

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: P331670-840

Luminaire Tested: **SA2XXRDIP-C485D1080U840-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331670-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-C485D1080U840-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1080 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5768.1 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

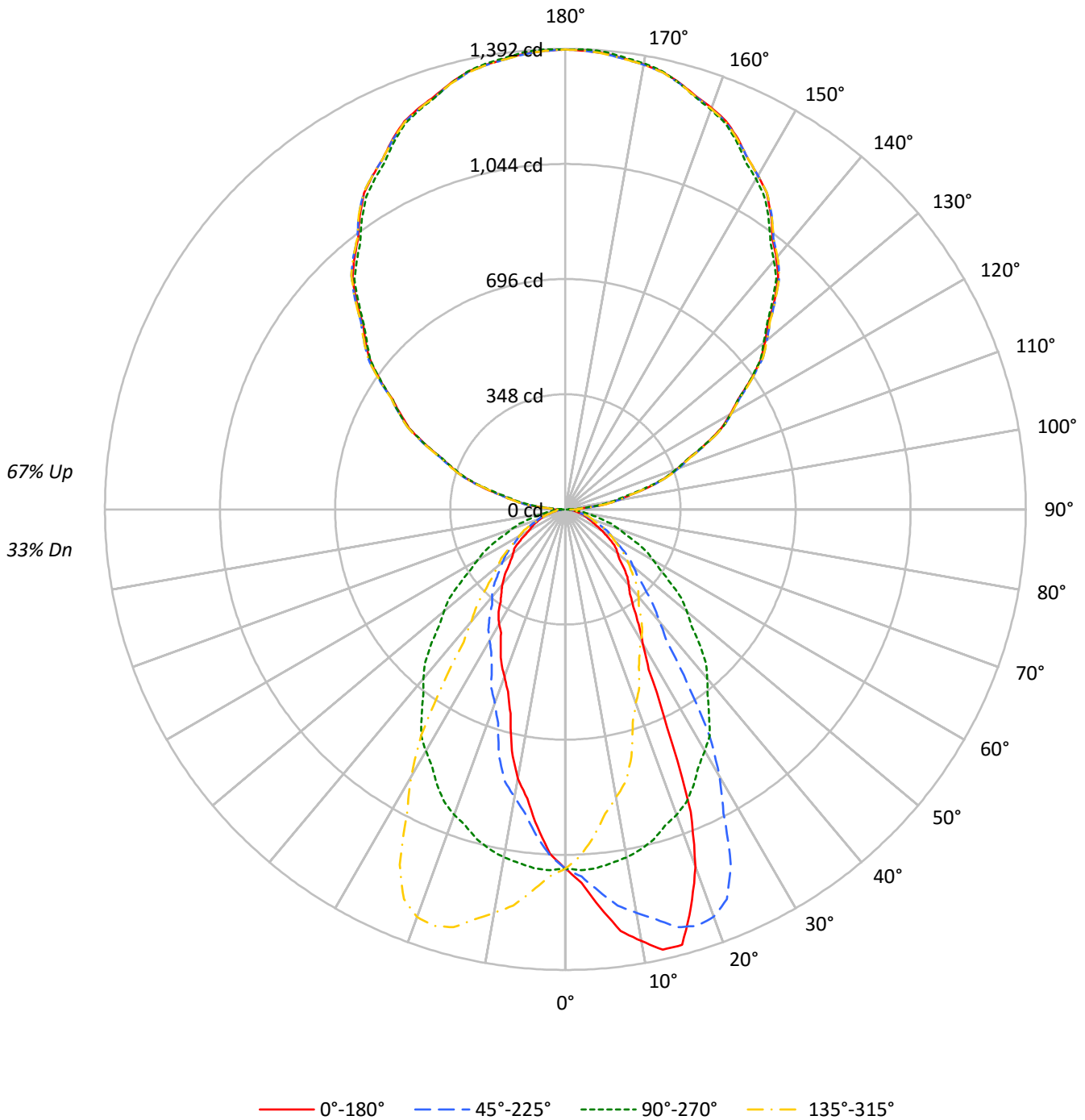
Input Watts (W): 49.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	33
1	94	90	87	83	85	82	79	76	65	63	61	50	49	48	36	35	35	28
2	86	79	74	69	78	72	67	63	58	54	52	45	42	41	32	31	30	25
3	79	70	63	58	71	64	58	53	51	47	44	40	37	35	29	28	26	22
4	73	63	55	50	65	57	50	46	46	41	38	36	33	30	27	25	23	19
5	67	56	48	43	60	51	44	39	41	37	33	32	29	27	24	22	21	17
6	62	50	43	37	55	46	39	34	37	33	29	30	26	24	22	20	18	15
7	57	45	38	33	51	42	35	30	34	29	26	27	24	21	20	18	17	14
8	53	41	34	29	48	38	31	27	31	26	23	25	21	19	19	17	15	13
9	49	38	31	26	45	35	28	24	29	24	21	23	20	17	18	15	14	11
10	46	35	28	23	42	32	26	22	26	22	19	21	18	16	16	14	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	17525	17525	17525	17525
5°	19571	17634	15635	17634
10°	21713	17510	13554	17510
15°	22781	17254	10678	17254
20°	19749	16873	9241	16873
25°	12953	16352	8250	16352
30°	8720	15720	7467	15720
35°	7062	14927	6733	14927
40°	6279	14060	6232	14060
45°	5683	13047	5562	13047
50°	5172	12039	5152	12039
55°	4861	10925	4799	10925
60°	4066	9901	4017	9901
65°	3431	8989	3889	8989
70°	3172	8030	3668	8030
75°	2969	6987	3387	6987
80°	2734	5746	3013	5746
85°	2501	4539	2649	4539



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.9	1.8
10°-20°	286.7	5.0
20°-30°	369.4	6.4
30°-40°	351.1	6.1
40°-50°	300.7	5.2
50°-60°	229.0	4.0
60°-70°	144.8	2.5
70°-80°	72.3	1.3
80°-90°	24.4	0.4
90°-100°	88.1	1.5
100°-110°	273.6	4.7
110°-120°	467.6	8.1
120°-130°	614.9	10.7
130°-140°	690.2	12.0
140°-150°	676.7	11.7
150°-160°	567.6	9.8
160°-170°	376.5	6.5
170°-180°	131.6	2.3
0°-30°	759.0	13.2
0°-40°	1110.1	19.2
0°-60°	1639.8	28.4
0°-90°	1881.3	32.6
90°-120°	829.3	14.4
90°-150°	2811.1	48.7
90°-180°	3887.0	67.4
0°-180°	5768.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1085	1085	1085	1085	1085	
5°	1208	1088	965	1088	1208	119
15°	1363	1032	639	1032	1363	368
25°	727	918	463	918	727	345
35°	358	757	342	757	358	229
45°	249	571	244	571	249	193
55°	173	388	170	388	173	152
65°	90	235	102	235	90	91
75°	48	112	54	112	48	50
85°	14	24	14	24	14	16
90°	40	1	40	1	40	18
95°	73	61	73	61	73	81
105°	260	252	260	252	260	274
115°	469	469	469	469	469	463
125°	685	683	685	683	685	611
135°	894	883	894	883	894	688
145°	1084	1072	1084	1072	1084	677
155°	1235	1226	1235	1226	1235	568
165°	1335	1334	1335	1334	1335	376
175°	1383	1388	1383	1388	1383	131
180°	1390	1390	1390	1390	1390	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4
2.5°	1129.4	1130.3	1131.3	1129.1	1129.1	1127.3	1123.4	1120.3	1111.9	1110.6	1110.6
5°	1207.5	1206.8	1208.3	1203.4	1196.6	1195.1	1187.9	1178.5	1168.7	1157.7	1155.5
7.5°	1285.3	1284.1	1281.1	1280.2	1275.1	1263.6	1252.1	1239.8	1223.6	1207.6	1199.6
10°	1324.4	1336.9	1329.4	1316.2	1318.8	1301.1	1291.6	1275.5	1261.8	1238.1	1232.8
12.5°	1363.0	1368.0	1365.5	1358.1	1354.7	1342.4	1329.7	1315.6	1290.5	1269.2	1250.6
15°	1362.9	1370.1	1372.0	1369.7	1371.6	1370.8	1364.0	1352.3	1330.5	1307.1	1286.8
17.5°	1262.3	1267.3	1279.6	1288.0	1298.6	1320.9	1331.9	1336.3	1332.9	1319.6	1305.3
20°	1149.4	1141.1	1175.9	1193.6	1208.7	1246.4	1278.8	1291.2	1311.2	1310.9	1307.1
22.5°	989.6	991.5	1024.4	1045.4	1089.5	1127.2	1164.2	1211.0	1249.7	1275.3	1290.2
25°	727.1	741.4	774.3	802.8	851.9	922.1	985.8	1059.8	1129.4	1184.6	1237.0
27.5°	546.0	547.1	573.1	599.7	628.7	686.2	766.5	854.7	954.2	1036.2	1130.6
30°	467.7	465.3	476.4	492.5	517.5	561.9	622.3	709.0	808.2	931.9	1042.0
32.5°	412.1	412.2	420.5	432.5	453.1	483.1	524.5	594.9	688.7	810.3	939.4
35°	358.3	357.9	364.0	372.6	381.2	400.5	428.8	465.7	530.3	643.8	775.8
37.5°	319.6	321.3	324.3	329.7	339.2	349.9	367.0	391.7	437.7	504.8	615.7
40°	297.9	298.7	302.9	307.4	313.1	321.3	335.3	355.3	388.8	442.3	523.4
42.5°	278.0	278.7	281.8	285.9	290.3	298.7	310.2	327.5	354.8	396.5	463.4
45°	248.9	248.9	251.6	253.4	258.3	265.9	275.3	289.6	308.5	339.4	384.0
47.5°	221.6	221.7	223.4	226.6	229.7	235.6	244.9	256.6	270.3	294.3	332.2
50°	205.9	206.3	207.4	210.1	212.0	217.2	224.4	234.6	248.9	267.4	299.0
52.5°	193.2	193.0	194.4	195.6	196.8	200.7	206.0	215.0	227.8	243.9	270.1
55°	172.7	171.2	173.5	175.3	176.5	178.0	181.0	186.7	197.6	211.2	230.8
57.5°	147.0	146.4	148.0	149.8	153.3	157.4	160.0	163.6	169.3	178.9	198.4
60°	125.9	125.9	129.4	130.5	134.6	139.9	145.2	148.2	153.9	160.3	174.6
62.5°	107.2	107.6	109.2	110.3	112.6	119.1	126.5	133.1	138.5	144.6	154.1
65°	89.8	90.5	90.5	91.3	92.8	94.3	97.3	102.6	112.0	120.7	127.8
67.5°	76.1	76.4	76.6	77.4	77.8	79.4	80.6	83.0	85.1	93.4	102.3
70°	67.2	68.3	67.9	68.7	69.0	69.8	71.3	72.4	75.8	77.7	83.0
72.5°	58.7	59.5	59.5	59.9	60.9	61.0	62.2	63.3	65.5	67.2	70.0
75°	47.6	47.2	47.6	48.3	48.7	49.0	49.0	50.5	51.7	53.2	55.0
77.5°	36.7	37.1	37.0	37.1	37.1	37.8	37.7	38.4	39.5	40.3	41.2
80°	29.4	29.8	29.4	29.8	30.2	30.5	30.2	30.5	31.7	32.4	32.4
82.5°	22.8	22.8	23.1	23.1	23.2	23.3	23.8	23.9	24.7	24.5	24.8
85°	13.5	13.2	13.2	13.2	13.5	13.9	13.5	13.5	13.9	13.9	13.9
87.5°	12.8	13.0	13.0	12.9	12.9	12.9	13.0	13.4	13.2	13.6	12.2
90°	39.9	39.6	39.4	39.1	38.9	39.0	39.5	40.0	40.5	41.1	35.3
92.5°	38.0	38.0	37.9	37.9	37.8	37.8	37.6	37.5	37.4	37.3	36.0
95°	72.7	73.2	73.8	74.3	74.8	75.0	75.0	75.0	75.0	75.0	74.5
97.5°	126.0	126.0	126.1	126.1	126.2	126.2	126.2	126.2	126.2	126.2	125.2
100°	160.7	161.0	161.3	161.5	161.8	161.9	161.9	161.9	161.9	161.9	161.1
102.5°	200.2	200.4	200.7	200.9	201.2	201.2	201.0	200.8	200.6	200.4	199.3
105°	260.4	260.4	260.4	260.4	260.4	260.1	259.6	259.1	258.6	258.0	257.5
107.5°	317.2	318.4	319.6	320.8	321.9	322.4	322.2	322.0	321.8	321.6	321.6
110°	361.3	362.0	362.8	363.7	364.5	364.9	364.9	364.9	364.9	364.9	364.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	403.5	404.1	404.7	405.3	405.9	406.5	407.1	407.7	408.3	408.9	409.1
115°	469.2	470.0	470.8	471.6	472.3	472.8	473.1	473.4	473.6	473.9	474.4
117.5°	531.9	532.6	533.4	534.2	535.0	535.7	536.3	536.9	537.6	538.2	539.7
120°	575.9	576.7	577.5	578.3	579.1	579.5	579.5	579.5	579.5	579.5	581.6
122.5°	619.1	619.8	620.3	620.9	621.5	622.0	622.7	623.3	623.9	624.5	626.0
125°	685.1	685.3	685.6	685.8	686.1	686.6	687.4	688.2	688.9	689.7	690.5
127.5°	745.1	746.0	746.8	747.6	748.4	749.3	750.2	751.2	752.1	753.1	754.1
130°	788.3	789.3	790.3	791.4	792.4	793.2	793.8	794.3	794.8	795.4	795.9
132.5°	829.6	830.4	831.2	832.1	832.9	833.9	835.1	836.2	837.4	838.5	838.4
135°	893.8	894.6	895.4	896.2	897.0	897.5	897.8	898.1	898.3	898.6	898.1
137.5°	952.0	953.1	954.1	955.1	956.2	956.8	957.0	957.3	957.5	957.7	956.9
140°	992.4	993.4	994.5	995.5	996.5	997.0	997.0	997.0	997.0	997.0	995.8
142.5°	1029.0	1030.1	1031.1	1032.1	1033.2	1033.6	1033.4	1033.2	1033.0	1032.8	1031.9
145°	1083.9	1084.9	1086.0	1087.0	1088.0	1088.4	1088.2	1087.9	1087.6	1087.4	1085.8
147.5°	1133.0	1133.9	1134.9	1135.9	1136.9	1137.1	1136.5	1136.0	1135.4	1134.8	1133.8
150°	1164.9	1165.6	1166.4	1167.2	1168.0	1168.0	1167.2	1166.4	1165.6	1164.9	1163.8
152.5°	1194.9	1195.9	1196.9	1197.8	1198.8	1198.8	1197.8	1196.9	1195.9	1194.9	1193.7
155°	1235.2	1236.0	1236.8	1237.6	1238.3	1238.1	1236.8	1235.5	1234.2	1232.8	1232.1
157.5°	1269.9	1271.2	1272.4	1273.6	1275.0	1274.7	1272.9	1271.1	1269.4	1267.6	1267.1
160°	1291.5	1292.5	1293.6	1294.6	1295.7	1295.5	1293.8	1292.3	1290.7	1289.2	1288.9
162.5°	1310.3	1311.5	1312.8	1314.0	1315.2	1315.0	1313.2	1311.5	1309.7	1308.0	1307.7
165°	1334.9	1336.3	1337.6	1338.9	1340.1	1339.9	1338.1	1336.3	1334.4	1332.6	1332.6
167.5°	1355.1	1356.5	1357.8	1359.2	1360.5	1360.3	1358.5	1356.7	1354.8	1353.0	1353.0
170°	1365.4	1367.0	1368.6	1370.1	1371.7	1371.5	1369.7	1367.9	1366.0	1364.2	1364.5
172.5°	1373.8	1375.4	1377.0	1378.6	1380.1	1380.0	1378.2	1376.3	1374.5	1372.7	1372.9
175°	1383.0	1384.6	1386.1	1387.8	1389.3	1389.2	1387.4	1385.5	1383.7	1381.8	1382.4
177.5°	1387.3	1388.5	1389.8	1391.0	1392.2	1392.2	1391.0	1389.8	1388.5	1387.3	1387.7
180°	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4
2.5°	1111.3	1108.9	1106.8	1101.4	1098.6	1092.6	1091.7	1091.4	1083.6	1076.0	1073.9
5°	1149.4	1143.5	1134.4	1123.8	1112.9	1101.6	1094.0	1088.0	1072.9	1058.5	1050.3
7.5°	1187.9	1175.0	1159.3	1139.3	1122.7	1104.0	1090.1	1077.6	1056.2	1035.7	1021.9
10°	1216.6	1195.5	1174.8	1147.2	1125.7	1104.6	1085.0	1068.0	1043.9	1016.7	997.4
12.5°	1234.4	1211.1	1182.6	1155.7	1127.8	1101.0	1074.7	1052.9	1024.6	996.5	973.6
15°	1258.5	1233.6	1198.9	1160.4	1124.6	1089.5	1059.3	1032.2	995.2	961.7	933.7
17.5°	1278.2	1243.9	1206.6	1162.2	1120.6	1076.1	1037.2	1002.5	961.4	920.9	888.1
20°	1284.4	1250.5	1207.5	1163.1	1114.0	1061.6	1019.8	982.0	937.9	893.7	856.1
22.5°	1280.5	1254.2	1206.3	1153.1	1102.9	1048.0	1000.8	956.9	908.1	863.0	819.3
25°	1253.9	1244.9	1199.6	1141.6	1084.2	1020.5	965.8	917.9	862.1	813.9	766.3
27.5°	1191.8	1211.4	1183.4	1121.5	1057.7	989.4	928.0	873.4	815.5	761.1	713.8
30°	1132.2	1177.0	1164.9	1107.6	1036.3	969.2	900.2	843.2	781.4	725.6	678.8
32.5°	1050.4	1124.5	1136.3	1088.3	1014.6	940.8	868.5	811.8	747.3	688.4	642.9
35°	920.2	1031.1	1082.0	1051.4	977.4	898.0	823.2	757.3	692.4	634.3	589.1
37.5°	764.9	915.8	1000.8	1002.9	935.0	852.3	771.0	705.5	639.0	582.1	533.1
40°	664.1	827.8	938.3	962.8	905.4	816.1	733.9	667.1	602.3	546.4	490.3
42.5°	573.6	736.7	872.5	915.1	869.6	780.8	698.3	628.5	565.4	512.6	455.2
45°	463.8	606.4	756.1	832.3	807.1	724.8	637.7	571.4	512.1	466.5	411.4
47.5°	391.3	491.8	636.6	739.7	739.2	664.2	578.6	514.9	460.0	417.3	372.6
50°	349.9	437.5	560.1	676.9	686.7	623.8	542.3	479.3	428.1	383.1	347.3
52.5°	312.9	385.0	495.1	607.2	635.1	580.6	501.6	443.4	393.6	352.3	321.6
55°	264.4	320.1	403.9	508.8	551.0	512.5	442.3	388.1	347.7	313.1	286.6
57.5°	223.6	265.5	332.6	417.1	466.3	442.0	384.3	340.1	305.6	274.2	253.4
60°	198.0	232.3	289.2	359.8	414.0	397.1	347.7	306.6	277.2	250.0	230.5
62.5°	173.9	203.4	252.2	309.4	359.2	352.1	311.8	277.3	251.6	226.8	210.3
65°	139.9	161.4	199.4	244.4	284.4	287.7	258.7	235.3	212.3	192.7	178.0
67.5°	111.4	125.4	152.3	190.1	220.0	230.8	213.0	195.1	176.8	161.7	149.0
70°	93.9	105.2	124.8	155.4	182.9	194.2	184.0	170.1	154.2	141.8	130.9
72.5°	76.1	87.2	101.6	124.0	147.6	159.9	156.3	146.2	133.4	123.1	112.8
75°	57.4	60.7	70.5	85.6	104.1	114.6	117.2	112.0	101.8	93.9	87.9
77.5°	42.4	44.4	49.1	57.1	69.1	78.5	82.4	81.8	74.7	70.2	64.5
80°	33.9	35.0	37.4	40.7	49.8	59.2	61.8	61.8	57.0	55.0	49.4
82.5°	25.8	26.7	28.0	29.9	34.1	42.3	45.2	45.8	42.7	40.3	35.9
85°	14.7	14.3	15.0	16.3	17.0	19.2	23.7	24.5	23.7	20.7	19.6
87.5°	11.0	10.2	9.1	7.9	7.6	7.2	8.1	9.0	8.4	8.1	8.2
90°	29.6	23.8	18.1	13.7	10.6	7.5	4.3	1.2	4.3	7.5	10.6
92.5°	34.6	33.2	31.9	30.1	27.8	25.4	23.1	20.9	23.1	25.4	27.8
95°	74.0	73.5	73.0	71.4	68.8	66.2	63.6	61.0	63.6	66.2	68.8
97.5°	124.2	123.2	122.3	120.6	118.4	116.0	113.7	111.5	113.7	116.0	118.4
100°	160.3	159.6	158.8	157.3	155.2	153.2	151.1	149.0	151.1	153.2	155.2
102.5°	198.3	197.4	196.4	195.1	193.4	191.8	190.1	188.4	190.1	191.8	193.4
105°	257.0	256.5	256.0	255.3	254.6	253.8	253.0	252.2	253.0	253.8	254.6
107.5°	321.6	321.6	321.6	321.0	319.9	318.8	317.6	316.5	317.6	318.8	319.9
110°	364.9	364.9	364.9	364.1	362.4	360.9	359.3	357.8	359.3	360.9	362.4



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	409.3	409.5	409.8	409.1	407.5	406.0	404.3	402.8	404.3	406.0	407.5
115°	474.9	475.4	475.9	475.4	473.9	472.3	470.8	469.2	470.8	472.3	473.9
117.5°	541.1	542.6	544.0	543.7	541.6	539.6	537.5	535.3	537.5	539.6	541.6
120°	583.7	585.7	587.8	587.8	585.7	583.7	581.6	579.5	581.6	583.7	585.7
122.5°	627.4	628.9	630.4	629.9	627.3	624.8	622.4	619.9	622.4	624.8	627.3
125°	691.4	692.1	692.9	692.1	689.7	687.4	685.1	682.7	685.1	687.4	689.7
127.5°	755.0	755.9	756.9	755.8	752.9	749.9	746.9	744.0	746.9	749.9	752.9
130°	796.4	796.9	797.4	796.0	792.5	789.2	785.8	782.4	785.8	789.2	792.5
132.5°	838.3	838.2	838.1	836.7	833.8	831.1	828.4	825.6	828.4	831.1	833.8
135°	897.5	897.0	896.5	894.7	891.9	889.1	886.2	883.3	886.2	889.1	891.9
137.5°	956.3	955.6	954.9	953.4	951.1	948.8	946.4	944.0	946.4	948.8	951.1
140°	994.5	993.2	991.9	990.1	987.7	985.3	983.0	980.7	983.0	985.3	987.7
142.5°	1031.0	1030.1	1029.2	1027.5	1025.2	1022.9	1020.6	1018.2	1020.6	1022.9	1025.2
145°	1084.3	1082.7	1081.2	1079.4	1077.6	1075.8	1074.0	1072.2	1074.0	1075.8	1077.6
147.5°	1132.8	1131.7	1130.6	1129.0	1126.8	1124.6	1122.5	1120.2	1122.5	1124.6	1126.8
150°	1162.8	1161.7	1160.6	1159.3	1157.8	1156.2	1154.7	1153.1	1154.7	1156.2	1157.8
152.5°	1192.3	1191.1	1189.8	1188.4	1186.9	1185.3	1183.8	1182.1	1183.8	1185.3	1186.9
155°	1231.3	1230.5	1229.7	1229.0	1228.2	1227.4	1226.6	1225.9	1226.6	1227.4	1228.2
157.5°	1266.7	1266.2	1265.7	1265.3	1264.7	1264.1	1263.6	1263.1	1263.6	1264.1	1264.7
160°	1288.7	1288.4	1288.1	1287.8	1287.2	1286.7	1286.2	1285.7	1286.2	1286.7	1287.2
162.5°	1307.4	1307.2	1306.9	1306.8	1306.6	1306.5	1306.4	1306.3	1306.4	1306.5	1306.6
165°	1332.6	1332.6	1332.6	1332.7	1332.9	1333.2	1333.5	1333.7	1333.5	1333.2	1332.9
167.5°	1353.1	1353.1	1353.2	1353.6	1354.4	1355.1	1355.9	1356.8	1355.9	1355.1	1354.4
170°	1364.7	1365.0	1365.3	1365.8	1366.5	1367.4	1368.2	1369.0	1368.2	1367.4	1366.5
172.5°	1373.2	1373.5	1373.7	1374.2	1375.0	1375.8	1376.6	1377.4	1376.6	1375.8	1375.0
175°	1382.9	1383.4	1383.9	1384.6	1385.3	1386.1	1386.9	1387.8	1386.9	1386.1	1385.3
177.5°	1388.1	1388.5	1388.9	1389.5	1390.1	1390.7	1391.3	1391.9	1391.3	1390.7	1390.1
180°	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4
2.5°	1070.0	1067.8	1063.9	1057.9	1054.3	1047.9	1043.7	1046.1	1046.7	1046.1	1045.5
5°	1041.3	1033.3	1022.4	1011.8	1002.0	991.5	985.4	982.8	977.4	974.5	973.0
7.5°	1006.4	992.8	977.3	959.0	943.3	927.0	918.6	914.4	903.6	897.8	892.6
10°	980.5	959.0	943.5	919.4	904.7	883.2	868.5	868.9	854.1	845.9	839.8
12.5°	951.9	928.3	902.5	880.8	860.4	843.1	825.4	818.2	802.5	794.6	778.3
15°	904.3	876.8	849.7	820.2	799.5	772.7	747.1	715.8	690.5	668.6	662.6
17.5°	852.4	818.4	791.1	756.6	721.0	676.0	646.3	628.1	612.9	601.4	592.8
20°	816.9	782.1	753.2	701.0	653.2	622.6	600.8	586.8	571.0	558.6	551.7
22.5°	779.4	743.3	703.7	645.5	608.2	583.7	564.2	548.2	537.5	527.8	521.6
25°	726.3	686.7	621.5	581.5	551.4	525.7	512.1	502.3	491.0	477.8	471.8
27.5°	670.2	607.2	560.4	530.7	501.9	485.2	473.0	458.4	448.3	442.3	436.1
30°	628.2	565.3	528.8	496.2	475.9	457.5	443.1	434.8	425.1	414.9	410.7
32.5°	581.5	531.2	496.1	469.2	448.5	432.7	421.4	408.0	400.9	394.7	386.0
35°	523.4	485.3	453.3	431.4	411.8	399.0	385.8	377.9	365.1	359.8	356.4
37.5°	474.2	441.2	417.3	394.3	378.7	364.6	356.5	343.9	338.3	330.9	323.8
40°	446.5	414.0	391.1	372.2	354.9	344.3	334.2	324.0	315.7	312.3	303.6
42.5°	418.2	391.7	368.7	348.1	336.5	325.3	312.5	305.0	296.3	290.8	285.5
45°	379.0	355.7	336.0	319.0	306.2	294.6	286.2	273.8	268.9	257.9	253.4
47.5°	344.6	322.9	304.2	288.0	275.5	267.9	255.8	246.0	238.2	231.5	225.7
50°	320.1	302.1	284.0	269.6	258.3	247.4	235.0	230.0	217.9	214.6	211.2
52.5°	297.8	280.6	264.1	250.0	238.7	228.1	217.1	210.8	202.6	199.1	196.7
55°	266.6	250.0	234.2	221.8	210.5	199.4	192.7	184.8	181.0	178.3	175.3
57.5°	235.2	220.4	208.1	195.6	184.2	175.5	167.6	162.9	159.0	155.5	151.9
60°	215.3	201.0	190.1	178.3	166.7	159.6	153.5	147.8	143.3	138.0	136.5
62.5°	194.2	181.7	171.7	160.3	150.1	143.5	137.8	132.5	127.0	119.4	117.2
65°	165.2	155.4	144.8	135.4	126.3	120.0	111.6	105.6	103.3	102.6	102.2
67.5°	139.0	129.7	120.6	111.0	102.7	96.7	92.5	91.6	90.1	89.6	88.6
70°	121.4	112.8	103.7	94.6	86.7	85.6	84.1	82.6	80.7	80.0	79.2
72.5°	105.7	96.7	87.8	80.5	77.1	75.6	74.1	72.6	71.4	70.6	70.2
75°	81.1	72.8	66.8	64.1	62.2	61.1	58.9	57.7	57.0	55.8	55.4
77.5°	58.4	53.7	50.9	49.3	47.3	46.0	44.8	43.6	42.8	42.6	42.0
80°	44.5	42.2	40.4	38.1	37.4	35.9	35.4	34.3	34.7	33.5	33.5
82.5°	34.5	31.7	30.1	29.1	28.3	27.1	26.7	26.2	26.3	25.4	25.4
85°	17.8	17.0	16.3	15.5	15.5	14.3	14.7	14.3	14.3	13.5	13.2
87.5°	8.5	9.1	9.6	10.7	11.9	12.7	12.6	12.2	12.1	12.0	11.7
90°	13.7	18.1	23.8	29.6	35.3	41.1	40.5	40.0	39.5	39.0	38.9
92.5°	30.1	31.9	33.2	34.6	36.0	37.3	37.4	37.5	37.6	37.8	37.8
95°	71.4	73.0	73.5	74.0	74.5	75.0	75.0	75.0	75.0	75.0	74.8
97.5°	120.6	122.3	123.2	124.2	125.2	126.2	126.2	126.2	126.2	126.2	126.2
100°	157.3	158.8	159.6	160.3	161.1	161.9	161.9	161.9	161.9	161.9	161.8
102.5°	195.1	196.4	197.4	198.3	199.3	200.4	200.6	200.8	201.0	201.2	201.2
105°	255.3	256.0	256.5	257.0	257.5	258.0	258.6	259.1	259.6	260.1	260.4
107.5°	321.0	321.6	321.6	321.6	321.6	321.6	321.8	322.0	322.2	322.4	321.9
110°	364.1	364.9	364.9	364.9	364.9	364.9	364.9	364.9	364.9	364.9	364.5



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	409.1	409.8	409.5	409.3	409.1	408.9	408.3	407.7	407.1	406.5	405.9
115°	475.4	475.9	475.4	474.9	474.4	473.9	473.6	473.4	473.1	472.8	472.3
117.5°	543.7	544.0	542.6	541.1	539.7	538.2	537.6	536.9	536.3	535.7	535.0
120°	587.8	587.8	585.7	583.7	581.6	579.5	579.5	579.5	579.5	579.5	579.1
122.5°	629.9	630.4	628.9	627.4	626.0	624.5	623.9	623.3	622.7	622.0	621.5
125°	692.1	692.9	692.1	691.4	690.5	689.7	688.9	688.2	687.4	686.6	686.1
127.5°	755.8	756.9	755.9	755.0	754.1	753.1	752.1	751.2	750.2	749.3	748.4
130°	796.0	797.4	796.9	796.4	795.9	795.4	794.8	794.3	793.8	793.2	792.4
132.5°	836.7	838.1	838.2	838.3	838.4	838.5	837.4	836.2	835.1	833.9	832.9
135°	894.7	896.5	897.0	897.5	898.1	898.6	898.3	898.1	897.8	897.5	897.0
137.5°	953.4	954.9	955.6	956.3	956.9	957.7	957.5	957.3	957.0	956.8	956.2
140°	990.1	991.9	993.2	994.5	995.8	997.0	997.0	997.0	997.0	997.0	996.5
142.5°	1027.5	1029.2	1030.1	1031.0	1031.9	1032.8	1033.0	1033.2	1033.4	1033.6	1033.2
145°	1079.4	1081.2	1082.7	1084.3	1085.8	1087.4	1087.6	1087.9	1088.2	1088.4	1088.0
147.5°	1129.0	1130.6	1131.7	1132.8	1133.8	1134.8	1135.4	1136.0	1136.5	1137.1	1136.9
150°	1159.3	1160.6	1161.7	1162.8	1163.8	1164.9	1165.6	1166.4	1167.2	1168.0	1168.0
152.5°	1188.4	1189.8	1191.1	1192.3	1193.7	1194.9	1195.9	1196.9	1197.8	1198.8	1198.8
155°	1229.0	1229.7	1230.5	1231.3	1232.1	1232.8	1234.2	1235.5	1236.8	1238.1	1238.3
157.5°	1265.3	1265.7	1266.2	1266.7	1267.1	1267.6	1269.4	1271.1	1272.9	1274.7	1275.0
160°	1287.8	1288.1	1288.4	1288.7	1288.9	1289.2	1290.7	1292.3	1293.8	1295.5	1295.7
162.5°	1306.8	1306.9	1307.2	1307.4	1307.7	1308.0	1309.7	1311.5	1313.2	1315.0	1315.2
165°	1332.7	1332.6	1332.6	1332.6	1332.6	1332.6	1334.4	1336.3	1338.1	1339.9	1340.1
167.5°	1353.6	1353.2	1353.1	1353.1	1353.0	1353.0	1354.8	1356.7	1358.5	1360.3	1360.5
170°	1365.8	1365.3	1365.0	1364.7	1364.5	1364.2	1366.0	1367.9	1369.7	1371.5	1371.7
172.5°	1374.2	1373.7	1373.5	1373.2	1372.9	1372.7	1374.5	1376.3	1378.2	1380.0	1380.1
175°	1384.6	1383.9	1383.4	1382.9	1382.4	1381.8	1383.7	1385.5	1387.4	1389.2	1389.3
177.5°	1389.5	1388.9	1388.5	1388.1	1387.7	1387.3	1388.5	1389.8	1391.0	1392.2	1392.2
180°	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4
2.5°	1042.2	1042.8	1041.9	1042.5	1041.9	1042.8	1042.2	1045.5	1046.1	1046.7	1046.1
5°	971.1	966.5	965.8	964.7	965.8	966.5	971.1	973.0	974.5	977.4	982.8
7.5°	886.2	885.4	883.6	880.9	883.6	885.4	886.2	892.6	897.8	903.6	914.4
10°	831.5	829.7	829.3	826.7	829.3	829.7	831.5	839.8	845.9	854.1	868.9
12.5°	767.6	755.5	754.2	747.6	754.2	755.5	767.6	778.3	794.6	802.5	818.2
15°	653.6	651.3	643.8	638.8	643.8	651.3	653.6	662.6	668.6	690.5	715.8
17.5°	588.3	581.0	578.7	577.6	578.7	581.0	588.3	592.8	601.4	612.9	628.1
20°	546.4	539.7	538.6	537.8	538.6	539.7	546.4	551.7	558.6	571.0	586.8
22.5°	517.5	510.4	507.5	505.2	507.5	510.4	517.5	521.6	527.8	537.5	548.2
25°	468.0	465.3	463.8	463.1	463.8	465.3	468.0	471.8	477.8	491.0	502.3
27.5°	429.3	423.5	422.3	420.4	422.3	423.5	429.3	436.1	442.3	448.3	458.4
30°	407.3	405.4	402.7	400.5	402.7	405.4	407.3	410.7	414.9	425.1	434.8
32.5°	381.3	379.8	377.4	376.4	377.4	379.8	381.3	386.0	394.7	400.9	408.0
35°	352.6	347.3	345.1	341.6	345.1	347.3	352.6	356.4	359.8	365.1	377.9
37.5°	322.2	319.4	316.3	317.4	316.3	319.4	322.2	323.8	330.9	338.3	343.9
40°	298.7	296.8	296.0	295.7	296.0	296.8	298.7	303.6	312.3	315.7	324.0
42.5°	279.9	274.8	272.8	272.8	272.8	274.8	279.9	285.5	290.8	296.3	305.0
45°	251.6	246.6	243.3	243.6	243.3	246.6	251.6	253.4	257.9	268.9	273.8
47.5°	222.5	222.3	220.2	220.9	220.2	222.3	222.5	225.7	231.5	238.2	246.0
50°	208.5	206.3	204.8	205.1	204.8	206.3	208.5	211.2	214.6	217.9	230.0
52.5°	195.3	193.3	192.1	193.7	192.1	193.3	195.3	196.7	199.1	202.6	210.8
55°	173.5	171.2	170.9	170.5	170.9	171.2	173.5	175.3	178.3	181.0	184.8
57.5°	149.2	147.6	145.3	144.4	145.3	147.6	149.2	151.9	155.5	159.0	162.9
60°	131.6	128.6	124.8	124.4	124.8	128.6	131.6	136.5	138.0	143.3	147.8
62.5°	115.6	115.0	114.3	114.2	114.3	115.0	115.6	117.2	119.4	127.0	132.5
65°	101.5	101.1	101.5	101.8	101.5	101.1	101.5	102.2	102.6	103.3	105.6
67.5°	88.4	87.8	87.1	87.4	87.1	87.8	88.4	88.6	89.6	90.1	91.6
70°	78.5	78.1	77.7	77.7	77.7	78.1	78.5	79.2	80.0	80.7	82.6
72.5°	68.8	68.7	68.4	68.1	68.4	68.7	68.8	70.2	70.6	71.4	72.6
75°	55.0	54.3	54.3	54.3	54.3	54.3	55.0	55.4	55.8	57.0	57.7
77.5°	41.9	41.6	41.2	40.9	41.2	41.6	41.9	42.0	42.6	42.8	43.6
80°	33.2	32.8	32.4	32.4	32.4	32.8	33.2	33.5	33.5	34.7	34.3
82.5°	25.3	24.9	24.8	24.5	24.8	24.9	25.3	25.4	25.4	26.3	26.2
85°	13.5	13.9	13.5	14.3	13.5	13.9	13.5	13.2	13.5	14.3	14.3
87.5°	11.7	11.5	11.8	11.6	11.8	11.5	11.7	11.7	12.0	12.1	12.2
90°	39.1	39.4	39.6	39.9	39.6	39.4	39.1	38.9	39.0	39.5	40.0
92.5°	37.9	37.9	38.0	38.0	38.0	37.9	37.9	37.8	37.8	37.6	37.5
95°	74.3	73.8	73.2	72.7	73.2	73.8	74.3	74.8	75.0	75.0	75.0
97.5°	126.1	126.1	126.0	126.0	126.0	126.1	126.1	126.2	126.2	126.2	126.2
100°	161.5	161.3	161.0	160.7	161.0	161.3	161.5	161.8	161.9	161.9	161.9
102.5°	200.9	200.7	200.4	200.2	200.4	200.7	200.9	201.2	201.2	201.0	200.8
105°	260.4	260.4	260.4	260.4	260.4	260.4	260.4	260.4	260.1	259.6	259.1
107.5°	320.8	319.6	318.4	317.2	318.4	319.6	320.8	321.9	322.4	322.2	322.0
110°	363.7	362.8	362.0	361.3	362.0	362.8	363.7	364.5	364.9	364.9	364.9



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	405.3	404.7	404.1	403.5	404.1	404.7	405.3	405.9	406.5	407.1	407.7
115°	471.6	470.8	470.0	469.2	470.0	470.8	471.6	472.3	472.8	473.1	473.4
117.5°	534.2	533.4	532.6	531.9	532.6	533.4	534.2	535.0	535.7	536.3	536.9
120°	578.3	577.5	576.7	575.9	576.7	577.5	578.3	579.1	579.5	579.5	579.5
122.5°	620.9	620.3	619.8	619.1	619.8	620.3	620.9	621.5	622.0	622.7	623.3
125°	685.8	685.6	685.3	685.1	685.3	685.6	685.8	686.1	686.6	687.4	688.2
127.5°	747.6	746.8	746.0	745.1	746.0	746.8	747.6	748.4	749.3	750.2	751.2
130°	791.4	790.3	789.3	788.3	789.3	790.3	791.4	792.4	793.2	793.8	794.3
132.5°	832.1	831.2	830.4	829.6	830.4	831.2	832.1	832.9	833.9	835.1	836.2
135°	896.2	895.4	894.6	893.8	894.6	895.4	896.2	897.0	897.5	897.8	898.1
137.5°	955.1	954.1	953.1	952.0	953.1	954.1	955.1	956.2	956.8	957.0	957.3
140°	995.5	994.5	993.4	992.4	993.4	994.5	995.5	996.5	997.0	997.0	997.0
142.5°	1032.1	1031.1	1030.1	1029.0	1030.1	1031.1	1032.1	1033.2	1033.6	1033.4	1033.2
145°	1087.0	1086.0	1084.9	1083.9	1084.9	1086.0	1087.0	1088.0	1088.4	1088.2	1087.9
147.5°	1135.9	1134.9	1133.9	1133.0	1133.9	1134.9	1135.9	1136.9	1137.1	1136.5	1136.0
150°	1167.2	1166.4	1165.6	1164.9	1165.6	1166.4	1167.2	1168.0	1168.0	1167.2	1166.4
152.5°	1197.8	1196.9	1195.9	1194.9	1195.9	1196.9	1197.8	1198.8	1198.8	1197.8	1196.9
155°	1237.6	1236.8	1236.0	1235.2	1236.0	1236.8	1237.6	1238.3	1238.1	1236.8	1235.5
157.5°	1273.6	1272.4	1271.2	1269.9	1271.2	1272.4	1273.6	1275.0	1274.7	1272.9	1271.1
160°	1294.6	1293.6	1292.5	1291.5	1292.5	1293.6	1294.6	1295.7	1295.5	1293.8	1292.3
162.5°	1314.0	1312.8	1311.5	1310.3	1311.5	1312.8	1314.0	1315.2	1315.0	1313.2	1311.5
165°	1338.9	1337.6	1336.3	1334.9	1336.3	1337.6	1338.9	1340.1	1339.9	1338.1	1336.3
167.5°	1359.2	1357.8	1356.5	1355.1	1356.5	1357.8	1359.2	1360.5	1360.3	1358.5	1356.7
170°	1370.1	1368.6	1367.0	1365.4	1367.0	1368.6	1370.1	1371.7	1371.5	1369.7	1367.9
172.5°	1378.6	1377.0	1375.4	1373.8	1375.4	1377.0	1378.6	1380.1	1380.0	1378.2	1376.3
175°	1387.8	1386.1	1384.6	1383.0	1384.6	1386.1	1387.8	1389.3	1389.2	1387.4	1385.5
177.5°	1391.0	1389.8	1388.5	1387.3	1388.5	1389.8	1391.0	1392.2	1392.2	1391.0	1389.8
180°	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4
2.5°	1043.7	1047.9	1054.3	1057.9	1063.9	1067.8	1070.0	1073.9	1076.0	1083.6	1091.4
5°	985.4	991.5	1002.0	1011.8	1022.4	1033.3	1041.3	1050.3	1058.5	1072.9	1088.0
7.5°	918.6	927.0	943.3	959.0	977.3	992.8	1006.4	1021.9	1035.7	1056.2	1077.6
10°	868.5	883.2	904.7	919.4	943.5	959.0	980.5	997.4	1016.7	1043.9	1068.0
12.5°	825.4	843.1	860.4	880.8	902.5	928.3	951.9	973.6	996.5	1024.6	1052.9
15°	747.1	772.7	799.5	820.2	849.7	876.8	904.3	933.7	961.7	995.2	1032.2
17.5°	646.3	676.0	721.0	756.6	791.1	818.4	852.4	888.1	920.9	961.4	1002.5
20°	600.8	622.6	653.2	701.0	753.2	782.1	816.9	856.1	893.7	937.9	982.0
22.5°	564.2	583.7	608.2	645.5	703.7	743.3	779.4	819.3	863.0	908.1	956.9
25°	512.1	525.7	551.4	581.5	621.5	686.7	726.3	766.3	813.9	862.1	917.9
27.5°	473.0	485.2	501.9	530.7	560.4	607.2	670.2	713.8	761.1	815.5	873.4
30°	443.1	457.5	475.9	496.2	528.8	565.3	628.2	678.8	725.6	781.4	843.2
32.5°	421.4	432.7	448.5	469.2	496.1	531.2	581.5	642.9	688.4	747.3	811.8
35°	385.8	399.0	411.8	431.4	453.3	485.3	523.4	589.1	634.3	692.4	757.3
37.5°	356.5	364.6	378.7	394.3	417.3	441.2	474.2	533.1	582.1	639.0	705.5
40°	334.2	344.3	354.9	372.2	391.1	414.0	446.5	490.3	546.4	602.3	667.1
42.5°	312.5	325.3	336.5	348.1	368.7	391.7	418.2	455.2	512.6	565.4	628.5
45°	286.2	294.6	306.2	319.0	336.0	355.7	379.0	411.4	466.5	512.1	571.4
47.5°	255.8	267.9	275.5	288.0	304.2	322.9	344.6	372.6	417.3	460.0	514.9
50°	235.0	247.4	258.3	269.6	284.0	302.1	320.1	347.3	383.1	428.1	479.3
52.5°	217.1	228.1	238.7	250.0	264.1	280.6	297.8	321.6	352.3	393.6	443.4
55°	192.7	199.4	210.5	221.8	234.2	250.0	266.6	286.6	313.1	347.7	388.1
57.5°	167.6	175.5	184.2	195.6	208.1	220.4	235.2	253.4	274.2	305.6	340.1
60°	153.5	159.6	166.7	178.3	190.1	201.0	215.3	230.5	250.0	277.2	306.6
62.5°	137.8	143.5	150.1	160.3	171.7	181.7	194.2	210.3	226.8	251.6	277.3
65°	111.6	120.0	126.3	135.4	144.8	155.4	165.2	178.0	192.7	212.3	235.3
67.5°	92.5	96.7	102.7	111.0	120.6	129.7	139.0	149.0	161.7	176.8	195.1
70°	84.1	85.6	86.7	94.6	103.7	112.8	121.4	130.9	141.8	154.2	170.1
72.5°	74.1	75.6	77.1	80.5	87.8	96.7	105.7	112.8	123.1	133.4	146.2
75°	58.9	61.1	62.2	64.1	66.8	72.8	81.1	87.9	93.9	101.8	112.0
77.5°	44.8	46.0	47.3	49.3	50.9	53.7	58.4	64.5	70.2	74.7	81.8
80°	35.4	35.9	37.4	38.1	40.4	42.2	44.5	49.4	55.0	57.0	61.8
82.5°	26.7	27.1	28.3	29.1	30.1	31.7	34.5	35.9	40.3	42.7	45.8
85°	14.7	14.3	15.5	15.5	16.3	17.0	17.8	19.6	20.7	23.7	24.5
87.5°	12.6	12.7	11.9	10.7	9.6	9.1	8.5	8.2	8.1	8.4	9.0
90°	40.5	41.1	35.3	29.6	23.8	18.1	13.7	10.6	7.5	4.3	1.2
92.5°	37.4	37.3	36.0	34.6	33.2	31.9	30.1	27.8	25.4	23.1	20.9
95°	75.0	75.0	74.5	74.0	73.5	73.0	71.4	68.8	66.2	63.6	61.0
97.5°	126.2	126.2	125.2	124.2	123.2	122.3	120.6	118.4	116.0	113.7	111.5
100°	161.9	161.9	161.1	160.3	159.6	158.8	157.3	155.2	153.2	151.1	149.0
102.5°	200.6	200.4	199.3	198.3	197.4	196.4	195.1	193.4	191.8	190.1	188.4
105°	258.6	258.0	257.5	257.0	256.5	256.0	255.3	254.6	253.8	253.0	252.2
107.5°	321.8	321.6	321.6	321.6	321.6	321.6	321.0	319.9	318.8	317.6	316.5
110°	364.9	364.9	364.9	364.9	364.9	364.9	364.1	362.4	360.9	359.3	357.8



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	408.3	408.9	409.1	409.3	409.5	409.8	409.1	407.5	406.0	404.3	402.8
115°	473.6	473.9	474.4	474.9	475.4	475.9	475.4	473.9	472.3	470.8	469.2
117.5°	537.6	538.2	539.7	541.1	542.6	544.0	543.7	541.6	539.6	537.5	535.3
120°	579.5	579.5	581.6	583.7	585.7	587.8	587.8	585.7	583.7	581.6	579.5
122.5°	623.9	624.5	626.0	627.4	628.9	630.4	629.9	627.3	624.8	622.4	619.9
125°	688.9	689.7	690.5	691.4	692.1	692.9	692.1	689.7	687.4	685.1	682.7
127.5°	752.1	753.1	754.1	755.0	755.9	756.9	755.8	752.9	749.9	746.9	744.0
130°	794.8	795.4	795.9	796.4	796.9	797.4	796.0	792.5	789.2	785.8	782.4
132.5°	837.4	838.5	838.4	838.3	838.2	838.1	836.7	833.8	831.1	828.4	825.6
135°	898.3	898.6	898.1	897.5	897.0	896.5	894.7	891.9	889.1	886.2	883.3
137.5°	957.5	957.7	956.9	956.3	955.6	954.9	953.4	951.1	948.8	946.4	944.0
140°	997.0	997.0	995.8	994.5	993.2	991.9	990.1	987.7	985.3	983.0	980.7
142.5°	1033.0	1032.8	1031.9	1031.0	1030.1	1029.2	1027.5	1025.2	1022.9	1020.6	1018.2
145°	1087.6	1087.4	1085.8	1084.3	1082.7	1081.2	1079.4	1077.6	1075.8	1074.0	1072.2
147.5°	1135.4	1134.8	1133.8	1132.8	1131.7	1130.6	1129.0	1126.8	1124.6	1122.5	1120.2
150°	1165.6	1164.9	1163.8	1162.8	1161.7	1160.6	1159.3	1157.8	1156.2	1154.7	1153.1
152.5°	1195.9	1194.9	1193.7	1192.3	1191.1	1189.8	1188.4	1186.9	1185.3	1183.8	1182.1
155°	1234.2	1232.8	1232.1	1231.3	1230.5	1229.7	1229.0	1228.2	1227.4	1226.6	1225.9
157.5°	1269.4	1267.6	1267.1	1266.7	1266.2	1265.7	1265.3	1264.7	1264.1	1263.6	1263.1
160°	1290.7	1289.2	1288.9	1288.7	1288.4	1288.1	1287.8	1287.2	1286.7	1286.2	1285.7
162.5°	1309.7	1308.0	1307.7	1307.4	1307.2	1306.9	1306.8	1306.6	1306.5	1306.4	1306.3
165°	1334.4	1332.6	1332.6	1332.6	1332.6	1332.6	1332.7	1332.9	1333.2	1333.5	1333.7
167.5°	1354.8	1353.0	1353.0	1353.1	1353.1	1353.2	1353.6	1354.4	1355.1	1355.9	1356.8
170°	1366.0	1364.2	1364.5	1364.7	1365.0	1365.3	1365.8	1366.5	1367.4	1368.2	1369.0
172.5°	1374.5	1372.7	1372.9	1373.2	1373.5	1373.7	1374.2	1375.0	1375.8	1376.6	1377.4
175°	1383.7	1381.8	1382.4	1382.9	1383.4	1383.9	1384.6	1385.3	1386.1	1386.9	1387.8
177.5°	1388.5	1387.3	1387.7	1388.1	1388.5	1388.9	1389.5	1390.1	1390.7	1391.3	1391.9
180°	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4
2.5°	1091.7	1092.6	1098.6	1101.4	1106.8	1108.9	1111.3	1110.6	1110.6	1111.9	1120.3
5°	1094.0	1101.6	1112.9	1123.8	1134.4	1143.5	1149.4	1155.5	1157.7	1168.7	1178.5
7.5°	1090.1	1104.0	1122.7	1139.3	1159.3	1175.0	1187.9	1199.6	1207.6	1223.6	1239.8
10°	1085.0	1104.6	1125.7	1147.2	1174.8	1195.5	1216.6	1232.8	1238.1	1261.8	1275.5
12.5°	1074.7	1101.0	1127.8	1155.7	1182.6	1211.1	1234.4	1250.6	1269.2	1290.5	1315.6
15°	1059.3	1089.5	1124.6	1160.4	1198.9	1233.6	1258.5	1286.8	1307.1	1330.5	1352.3
17.5°	1037.2	1076.1	1120.6	1162.2	1206.6	1243.9	1278.2	1305.3	1319.6	1332.9	1336.3
20°	1019.8	1061.6	1114.0	1163.1	1207.5	1250.5	1284.4	1307.1	1310.9	1311.2	1291.2
22.5°	1000.8	1048.0	1102.9	1153.1	1206.3	1254.2	1280.5	1290.2	1275.3	1249.7	1211.0
25°	965.8	1020.5	1084.2	1141.6	1199.6	1244.9	1253.9	1237.0	1184.6	1129.4	1059.8
27.5°	928.0	989.4	1057.7	1121.5	1183.4	1211.4	1191.8	1130.6	1036.2	954.2	854.7
30°	900.2	969.2	1036.3	1107.6	1164.9	1177.0	1132.2	1042.0	931.9	808.2	709.0
32.5°	868.5	940.8	1014.6	1088.3	1136.3	1124.5	1050.4	939.4	810.3	688.7	594.9
35°	823.2	898.0	977.4	1051.4	1082.0	1031.1	920.2	775.8	643.8	530.3	465.7
37.5°	771.0	852.3	935.0	1002.9	1000.8	915.8	764.9	615.7	504.8	437.7	391.7
40°	733.9	816.1	905.4	962.8	938.3	827.8	664.1	523.4	442.3	388.8	355.3
42.5°	698.3	780.8	869.6	915.1	872.5	736.7	573.6	463.4	396.5	354.8	327.5
45°	637.7	724.8	807.1	832.3	756.1	606.4	463.8	384.0	339.4	308.5	289.6
47.5°	578.6	664.2	739.2	739.7	636.6	491.8	391.3	332.2	294.3	270.3	256.6
50°	542.3	623.8	686.7	676.9	560.1	437.5	349.9	299.0	267.4	248.9	234.6
52.5°	501.6	580.6	635.1	607.2	495.1	385.0	312.9	270.1	243.9	227.8	215.0
55°	442.3	512.5	551.0	508.8	403.9	320.1	264.4	230.8	211.2	197.6	186.7
57.5°	384.3	442.0	466.3	417.1	332.6	265.5	223.6	198.4	178.9	169.3	163.6
60°	347.7	397.1	414.0	359.8	289.2	232.3	198.0	174.6	160.3	153.9	148.2
62.5°	311.8	352.1	359.2	309.4	252.2	203.4	173.9	154.1	144.6	138.5	133.1
65°	258.7	287.7	284.4	244.4	199.4	161.4	139.9	127.8	120.7	112.0	102.6
67.5°	213.0	230.8	220.0	190.1	152.3	125.4	111.4	102.3	93.4	85.1	83.0
70°	184.0	194.2	182.9	155.4	124.8	105.2	93.9	83.0	77.7	75.8	72.4
72.5°	156.3	159.9	147.6	124.0	101.6	87.2	76.1	70.0	67.2	65.5	63.3
75°	117.2	114.6	104.1	85.6	70.5	60.7	57.4	55.0	53.2	51.7	50.5
77.5°	82.4	78.5	69.1	57.1	49.1	44.4	42.4	41.2	40.3	39.5	38.4
80°	61.8	59.2	49.8	40.7	37.4	35.0	33.9	32.4	32.4	31.7	30.5
82.5°	45.2	42.3	34.1	29.9	28.0	26.7	25.8	24.8	24.5	24.7	23.9
85°	23.7	19.2	17.0	16.3	15.0	14.3	14.7	13.9	13.9	13.9	13.5
87.5°	8.1	7.2	7.6	7.9	9.1	10.2	11.0	12.2	13.6	13.2	13.4
90°	4.3	7.5	10.6	13.7	18.1	23.8	29.6	35.3	41.1	40.5	40.0
92.5°	23.1	25.4	27.8	30.1	31.9	33.2	34.6	36.0	37.3	37.4	37.5
95°	63.6	66.2	68.8	71.4	73.0	73.5	74.0	74.5	75.0	75.0	75.0
97.5°	113.7	116.0	118.4	120.6	122.3	123.2	124.2	125.2	126.2	126.2	126.2
100°	151.1	153.2	155.2	157.3	158.8	159.6	160.3	161.1	161.9	161.9	161.9
102.5°	190.1	191.8	193.4	195.1	196.4	197.4	198.3	199.3	200.4	200.6	200.8
105°	253.0	253.8	254.6	255.3	256.0	256.5	257.0	257.5	258.0	258.6	259.1
107.5°	317.6	318.8	319.9	321.0	321.6	321.6	321.6	321.6	321.6	321.8	322.0
110°	359.3	360.9	362.4	364.1	364.9	364.9	364.9	364.9	364.9	364.9	364.9



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	404.3	406.0	407.5	409.1	409.8	409.5	409.3	409.1	408.9	408.3	407.7
115°	470.8	472.3	473.9	475.4	475.9	475.4	474.9	474.4	473.9	473.6	473.4
117.5°	537.5	539.6	541.6	543.7	544.0	542.6	541.1	539.7	538.2	537.6	536.9
120°	581.6	583.7	585.7	587.8	587.8	585.7	583.7	581.6	579.5	579.5	579.5
122.5°	622.4	624.8	627.3	629.9	630.4	628.9	627.4	626.0	624.5	623.9	623.3
125°	685.1	687.4	689.7	692.1	692.9	692.1	691.4	690.5	689.7	688.9	688.2
127.5°	746.9	749.9	752.9	755.8	756.9	755.9	755.0	754.1	753.1	752.1	751.2
130°	785.8	789.2	792.5	796.0	797.4	796.9	796.4	795.9	795.4	794.8	794.3
132.5°	828.4	831.1	833.8	836.7	838.1	838.2	838.3	838.4	838.5	837.4	836.2
135°	886.2	889.1	891.9	894.7	896.5	897.0	897.5	898.1	898.6	898.3	898.1
137.5°	946.4	948.8	951.1	953.4	954.9	955.6	956.3	956.9	957.7	957.5	957.3
140°	983.0	985.3	987.7	990.1	991.9	993.2	994.5	995.8	997.0	997.0	997.0
142.5°	1020.6	1022.9	1025.2	1027.5	1029.2	1030.1	1031.0	1031.9	1032.8	1033.0	1033.2
145°	1074.0	1075.8	1077.6	1079.4	1081.2	1082.7	1084.3	1085.8	1087.4	1087.6	1087.9
147.5°	1122.5	1124.6	1126.8	1129.0	1130.6	1131.7	1132.8	1133.8	1134.8	1135.4	1136.0
150°	1154.7	1156.2	1157.8	1159.3	1160.6	1161.7	1162.8	1163.8	1164.9	1165.6	1166.4
152.5°	1183.8	1185.3	1186.9	1188.4	1189.8	1191.1	1192.3	1193.7	1194.9	1195.9	1196.9
155°	1226.6	1227.4	1228.2	1229.0	1229.7	1230.5	1231.3	1232.1	1232.8	1234.2	1235.5
157.5°	1263.6	1264.1	1264.7	1265.3	1265.7	1266.2	1266.7	1267.1	1267.6	1269.4	1271.1
160°	1286.2	1286.7	1287.2	1287.8	1288.1	1288.4	1288.7	1288.9	1289.2	1290.7	1292.3
162.5°	1306.4	1306.5	1306.6	1306.8	1306.9	1307.2	1307.4	1307.7	1308.0	1309.7	1311.5
165°	1333.5	1333.2	1332.9	1332.7	1332.6	1332.6	1332.6	1332.6	1332.6	1334.4	1336.3
167.5°	1355.9	1355.1	1354.4	1353.6	1353.2	1353.1	1353.1	1353.0	1353.0	1354.8	1356.7
170°	1368.2	1367.4	1366.5	1365.8	1365.3	1365.0	1364.7	1364.5	1364.2	1366.0	1367.9
172.5°	1376.6	1375.8	1375.0	1374.2	1373.7	1373.5	1373.2	1372.9	1372.7	1374.5	1376.3
175°	1386.9	1386.1	1385.3	1384.6	1383.9	1383.4	1382.9	1382.4	1381.8	1383.7	1385.5
177.5°	1391.3	1390.7	1390.1	1389.5	1388.9	1388.5	1388.1	1387.7	1387.3	1388.5	1389.8
180°	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4
2.5°	1123.4	1127.3	1129.1	1129.1	1131.3	1130.3	1129.4
5°	1187.9	1195.1	1196.6	1203.4	1208.3	1206.8	1207.5
7.5°	1252.1	1263.6	1275.1	1280.2	1281.1	1284.1	1285.3
10°	1291.6	1301.1	1318.8	1316.2	1329.4	1336.9	1324.4
12.5°	1329.7	1342.4	1354.7	1358.1	1365.5	1368.0	1363.0
15°	1364.0	1370.8	1371.6	1369.7	1372.0	1370.1	1362.9
17.5°	1331.9	1320.9	1298.6	1288.0	1279.6	1267.3	1262.3
20°	1278.8	1246.4	1208.7	1193.6	1175.9	1141.1	1149.4
22.5°	1164.2	1127.2	1089.5	1045.4	1024.4	991.5	989.6
25°	985.8	922.1	851.9	802.8	774.3	741.4	727.1
27.5°	766.5	686.2	628.7	599.7	573.1	547.1	546.0
30°	622.3	561.9	517.5	492.5	476.4	465.3	467.7
32.5°	524.5	483.1	453.1	432.5	420.5	412.2	412.1
35°	428.8	400.5	381.2	372.6	364.0	357.9	358.3
37.5°	367.0	349.9	339.2	329.7	324.3	321.3	319.6
40°	335.3	321.3	313.1	307.4	302.9	298.7	297.9
42.5°	310.2	298.7	290.3	285.9	281.8	278.7	278.0
45°	275.3	265.9	258.3	253.4	251.6	248.9	248.9
47.5°	244.9	235.6	229.7	226.6	223.4	221.7	221.6
50°	224.4	217.2	212.0	210.1	207.4	206.3	205.9
52.5°	206.0	200.7	196.8	195.6	194.4	193.0	193.2
55°	181.0	178.0	176.5	175.3	173.5	171.2	172.7
57.5°	160.0	157.4	153.3	149.8	148.0	146.4	147.0
60°	145.2	139.9	134.6	130.5	129.4	125.9	125.9
62.5°	126.5	119.1	112.6	110.3	109.2	107.6	107.2
65°	97.3	94.3	92.8	91.3	90.5	90.5	89.8
67.5°	80.6	79.4	77.8	77.4	76.6	76.4	76.1
70°	71.3	69.8	69.0	68.7	67.9	68.3	67.2
72.5°	62.2	61.0	60.9	59.9	59.5	59.5	58.7
75°	49.0	49.0	48.7	48.3	47.6	47.2	47.6
77.5°	37.7	37.8	37.1	37.1	37.0	37.1	36.7
80°	30.2	30.5	30.2	29.8	29.4	29.8	29.4
82.5°	23.8	23.3	23.2	23.1	23.1	22.8	22.8
85°	13.5	13.9	13.5	13.2	13.2	13.2	13.5
87.5°	13.0	12.9	12.9	12.9	13.0	13.0	12.8
90°	39.5	39.0	38.9	39.1	39.4	39.6	39.9
92.5°	37.6	37.8	37.8	37.9	37.9	38.0	38.0
95°	75.0	75.0	74.8	74.3	73.8	73.2	72.7
97.5°	126.2	126.2	126.2	126.1	126.1	126.0	126.0
100°	161.9	161.9	161.8	161.5	161.3	161.0	160.7
102.5°	201.0	201.2	201.2	200.9	200.7	200.4	200.2
105°	259.6	260.1	260.4	260.4	260.4	260.4	260.4
107.5°	322.2	322.4	321.9	320.8	319.6	318.4	317.2
110°	364.9	364.9	364.5	363.7	362.8	362.0	361.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	407.1	406.5	405.9	405.3	404.7	404.1	403.5
115°	473.1	472.8	472.3	471.6	470.8	470.0	469.2
117.5°	536.3	535.7	535.0	534.2	533.4	532.6	531.9
120°	579.5	579.5	579.1	578.3	577.5	576.7	575.9
122.5°	622.7	622.0	621.5	620.9	620.3	619.8	619.1
125°	687.4	686.6	686.1	685.8	685.6	685.3	685.1
127.5°	750.2	749.3	748.4	747.6	746.8	746.0	745.1
130°	793.8	793.2	792.4	791.4	790.3	789.3	788.3
132.5°	835.1	833.9	832.9	832.1	831.2	830.4	829.6
135°	897.8	897.5	897.0	896.2	895.4	894.6	893.8
137.5°	957.0	956.8	956.2	955.1	954.1	953.1	952.0
140°	997.0	997.0	996.5	995.5	994.5	993.4	992.4
142.5°	1033.4	1033.6	1033.2	1032.1	1031.1	1030.1	1029.0
145°	1088.2	1088.4	1088.0	1087.0	1086.0	1084.9	1083.9
147.5°	1136.5	1137.1	1136.9	1135.9	1134.9	1133.9	1133.0
150°	1167.2	1168.0	1168.0	1167.2	1166.4	1165.6	1164.9
152.5°	1197.8	1198.8	1198.8	1197.8	1196.9	1195.9	1194.9
155°	1236.8	1238.1	1238.3	1237.6	1236.8	1236.0	1235.2
157.5°	1272.9	1274.7	1275.0	1273.6	1272.4	1271.2	1269.9
160°	1293.8	1295.5	1295.7	1294.6	1293.6	1292.5	1291.5
162.5°	1313.2	1315.0	1315.2	1314.0	1312.8	1311.5	1310.3
165°	1338.1	1339.9	1340.1	1338.9	1337.6	1336.3	1334.9
167.5°	1358.5	1360.3	1360.5	1359.2	1357.8	1356.5	1355.1
170°	1369.7	1371.5	1371.7	1370.1	1368.6	1367.0	1365.4
172.5°	1378.2	1380.0	1380.1	1378.6	1377.0	1375.4	1373.8
175°	1387.4	1389.2	1389.3	1387.8	1386.1	1384.6	1383.0
177.5°	1391.0	1392.2	1392.2	1391.0	1389.8	1388.5	1387.3
180°	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1	1390.1

(END OF REPORT)