	480.2	503.7	548.8	600.6	671.0	762.9	841.3	890.3
47.5°	379.0	383.6	390.7	405.6	424.5	454.5	497.2	560.5	635.3	721.6	791.2
50°	343.5	344.2	353.2	361.5	377.8	401.8	439.3	492.0	560.7	643.5	720.9
52.5°	313.0	312.8	318.3	328.8	342.1	360.7	390.9	439.0	499.9	574.2	654.1
55°	267.2	268.9	273.0	281.3	291.4	304.6	328.6	364.6	412.5	476.0	548.5
57.5°	232.3	233.2	236.5	240.0	249.2	258.9	276.8	301.8	342.2	394.2	461.8
60°	209.6	209.9	211.0	216.2	223.5	232.5	244.6	265.7	299.8	347.3	400.7
62.5°	187.3	188.0	189.6	193.4	199.0	205.3	217.9	235.0	263.1	303.7	351.9
65°	156.1	156.5	158.9	160.3	164.8	170.3	179.7	191.2	210.6	244.6	281.1
67.5°	130.5	130.5	130.5	132.5	135.6	139.3	144.9	154.1	168.7	189.6	221.7
70°	113.8	113.8	114.5	115.6	117.3	120.4	123.5	130.5	141.2	158.2	182.8
72.5°	98.3	98.5	99.2	99.4	100.3	102.9	105.2	109.6	117.6	130.5	150.3
75°	72.1	73.2	74.9	76.3	78.0	77.8	80.2	82.9	85.3	93.0	104.4
77.5°	53.7	53.1	53.3	54.6	54.8	55.1	56.8	58.9	60.8	64.4	68.5
80°	40.9	40.9	42.0	42.4	42.0	42.4	44.1	45.1	45.8	47.2	51.0
82.5°	30.9	31.5	31.1	31.5	31.7	32.1	33.5	33.7	34.4	35.0	36.6
85°	17.4	17.7	18.0	17.4	17.4	17.4	18.0	18.4	19.1	18.7	19.4
87.5°	12.3	11.9	12.1	12.0	12.2	11.8	11.8	12.0	11.2	11.2	10.9
90°	31.1	30.6	30.1	29.7	29.2	28.4	26.9	25.6	24.2	22.8	21.0
92.5°	28.6	28.5	28.4	28.4	28.3	27.5	26.1	24.7	23.4	21.9	20.2
95°	30.1	29.8	29.6	29.3	29.2	28.4	26.9	25.6	24.2	22.8	22.6
97.5°	29.0	28.8	28.5	28.4	28.1	27.9	27.7	27.6	27.5	27.4	53.1
100°	29.0	28.8	28.5	28.4	28.1	30.0	33.9	37.7	41.6	45.6	77.4
102.5°	29.9	29.8	29.8	29.7	29.7	50.7	93.0	135.2	177.5	219.6	223.8
105°	295.3	303.6	311.8	320.1	328.4	331.5	329.5	327.4	325.4	323.2	322.1
107.5°	411.5	410.6	409.8	408.9	408.0	407.1	406.1	405.1	404.0	403.1	401.4
110°	462.1	461.5	460.7	460.0	459.3	458.8	458.3	457.9	457.4	456.9	455.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	512.6	511.8	511.0	510.1	509.2	508.8	508.9	509.0	509.1	509.2	508.5
115°	586.5	586.5	586.5	586.5	586.5	586.2	585.8	585.3	584.9	584.3	584.6
117.5°	661.5	661.6	661.6	661.7	661.8	661.9	662.0	662.1	662.2	662.3	661.8
120°	708.7	709.2	709.6	710.1	710.5	710.5	710.1	709.6	709.2	708.7	708.9
122.5°	755.1	755.5	756.1	756.5	757.0	757.1	756.8	756.5	756.3	756.0	755.6
125°	824.7	824.6	824.3	824.0	823.9	823.4	822.7	822.0	821.3	820.6	821.1
127.5°	885.9	886.1	886.3	886.4	886.6	886.8	886.9	887.1	887.2	887.3	886.3
130°	927.3	927.3	927.3	927.3	927.3	927.2	927.0	926.8	926.5	926.3	925.6
132.5°	965.5	965.6	965.8	966.0	966.2	966.2	966.0	965.7	965.5	965.3	964.4
135°	1022.6	1022.2	1021.7	1021.3	1020.8	1020.4	1019.8	1019.4	1019.0	1018.5	1017.6
137.5°	1071.6	1071.7	1071.8	1072.0	1072.1	1071.9	1071.4	1070.9	1070.4	1069.9	1068.9
140°	1105.5	1105.3	1105.1	1104.8	1104.7	1104.2	1103.5	1102.8	1102.1	1101.4	1100.9
142.5°	1133.7	1133.7	1133.6	1133.6	1133.5	1133.3	1132.7	1132.3	1131.8	1131.2	1131.0
145°	1177.1	1176.6	1176.1	1175.6	1175.2	1174.8	1174.7	1174.4	1174.2	1173.9	1173.9
147.5°	1212.9	1212.6	1212.5	1212.2	1211.9	1211.7	1211.6	1211.4	1211.2	1211.0	1211.2
150°	1236.1	1235.9	1235.6	1235.4	1235.2	1235.0	1235.0	1235.0	1235.0	1235.0	1235.3
152.5°	1256.0	1256.2	1256.2	1256.4	1256.5	1256.4	1256.1	1255.7	1255.4	1255.0	1255.4
155°	1282.7	1283.4	1284.1	1284.8	1285.5	1285.4	1284.4	1283.5	1282.6	1281.7	1282.4
157.5°	1305.1	1306.3	1307.5	1308.7	1309.9	1309.9	1308.7	1307.5	1306.3	1305.1	1305.9
160°	1320.0	1321.4	1322.8	1324.2	1325.5	1325.5	1324.2	1322.8	1321.4	1320.0	1320.3
162.5°	1331.6	1333.2	1334.8	1336.3	1337.9	1338.0	1336.6	1335.2	1333.8	1332.5	1332.7
165°	1348.0	1350.1	1352.1	1354.2	1356.3	1356.4	1354.6	1352.7	1350.9	1349.1	1349.1
167.5°	1360.2	1362.5	1364.9	1367.2	1369.4	1369.6	1367.5	1365.6	1363.5	1361.5	1361.6
170°	1367.7	1370.0	1372.3	1374.6	1376.9	1377.2	1375.3	1373.4	1371.6	1369.8	1369.5
172.5°	1371.8	1374.3	1376.8	1379.3	1381.8	1382.1	1380.3	1378.4	1376.5	1374.8	1374.5
175°	1377.0	1379.7	1382.5	1385.3	1388.0	1388.4	1386.3	1384.3	1382.2	1380.1	1379.9
177.5°	1380.4	1382.5	1384.7	1387.0	1389.2	1389.6	1388.0	1386.6	1385.1	1383.7	1383.3
180°	1385.3	1385.3	1385.3	1385.3	1385.3	1385.3	1385.3	1385.3	1385.3	1385.3	1385.3



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1
2.5°	887.3	883.3	881.4	876.9	871.6	868.9	866.4	862.8	858.1	853.1	849.4
5°	932.3	923.9	913.5	901.0	889.9	879.1	869.8	860.4	849.7	838.6	827.5
7.5°	978.5	962.1	944.4	923.9	904.0	885.9	869.2	853.3	835.3	819.0	804.3
10°	1010.7	988.5	963.9	937.8	911.8	889.2	867.0	846.9	824.7	804.9	788.3
12.5°	1036.8	1010.7	981.1	948.6	917.3	890.0	864.5	838.3	813.1	791.6	769.4
15°	1080.0	1044.3	1004.4	965.5	925.0	887.9	853.5	823.0	794.2	764.0	742.8
17.5°	1109.8	1067.4	1019.0	972.2	924.3	880.5	840.9	804.5	771.2	740.5	715.2
20°	1127.6	1080.8	1027.0	973.8	920.1	873.3	830.6	790.3	756.0	722.7	696.7
22.5°	1137.6	1085.7	1027.0	971.3	915.7	865.0	818.1	776.2	738.8	705.5	676.7
25°	1140.8	1085.2	1025.2	961.4	900.4	846.6	798.0	752.5	710.9	677.6	647.0
27.5°	1136.3	1070.9	1009.5	944.0	881.0	824.3	773.3	725.5	683.9	648.1	616.8
30°	1129.6	1059.6	993.6	925.7	861.8	807.4	753.6	707.8	664.4	627.3	595.8
32.5°	1115.3	1045.7	974.8	905.1	840.4	784.3	733.3	687.2	644.7	606.7	573.2
35°	1086.6	1016.2	939.1	867.7	804.2	745.9	698.0	653.6	613.1	572.5	537.1
37.5°	1048.9	977.0	900.4	822.2	758.6	703.6	659.6	618.0	578.3	541.3	502.0
40°	1013.4	947.9	868.8	791.0	725.9	672.7	632.1	594.3	554.5	517.6	478.4
42.5°	970.4	914.5	834.6	756.6	692.2	641.1	603.2	566.3	530.0	494.4	453.4
45°	898.6	856.3	781.3	706.4	641.5	590.8	556.2	523.5	491.6	457.6	419.1
47.5°	816.3	787.6	723.0	646.2	586.2	540.6	507.1	480.5	453.4	419.5	385.7
50°	759.1	740.7	678.3	608.2	551.0	509.0	474.7	449.6	427.1	394.5	364.3
52.5°	698.0	688.3	635.5	568.5	513.2	472.1	442.7	420.3	397.4	370.3	342.1
55°	605.1	610.3	565.5	507.6	455.6	420.9	394.1	375.4	356.0	333.1	311.2
57.5°	510.0	529.1	499.0	448.1	399.3	367.3	347.1	331.4	315.1	296.0	277.4
60°	453.1	469.0	452.1	407.3	364.6	334.8	316.1	303.9	287.6	270.3	256.0
62.5°	397.6	414.6	404.6	368.5	328.9	303.2	286.7	275.4	263.2	248.1	233.3
65°	327.9	338.9	334.1	309.2	281.1	259.1	243.9	235.6	224.4	213.4	200.2
67.5°	251.1	272.6	269.7	256.5	232.2	215.1	205.1	197.8	187.6	179.4	170.4
70°	206.4	226.2	225.9	215.1	201.9	185.9	179.1	172.8	163.7	155.8	148.5
72.5°	169.0	187.1	189.8	181.6	172.5	160.4	153.7	149.5	140.7	135.3	129.3
75°	118.3	131.5	135.0	135.0	130.8	124.6	118.7	115.9	109.6	104.8	101.3
77.5°	77.6	85.9	91.3	92.6	93.2	91.1	86.2	84.3	79.5	77.8	74.5
80°	54.8	60.4	66.6	68.7	70.4	69.7	67.7	66.3	61.8	60.0	58.7
82.5°	37.9	40.9	46.1	50.6	50.2	52.0	50.2	49.0	45.7	45.0	43.6
85°	19.8	20.2	20.8	23.9	25.7	26.4	26.8	26.0	25.0	25.0	22.6
87.5°	10.5	9.8	10.0	9.6	9.4	10.0	10.3	10.1	9.7	9.4	9.1
90°	19.1	17.3	15.4	13.2	10.7	8.2	5.6	3.1	5.6	8.2	10.7
92.5°	18.3	16.4	14.6	13.6	13.5	13.4	13.2	13.0	13.2	13.4	13.5
95°	22.3	22.1	21.8	25.7	33.5	41.3	49.1	57.0	49.1	41.3	33.5
97.5°	78.7	104.4	130.1	140.5	135.6	130.8	125.9	121.0	125.9	130.8	135.6
100°	109.1	140.9	172.7	186.5	182.4	178.3	174.1	170.0	174.1	178.3	182.4
102.5°	227.9	232.1	236.2	236.7	233.7	230.7	227.7	224.6	227.7	230.7	233.7
105°	320.9	319.9	318.7	317.4	316.0	314.6	313.3	311.8	313.3	314.6	316.0
107.5°	399.9	398.3	396.8	395.7	394.9	394.3	393.6	392.9	393.6	394.3	394.9
110°	454.1	452.8	451.4	450.4	449.7	449.0	448.3	447.6	448.3	449.0	449.7





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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	507.8	507.2	506.6	505.6	504.4	503.1	501.9	500.7	501.9	503.1	504.4
115°	584.9	585.1	585.3	585.1	584.3	583.7	583.0	582.3	583.0	583.7	584.3
117.5°	661.3	660.8	660.2	659.5	658.6	657.7	656.7	655.9	656.7	657.7	658.6
120°	709.2	709.4	709.6	709.3	708.4	707.5	706.5	705.6	706.5	707.5	708.4
122.5°	755.3	755.0	754.7	754.2	753.7	753.1	752.6	752.0	752.6	753.1	753.7
125°	821.5	822.0	822.4	822.2	821.3	820.4	819.5	818.5	819.5	820.4	821.3
127.5°	885.2	884.1	883.1	882.4	882.3	882.0	881.7	881.5	881.7	882.0	882.3
130°	924.9	924.3	923.5	923.1	922.8	922.7	922.4	922.1	922.4	922.7	922.8
132.5°	963.5	962.6	961.8	961.1	960.7	960.3	959.8	959.5	959.8	960.3	960.7
135°	1016.6	1015.7	1014.9	1014.5	1014.7	1014.9	1015.2	1015.4	1015.2	1014.9	1014.7
137.5°	1067.9	1066.8	1065.9	1065.3	1065.2	1065.1	1065.1	1065.0	1065.1	1065.1	1065.2
140°	1100.5	1100.0	1099.6	1099.1	1098.7	1098.1	1097.7	1097.3	1097.7	1098.1	1098.7
142.5°	1130.7	1130.4	1130.2	1129.6	1128.7	1127.9	1127.1	1126.2	1127.1	1127.9	1128.7
145°	1173.9	1173.9	1173.9	1173.6	1172.9	1172.2	1171.5	1170.8	1171.5	1172.2	1172.9
147.5°	1211.5	1211.7	1211.9	1211.4	1210.1	1208.8	1207.6	1206.2	1207.6	1208.8	1210.1
150°	1235.6	1235.7	1236.0	1235.6	1234.8	1233.8	1232.9	1232.0	1232.9	1233.8	1234.8
152.5°	1255.8	1256.2	1256.6	1256.4	1255.7	1255.0	1254.3	1253.5	1254.3	1255.0	1255.7
155°	1283.1	1283.8	1284.4	1284.7	1284.4	1284.2	1284.0	1283.8	1284.0	1284.2	1284.4
157.5°	1306.7	1307.4	1308.2	1308.7	1308.9	1308.9	1309.1	1309.2	1309.1	1308.9	1308.9
160°	1320.4	1320.7	1321.0	1321.4	1322.1	1322.8	1323.5	1324.2	1323.5	1322.8	1322.1
162.5°	1332.9	1333.1	1333.4	1333.9	1334.8	1335.7	1336.6	1337.4	1336.6	1335.7	1334.8
165°	1349.1	1349.1	1349.1	1349.6	1350.8	1351.9	1353.1	1354.2	1353.1	1351.9	1350.8
167.5°	1361.7	1361.9	1362.0	1362.7	1363.9	1365.1	1366.3	1367.4	1366.3	1365.1	1363.9
170°	1369.3	1369.0	1368.9	1369.4	1370.8	1372.2	1373.6	1374.9	1373.6	1372.2	1370.8
172.5°	1374.3	1374.0	1373.8	1374.4	1375.7	1377.2	1378.5	1379.9	1378.5	1377.2	1375.7
175°	1379.7	1379.4	1379.2	1379.7	1381.2	1382.5	1383.9	1385.3	1383.9	1382.5	1381.2
177.5°	1382.9	1382.5	1382.2	1382.6	1383.9	1385.2	1386.5	1387.8	1386.5	1385.2	1383.9
180°	1385.3	1385.3	1385.3	1385.3	1385.3	1385.3	1385.3	1385.3	1385.3	1385.3	1385.3



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1
2.5°	845.6	842.8	839.2	835.0	830.0	825.6	823.7	825.3	826.2	823.9	823.7
5°	819.8	811.2	804.2	793.8	785.5	778.6	773.6	771.6	772.3	766.8	765.4
7.5°	790.9	780.6	769.3	756.9	745.4	735.2	729.9	726.9	721.0	718.5	714.3
10°	772.3	758.4	747.3	732.7	719.6	707.4	701.5	696.7	690.8	688.0	682.1
12.5°	753.1	737.1	724.9	709.7	696.2	681.6	676.0	667.0	657.7	651.9	644.4
15°	726.1	706.8	691.8	673.8	657.8	641.1	626.2	609.6	603.3	590.1	582.6
17.5°	694.6	674.8	656.4	632.2	607.6	586.9	571.0	555.1	545.5	537.1	533.2
20°	673.8	655.8	630.1	602.0	574.5	551.6	538.8	528.4	518.0	512.1	507.9
22.5°	654.1	631.1	601.2	570.9	543.5	525.6	514.7	504.0	495.5	489.9	484.4
25°	621.1	590.8	559.3	524.6	505.9	490.3	478.4	469.8	464.6	457.3	454.5
27.5°	587.1	550.5	515.7	492.4	472.9	458.6	448.4	441.8	435.2	430.5	427.0
30°	561.0	523.9	492.7	470.5	450.7	438.9	430.5	422.9	417.8	413.9	411.2
32.5°	535.2	498.1	471.8	448.0	432.4	420.9	412.0	406.3	402.2	397.3	395.6
35°	497.8	464.9	442.0	420.5	404.6	394.1	387.2	381.3	377.8	376.5	375.4
37.5°	462.0	435.0	410.4	392.7	378.5	370.3	362.1	359.3	356.9	354.4	355.5
40°	439.3	413.9	392.1	373.4	361.9	352.8	347.9	344.6	342.4	342.4	342.4
42.5°	419.5	394.8	373.4	356.7	345.2	337.6	332.2	329.2	328.6	328.2	329.9
45°	389.0	366.0	344.6	330.6	320.9	313.3	310.1	307.7	307.7	309.2	309.5
47.5°	358.6	337.2	319.9	304.3	295.4	290.7	287.9	286.7	286.9	288.2	289.8
50°	340.0	318.9	301.8	287.9	279.6	275.1	272.7	272.0	272.7	272.7	275.1
52.5°	319.8	300.8	284.1	272.4	263.0	258.8	257.4	256.5	256.9	258.0	259.0
55°	290.1	273.0	257.1	246.0	239.1	236.3	233.2	233.5	232.8	233.5	233.5
57.5°	260.3	245.0	230.2	221.3	215.3	211.2	207.9	208.7	207.8	207.6	207.1
60°	241.1	224.4	212.7	204.7	197.8	194.3	191.2	191.9	190.8	190.1	188.8
62.5°	220.3	206.4	195.2	187.5	181.9	177.9	174.8	174.1	171.7	169.3	166.2
65°	190.1	178.7	168.6	161.3	156.1	153.0	150.6	148.5	143.3	137.8	135.0
67.5°	160.8	152.5	143.1	137.0	132.8	128.7	124.0	120.5	115.6	112.5	110.8
70°	141.9	133.9	125.9	120.0	115.6	111.7	106.5	104.1	100.6	99.2	97.5
72.5°	123.9	116.5	109.0	103.7	98.9	95.9	91.8	89.3	87.8	87.3	85.5
75°	96.5	90.6	85.0	80.2	76.3	74.3	72.5	70.8	70.1	67.0	65.2
77.5°	70.4	66.4	63.0	59.6	56.8	55.5	52.1	50.1	49.0	47.4	47.1
80°	54.8	52.1	48.6	46.5	42.7	41.3	39.9	39.6	39.2	38.9	38.5
82.5°	41.2	38.4	35.0	33.7	32.7	31.8	31.0	30.7	30.3	30.5	30.5
85°	20.8	19.4	19.4	19.1	18.7	18.4	18.0	18.0	17.7	18.0	17.7
87.5°	9.6	9.7	10.1	9.9	10.6	11.0	11.0	11.2	11.8	11.5	11.7
90°	13.2	15.4	17.3	19.1	21.0	22.8	24.2	25.6	26.9	28.4	29.2
92.5°	13.6	14.6	16.4	18.3	20.2	21.9	23.4	24.7	26.1	27.5	28.3
95°	25.7	21.8	22.1	22.3	22.6	22.8	24.2	25.6	26.9	28.4	29.2
97.5°	140.5	130.1	104.4	78.7	53.1	27.4	27.5	27.6	27.7	27.9	28.1
100°	186.5	172.7	140.9	109.1	77.4	45.6	41.6	37.7	33.9	30.0	28.1
102.5°	236.7	236.2	232.1	227.9	223.8	219.6	177.5	135.2	93.0	50.7	29.7
105°	317.4	318.7	319.9	320.9	322.1	323.2	325.4	327.4	329.5	331.5	328.4
107.5°	395.7	396.8	398.3	399.9	401.4	403.1	404.0	405.1	406.1	407.1	408.0
110°	450.4	451.4	452.8	454.1	455.6	456.9	457.4	457.9	458.3	458.8	459.3



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	505.6	506.6	507.2	507.8	508.5	509.2	509.1	509.0	508.9	508.8	509.2
115°	585.1	585.3	585.1	584.9	584.6	584.3	584.9	585.3	585.8	586.2	586.5
117.5°	659.5	660.2	660.8	661.3	661.8	662.3	662.2	662.1	662.0	661.9	661.8
120°	709.3	709.6	709.4	709.2	708.9	708.7	709.2	709.6	710.1	710.5	710.5
122.5°	754.2	754.7	755.0	755.3	755.6	756.0	756.3	756.5	756.8	757.1	757.0
125°	822.2	822.4	822.0	821.5	821.1	820.6	821.3	822.0	822.7	823.4	823.9
127.5°	882.4	883.1	884.1	885.2	886.3	887.3	887.2	887.1	886.9	886.8	886.6
130°	923.1	923.5	924.3	924.9	925.6	926.3	926.5	926.8	927.0	927.2	927.3
132.5°	961.1	961.8	962.6	963.5	964.4	965.3	965.5	965.7	966.0	966.2	966.2
135°	1014.5	1014.9	1015.7	1016.6	1017.6	1018.5	1019.0	1019.4	1019.8	1020.4	1020.8
137.5°	1065.3	1065.9	1066.8	1067.9	1068.9	1069.9	1070.4	1070.9	1071.4	1071.9	1072.1
140°	1099.1	1099.6	1100.0	1100.5	1100.9	1101.4	1102.1	1102.8	1103.5	1104.2	1104.7
142.5°	1129.6	1130.2	1130.4	1130.7	1131.0	1131.2	1131.8	1132.3	1132.7	1133.3	1133.5
145°	1173.6	1173.9	1173.9	1173.9	1173.9	1173.9	1174.2	1174.4	1174.7	1174.8	1175.2
147.5°	1211.4	1211.9	1211.7	1211.5	1211.2	1211.0	1211.2	1211.4	1211.6	1211.7	1211.9
150°	1235.6	1236.0	1235.7	1235.6	1235.3	1235.0	1235.0	1235.0	1235.0	1235.0	1235.2
152.5°	1256.4	1256.6	1256.2	1255.8	1255.4	1255.0	1255.4	1255.7	1256.1	1256.4	1256.5
155°	1284.7	1284.4	1283.8	1283.1	1282.4	1281.7	1282.6	1283.5	1284.4	1285.4	1285.5
157.5°	1308.7	1308.2	1307.4	1306.7	1305.9	1305.1	1306.3	1307.5	1308.7	1309.9	1309.9
160°	1321.4	1321.0	1320.7	1320.4	1320.3	1320.0	1321.4	1322.8	1324.2	1325.5	1325.5
162.5°	1333.9	1333.4	1333.1	1332.9	1332.7	1332.5	1333.8	1335.2	1336.6	1338.0	1337.9
165°	1349.6	1349.1	1349.1	1349.1	1349.1	1349.1	1350.9	1352.7	1354.6	1356.4	1356.3
167.5°	1362.7	1362.0	1361.9	1361.7	1361.6	1361.5	1363.5	1365.6	1367.5	1369.6	1369.4
170°	1369.4	1368.9	1369.0	1369.3	1369.5	1369.8	1371.6	1373.4	1375.3	1377.2	1376.9
172.5°	1374.4	1373.8	1374.0	1374.3	1374.5	1374.8	1376.5	1378.4	1380.3	1382.1	1381.8
175°	1379.7	1379.2	1379.4	1379.7	1379.9	1380.1	1382.2	1384.3	1386.3	1388.4	1388.0
177.5°	1382.6	1382.2	1382.5	1382.9	1383.3	1383.7	1385.1	1386.6	1388.0	1389.6	1389.2
180°	1385.3	1385.3	1385.3	1385.3	1385.3	1385.3	1385.3	1385.3	1385.3	1385.3	1385.3



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1
2.5°	822.0	822.5	820.6	820.0	820.6	822.5	822.0	823.7	823.9	826.2	825.3
5°	762.6	761.9	760.2	760.5	760.2	761.9	762.6	765.4	766.8	772.3	771.6
7.5°	711.8	709.1	709.9	707.0	709.9	709.1	711.8	714.3	718.5	721.0	726.9
10°	680.7	676.9	673.8	671.0	673.8	676.9	680.7	682.1	688.0	690.8	696.7
12.5°	638.3	635.0	630.7	631.6	630.7	635.0	638.3	644.4	651.9	657.7	667.0
15°	578.0	572.8	564.5	565.5	564.5	572.8	578.0	582.6	590.1	603.3	609.6
17.5°	527.0	527.1	523.3	524.1	523.3	527.1	527.0	533.2	537.1	545.5	555.1
20°	500.6	498.2	498.6	497.5	498.6	498.2	500.6	507.9	512.1	518.0	528.4
22.5°	482.3	479.4	476.9	474.7	476.9	479.4	482.3	484.4	489.9	495.5	504.0
25°	451.4	449.3	446.2	445.5	446.2	449.3	451.4	454.5	457.3	464.6	469.8
27.5°	424.2	423.7	422.5	420.9	422.5	423.7	424.2	427.0	430.5	435.2	441.8
30°	408.3	407.7	407.0	405.9	407.0	407.7	408.3	411.2	413.9	417.8	422.9
32.5°	394.2	393.8	393.1	393.2	393.1	393.8	394.2	395.6	397.3	402.2	406.3
35°	374.0	373.6	373.0	372.6	373.0	373.6	374.0	375.4	376.5	377.8	381.3
37.5°	355.2	356.1	355.6	355.5	355.6	356.1	355.2	355.5	354.4	356.9	359.3
40°	342.1	342.4	343.1	342.8	343.1	342.4	342.1	342.4	342.4	342.4	344.6
42.5°	331.3	331.4	332.3	331.1	332.3	331.4	331.3	329.9	328.2	328.6	329.2
45°	311.9	314.0	313.6	313.6	313.6	314.0	311.9	309.5	309.2	307.7	307.7
47.5°	290.7	292.6	293.0	292.9	293.0	292.6	290.7	289.8	288.2	286.9	286.7
50°	276.9	276.2	277.2	276.9	277.2	276.2	276.9	275.1	272.7	272.7	272.0
52.5°	259.9	260.1	260.0	259.7	260.0	260.1	259.9	259.0	258.0	256.9	256.5
55°	233.8	234.2	233.5	233.8	233.5	234.2	233.8	233.5	233.5	232.8	233.5
57.5°	205.5	203.8	204.6	203.8	204.6	203.8	205.5	207.1	207.6	207.8	208.7
60°	185.3	182.5	181.8	180.4	181.8	182.5	185.3	188.8	190.1	190.8	191.9
62.5°	162.5	160.6	158.2	159.3	158.2	160.6	162.5	166.2	169.3	171.7	174.1
65°	132.2	130.8	129.7	131.2	129.7	130.8	132.2	135.0	137.8	143.3	148.5
67.5°	109.4	108.7	108.7	108.0	108.7	108.7	109.4	110.8	112.5	115.6	120.5
70°	97.5	96.5	96.5	95.8	96.5	96.5	97.5	97.5	99.2	100.6	104.1
72.5°	85.2	84.3	84.5	84.1	84.5	84.3	85.2	85.5	87.3	87.8	89.3
75°	63.1	61.4	61.4	61.8	61.4	61.4	63.1	65.2	67.0	70.1	70.8
77.5°	47.1	46.7	47.3	46.6	47.3	46.7	47.1	47.1	47.4	49.0	50.1
80°	38.5	38.2	37.8	38.9	37.8	38.2	38.5	38.5	38.9	39.2	39.6
82.5°	29.9	29.9	29.8	31.1	29.8	29.9	29.9	30.5	30.5	30.3	30.7
85°	18.0	17.4	18.0	17.4	18.0	17.4	18.0	17.7	18.0	17.7	18.0
87.5°	12.3	12.1	11.9	12.3	11.9	12.1	12.3	11.7	11.5	11.8	11.2
90°	29.7	30.1	30.6	31.1	30.6	30.1	29.7	29.2	28.4	26.9	25.6
92.5°	28.4	28.4	28.5	28.6	28.5	28.4	28.4	28.3	27.5	26.1	24.7
95°	29.3	29.6	29.8	30.1	29.8	29.6	29.3	29.2	28.4	26.9	25.6
97.5°	28.4	28.5	28.8	29.0	28.8	28.5	28.4	28.1	27.9	27.7	27.6
100°	28.4	28.5	28.8	29.0	28.8	28.5	28.4	28.1	30.0	33.9	37.7
102.5°	29.7	29.8	29.8	29.9	29.8	29.8	29.7	29.7	50.7	93.0	135.2
105°	320.1	311.8	303.6	295.3	303.6	311.8	320.1	328.4	331.5	329.5	327.4
107.5°	408.9	409.8	410.6	411.5	410.6	409.8	408.9	408.0	407.1	406.1	405.1
110°	460.0	460.7	461.5	462.1	461.5	460.7	460.0	459.3	458.8	458.3	457.9



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	510.1	511.0	511.8	512.6	511.8	511.0	510.1	509.2	508.8	508.9	509.0
115°	586.5	586.5	586.5	586.5	586.5	586.5	586.5	586.5	586.2	585.8	585.3
117.5°	661.7	661.6	661.6	661.5	661.6	661.6	661.7	661.8	661.9	662.0	662.1
120°	710.1	709.6	709.2	708.7	709.2	709.6	710.1	710.5	710.5	710.1	709.6
122.5°	756.5	756.1	755.5	755.1	755.5	756.1	756.5	757.0	757.1	756.8	756.5
125°	824.0	824.3	824.6	824.7	824.6	824.3	824.0	823.9	823.4	822.7	822.0
127.5°	886.4	886.3	886.1	885.9	886.1	886.3	886.4	886.6	886.8	886.9	887.1
130°	927.3	927.3	927.3	927.3	927.3	927.3	927.3	927.3	927.2	927.0	926.8
132.5°	966.0	965.8	965.6	965.5	965.6	965.8	966.0	966.2	966.2	966.0	965.7
135°	1021.3	1021.7	1022.2	1022.6	1022.2	1021.7	1021.3	1020.8	1020.4	1019.8	1019.4
137.5°	1072.0	1071.8	1071.7	1071.6	1071.7	1071.8	1072.0	1072.1	1071.9	1071.4	1070.9
140°	1104.8	1105.1	1105.3	1105.5	1105.3	1105.1	1104.8	1104.7	1104.2	1103.5	1102.8
142.5°	1133.6	1133.6	1133.7	1133.7	1133.7	1133.6	1133.6	1133.5	1133.3	1132.7	1132.3
145°	1175.6	1176.1	1176.6	1177.1	1176.6	1176.1	1175.6	1175.2	1174.8	1174.7	1174.4
147.5°	1212.2	1212.5	1212.6	1212.9	1212.6	1212.5	1212.2	1211.9	1211.7	1211.6	1211.4
150°	1235.4	1235.6	1235.9	1236.1	1235.9	1235.6	1235.4	1235.2	1235.0	1235.0	1235.0
152.5°	1256.4	1256.2	1256.2	1256.0	1256.2	1256.2	1256.4	1256.5	1256.4	1256.1	1255.7
155°	1284.8	1284.1	1283.4	1282.7	1283.4	1284.1	1284.8	1285.5	1285.4	1284.4	1283.5
157.5°	1308.7	1307.5	1306.3	1305.1	1306.3	1307.5	1308.7	1309.9	1309.9	1308.7	1307.5
160°	1324.2	1322.8	1321.4	1320.0	1321.4	1322.8	1324.2	1325.5	1325.5	1324.2	1322.8
162.5°	1336.3	1334.8	1333.2	1331.6	1333.2	1334.8	1336.3	1337.9	1338.0	1336.6	1335.2
165°	1354.2	1352.1	1350.1	1348.0	1350.1	1352.1	1354.2	1356.3	1356.4	1354.6	1352.7
167.5°	1367.2	1364.9	1362.5	1360.2	1362.5	1364.9	1367.2	1369.4	1369.6	1367.5	1365.6
170°	1374.6	1372.3	1370.0	1367.7	1370.0	1372.3	1374.6	1376.9	1377.2	1375.3	1373.4
172.5°	1379.3	1376.8	1374.3	1371.8	1374.3	1376.8	1379.3	1381.8	1382.1	1380.3	1378.4
175°	1385.3	1382.5	1379.7	1377.0	1379.7	1382.5	1385.3	1388.0	1388.4	1386.3	1384.3
177.5°	1387.0	1384.7	1382.5	1380.4	1382.5	1384.7	1387.0	1389.2	1389.6	1388.0	1386.6
180°	1385.3	1385.3	1385.3	1385.3	1385.3	1385.3	1385.3	1385.3	1385.3	1385.3	1385.3



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1
2.5°	823.7	825.6	830.0	835.0	839.2	842.8	845.6	849.4	853.1	858.1	862.8
5°	773.6	778.6	785.5	793.8	804.2	811.2	819.8	827.5	838.6	849.7	860.4
7.5°	729.9	735.2	745.4	756.9	769.3	780.6	790.9	804.3	819.0	835.3	853.3
10°	701.5	707.4	719.6	732.7	747.3	758.4	772.3	788.3	804.9	824.7	846.9
12.5°	676.0	681.6	696.2	709.7	724.9	737.1	753.1	769.4	791.6	813.1	838.3
15°	626.2	641.1	657.8	673.8	691.8	706.8	726.1	742.8	764.0	794.2	823.0
17.5°	571.0	586.9	607.6	632.2	656.4	674.8	694.6	715.2	740.5	771.2	804.5
20°	538.8	551.6	574.5	602.0	630.1	655.8	673.8	696.7	722.7	756.0	790.3
22.5°	514.7	525.6	543.5	570.9	601.2	631.1	654.1	676.7	705.5	738.8	776.2
25°	478.4	490.3	505.9	524.6	559.3	590.8	621.1	647.0	677.6	710.9	752.5
27.5°	448.4	458.6	472.9	492.4	515.7	550.5	587.1	616.8	648.1	683.9	725.5
30°	430.5	438.9	450.7	470.5	492.7	523.9	561.0	595.8	627.3	664.4	707.8
32.5°	412.0	420.9	432.4	448.0	471.8	498.1	535.2	573.2	606.7	644.7	687.2
35°	387.2	394.1	404.6	420.5	442.0	464.9	497.8	537.1	572.5	613.1	653.6
37.5°	362.1	370.3	378.5	392.7	410.4	435.0	462.0	502.0	541.3	578.3	618.0
40°	347.9	352.8	361.9	373.4	392.1	413.9	439.3	478.4	517.6	554.5	594.3
42.5°	332.2	337.6	345.2	356.7	373.4	394.8	419.5	453.4	494.4	530.0	566.3
45°	310.1	313.3	320.9	330.6	344.6	366.0	389.0	419.1	457.6	491.6	523.5
47.5°	287.9	290.7	295.4	304.3	319.9	337.2	358.6	385.7	419.5	453.4	480.5
50°	272.7	275.1	279.6	287.9	301.8	318.9	340.0	364.3	394.5	427.1	449.6
52.5°	257.4	258.8	263.0	272.4	284.1	300.8	319.8	342.1	370.3	397.4	420.3
55°	233.2	236.3	239.1	246.0	257.1	273.0	290.1	311.2	333.1	356.0	375.4
57.5°	207.9	211.2	215.3	221.3	230.2	245.0	260.3	277.4	296.0	315.1	331.4
60°	191.2	194.3	197.8	204.7	212.7	224.4	241.1	256.0	270.3	287.6	303.9
62.5°	174.8	177.9	181.9	187.5	195.2	206.4	220.3	233.3	248.1	263.2	275.4
65°	150.6	153.0	156.1	161.3	168.6	178.7	190.1	200.2	213.4	224.4	235.6
67.5°	124.0	128.7	132.8	137.0	143.1	152.5	160.8	170.4	179.4	187.6	197.8
70°	106.5	111.7	115.6	120.0	125.9	133.9	141.9	148.5	155.8	163.7	172.8
72.5°	91.8	95.9	98.9	103.7	109.0	116.5	123.9	129.3	135.3	140.7	149.5
75°	72.5	74.3	76.3	80.2	85.0	90.6	96.5	101.3	104.8	109.6	115.9
77.5°	52.1	55.5	56.8	59.6	63.0	66.4	70.4	74.5	77.8	79.5	84.3
80°	39.9	41.3	42.7	46.5	48.6	52.1	54.8	58.7	60.0	61.8	66.3
82.5°	31.0	31.8	32.7	33.7	35.0	38.4	41.2	43.6	45.0	45.7	49.0
85°	18.0	18.4	18.7	19.1	19.4	19.4	20.8	22.6	25.0	25.0	26.0
87.5°	11.0	11.0	10.6	9.9	10.1	9.7	9.6	9.1	9.4	9.7	10.1
90°	24.2	22.8	21.0	19.1	17.3	15.4	13.2	10.7	8.2	5.6	3.1
92.5°	23.4	21.9	20.2	18.3	16.4	14.6	13.6	13.5	13.4	13.2	13.0
95°	24.2	22.8	22.6	22.3	22.1	21.8	25.7	33.5	41.3	49.1	57.0
97.5°	27.5	27.4	53.1	78.7	104.4	130.1	140.5	135.6	130.8	125.9	121.0
100°	41.6	45.6	77.4	109.1	140.9	172.7	186.5	182.4	178.3	174.1	170.0
102.5°	177.5	219.6	223.8	227.9	232.1	236.2	236.7	233.7	230.7	227.7	224.6
105°	325.4	323.2	322.1	320.9	319.9	318.7	317.4	316.0	314.6	313.3	311.8
107.5°	404.0	403.1	401.4	399.9	398.3	396.8	395.7	394.9	394.3	393.6	392.9
110°	457.4	456.9	455.6	454.1	452.8	451.4	450.4	449.7	449.0	448.3	447.6



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	509.1	509.2	508.5	507.8	507.2	506.6	505.6	504.4	503.1	501.9	500.7
115°	584.9	584.3	584.6	584.9	585.1	585.3	585.1	584.3	583.7	583.0	582.3
117.5°	662.2	662.3	661.8	661.3	660.8	660.2	659.5	658.6	657.7	656.7	655.9
120°	709.2	708.7	708.9	709.2	709.4	709.6	709.3	708.4	707.5	706.5	705.6
122.5°	756.3	756.0	755.6	755.3	755.0	754.7	754.2	753.7	753.1	752.6	752.0
125°	821.3	820.6	821.1	821.5	822.0	822.4	822.2	821.3	820.4	819.5	818.5
127.5°	887.2	887.3	886.3	885.2	884.1	883.1	882.4	882.3	882.0	881.7	881.5
130°	926.5	926.3	925.6	924.9	924.3	923.5	923.1	922.8	922.7	922.4	922.1
132.5°	965.5	965.3	964.4	963.5	962.6	961.8	961.1	960.7	960.3	959.8	959.5
135°	1019.0	1018.5	1017.6	1016.6	1015.7	1014.9	1014.5	1014.7	1014.9	1015.2	1015.4
137.5°	1070.4	1069.9	1068.9	1067.9	1066.8	1065.9	1065.3	1065.2	1065.1	1065.1	1065.0
140°	1102.1	1101.4	1100.9	1100.5	1100.0	1099.6	1099.1	1098.7	1098.1	1097.7	1097.3
142.5°	1131.8	1131.2	1131.0	1130.7	1130.4	1130.2	1129.6	1128.7	1127.9	1127.1	1126.2
145°	1174.2	1173.9	1173.9	1173.9	1173.9	1173.9	1173.6	1172.9	1172.2	1171.5	1170.8
147.5°	1211.2	1211.0	1211.2	1211.5	1211.7	1211.9	1211.4	1210.1	1208.8	1207.6	1206.2
150°	1235.0	1235.0	1235.3	1235.6	1235.7	1236.0	1235.6	1234.8	1233.8	1232.9	1232.0
152.5°	1255.4	1255.0	1255.4	1255.8	1256.2	1256.6	1256.4	1255.7	1255.0	1254.3	1253.5
155°	1282.6	1281.7	1282.4	1283.1	1283.8	1284.4	1284.7	1284.4	1284.2	1284.0	1283.8
157.5°	1306.3	1305.1	1305.9	1306.7	1307.4	1308.2	1308.7	1308.9	1308.9	1309.1	1309.2
160°	1321.4	1320.0	1320.3	1320.4	1320.7	1321.0	1321.4	1322.1	1322.8	1323.5	1324.2
162.5°	1333.8	1332.5	1332.7	1332.9	1333.1	1333.4	1333.9	1334.8	1335.7	1336.6	1337.4
165°	1350.9	1349.1	1349.1	1349.1	1349.1	1349.1	1349.6	1350.8	1351.9	1353.1	1354.2
167.5°	1363.5	1361.5	1361.6	1361.7	1361.9	1362.0	1362.7	1363.9	1365.1	1366.3	1367.4
170°	1371.6	1369.8	1369.5	1369.3	1369.0	1368.9	1369.4	1370.8	1372.2	1373.6	1374.9
172.5°	1376.5	1374.8	1374.5	1374.3	1374.0	1373.8	1374.4	1375.7	1377.2	1378.5	1379.9
175°	1382.2	1380.1	1379.9	1379.7	1379.4	1379.2	1379.7	1381.2	1382.5	1383.9	1385.3
177.5°	1385.1	1383.7	1383.3	1382.9	1382.5	1382.2	1382.6	1383.9	1385.2	1386.5	1387.8
180°	1385.3	1385.3	1385.3	1385.3	1385.3	1385.3	1385.3	1385.3	1385.3	1385.3	1385.3



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1
2.5°	866.4	868.9	871.6	876.9	881.4	883.3	887.3	890.0	889.1	893.0	899.7
5°	869.8	879.1	889.9	901.0	913.5	923.9	932.3	940.6	947.2	955.1	967.0
7.5°	869.2	885.9	904.0	923.9	944.4	962.1	978.5	995.1	1009.9	1026.1	1047.2
10°	867.0	889.2	911.8	937.8	963.9	988.5	1010.7	1031.4	1051.2	1072.4	1099.1
12.5°	864.5	890.0	917.3	948.6	981.1	1010.7	1036.8	1066.8	1091.5	1118.7	1149.7
15°	853.5	887.9	925.0	965.5	1004.4	1044.3	1080.0	1116.9	1151.2	1183.7	1222.6
17.5°	840.9	880.5	924.3	972.2	1019.0	1067.4	1109.8	1156.2	1191.2	1235.0	1271.1
20°	830.6	873.3	920.1	973.8	1027.0	1080.8	1127.6	1174.7	1214.3	1258.4	1304.2
22.5°	818.1	865.0	915.7	971.3	1027.0	1085.7	1137.6	1184.5	1233.5	1283.1	1330.3
25°	798.0	846.6	900.4	961.4	1025.2	1085.2	1140.8	1199.1	1251.8	1305.6	1347.9
27.5°	773.3	824.3	881.0	944.0	1009.5	1070.9	1136.3	1198.5	1251.5	1303.2	1340.2
30°	753.6	807.4	861.8	925.7	993.6	1059.6	1129.6	1191.8	1247.6	1294.1	1314.9
32.5°	733.3	784.3	840.4	905.1	974.8	1045.7	1115.3	1178.8	1230.4	1258.3	1258.8
35°	698.0	745.9	804.2	867.7	939.1	1016.2	1086.6	1149.1	1180.6	1183.1	1149.1
37.5°	659.6	703.6	758.6	822.2	900.4	977.0	1048.9	1090.6	1101.2	1065.9	1003.0
40°	632.1	672.7	725.9	791.0	868.8	947.9	1013.4	1043.9	1032.9	975.6	905.5
42.5°	603.2	641.1	692.2	756.6	834.6	914.5	970.4	986.8	957.3	891.3	809.2
45°	556.2	590.8	641.5	706.4	781.3	856.3	898.6	890.3	841.3	762.9	671.0
47.5°	507.1	540.6	586.2	646.2	723.0	787.6	816.3	791.2	721.6	635.3	560.5
50°	474.7	509.0	551.0	608.2	678.3	740.7	759.1	720.9	643.5	560.7	492.0
52.5°	442.7	472.1	513.2	568.5	635.5	688.3	698.0	654.1	574.2	499.9	439.0
55°	394.1	420.9	455.6	507.6	565.5	610.3	605.1	548.5	476.0	412.5	364.6
57.5°	347.1	367.3	399.3	448.1	499.0	529.1	510.0	461.8	394.2	342.2	301.8
60°	316.1	334.8	364.6	407.3	452.1	469.0	453.1	400.7	347.3	299.8	265.7
62.5°	286.7	303.2	328.9	368.5	404.6	414.6	397.6	351.9	303.7	263.1	235.0
65°	243.9	259.1	281.1	309.2	334.1	338.9	327.9	281.1	244.6	210.6	191.2
67.5°	205.1	215.1	232.2	256.5	269.7	272.6	251.1	221.7	189.6	168.7	154.1
70°	179.1	185.9	201.9	215.1	225.9	226.2	206.4	182.8	158.2	141.2	130.5
72.5°	153.7	160.4	172.5	181.6	189.8	187.1	169.0	150.3	130.5	117.6	109.6
75°	118.7	124.6	130.8	135.0	135.0	131.5	118.3	104.4	93.0	85.3	82.9
77.5°	86.2	91.1	93.2	92.6	91.3	85.9	77.6	68.5	64.4	60.8	58.9
80°	67.7	69.7	70.4	68.7	66.6	60.4	54.8	51.0	47.2	45.8	45.1
82.5°	50.2	52.0	50.2	50.6	46.1	40.9	37.9	36.6	35.0	34.4	33.7
85°	26.8	26.4	25.7	23.9	20.8	20.2	19.8	19.4	18.7	19.1	18.4
87.5°	10.3	10.0	9.4	9.6	10.0	9.8	10.5	10.9	11.2	11.2	12.0
90°	5.6	8.2	10.7	13.2	15.4	17.3	19.1	21.0	22.8	24.2	25.6
92.5°	13.2	13.4	13.5	13.6	14.6	16.4	18.3	20.2	21.9	23.4	24.7
95°	49.1	41.3	33.5	25.7	21.8	22.1	22.3	22.6	22.8	24.2	25.6
97.5°	125.9	130.8	135.6	140.5	130.1	104.4	78.7	53.1	27.4	27.5	27.6
100°	174.1	178.3	182.4	186.5	172.7	140.9	109.1	77.4	45.6	41.6	37.7
102.5°	227.7	230.7	233.7	236.7	236.2	232.1	227.9	223.8	219.6	177.5	135.2
105°	313.3	314.6	316.0	317.4	318.7	319.9	320.9	322.1	323.2	325.4	327.4
107.5°	393.6	394.3	394.9	395.7	396.8	398.3	399.9	401.4	403.1	404.0	405.1
110°	448.3	449.0	449.7	450.4	451.4	452.8	454.1	455.6	456.9	457.4	457.9





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	501.9	503.1	504.4	505.6	506.6	507.2	507.8	508.5	509.2	509.1	509.0
115°	583.0	583.7	584.3	585.1	585.3	585.1	584.9	584.6	584.3	584.9	585.3
117.5°	656.7	657.7	658.6	659.5	660.2	660.8	661.3	661.8	662.3	662.2	662.1
120°	706.5	707.5	708.4	709.3	709.6	709.4	709.2	708.9	708.7	709.2	709.6
122.5°	752.6	753.1	753.7	754.2	754.7	755.0	755.3	755.6	756.0	756.3	756.5
125°	819.5	820.4	821.3	822.2	822.4	822.0	821.5	821.1	820.6	821.3	822.0
127.5°	881.7	882.0	882.3	882.4	883.1	884.1	885.2	886.3	887.3	887.2	887.1
130°	922.4	922.7	922.8	923.1	923.5	924.3	924.9	925.6	926.3	926.5	926.8
132.5°	959.8	960.3	960.7	961.1	961.8	962.6	963.5	964.4	965.3	965.5	965.7
135°	1015.2	1014.9	1014.7	1014.5	1014.9	1015.7	1016.6	1017.6	1018.5	1019.0	1019.4
137.5°	1065.1	1065.1	1065.2	1065.3	1065.9	1066.8	1067.9	1068.9	1069.9	1070.4	1070.9
140°	1097.7	1098.1	1098.7	1099.1	1099.6	1100.0	1100.5	1100.9	1101.4	1102.1	1102.8
142.5°	1127.1	1127.9	1128.7	1129.6	1130.2	1130.4	1130.7	1131.0	1131.2	1131.8	1132.3
145°	1171.5	1172.2	1172.9	1173.6	1173.9	1173.9	1173.9	1173.9	1173.9	1174.2	1174.4
147.5°	1207.6	1208.8	1210.1	1211.4	1211.9	1211.7	1211.5	1211.2	1211.0	1211.2	1211.4
150°	1232.9	1233.8	1234.8	1235.6	1236.0	1235.7	1235.6	1235.3	1235.0	1235.0	1235.0
152.5°	1254.3	1255.0	1255.7	1256.4	1256.6	1256.2	1255.8	1255.4	1255.0	1255.4	1255.7
155°	1284.0	1284.2	1284.4	1284.7	1284.4	1283.8	1283.1	1282.4	1281.7	1282.6	1283.5
157.5°	1309.1	1308.9	1308.9	1308.7	1308.2	1307.4	1306.7	1305.9	1305.1	1306.3	1307.5
160°	1323.5	1322.8	1322.1	1321.4	1321.0	1320.7	1320.4	1320.3	1320.0	1321.4	1322.8
162.5°	1336.6	1335.7	1334.8	1333.9	1333.4	1333.1	1332.9	1332.7	1332.5	1333.8	1335.2
165°	1353.1	1351.9	1350.8	1349.6	1349.1	1349.1	1349.1	1349.1	1349.1	1350.9	1352.7
167.5°	1366.3	1365.1	1363.9	1362.7	1362.0	1361.9	1361.7	1361.6	1361.5	1363.5	1365.6
170°	1373.6	1372.2	1370.8	1369.4	1368.9	1369.0	1369.3	1369.5	1369.8	1371.6	1373.4
172.5°	1378.5	1377.2	1375.7	1374.4	1373.8	1374.0	1374.3	1374.5	1374.8	1376.5	1378.4
175°	1383.9	1382.5	1381.2	1379.7	1379.2	1379.4	1379.7	1379.9	1380.1	1382.2	1384.3
177.5°	1386.5	1385.2	1383.9	1382.6	1382.2	1382.5	1382.9	1383.3	1383.7	1385.1	1386.6
180°	1385.3	1385.3	1385.3	1385.3	1385.3	1385.3	1385.3	1385.3	1385.3	1385.3	1385.3



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	861.1	861.1	861.1	861.1	861.1	861.1	861.1
2.5°	903.3	904.5	905.3	908.0	908.3	910.8	908.3
5°	978.0	982.9	990.5	998.2	998.9	1003.7	995.1
7.5°	1061.8	1073.1	1080.1	1092.4	1097.3	1100.4	1095.4
10°	1119.6	1130.0	1148.4	1157.4	1166.4	1167.8	1163.7
12.5°	1175.4	1191.9	1206.4	1223.5	1223.1	1235.3	1230.8
15°	1249.7	1266.7	1286.8	1305.9	1312.9	1312.9	1318.4
17.5°	1302.7	1333.9	1354.7	1369.7	1386.1	1388.9	1387.0
20°	1338.5	1372.2	1394.4	1413.8	1425.0	1428.1	1428.1
22.5°	1365.2	1393.8	1415.5	1433.0	1442.2	1445.8	1444.7
25°	1383.7	1408.3	1421.5	1426.6	1429.1	1428.3	1421.8
27.5°	1358.3	1357.3	1348.9	1332.9	1321.0	1313.7	1305.4
30°	1310.1	1292.0	1271.2	1248.3	1218.8	1196.2	1189.4
32.5°	1238.2	1197.7	1162.4	1124.3	1092.5	1070.0	1060.5
35°	1099.1	1034.9	982.6	936.7	903.5	882.6	875.7
37.5°	934.2	872.0	807.2	762.8	735.1	714.1	706.2
40°	829.2	761.5	705.0	663.3	634.9	614.5	614.1
42.5°	733.4	668.9	615.6	585.7	555.0	541.4	541.4
45°	600.6	548.8	503.7	480.2	461.8	450.7	447.5
47.5°	497.2	454.5	424.5	405.6	390.7	383.6	379.0
50°	439.3	401.8	377.8	361.5	353.2	344.2	343.5
52.5°	390.9	360.7	342.1	328.8	318.3	312.8	313.0
55°	328.6	304.6	291.4	281.3	273.0	268.9	267.2
57.5°	276.8	258.9	249.2	240.0	236.5	233.2	232.3
60°	244.6	232.5	223.5	216.2	211.0	209.9	209.6
62.5°	217.9	205.3	199.0	193.4	189.6	188.0	187.3
65°	179.7	170.3	164.8	160.3	158.9	156.5	156.1
67.5°	144.9	139.3	135.6	132.5	130.5	130.5	130.5
70°	123.5	120.4	117.3	115.6	114.5	113.8	113.8
72.5°	105.2	102.9	100.3	99.4	99.2	98.5	98.3
75°	80.2	77.8	78.0	76.3	74.9	73.2	72.1
77.5°	56.8	55.1	54.8	54.6	53.3	53.1	53.7
80°	44.1	42.4	42.0	42.4	42.0	40.9	40.9
82.5°	33.5	32.1	31.7	31.5	31.1	31.5	30.9
85°	18.0	17.4	17.4	17.4	18.0	17.7	17.4
87.5°	11.8	11.8	12.2	12.0	12.1	11.9	12.3
90°	26.9	28.4	29.2	29.7	30.1	30.6	31.1
92.5°	26.1	27.5	28.3	28.4	28.4	28.5	28.6
95°	26.9	28.4	29.2	29.3	29.6	29.8	30.1
97.5°	27.7	27.9	28.1	28.4	28.5	28.8	29.0
100°	33.9	30.0	28.1	28.4	28.5	28.8	29.0
102.5°	93.0	50.7	29.7	29.7	29.8	29.8	29.9
105°	329.5	331.5	328.4	320.1	311.8	303.6	295.3
107.5°	406.1	407.1	408.0	408.9	409.8	410.6	411.5
110°	458.3	458.8	459.3	460.0	460.7	461.5	462.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	508.9	508.8	509.2	510.1	511.0	511.8	512.6
115°	585.8	586.2	586.5	586.5	586.5	586.5	586.5
117.5°	662.0	661.9	661.8	661.7	661.6	661.6	661.5
120°	710.1	710.5	710.5	710.1	709.6	709.2	708.7
122.5°	756.8	757.1	757.0	756.5	756.1	755.5	755.1
125°	822.7	823.4	823.9	824.0	824.3	824.6	824.7
127.5°	886.9	886.8	886.6	886.4	886.3	886.1	885.9
130°	927.0	927.2	927.3	927.3	927.3	927.3	927.3
132.5°	966.0	966.2	966.2	966.0	965.8	965.6	965.5
135°	1019.8	1020.4	1020.8	1021.3	1021.7	1022.2	1022.6
137.5°	1071.4	1071.9	1072.1	1072.0	1071.8	1071.7	1071.6
140°	1103.5	1104.2	1104.7	1104.8	1105.1	1105.3	1105.5
142.5°	1132.7	1133.3	1133.5	1133.6	1133.6	1133.7	1133.7
145°	1174.7	1174.8	1175.2	1175.6	1176.1	1176.6	1177.1
147.5°	1211.6	1211.7	1211.9	1212.2	1212.5	1212.6	1212.9
150°	1235.0	1235.0	1235.2	1235.4	1235.6	1235.9	1236.1
152.5°	1256.1	1256.4	1256.5	1256.4	1256.2	1256.2	1256.0
155°	1284.4	1285.4	1285.5	1284.8	1284.1	1283.4	1282.7
157.5°	1308.7	1309.9	1309.9	1308.7	1307.5	1306.3	1305.1
160°	1324.2	1325.5	1325.5	1324.2	1322.8	1321.4	1320.0
162.5°	1336.6	1338.0	1337.9	1336.3	1334.8	1333.2	1331.6
165°	1354.6	1356.4	1356.3	1354.2	1352.1	1350.1	1348.0
167.5°	1367.5	1369.6	1369.4	1367.2	1364.9	1362.5	1360.2
170°	1375.3	1377.2	1376.9	1374.6	1372.3	1370.0	1367.7
172.5°	1380.3	1382.1	1381.8	1379.3	1376.8	1374.3	1371.8
175°	1386.3	1388.4	1388.0	1385.3	1382.5	1379.7	1377.0
177.5°	1388.0	1389.6	1389.2	1387.0	1384.7	1382.5	1380.4
180°	1385.3	1385.3	1385.3	1385.3	1385.3	1385.3	1385.3

(END OF REPORT)