

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: P331777-940

Luminaire Tested: **S122RDIW-S290D1240U940-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331777-940  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122RDIW-S290D1240U940-4F0-1E-UDD-A  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1240 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

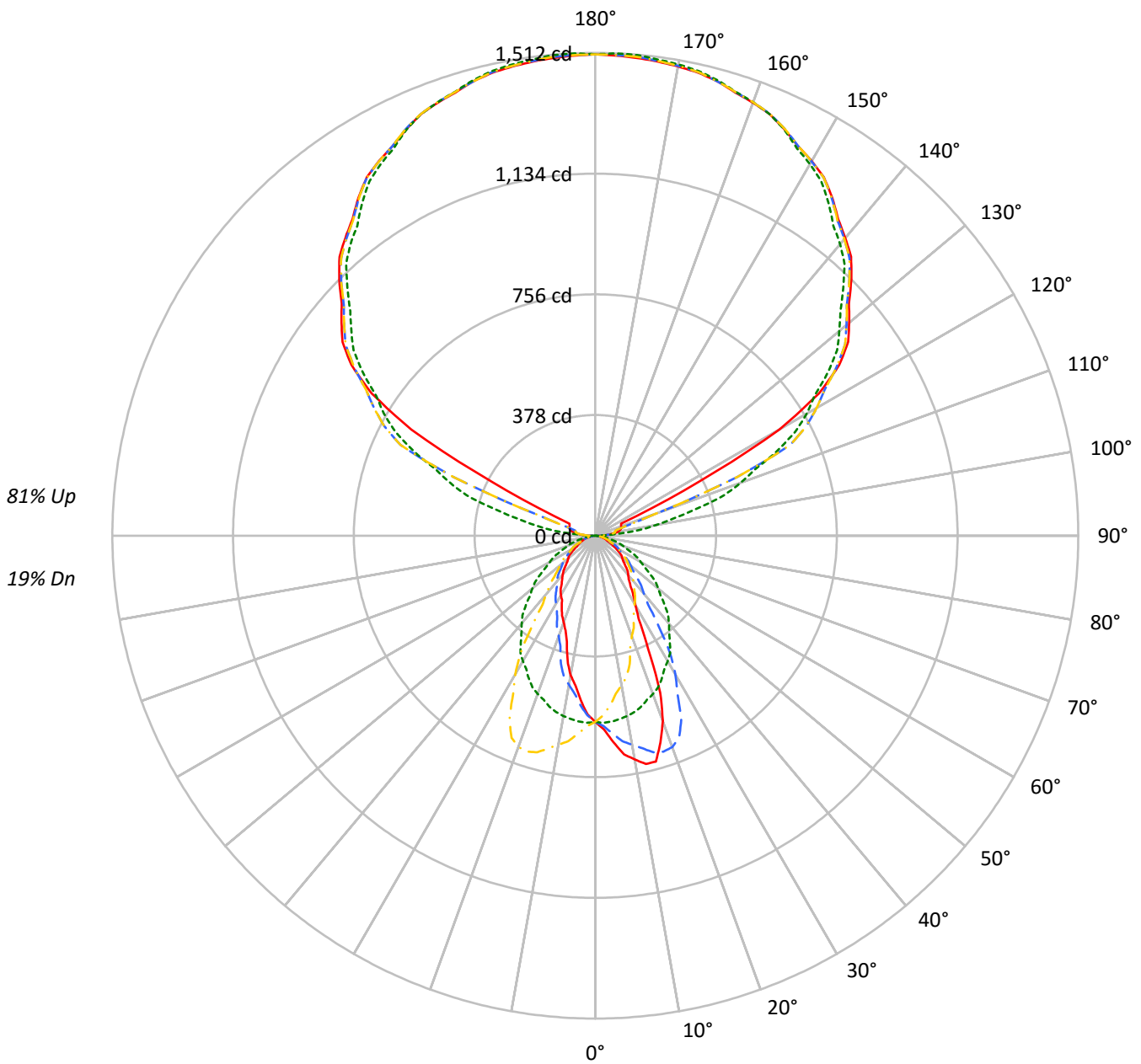
Lumens per Lamp: N/A  
Luminaire Lumens: 5428.9 lumens  
Efficiency: N/A  
Efficacy: 116.5 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Indirect  
  
Input Watts (W): 46.6  
Input Voltage (V): 120  
Input Current (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



— 0°-180°    - - 45°-225°    ··· 90°-270°    - · 135°-315°



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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	100	100	100	100	88	88	88	88	66	66	66	46	46	46	27	27	27	19
1	91	87	83	80	80	77	74	71	58	56	54	41	39	38	24	24	23	16
2	83	76	71	66	73	68	63	59	51	48	45	36	34	33	22	21	20	14
3	76	67	60	55	67	60	54	49	45	42	38	32	30	28	20	19	18	12
4	69	60	52	47	61	53	47	42	40	36	33	29	26	24	18	16	15	11
5	64	53	46	40	56	47	41	36	36	32	28	26	23	21	16	15	14	10
6	59	47	40	35	52	42	36	31	32	28	25	23	21	18	15	13	12	9
7	54	43	35	30	48	38	32	27	29	25	22	21	18	16	14	12	11	8
8	50	39	32	27	44	35	28	24	27	22	19	19	17	15	12	11	10	7
9	47	35	28	24	41	32	26	21	25	20	17	18	15	13	12	10	9	7
10	43	32	26	21	38	29	23	19	23	18	15	16	14	12	11	9	8	6

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

	0°	90°	180°	270°
0°	9411	9411	9411	9411
5°	10511	9470	8399	9470
10°	11663	9404	7279	9404
15°	12236	9267	5735	9267
20°	10608	9062	4962	9062
25°	6957	8783	4431	8783
30°	4683	8444	4010	8444
35°	3792	8016	3617	8016
40°	3372	7552	3347	7552
45°	3053	7005	2987	7005
50°	2778	6465	2768	6465
55°	2609	5866	2578	5866
60°	2186	5318	2160	5318
65°	1841	4829	2090	4829
70°	1699	4310	1969	4310
75°	1591	3755	1822	3755
80°	1469	3096	1618	3096
85°	1352	2445	1426	2445



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.3	1.0
10°-20°	154.0	2.8
20°-30°	198.4	3.7
30°-40°	188.6	3.5
40°-50°	161.5	3.0
50°-60°	123.0	2.3
60°-70°	77.8	1.4
70°-80°	38.8	0.7
80°-90°	13.8	0.3
90°-100°	50.3	0.9
100°-110°	184.4	3.4
110°-120°	492.9	9.1
120°-130°	813.7	15.0
130°-140°	865.3	15.9
140°-150°	804.3	14.8
150°-160°	646.7	11.9
160°-170°	416.7	7.7
170°-180°	143.4	2.6
0°-30°	407.7	7.5
0°-40°	596.2	11.0
0°-60°	880.8	16.2
0°-90°	1011.2	18.6
90°-120°	727.6	13.4
90°-150°	3210.9	59.1
90°-180°	4418.0	81.4
0°-180°	5428.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	583	583	583	583	583	
5°	648	584	518	584	648	64
15°	732	554	343	554	732	197
25°	390	493	249	493	390	185
35°	192	407	184	407	192	123
45°	134	307	131	307	134	103
55°	93	208	92	208	93	81
65°	48	126	55	126	48	49
75°	26	60	29	60	26	27
85°	7	13	8	13	7	9
90°	29	1	29	1	29	13
95°	47	71	47	71	47	44
105°	83	332	83	332	83	86
115°	89	627	89	627	89	224
125°	933	887	933	887	933	807
135°	1133	1097	1133	1097	1133	874
145°	1293	1273	1293	1273	1293	808
155°	1403	1402	1403	1402	1403	647
165°	1474	1477	1474	1477	1474	416
175°	1502	1511	1502	1511	1502	143
180°	1507	1507	1507	1507	1507	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9
2.5°	606.6	607.1	607.6	606.5	606.5	605.5	603.3	601.7	597.2	596.6	596.6
5°	648.5	648.2	649.0	646.3	642.7	641.9	638.0	632.9	627.7	621.9	620.6
7.5°	690.3	689.6	688.0	687.6	684.8	678.7	672.5	665.9	657.2	648.6	644.4
10°	711.4	718.1	714.0	706.9	708.3	698.8	693.8	685.0	677.7	664.9	662.2
12.5°	732.1	734.8	733.4	729.4	727.6	721.0	714.2	706.6	693.1	681.7	671.7
15°	732.0	735.8	736.9	735.7	736.6	736.3	732.6	726.4	714.6	702.0	691.1
17.5°	678.0	680.6	687.3	691.8	697.5	709.4	715.4	717.6	716.0	708.7	701.1
20°	617.4	613.0	631.6	641.1	649.2	669.4	686.9	693.6	704.3	704.1	702.0
22.5°	531.5	532.5	550.2	561.5	585.1	605.5	625.3	650.4	671.2	684.9	692.9
25°	390.5	398.2	415.8	431.2	457.5	495.3	529.5	569.2	606.6	636.2	664.4
27.5°	293.3	293.9	307.8	322.1	337.7	368.5	411.7	459.1	512.5	556.6	607.3
30°	251.2	249.9	255.8	264.6	277.9	301.8	334.2	380.8	434.1	500.5	559.6
32.5°	221.3	221.4	225.9	232.3	243.3	259.5	281.7	319.6	369.9	435.2	504.5
35°	192.4	192.3	195.5	200.1	204.7	215.1	230.3	250.1	284.8	345.7	416.6
37.5°	171.7	172.5	174.2	177.1	182.2	188.0	197.1	210.4	235.1	271.2	330.7
40°	160.0	160.4	162.6	165.1	168.1	172.5	180.0	190.8	208.8	237.6	281.2
42.5°	149.4	149.7	151.3	153.6	156.0	160.4	166.7	175.9	190.6	212.9	248.9
45°	133.7	133.7	135.1	136.1	138.8	142.8	147.8	155.6	165.7	182.3	206.2
47.5°	119.0	119.0	120.0	121.7	123.4	126.5	131.5	137.9	145.2	158.0	178.4
50°	110.6	110.8	111.4	112.8	113.9	116.6	120.6	126.0	133.7	143.7	160.6
52.5°	103.8	103.7	104.4	105.0	105.8	107.7	110.7	115.5	122.3	131.0	145.1
55°	92.7	91.9	93.2	94.2	94.8	95.6	97.2	100.2	106.1	113.4	123.9
57.5°	79.0	78.6	79.5	80.4	82.4	84.5	86.0	87.8	90.9	96.1	106.6
60°	67.7	67.7	69.5	70.1	72.3	75.2	78.0	79.6	82.7	86.1	93.8
62.5°	57.6	57.8	58.6	59.2	60.5	63.9	67.9	71.5	74.4	77.7	82.8
65°	48.2	48.6	48.6	49.0	49.8	50.6	52.3	55.1	60.2	64.8	68.7
67.5°	40.9	41.0	41.2	41.6	41.7	42.6	43.3	44.6	45.7	50.1	54.9
70°	36.0	36.6	36.5	36.8	37.1	37.5	38.3	38.9	40.8	41.7	44.6
72.5°	31.5	31.9	31.9	32.2	32.7	32.8	33.4	34.1	35.2	36.0	37.6
75°	25.5	25.3	25.5	25.9	26.1	26.3	26.3	27.1	27.7	28.5	29.6
77.5°	19.7	19.9	19.9	19.9	20.0	20.3	20.2	20.6	21.2	21.7	22.1
80°	15.8	16.0	15.8	16.0	16.2	16.4	16.2	16.4	17.0	17.4	17.4
82.5°	12.2	12.3	12.4	12.4	12.5	12.5	12.8	12.8	13.3	13.2	13.4
85°	7.3	7.1	7.1	7.1	7.3	7.5	7.3	7.3	7.5	7.5	7.5
87.5°	8.5	8.6	8.5	8.4	8.3	8.1	7.8	7.8	7.4	7.3	6.7
90°	29.4	29.0	28.4	28.0	27.6	26.7	25.4	24.3	23.0	21.8	19.9
92.5°	29.4	29.2	28.9	28.5	28.3	27.8	27.2	26.6	25.9	25.3	24.3
95°	46.9	47.2	47.3	47.6	47.9	47.3	46.2	44.9	43.8	42.5	40.8
97.5°	62.6	62.3	62.1	61.7	61.4	60.8	59.8	58.9	57.9	57.0	53.1
100°	73.1	72.6	72.1	71.6	71.2	69.9	67.9	66.1	64.1	62.2	58.1
102.5°	78.3	77.7	77.0	76.2	75.6	74.0	71.5	68.9	66.4	63.9	98.4
105°	82.9	81.9	81.0	80.0	79.0	77.2	74.5	71.9	69.2	66.5	132.7
107.5°	85.3	84.4	83.4	82.4	81.4	82.3	85.0	87.7	90.4	93.2	172.5
110°	86.1	85.2	84.3	83.3	82.3	93.9	118.2	142.4	166.7	190.9	260.9



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	87.0	86.2	85.5	84.7	83.9	127.8	216.2	304.6	393.1	481.4	498.8
115°	89.4	106.9	124.4	141.8	159.3	224.1	336.4	448.5	560.8	673.1	667.0
117.5°	365.2	422.6	479.9	537.3	594.6	636.9	664.0	691.2	718.3	745.5	741.3
120°	665.4	698.1	730.8	763.6	796.3	811.2	808.2	805.4	802.5	799.5	795.2
122.5°	830.3	836.7	843.0	849.4	855.7	858.0	856.3	854.5	852.7	851.0	846.3
125°	932.6	931.9	931.2	930.4	929.7	928.5	926.8	925.1	923.5	921.8	917.1
127.5°	997.2	997.0	996.9	996.8	996.7	995.3	992.8	990.3	987.9	985.4	982.0
130°	1037.3	1037.6	1037.9	1038.0	1038.3	1037.1	1034.5	1031.8	1029.1	1026.4	1023.8
132.5°	1076.7	1076.8	1077.1	1077.4	1077.5	1076.6	1074.2	1072.0	1069.7	1067.5	1064.8
135°	1133.4	1133.8	1134.3	1134.8	1135.2	1134.3	1131.8	1129.4	1127.0	1124.6	1122.4
137.5°	1185.0	1185.9	1186.7	1187.5	1188.3	1187.6	1185.2	1182.8	1180.4	1178.0	1175.5
140°	1217.4	1218.5	1219.8	1220.9	1222.2	1221.7	1219.5	1217.4	1215.1	1213.0	1210.3
142.5°	1248.8	1249.9	1251.2	1252.4	1253.6	1253.2	1251.2	1249.2	1247.2	1245.3	1242.2
145°	1292.6	1293.8	1295.0	1296.2	1297.4	1297.2	1295.5	1293.8	1292.1	1290.4	1286.3
147.5°	1331.2	1332.2	1333.2	1334.3	1335.2	1335.2	1333.9	1332.7	1331.4	1330.1	1326.1
150°	1354.8	1355.9	1357.2	1358.4	1359.6	1359.5	1358.1	1356.6	1355.1	1353.7	1349.8
152.5°	1374.8	1376.4	1378.0	1379.7	1381.3	1381.3	1379.8	1378.4	1377.0	1375.5	1371.8
155°	1402.8	1404.7	1406.7	1408.5	1410.5	1410.8	1409.3	1407.8	1406.4	1405.0	1402.0
157.5°	1428.3	1430.2	1432.1	1434.0	1435.8	1436.0	1434.3	1432.7	1431.0	1429.4	1427.4
160°	1443.1	1444.8	1446.5	1448.2	1449.9	1450.0	1448.6	1447.2	1445.6	1444.2	1442.8
162.5°	1455.4	1457.4	1459.5	1461.6	1463.7	1463.9	1462.2	1460.6	1458.9	1457.3	1456.1
165°	1473.6	1475.3	1477.0	1478.7	1480.4	1480.4	1478.7	1477.0	1475.3	1473.6	1472.9
167.5°	1485.2	1487.4	1489.6	1491.7	1494.0	1494.2	1492.5	1490.8	1489.1	1487.4	1486.7
170°	1492.2	1494.4	1496.6	1498.8	1500.9	1501.2	1499.5	1497.8	1496.1	1494.4	1493.9
172.5°	1497.4	1499.6	1501.8	1504.0	1506.2	1506.4	1504.7	1503.0	1501.3	1499.6	1499.1
175°	1502.0	1504.4	1506.9	1509.3	1511.7	1512.1	1510.4	1508.7	1507.0	1505.3	1504.9
177.5°	1504.9	1506.6	1508.3	1510.1	1511.8	1512.1	1510.6	1509.3	1508.0	1506.6	1506.4
180°	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9
2.5°	596.9	595.6	594.4	591.6	590.0	586.8	586.4	586.2	582.0	577.9	576.8
5°	617.4	614.1	609.3	603.6	597.7	591.7	587.6	584.3	576.2	568.6	564.1
7.5°	638.0	631.1	622.7	612.0	603.0	593.0	585.5	578.8	567.3	556.2	548.8
10°	653.4	642.1	631.0	616.2	604.6	593.3	582.7	573.6	560.7	546.1	535.7
12.5°	663.0	650.5	635.2	620.7	605.7	591.3	577.2	565.5	550.3	535.2	523.0
15°	675.9	662.5	643.9	623.2	604.0	585.1	569.0	554.4	534.6	516.5	501.5
17.5°	686.5	668.1	648.1	624.2	601.9	578.0	557.1	538.5	516.4	494.6	477.0
20°	689.9	671.6	648.5	624.6	598.3	570.2	547.7	527.4	503.7	480.0	459.8
22.5°	687.8	673.6	647.9	619.3	592.4	562.9	537.5	514.0	487.7	463.5	440.1
25°	673.5	668.6	644.4	613.1	582.4	548.1	518.7	493.0	463.1	437.1	411.6
27.5°	640.2	650.7	635.6	602.4	568.1	531.5	498.4	469.1	438.0	408.8	383.4
30°	608.1	632.1	625.7	594.9	556.6	520.6	483.5	452.9	419.7	389.7	364.6
32.5°	564.2	604.0	610.3	584.5	544.9	505.3	466.5	436.0	401.4	369.8	345.3
35°	494.2	553.8	581.1	564.7	525.0	482.2	442.2	406.7	371.8	340.7	316.4
37.5°	410.8	492.0	537.5	538.7	502.2	457.8	414.1	378.9	343.2	312.6	286.3
40°	356.7	444.6	504.0	517.1	486.3	438.4	394.1	358.3	323.5	293.5	263.3
42.5°	308.1	395.7	468.6	491.5	467.1	419.4	375.1	337.6	303.7	275.4	244.5
45°	249.1	325.7	406.1	447.0	433.5	389.3	342.5	306.8	275.1	250.6	221.0
47.5°	210.2	264.1	342.0	397.3	397.1	356.8	310.7	276.6	247.1	224.1	200.2
50°	188.0	235.0	300.8	363.6	368.8	335.0	291.2	257.4	229.9	205.8	186.5
52.5°	168.0	206.8	265.9	326.2	341.2	311.8	269.4	238.2	211.4	189.2	172.8
55°	142.0	172.0	217.0	273.2	296.0	275.3	237.6	208.4	186.7	168.1	153.9
57.5°	120.1	142.6	178.7	224.0	250.4	237.5	206.3	182.6	164.1	147.2	136.1
60°	106.4	124.8	155.3	193.2	222.4	213.3	186.7	164.7	148.9	134.3	123.8
62.5°	93.4	109.2	135.5	166.2	192.9	189.1	167.5	148.9	135.1	121.8	112.9
65°	75.2	86.7	107.2	131.3	152.8	154.5	138.9	126.4	114.0	103.5	95.6
67.5°	59.8	67.4	81.8	102.1	118.2	123.9	114.4	104.8	95.0	86.9	80.0
70°	50.5	56.5	67.1	83.5	98.3	104.3	98.8	91.3	82.8	76.2	70.3
72.5°	40.8	46.8	54.6	66.6	79.3	85.9	83.9	78.6	71.7	66.1	60.5
75°	30.8	32.6	37.9	46.0	55.9	61.6	63.0	60.2	54.7	50.5	47.2
77.5°	22.7	23.9	26.4	30.6	37.1	42.2	44.2	43.9	40.1	37.7	34.6
80°	18.2	18.8	20.1	21.8	26.8	31.8	33.3	33.3	30.6	29.6	26.6
82.5°	13.8	14.3	15.1	16.1	18.3	22.7	24.3	24.6	23.0	21.7	19.3
85°	7.9	7.7	8.1	8.7	9.1	10.3	12.8	13.2	12.8	11.1	10.5
87.5°	6.3	6.2	5.7	5.1	4.7	4.4	4.6	4.9	4.8	4.8	5.1
90°	17.9	16.0	14.1	11.8	9.1	6.4	3.7	1.1	3.7	6.4	9.1
92.5°	23.4	22.4	21.4	21.0	21.3	21.6	21.8	22.0	21.8	21.6	21.3
95°	39.1	37.5	35.8	38.9	46.9	54.9	62.9	70.9	62.9	54.9	46.9
97.5°	49.0	45.1	41.2	50.6	73.1	95.6	118.2	140.7	118.2	95.6	73.1
100°	53.9	49.8	45.7	60.3	93.5	126.6	159.9	193.1	159.9	126.6	93.5
102.5°	132.9	167.3	201.8	222.6	229.6	236.6	243.6	250.7	243.6	236.6	229.6
105°	198.9	265.1	331.3	360.7	353.4	346.2	338.9	331.6	338.9	346.2	353.4
107.5°	251.9	331.3	410.6	447.4	441.5	435.6	429.7	423.9	429.7	435.6	441.5
110°	331.0	401.1	471.1	503.5	498.5	493.4	488.3	483.2	488.3	493.4	498.5





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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	516.1	533.4	550.7	557.1	552.6	548.0	543.6	539.0	543.6	548.0	552.6
115°	660.9	654.9	648.8	643.7	639.5	635.4	631.3	627.2	631.3	635.4	639.5
117.5°	737.1	732.9	728.8	724.4	719.8	715.2	710.6	706.0	710.6	715.2	719.8
120°	790.9	786.5	782.1	778.1	774.5	770.8	767.2	763.6	767.2	770.8	774.5
122.5°	841.5	836.8	832.1	827.8	823.9	820.1	816.3	812.4	816.3	820.1	823.9
125°	912.5	907.9	903.3	899.4	896.3	893.1	889.9	886.8	889.9	893.1	896.3
127.5°	978.6	975.1	971.7	968.2	964.7	961.2	957.7	954.2	957.7	961.2	964.7
130°	1021.1	1018.4	1015.7	1012.5	1008.6	1004.8	1000.9	997.0	1000.9	1004.8	1008.6
132.5°	1062.1	1059.4	1056.8	1053.8	1050.5	1047.2	1043.9	1040.6	1043.9	1047.2	1050.5
135°	1120.3	1118.0	1115.9	1112.9	1108.9	1105.1	1101.2	1097.3	1101.2	1105.1	1108.9
137.5°	1173.1	1170.6	1168.1	1165.6	1162.9	1160.1	1157.4	1154.7	1157.4	1160.1	1162.9
140°	1207.6	1205.0	1202.3	1200.0	1198.0	1196.1	1194.2	1192.2	1194.2	1196.1	1198.0
142.5°	1239.1	1236.1	1233.1	1230.7	1228.9	1227.2	1225.4	1223.7	1225.4	1227.2	1228.9
145°	1282.2	1278.1	1273.9	1272.0	1272.2	1272.5	1272.7	1272.9	1272.7	1272.5	1272.2
147.5°	1322.0	1317.9	1313.8	1312.2	1313.1	1314.1	1315.0	1315.9	1315.0	1314.1	1313.1
150°	1345.9	1342.0	1338.2	1337.0	1338.7	1340.5	1342.2	1343.9	1342.2	1340.5	1338.7
152.5°	1368.2	1364.4	1360.8	1359.9	1361.7	1363.6	1365.6	1367.4	1365.6	1363.6	1361.7
155°	1399.1	1396.2	1393.3	1392.9	1395.1	1397.3	1399.5	1401.7	1399.5	1397.3	1395.1
157.5°	1425.3	1423.3	1421.2	1421.1	1423.0	1424.8	1426.6	1428.5	1426.6	1424.8	1423.0
160°	1441.3	1439.8	1438.4	1438.4	1439.8	1441.3	1442.8	1444.2	1442.8	1441.3	1439.8
162.5°	1454.7	1453.5	1452.2	1452.3	1453.8	1455.3	1456.7	1458.2	1456.7	1455.3	1453.8
165°	1472.2	1471.5	1470.8	1471.1	1472.6	1474.0	1475.5	1476.9	1475.5	1474.0	1472.6
167.5°	1486.0	1485.4	1484.7	1485.1	1486.6	1488.0	1489.4	1490.9	1489.4	1488.0	1486.6
170°	1493.4	1492.9	1492.5	1492.9	1494.4	1495.8	1497.3	1498.8	1497.3	1495.8	1494.4
172.5°	1498.6	1498.2	1497.7	1498.2	1499.6	1501.1	1502.5	1504.0	1502.5	1501.1	1499.6
175°	1504.3	1503.9	1503.3	1504.0	1505.7	1507.3	1509.0	1510.7	1509.0	1507.3	1505.7
177.5°	1506.2	1506.0	1505.8	1506.4	1507.8	1509.1	1510.5	1511.8	1510.5	1509.1	1507.8
180°	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9
2.5°	574.7	573.5	571.4	568.2	566.2	562.8	560.6	561.9	562.2	561.9	561.6
5°	559.3	555.0	549.1	543.4	538.1	532.5	529.2	527.9	525.0	523.4	522.5
7.5°	540.6	533.2	525.0	515.1	506.7	497.8	493.4	491.2	485.4	482.2	479.5
10°	526.6	515.1	506.8	493.8	485.9	474.4	466.5	466.7	458.8	454.3	451.1
12.5°	511.2	498.6	484.7	473.1	462.1	452.8	443.3	439.4	431.1	426.8	418.0
15°	485.7	470.9	456.4	440.6	429.4	415.0	401.3	384.4	370.9	359.1	355.9
17.5°	457.9	439.5	424.9	406.4	387.3	363.1	347.1	337.3	329.2	323.0	318.3
20°	438.7	420.1	404.5	376.6	350.8	334.4	322.7	315.1	306.7	300.0	296.3
22.5°	418.7	399.2	377.9	346.7	326.6	313.5	303.1	294.4	288.6	283.5	280.1
25°	390.1	368.8	333.8	312.4	296.1	282.3	275.1	269.8	263.8	256.6	253.4
27.5°	360.0	326.2	301.0	285.0	269.6	260.6	254.0	246.2	240.8	237.6	234.2
30°	337.4	303.6	284.0	266.5	255.7	245.7	238.0	233.5	228.3	222.8	220.6
32.5°	312.4	285.3	266.4	252.0	240.9	232.4	226.3	219.1	215.3	212.0	207.3
35°	281.2	260.6	243.4	231.8	221.1	214.3	207.2	203.0	196.1	193.2	191.5
37.5°	254.8	237.0	224.2	211.8	203.4	195.8	191.5	184.7	181.7	177.7	173.9
40°	239.8	222.4	210.1	199.9	190.6	184.9	179.5	174.0	169.5	167.7	163.1
42.5°	224.6	210.4	198.0	187.0	180.7	174.7	167.8	163.8	159.2	156.2	153.4
45°	203.6	191.0	180.5	171.4	164.4	158.2	153.7	147.0	144.5	138.6	136.1
47.5°	185.1	173.4	163.4	154.7	148.0	143.9	137.4	132.2	128.0	124.3	121.2
50°	172.0	162.2	152.5	144.8	138.8	132.9	126.2	123.6	117.1	115.2	113.4
52.5°	160.0	150.7	141.9	134.3	128.2	122.5	116.6	113.2	108.8	107.0	105.7
55°	143.2	134.3	125.8	119.1	113.1	107.2	103.5	99.2	97.2	95.8	94.2
57.5°	126.4	118.3	111.8	105.0	98.9	94.3	90.1	87.5	85.4	83.6	81.6
60°	115.7	108.0	102.1	95.8	89.5	85.7	82.5	79.4	77.0	74.1	73.3
62.5°	104.3	97.6	92.2	86.1	80.6	77.1	74.0	71.2	68.2	64.1	63.0
65°	88.7	83.5	77.8	72.7	67.9	64.4	59.9	56.7	55.5	55.1	54.9
67.5°	74.6	69.6	64.7	59.6	55.2	52.0	49.7	49.2	48.3	48.2	47.5
70°	65.2	60.5	55.7	50.8	46.5	46.0	45.2	44.3	43.3	43.0	42.5
72.5°	56.8	52.0	47.1	43.2	41.4	40.7	39.9	39.0	38.3	37.9	37.7
75°	43.5	39.1	35.8	34.4	33.4	32.8	31.6	31.0	30.6	30.0	29.8
77.5°	31.4	28.8	27.4	26.5	25.4	24.8	24.1	23.5	23.0	22.9	22.6
80°	23.9	22.6	21.7	20.4	20.1	19.3	19.1	18.5	18.6	18.0	18.0
82.5°	18.5	17.0	16.1	15.6	15.2	14.5	14.4	14.1	14.1	13.6	13.6
85°	9.5	9.1	8.7	8.3	8.3	7.7	7.9	7.7	7.7	7.3	7.1
87.5°	5.4	5.7	5.8	6.2	6.6	6.8	7.0	7.1	7.4	7.6	7.6
90°	11.8	14.1	16.0	17.9	19.9	21.8	23.0	24.3	25.4	26.7	27.6
92.5°	21.0	21.4	22.4	23.4	24.3	25.3	25.9	26.6	27.2	27.8	28.3
95°	38.9	35.8	37.5	39.1	40.8	42.5	43.8	44.9	46.2	47.3	47.9
97.5°	50.6	41.2	45.1	49.0	53.1	57.0	57.9	58.9	59.8	60.8	61.4
100°	60.3	45.7	49.8	53.9	58.1	62.2	64.1	66.1	67.9	69.9	71.2
102.5°	222.6	201.8	167.3	132.9	98.4	63.9	66.4	68.9	71.5	74.0	75.6
105°	360.7	331.3	265.1	198.9	132.7	66.5	69.2	71.9	74.5	77.2	79.0
107.5°	447.4	410.6	331.3	251.9	172.5	93.2	90.4	87.7	85.0	82.3	81.4
110°	503.5	471.1	401.1	331.0	260.9	190.9	166.7	142.4	118.2	93.9	82.3



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	557.1	550.7	533.4	516.1	498.8	481.4	393.1	304.6	216.2	127.8	83.9
115°	643.7	648.8	654.9	660.9	667.0	673.1	560.8	448.5	336.4	224.1	159.3
117.5°	724.4	728.8	732.9	737.1	741.3	745.5	718.3	691.2	664.0	636.9	594.6
120°	778.1	782.1	786.5	790.9	795.2	799.5	802.5	805.4	808.2	811.2	796.3
122.5°	827.8	832.1	836.8	841.5	846.3	851.0	852.7	854.5	856.3	858.0	855.7
125°	899.4	903.3	907.9	912.5	917.1	921.8	923.5	925.1	926.8	928.5	929.7
127.5°	968.2	971.7	975.1	978.6	982.0	985.4	987.9	990.3	992.8	995.3	996.7
130°	1012.5	1015.7	1018.4	1021.1	1023.8	1026.4	1029.1	1031.8	1034.5	1037.1	1038.3
132.5°	1053.8	1056.8	1059.4	1062.1	1064.8	1067.5	1069.7	1072.0	1074.2	1076.6	1077.5
135°	1112.9	1115.9	1118.0	1120.3	1122.4	1124.6	1127.0	1129.4	1131.8	1134.3	1135.2
137.5°	1165.6	1168.1	1170.6	1173.1	1175.5	1178.0	1180.4	1182.8	1185.2	1187.6	1188.3
140°	1200.0	1202.3	1205.0	1207.6	1210.3	1213.0	1215.1	1217.4	1219.5	1221.7	1222.2
142.5°	1230.7	1233.1	1236.1	1239.1	1242.2	1245.3	1247.2	1249.2	1251.2	1253.2	1253.6
145°	1272.0	1273.9	1278.1	1282.2	1286.3	1290.4	1292.1	1293.8	1295.5	1297.2	1297.4
147.5°	1312.2	1313.8	1317.9	1322.0	1326.1	1330.1	1331.4	1332.7	1333.9	1335.2	1335.2
150°	1337.0	1338.2	1342.0	1345.9	1349.8	1353.7	1355.1	1356.6	1358.1	1359.5	1359.6
152.5°	1359.9	1360.8	1364.4	1368.2	1371.8	1375.5	1377.0	1378.4	1379.8	1381.3	1381.3
155°	1392.9	1393.3	1396.2	1399.1	1402.0	1405.0	1406.4	1407.8	1409.3	1410.8	1410.5
157.5°	1421.1	1421.2	1423.3	1425.3	1427.4	1429.4	1431.0	1432.7	1434.3	1436.0	1435.8
160°	1438.4	1438.4	1439.8	1441.3	1442.8	1444.2	1445.6	1447.2	1448.6	1450.0	1449.9
162.5°	1452.3	1452.2	1453.5	1454.7	1456.1	1457.3	1458.9	1460.6	1462.2	1463.9	1463.7
165°	1471.1	1470.8	1471.5	1472.2	1472.9	1473.6	1475.3	1477.0	1478.7	1480.4	1480.4
167.5°	1485.1	1484.7	1485.4	1486.0	1486.7	1487.4	1489.1	1490.8	1492.5	1494.2	1494.0
170°	1492.9	1492.5	1492.9	1493.4	1493.9	1494.4	1496.1	1497.8	1499.5	1501.2	1500.9
172.5°	1498.2	1497.7	1498.2	1498.6	1499.1	1499.6	1501.3	1503.0	1504.7	1506.4	1506.2
175°	1504.0	1503.3	1503.9	1504.3	1504.9	1505.3	1507.0	1508.7	1510.4	1512.1	1511.7
177.5°	1506.4	1505.8	1506.0	1506.2	1506.4	1506.6	1508.0	1509.3	1510.6	1512.1	1511.8
180°	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9
2.5°	559.8	560.1	559.6	559.9	559.6	560.1	559.8	561.6	561.9	562.2	561.9
5°	521.6	519.2	518.7	518.2	518.7	519.2	521.6	522.5	523.4	525.0	527.9
7.5°	476.0	475.6	474.6	473.1	474.6	475.6	476.0	479.5	482.2	485.4	491.2
10°	446.7	445.6	445.4	444.0	445.4	445.6	446.7	451.1	454.3	458.8	466.7
12.5°	412.2	405.7	405.1	401.5	405.1	405.7	412.2	418.0	426.8	431.1	439.4
15°	351.1	349.8	345.7	343.1	345.7	349.8	351.1	355.9	359.1	370.9	384.4
17.5°	316.0	312.0	310.8	310.2	310.8	312.0	316.0	318.3	323.0	329.2	337.3
20°	293.5	289.9	289.3	288.8	289.3	289.9	293.5	296.3	300.0	306.7	315.1
22.5°	277.9	274.1	272.6	271.3	272.6	274.1	277.9	280.1	283.5	288.6	294.4
25°	251.4	249.9	249.1	248.7	249.1	249.9	251.4	253.4	256.6	263.8	269.8
27.5°	230.6	227.5	226.9	225.8	226.9	227.5	230.6	234.2	237.6	240.8	246.2
30°	218.7	217.8	216.3	215.1	216.3	217.8	218.7	220.6	222.8	228.3	233.5
32.5°	204.8	203.9	202.7	202.2	202.7	203.9	204.8	207.3	212.0	215.3	219.1
35°	189.4	186.5	185.3	183.5	185.3	186.5	189.4	191.5	193.2	196.1	203.0
37.5°	173.1	171.6	169.9	170.5	169.9	171.6	173.1	173.9	177.7	181.7	184.7
40°	160.4	159.4	159.0	158.8	159.0	159.4	160.4	163.1	167.7	169.5	174.0
42.5°	150.3	147.6	146.5	146.5	146.5	147.6	150.3	153.4	156.2	159.2	163.8
45°	135.1	132.5	130.6	130.8	130.6	132.5	135.1	136.1	138.6	144.5	147.0
47.5°	119.5	119.4	118.2	118.6	118.2	119.4	119.5	121.2	124.3	128.0	132.2
50°	112.0	110.8	109.9	110.2	109.9	110.8	112.0	113.4	115.2	117.1	123.6
52.5°	104.9	103.8	103.2	104.1	103.2	103.8	104.9	105.7	107.0	108.8	113.2
55°	93.2	91.9	91.8	91.6	91.8	91.9	93.2	94.2	95.8	97.2	99.2
57.5°	80.1	79.3	78.0	77.6	78.0	79.3	80.1	81.6	83.6	85.4	87.5
60°	70.7	69.1	67.1	66.9	67.1	69.1	70.7	73.3	74.1	77.0	79.4
62.5°	62.1	61.8	61.3	61.3	61.3	61.8	62.1	63.0	64.1	68.2	71.2
65°	54.5	54.3	54.5	54.7	54.5	54.3	54.5	54.9	55.1	55.5	56.7
67.5°	47.4	47.1	46.7	46.9	46.7	47.1	47.4	47.5	48.2	48.3	49.2
70°	42.1	41.9	41.7	41.7	41.7	41.9	42.1	42.5	43.0	43.3	44.3
72.5°	36.9	36.9	36.7	36.6	36.7	36.9	36.9	37.7	37.9	38.3	39.0
75°	29.6	29.2	29.2	29.2	29.2	29.2	29.6	29.8	30.0	30.6	31.0
77.5°	22.6	22.3	22.1	21.9	22.1	22.3	22.6	22.6	22.9	23.0	23.5
80°	17.8	17.7	17.4	17.4	17.4	17.7	17.8	18.0	18.0	18.6	18.5
82.5°	13.6	13.4	13.4	13.2	13.4	13.4	13.6	13.6	13.6	14.1	14.1
85°	7.3	7.5	7.3	7.7	7.3	7.5	7.3	7.1	7.3	7.7	7.7
87.5°	7.7	7.7	7.9	7.8	7.9	7.7	7.7	7.6	7.6	7.4	7.1
90°	28.0	28.4	29.0	29.4	29.0	28.4	28.0	27.6	26.7	25.4	24.3
92.5°	28.5	28.9	29.2	29.4	29.2	28.9	28.5	28.3	27.8	27.2	26.6
95°	47.6	47.3	47.2	46.9	47.2	47.3	47.6	47.9	47.3	46.2	44.9
97.5°	61.7	62.1	62.3	62.6	62.3	62.1	61.7	61.4	60.8	59.8	58.9
100°	71.6	72.1	72.6	73.1	72.6	72.1	71.6	71.2	69.9	67.9	66.1
102.5°	76.2	77.0	77.7	78.3	77.7	77.0	76.2	75.6	74.0	71.5	68.9
105°	80.0	81.0	81.9	82.9	81.9	81.0	80.0	79.0	77.2	74.5	71.9
107.5°	82.4	83.4	84.4	85.3	84.4	83.4	82.4	81.4	82.3	85.0	87.7
110°	83.3	84.3	85.2	86.1	85.2	84.3	83.3	82.3	93.9	118.2	142.4



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	84.7	85.5	86.2	87.0	86.2	85.5	84.7	83.9	127.8	216.2	304.6
115°	141.8	124.4	106.9	89.4	106.9	124.4	141.8	159.3	224.1	336.4	448.5
117.5°	537.3	479.9	422.6	365.2	422.6	479.9	537.3	594.6	636.9	664.0	691.2
120°	763.6	730.8	698.1	665.4	698.1	730.8	763.6	796.3	811.2	808.2	805.4
122.5°	849.4	843.0	836.7	830.3	836.7	843.0	849.4	855.7	858.0	856.3	854.5
125°	930.4	931.2	931.9	932.6	931.9	931.2	930.4	929.7	928.5	926.8	925.1
127.5°	996.8	996.9	997.0	997.2	997.0	996.9	996.8	996.7	995.3	992.8	990.3
130°	1038.0	1037.9	1037.6	1037.3	1037.6	1037.9	1038.0	1038.3	1037.1	1034.5	1031.8
132.5°	1077.4	1077.1	1076.8	1076.7	1076.8	1077.1	1077.4	1077.5	1076.6	1074.2	1072.0
135°	1134.8	1134.3	1133.8	1133.4	1133.8	1134.3	1134.8	1135.2	1134.3	1131.8	1129.4
137.5°	1187.5	1186.7	1185.9	1185.0	1185.9	1186.7	1187.5	1188.3	1187.6	1185.2	1182.8
140°	1220.9	1219.8	1218.5	1217.4	1218.5	1219.8	1220.9	1222.2	1221.7	1219.5	1217.4
142.5°	1252.4	1251.2	1249.9	1248.8	1249.9	1251.2	1252.4	1253.6	1253.2	1251.2	1249.2
145°	1296.2	1295.0	1293.8	1292.6	1293.8	1295.0	1296.2	1297.4	1297.2	1295.5	1293.8
147.5°	1334.3	1333.2	1332.2	1331.2	1332.2	1333.2	1334.3	1335.2	1335.2	1333.9	1332.7
150°	1358.4	1357.2	1355.9	1354.8	1355.9	1357.2	1358.4	1359.6	1359.5	1358.1	1356.6
152.5°	1379.7	1378.0	1376.4	1374.8	1376.4	1378.0	1379.7	1381.3	1381.3	1379.8	1378.4
155°	1408.5	1406.7	1404.7	1402.8	1404.7	1406.7	1408.5	1410.5	1410.8	1409.3	1407.8
157.5°	1434.0	1432.1	1430.2	1428.3	1430.2	1432.1	1434.0	1435.8	1436.0	1434.3	1432.7
160°	1448.2	1446.5	1444.8	1443.1	1444.8	1446.5	1448.2	1449.9	1450.0	1448.6	1447.2
162.5°	1461.6	1459.5	1457.4	1455.4	1457.4	1459.5	1461.6	1463.7	1463.9	1462.2	1460.6
165°	1478.7	1477.0	1475.3	1473.6	1475.3	1477.0	1478.7	1480.4	1480.4	1478.7	1477.0
167.5°	1491.7	1489.6	1487.4	1485.2	1487.4	1489.6	1491.7	1494.0	1494.2	1492.5	1490.8
170°	1498.8	1496.6	1494.4	1492.2	1494.4	1496.6	1498.8	1500.9	1501.2	1499.5	1497.8
172.5°	1504.0	1501.8	1499.6	1497.4	1499.6	1501.8	1504.0	1506.2	1506.4	1504.7	1503.0
175°	1509.3	1506.9	1504.4	1502.0	1504.4	1506.9	1509.3	1511.7	1512.1	1510.4	1508.7
177.5°	1510.1	1508.3	1506.6	1504.9	1506.6	1508.3	1510.1	1511.8	1512.1	1510.6	1509.3
180°	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9
2.5°	560.6	562.8	566.2	568.2	571.4	573.5	574.7	576.8	577.9	582.0	586.2
5°	529.2	532.5	538.1	543.4	549.1	555.0	559.3	564.1	568.6	576.2	584.3
7.5°	493.4	497.8	506.7	515.1	525.0	533.2	540.6	548.8	556.2	567.3	578.8
10°	466.5	474.4	485.9	493.8	506.8	515.1	526.6	535.7	546.1	560.7	573.6
12.5°	443.3	452.8	462.1	473.1	484.7	498.6	511.2	523.0	535.2	550.3	565.5
15°	401.3	415.0	429.4	440.6	456.4	470.9	485.7	501.5	516.5	534.6	554.4
17.5°	347.1	363.1	387.3	406.4	424.9	439.5	457.9	477.0	494.6	516.4	538.5
20°	322.7	334.4	350.8	376.6	404.5	420.1	438.7	459.8	480.0	503.7	527.4
22.5°	303.1	313.5	326.6	346.7	377.9	399.2	418.7	440.1	463.5	487.7	514.0
25°	275.1	282.3	296.1	312.4	333.8	368.8	390.1	411.6	437.1	463.1	493.0
27.5°	254.0	260.6	269.6	285.0	301.0	326.2	360.0	383.4	408.8	438.0	469.1
30°	238.0	245.7	255.7	266.5	284.0	303.6	337.4	364.6	389.7	419.7	452.9
32.5°	226.3	232.4	240.9	252.0	266.4	285.3	312.4	345.3	369.8	401.4	436.0
35°	207.2	214.3	221.1	231.8	243.4	260.6	281.2	316.4	340.7	371.8	406.7
37.5°	191.5	195.8	203.4	211.8	224.2	237.0	254.8	286.3	312.6	343.2	378.9
40°	179.5	184.9	190.6	199.9	210.1	222.4	239.8	263.3	293.5	323.5	358.3
42.5°	167.8	174.7	180.7	187.0	198.0	210.4	224.6	244.5	275.4	303.7	337.6
45°	153.7	158.2	164.4	171.4	180.5	191.0	203.6	221.0	250.6	275.1	306.8
47.5°	137.4	143.9	148.0	154.7	163.4	173.4	185.1	200.2	224.1	247.1	276.6
50°	126.2	132.9	138.8	144.8	152.5	162.2	172.0	186.5	205.8	229.9	257.4
52.5°	116.6	122.5	128.2	134.3	141.9	150.7	160.0	172.8	189.2	211.4	238.2
55°	103.5	107.2	113.1	119.1	125.8	134.3	143.2	153.9	168.1	186.7	208.4
57.5°	90.1	94.3	98.9	105.0	111.8	118.3	126.4	136.1	147.2	164.1	182.6
60°	82.5	85.7	89.5	95.8	102.1	108.0	115.7	123.8	134.3	148.9	164.7
62.5°	74.0	77.1	80.6	86.1	92.2	97.6	104.3	112.9	121.8	135.1	148.9
65°	59.9	64.4	67.9	72.7	77.8	83.5	88.7	95.6	103.5	114.0	126.4
67.5°	49.7	52.0	55.2	59.6	64.7	69.6	74.6	80.0	86.9	95.0	104.8
70°	45.2	46.0	46.5	50.8	55.7	60.5	65.2	70.3	76.2	82.8	91.3
72.5°	39.9	40.7	41.4	43.2	47.1	52.0	56.8	60.5	66.1	71.7	78.6
75°	31.6	32.8	33.4	34.4	35.8	39.1	43.5	47.2	50.5	54.7	60.2
77.5°	24.1	24.8	25.4	26.5	27.4	28.8	31.4	34.6	37.7	40.1	43.9
80°	19.1	19.3	20.1	20.4	21.7	22.6	23.9	26.6	29.6	30.6	33.3
82.5°	14.4	14.5	15.2	15.6	16.1	17.0	18.5	19.3	21.7	23.0	24.6
85°	7.9	7.7	8.3	8.3	8.7	9.1	9.5	10.5	11.1	12.8	13.2
87.5°	7.0	6.8	6.6	6.2	5.8	5.7	5.4	5.1	4.8	4.8	4.9
90°	23.0	21.8	19.9	17.9	16.0	14.1	11.8	9.1	6.4	3.7	1.1
92.5°	25.9	25.3	24.3	23.4	22.4	21.4	21.0	21.3	21.6	21.8	22.0
95°	43.8	42.5	40.8	39.1	37.5	35.8	38.9	46.9	54.9	62.9	70.9
97.5°	57.9	57.0	53.1	49.0	45.1	41.2	50.6	73.1	95.6	118.2	140.7
100°	64.1	62.2	58.1	53.9	49.8	45.7	60.3	93.5	126.6	159.9	193.1
102.5°	66.4	63.9	98.4	132.9	167.3	201.8	222.6	229.6	236.6	243.6	250.7
105°	69.2	66.5	132.7	198.9	265.1	331.3	360.7	353.4	346.2	338.9	331.6
107.5°	90.4	93.2	172.5	251.9	331.3	410.6	447.4	441.5	435.6	429.7	423.9
110°	166.7	190.9	260.9	331.0	401.1	471.1	503.5	498.5	493.4	488.3	483.2



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	393.1	481.4	498.8	516.1	533.4	550.7	557.1	552.6	548.0	543.6	539.0
115°	560.8	673.1	667.0	660.9	654.9	648.8	643.7	639.5	635.4	631.3	627.2
117.5°	718.3	745.5	741.3	737.1	732.9	728.8	724.4	719.8	715.2	710.6	706.0
120°	802.5	799.5	795.2	790.9	786.5	782.1	778.1	774.5	770.8	767.2	763.6
122.5°	852.7	851.0	846.3	841.5	836.8	832.1	827.8	823.9	820.1	816.3	812.4
125°	923.5	921.8	917.1	912.5	907.9	903.3	899.4	896.3	893.1	889.9	886.8
127.5°	987.9	985.4	982.0	978.6	975.1	971.7	968.2	964.7	961.2	957.7	954.2
130°	1029.1	1026.4	1023.8	1021.1	1018.4	1015.7	1012.5	1008.6	1004.8	1000.9	997.0
132.5°	1069.7	1067.5	1064.8	1062.1	1059.4	1056.8	1053.8	1050.5	1047.2	1043.9	1040.6
135°	1127.0	1124.6	1122.4	1120.3	1118.0	1115.9	1112.9	1108.9	1105.1	1101.2	1097.3
137.5°	1180.4	1178.0	1175.5	1173.1	1170.6	1168.1	1165.6	1162.9	1160.1	1157.4	1154.7
140°	1215.1	1213.0	1210.3	1207.6	1205.0	1202.3	1200.0	1198.0	1196.1	1194.2	1192.2
142.5°	1247.2	1245.3	1242.2	1239.1	1236.1	1233.1	1230.7	1228.9	1227.2	1225.4	1223.7
145°	1292.1	1290.4	1286.3	1282.2	1278.1	1273.9	1272.0	1272.2	1272.5	1272.7	1272.9
147.5°	1331.4	1330.1	1326.1	1322.0	1317.9	1313.8	1312.2	1313.1	1314.1	1315.0	1315.9
150°	1355.1	1353.7	1349.8	1345.9	1342.0	1338.2	1337.0	1338.7	1340.5	1342.2	1343.9
152.5°	1377.0	1375.5	1371.8	1368.2	1364.4	1360.8	1359.9	1361.7	1363.6	1365.6	1367.4
155°	1406.4	1405.0	1402.0	1399.1	1396.2	1393.3	1392.9	1395.1	1397.3	1399.5	1401.7
157.5°	1431.0	1429.4	1427.4	1425.3	1423.3	1421.2	1421.1	1423.0	1424.8	1426.6	1428.5
160°	1445.6	1444.2	1442.8	1441.3	1439.8	1438.4	1438.4	1439.8	1441.3	1442.8	1444.2
162.5°	1458.9	1457.3	1456.1	1454.7	1453.5	1452.2	1452.3	1453.8	1455.3	1456.7	1458.2
165°	1475.3	1473.6	1472.9	1472.2	1471.5	1470.8	1471.1	1472.6	1474.0	1475.5	1476.9
167.5°	1489.1	1487.4	1486.7	1486.0	1485.4	1484.7	1485.1	1486.6	1488.0	1489.4	1490.9
170°	1496.1	1494.4	1493.9	1493.4	1492.9	1492.5	1492.9	1494.4	1495.8	1497.3	1498.8
172.5°	1501.3	1499.6	1499.1	1498.6	1498.2	1497.7	1498.2	1499.6	1501.1	1502.5	1504.0
175°	1507.0	1505.3	1504.9	1504.3	1503.9	1503.3	1504.0	1505.7	1507.3	1509.0	1510.7
177.5°	1508.0	1506.6	1506.4	1506.2	1506.0	1505.8	1506.4	1507.8	1509.1	1510.5	1511.8
180°	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9
2.5°	586.4	586.8	590.0	591.6	594.4	595.6	596.9	596.6	596.6	597.2	601.7
5°	587.6	591.7	597.7	603.6	609.3	614.1	617.4	620.6	621.9	627.7	632.9
7.5°	585.5	593.0	603.0	612.0	622.7	631.1	638.0	644.4	648.6	657.2	665.9
10°	582.7	593.3	604.6	616.2	631.0	642.1	653.4	662.2	664.9	677.7	685.0
12.5°	577.2	591.3	605.7	620.7	635.2	650.5	663.0	671.7	681.7	693.1	706.6
15°	569.0	585.1	604.0	623.2	643.9	662.5	675.9	691.1	702.0	714.6	726.4
17.5°	557.1	578.0	601.9	624.2	648.1	668.1	686.5	701.1	708.7	716.0	717.6
20°	547.7	570.2	598.3	624.6	648.5	671.6	689.9	702.0	704.1	704.3	693.6
22.5°	537.5	562.9	592.4	619.3	647.9	673.6	687.8	692.9	684.9	671.2	650.4
25°	518.7	548.1	582.4	613.1	644.4	668.6	673.5	664.4	636.2	606.6	569.2
27.5°	498.4	531.5	568.1	602.4	635.6	650.7	640.2	607.3	556.6	512.5	459.1
30°	483.5	520.6	556.6	594.9	625.7	632.1	608.1	559.6	500.5	434.1	380.8
32.5°	466.5	505.3	544.9	584.5	610.3	604.0	564.2	504.5	435.2	369.9	319.6
35°	442.2	482.2	525.0	564.7	581.1	553.8	494.2	416.6	345.7	284.8	250.1
37.5°	414.1	457.8	502.2	538.7	537.5	492.0	410.8	330.7	271.2	235.1	210.4
40°	394.1	438.4	486.3	517.1	504.0	444.6	356.7	281.2	237.6	208.8	190.8
42.5°	375.1	419.4	467.1	491.5	468.6	395.7	308.1	248.9	212.9	190.6	175.9
45°	342.5	389.3	433.5	447.0	406.1	325.7	249.1	206.2	182.3	165.7	155.6
47.5°	310.7	356.8	397.1	397.3	342.0	264.1	210.2	178.4	158.0	145.2	137.9
50°	291.2	335.0	368.8	363.6	300.8	235.0	188.0	160.6	143.7	133.7	126.0
52.5°	269.4	311.8	341.2	326.2	265.9	206.8	168.0	145.1	131.0	122.3	115.5
55°	237.6	275.3	296.0	273.2	217.0	172.0	142.0	123.9	113.4	106.1	100.2
57.5°	206.3	237.5	250.4	224.0	178.7	142.6	120.1	106.6	96.1	90.9	87.8
60°	186.7	213.3	222.4	193.2	155.3	124.8	106.4	93.8	86.1	82.7	79.6
62.5°	167.5	189.1	192.9	166.2	135.5	109.2	93.4	82.8	77.7	74.4	71.5
65°	138.9	154.5	152.8	131.3	107.2	86.7	75.2	68.7	64.8	60.2	55.1
67.5°	114.4	123.9	118.2	102.1	81.8	67.4	59.8	54.9	50.1	45.7	44.6
70°	98.8	104.3	98.3	83.5	67.1	56.5	50.5	44.6	41.7	40.8	38.9
72.5°	83.9	85.9	79.3	66.6	54.6	46.8	40.8	37.6	36.0	35.2	34.1
75°	63.0	61.6	55.9	46.0	37.9	32.6	30.8	29.6	28.5	27.7	27.1
77.5°	44.2	42.2	37.1	30.6	26.4	23.9	22.7	22.1	21.7	21.2	20.6
80°	33.3	31.8	26.8	21.8	20.1	18.8	18.2	17.4	17.4	17.0	16.4
82.5°	24.3	22.7	18.3	16.1	15.1	14.3	13.8	13.4	13.2	13.3	12.8
85°	12.8	10.3	9.1	8.7	8.1	7.7	7.9	7.5	7.5	7.5	7.3
87.5°	4.6	4.4	4.7	5.1	5.7	6.2	6.3	6.7	7.3	7.4	7.8
90°	3.7	6.4	9.1	11.8	14.1	16.0	17.9	19.9	21.8	23.0	24.3
92.5°	21.8	21.6	21.3	21.0	21.4	22.4	23.4	24.3	25.3	25.9	26.6
95°	62.9	54.9	46.9	38.9	35.8	37.5	39.1	40.8	42.5	43.8	44.9
97.5°	118.2	95.6	73.1	50.6	41.2	45.1	49.0	53.1	57.0	57.9	58.9
100°	159.9	126.6	93.5	60.3	45.7	49.8	53.9	58.1	62.2	64.1	66.1
102.5°	243.6	236.6	229.6	222.6	201.8	167.3	132.9	98.4	63.9	66.4	68.9
105°	338.9	346.2	353.4	360.7	331.3	265.1	198.9	132.7	66.5	69.2	71.9
107.5°	429.7	435.6	441.5	447.4	410.6	331.3	251.9	172.5	93.2	90.4	87.7
110°	488.3	493.4	498.5	503.5	471.1	401.1	331.0	260.9	190.9	166.7	142.4





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	543.6	548.0	552.6	557.1	550.7	533.4	516.1	498.8	481.4	393.1	304.6
115°	631.3	635.4	639.5	643.7	648.8	654.9	660.9	667.0	673.1	560.8	448.5
117.5°	710.6	715.2	719.8	724.4	728.8	732.9	737.1	741.3	745.5	718.3	691.2
120°	767.2	770.8	774.5	778.1	782.1	786.5	790.9	795.2	799.5	802.5	805.4
122.5°	816.3	820.1	823.9	827.8	832.1	836.8	841.5	846.3	851.0	852.7	854.5
125°	889.9	893.1	896.3	899.4	903.3	907.9	912.5	917.1	921.8	923.5	925.1
127.5°	957.7	961.2	964.7	968.2	971.7	975.1	978.6	982.0	985.4	987.9	990.3
130°	1000.9	1004.8	1008.6	1012.5	1015.7	1018.4	1021.1	1023.8	1026.4	1029.1	1031.8
132.5°	1043.9	1047.2	1050.5	1053.8	1056.8	1059.4	1062.1	1064.8	1067.5	1069.7	1072.0
135°	1101.2	1105.1	1108.9	1112.9	1115.9	1118.0	1120.3	1122.4	1124.6	1127.0	1129.4
137.5°	1157.4	1160.1	1162.9	1165.6	1168.1	1170.6	1173.1	1175.5	1178.0	1180.4	1182.8
140°	1194.2	1196.1	1198.0	1200.0	1202.3	1205.0	1207.6	1210.3	1213.0	1215.1	1217.4
142.5°	1225.4	1227.2	1228.9	1230.7	1233.1	1236.1	1239.1	1242.2	1245.3	1247.2	1249.2
145°	1272.7	1272.5	1272.2	1272.0	1273.9	1278.1	1282.2	1286.3	1290.4	1292.1	1293.8
147.5°	1315.0	1314.1	1313.1	1312.2	1313.8	1317.9	1322.0	1326.1	1330.1	1331.4	1332.7
150°	1342.2	1340.5	1338.7	1337.0	1338.2	1342.0	1345.9	1349.8	1353.7	1355.1	1356.6
152.5°	1365.6	1363.6	1361.7	1359.9	1360.8	1364.4	1368.2	1371.8	1375.5	1377.0	1378.4
155°	1399.5	1397.3	1395.1	1392.9	1393.3	1396.2	1399.1	1402.0	1405.0	1406.4	1407.8
157.5°	1426.6	1424.8	1423.0	1421.1	1421.2	1423.3	1425.3	1427.4	1429.4	1431.0	1432.7
160°	1442.8	1441.3	1439.8	1438.4	1438.4	1439.8	1441.3	1442.8	1444.2	1445.6	1447.2
162.5°	1456.7	1455.3	1453.8	1452.3	1452.2	1453.5	1454.7	1456.1	1457.3	1458.9	1460.6
165°	1475.5	1474.0	1472.6	1471.1	1470.8	1471.5	1472.2	1472.9	1473.6	1475.3	1477.0
167.5°	1489.4	1488.0	1486.6	1485.1	1484.7	1485.4	1486.0	1486.7	1487.4	1489.1	1490.8
170°	1497.3	1495.8	1494.4	1492.9	1492.5	1492.9	1493.4	1493.9	1494.4	1496.1	1497.8
172.5°	1502.5	1501.1	1499.6	1498.2	1497.7	1498.2	1498.6	1499.1	1499.6	1501.3	1503.0
175°	1509.0	1507.3	1505.7	1504.0	1503.3	1503.9	1504.3	1504.9	1505.3	1507.0	1508.7
177.5°	1510.5	1509.1	1507.8	1506.4	1505.8	1506.0	1506.2	1506.4	1506.6	1508.0	1509.3
180°	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	582.9	582.9	582.9	582.9	582.9	582.9	582.9
2.5°	603.3	605.5	606.5	606.5	607.6	607.1	606.6
5°	638.0	641.9	642.7	646.3	649.0	648.2	648.5
7.5°	672.5	678.7	684.8	687.6	688.0	689.6	690.3
10°	693.8	698.8	708.3	706.9	714.0	718.1	711.4
12.5°	714.2	721.0	727.6	729.4	733.4	734.8	732.1
15°	732.6	736.3	736.6	735.7	736.9	735.8	732.0
17.5°	715.4	709.4	697.5	691.8	687.3	680.6	678.0
20°	686.9	669.4	649.2	641.1	631.6	613.0	617.4
22.5°	625.3	605.5	585.1	561.5	550.2	532.5	531.5
25°	529.5	495.3	457.5	431.2	415.8	398.2	390.5
27.5°	411.7	368.5	337.7	322.1	307.8	293.9	293.3
30°	334.2	301.8	277.9	264.6	255.8	249.9	251.2
32.5°	281.7	259.5	243.3	232.3	225.9	221.4	221.3
35°	230.3	215.1	204.7	200.1	195.5	192.3	192.4
37.5°	197.1	188.0	182.2	177.1	174.2	172.5	171.7
40°	180.0	172.5	168.1	165.1	162.6	160.4	160.0
42.5°	166.7	160.4	156.0	153.6	151.3	149.7	149.4
45°	147.8	142.8	138.8	136.1	135.1	133.7	133.7
47.5°	131.5	126.5	123.4	121.7	120.0	119.0	119.0
50°	120.6	116.6	113.9	112.8	111.4	110.8	110.6
52.5°	110.7	107.7	105.8	105.0	104.4	103.7	103.8
55°	97.2	95.6	94.8	94.2	93.2	91.9	92.7
57.5°	86.0	84.5	82.4	80.4	79.5	78.6	79.0
60°	78.0	75.2	72.3	70.1	69.5	67.7	67.7
62.5°	67.9	63.9	60.5	59.2	58.6	57.8	57.6
65°	52.3	50.6	49.8	49.0	48.6	48.6	48.2
67.5°	43.3	42.6	41.7	41.6	41.2	41.0	40.9
70°	38.3	37.5	37.1	36.8	36.5	36.6	36.0
72.5°	33.4	32.8	32.7	32.2	31.9	31.9	31.5
75°	26.3	26.3	26.1	25.9	25.5	25.3	25.5
77.5°	20.2	20.3	20.0	19.9	19.9	19.9	19.7
80°	16.2	16.4	16.2	16.0	15.8	16.0	15.8
82.5°	12.8	12.5	12.5	12.4	12.4	12.3	12.2
85°	7.3	7.5	7.3	7.1	7.1	7.1	7.3
87.5°	7.8	8.1	8.3	8.4	8.5	8.6	8.5
90°	25.4	26.7	27.6	28.0	28.4	29.0	29.4
92.5°	27.2	27.8	28.3	28.5	28.9	29.2	29.4
95°	46.2	47.3	47.9	47.6	47.3	47.2	46.9
97.5°	59.8	60.8	61.4	61.7	62.1	62.3	62.6
100°	67.9	69.9	71.2	71.6	72.1	72.6	73.1
102.5°	71.5	74.0	75.6	76.2	77.0	77.7	78.3
105°	74.5	77.2	79.0	80.0	81.0	81.9	82.9
107.5°	85.0	82.3	81.4	82.4	83.4	84.4	85.3
110°	118.2	93.9	82.3	83.3	84.3	85.2	86.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	216.2	127.8	83.9	84.7	85.5	86.2	87.0
115°	336.4	224.1	159.3	141.8	124.4	106.9	89.4
117.5°	664.0	636.9	594.6	537.3	479.9	422.6	365.2
120°	808.2	811.2	796.3	763.6	730.8	698.1	665.4
122.5°	856.3	858.0	855.7	849.4	843.0	836.7	830.3
125°	926.8	928.5	929.7	930.4	931.2	931.9	932.6
127.5°	992.8	995.3	996.7	996.8	996.9	997.0	997.2
130°	1034.5	1037.1	1038.3	1038.0	1037.9	1037.6	1037.3
132.5°	1074.2	1076.6	1077.5	1077.4	1077.1	1076.8	1076.7
135°	1131.8	1134.3	1135.2	1134.8	1134.3	1133.8	1133.4
137.5°	1185.2	1187.6	1188.3	1187.5	1186.7	1185.9	1185.0
140°	1219.5	1221.7	1222.2	1220.9	1219.8	1218.5	1217.4
142.5°	1251.2	1253.2	1253.6	1252.4	1251.2	1249.9	1248.8
145°	1295.5	1297.2	1297.4	1296.2	1295.0	1293.8	1292.6
147.5°	1333.9	1335.2	1335.2	1334.3	1333.2	1332.2	1331.2
150°	1358.1	1359.5	1359.6	1358.4	1357.2	1355.9	1354.8
152.5°	1379.8	1381.3	1381.3	1379.7	1378.0	1376.4	1374.8
155°	1409.3	1410.8	1410.5	1408.5	1406.7	1404.7	1402.8
157.5°	1434.3	1436.0	1435.8	1434.0	1432.1	1430.2	1428.3
160°	1448.6	1450.0	1449.9	1448.2	1446.5	1444.8	1443.1
162.5°	1462.2	1463.9	1463.7	1461.6	1459.5	1457.4	1455.4
165°	1478.7	1480.4	1480.4	1478.7	1477.0	1475.3	1473.6
167.5°	1492.5	1494.2	1494.0	1491.7	1489.6	1487.4	1485.2
170°	1499.5	1501.2	1500.9	1498.8	1496.6	1494.4	1492.2
172.5°	1504.7	1506.4	1506.2	1504.0	1501.8	1499.6	1497.4
175°	1510.4	1512.1	1511.7	1509.3	1506.9	1504.4	1502.0
177.5°	1510.6	1512.1	1511.8	1510.1	1508.3	1506.6	1504.9
180°	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4

(END OF REPORT)