

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: P332403-935

Luminaire Tested: **S123RDIW-S340D1320U935-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332403-935  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123RDIW-S340D1320U935-4F0-1E-UDD-A1  
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1320 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5109.6 lumens  
Efficiency: N/A  
Efficacy: 109.6 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: Semi-Indirect

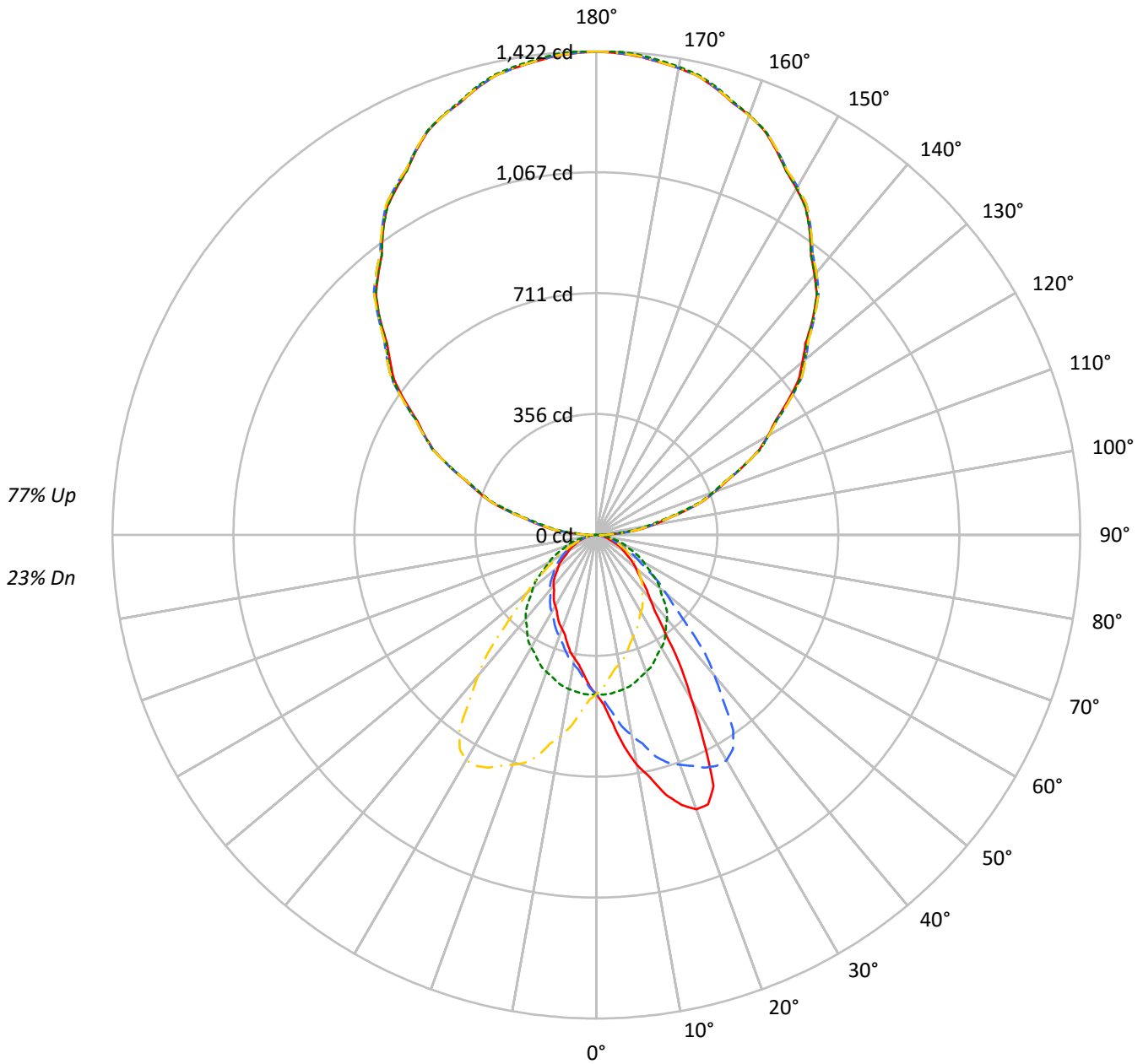
Input Watts (W): 46.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	101	101	101	101	89	89	89	89	68	68	68	49	49	49	31	31	31	23				
1	92	88	84	81	82	78	75	73	60	58	56	43	42	41	28	27	27	20				
2	84	77	71	67	74	69	64	60	53	50	47	38	36	35	25	24	23	17				
3	77	68	61	56	68	61	55	50	47	43	40	34	32	30	22	21	20	15				
4	70	60	53	47	62	54	47	43	42	37	34	30	28	25	20	19	17	13				
5	64	53	46	40	57	48	41	37	37	33	29	27	24	22	18	16	15	11				
6	59	48	40	35	52	43	36	32	33	29	25	25	22	19	17	15	13	10				
7	55	43	36	30	48	39	32	28	30	26	22	22	19	17	15	13	12	9				
8	51	39	32	27	45	35	29	24	28	23	20	21	17	15	14	12	11	8				
9	47	35	28	24	42	32	26	22	25	21	18	19	16	14	13	11	10	7				
10	44	32	26	21	39	29	23	19	23	19	16	17	14	12	12	10	9	7				

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

	0°	90°	180°	270°
0°	5044	5044	5044	5044
5°	6013	5065	4460	5065
10°	7507	5037	4030	5037
15°	8811	4985	3675	4985
20°	9835	4907	3373	4907
25°	9678	4827	3188	4827
30°	6955	4753	2997	4753
35°	4644	4654	2872	4654
40°	3421	4539	2746	4539
45°	2871	4332	2620	4332
50°	2534	4064	2445	4064
55°	2222	3757	2205	3757
60°	1978	3462	2019	3462
65°	1737	3148	1880	3148
70°	1363	2867	1718	2867
75°	1198	2504	1568	2504
80°	1048	2126	1543	2126
85°	840	1717	1643	1717



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.1	0.9
10°-20°	144.0	2.8
20°-30°	226.2	4.4
30°-40°	236.0	4.6
40°-50°	201.9	4.0
50°-60°	153.9	3.0
60°-70°	98.7	1.9
70°-80°	47.5	0.9
80°-90°	16.8	0.3
90°-100°	92.6	1.8
100°-110°	277.2	5.4
110°-120°	471.4	9.2
120°-130°	620.1	12.1
130°-140°	697.0	13.6
140°-150°	685.1	13.4
150°-160°	576.8	11.3
160°-170°	383.9	7.5
170°-180°	134.4	2.6
0°-30°	416.2	8.1
0°-40°	652.2	12.8
0°-60°	1008.0	19.7
0°-90°	1170.9	22.9
90°-120°	841.3	16.5
90°-150°	2843.5	55.7
90°-180°	3939.0	77.1
0°-180°	5109.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	469	469	469	469	469	
5°	556	469	413	469	556	57
15°	791	447	330	447	791	224
25°	815	406	268	406	815	350
35°	353	354	219	354	353	232
45°	189	285	172	285	189	148
55°	118	200	118	200	118	107
65°	68	124	74	124	68	67
75°	29	60	38	60	29	31
85°	7	14	13	14	7	9
90°	34	1	34	1	34	16
95°	87	66	87	66	87	89
105°	266	251	266	251	266	282
115°	476	475	476	475	476	471
125°	687	695	687	695	687	614
135°	900	901	900	901	900	692
145°	1093	1093	1093	1093	1093	682
155°	1250	1252	1250	1252	1250	575
165°	1359	1364	1359	1364	1359	383
175°	1413	1418	1413	1418	1413	134
180°	1422	1422	1422	1422	1422	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6
2.5°	499.1	499.7	497.7	497.3	494.9	494.3	494.3	490.9	488.8	486.1	484.5
5°	556.5	559.6	558.0	554.5	548.5	547.0	543.2	537.2	530.4	521.9	518.0
7.5°	628.1	632.5	630.8	625.3	618.9	613.8	603.0	593.1	579.1	566.8	556.3
10°	686.8	682.3	678.6	673.2	667.4	658.0	646.7	631.3	613.5	599.3	583.8
12.5°	730.8	730.0	725.5	719.9	711.7	702.7	688.9	670.1	649.4	629.0	611.1
15°	790.7	791.9	788.9	783.2	771.5	755.6	734.8	726.9	697.2	675.2	653.2
17.5°	832.2	832.0	831.6	823.5	811.7	800.4	781.0	760.4	733.6	702.5	672.8
20°	858.6	856.5	857.0	847.9	839.1	826.0	807.2	777.3	755.3	719.4	688.6
22.5°	857.9	857.5	859.0	855.9	849.5	839.6	824.7	799.4	771.3	735.0	700.5
25°	814.9	813.2	822.6	825.3	835.5	837.3	832.8	819.1	792.4	755.0	712.3
27.5°	681.9	681.1	698.5	720.5	748.2	769.8	790.7	800.7	792.4	765.6	722.8
30°	559.6	578.5	587.4	619.1	654.4	696.5	733.4	768.4	777.1	765.4	730.4
32.5°	464.7	481.1	488.5	515.7	548.6	598.0	653.3	703.0	738.1	747.0	725.9
35°	353.4	353.6	370.5	382.5	413.0	463.7	517.5	584.1	650.3	700.5	705.7
37.5°	282.1	283.0	293.3	305.2	328.1	354.9	402.3	457.6	534.1	611.1	656.3
40°	243.5	245.3	253.0	264.8	281.2	301.5	338.4	390.5	454.3	540.0	610.0
42.5°	218.8	221.7	225.7	234.8	245.0	264.0	293.8	334.1	392.1	473.1	553.9
45°	188.6	190.2	193.2	197.4	206.6	219.8	239.9	267.0	315.1	380.3	461.2
47.5°	166.3	165.5	168.7	172.0	178.2	187.3	200.7	222.7	257.1	309.4	378.0
50°	151.3	151.0	153.3	155.8	161.7	168.3	179.3	196.0	223.3	266.6	329.4
52.5°	137.2	137.8	139.5	142.7	146.9	152.2	162.1	174.2	197.6	235.0	287.3
55°	118.4	119.0	121.1	123.0	126.0	131.4	137.6	147.7	163.7	189.8	232.9
57.5°	102.5	102.2	104.3	104.8	108.1	112.5	117.4	125.2	136.8	156.2	185.2
60°	91.9	91.3	93.1	94.5	96.3	99.9	103.9	111.5	120.8	135.0	159.9
62.5°	82.2	82.0	83.3	84.7	86.2	89.5	92.8	98.7	106.0	118.0	137.8
65°	68.2	68.8	69.4	70.0	70.8	72.8	76.0	80.1	85.1	93.5	107.7
67.5°	53.6	54.2	54.4	55.6	57.3	58.6	60.6	64.1	67.7	74.7	82.8
70°	43.3	43.1	43.3	43.9	46.1	48.3	51.0	53.6	55.8	60.8	67.6
72.5°	37.2	36.9	37.4	37.5	38.6	39.2	40.8	43.3	46.1	49.5	54.4
75°	28.8	28.8	28.8	28.8	29.7	30.0	30.7	31.3	32.3	33.9	37.5
77.5°	21.4	21.4	21.7	21.9	22.0	22.3	22.6	23.2	23.6	24.5	26.0
80°	16.9	17.0	16.9	17.0	17.0	17.5	17.7	18.3	18.4	19.5	20.1
82.5°	12.7	12.6	12.7	12.9	12.9	13.3	13.3	13.8	13.8	14.3	14.9
85°	6.8	6.5	6.8	6.6	7.1	6.6	6.8	7.2	7.2	7.4	8.3
87.5°	8.3	8.5	8.1	8.2	8.1	8.1	7.9	7.7	7.8	7.4	7.0
90°	33.5	33.0	32.5	32.0	31.5	30.7	29.8	28.8	27.8	26.8	23.6
92.5°	45.1	45.4	45.7	46.0	46.3	46.1	45.3	44.4	43.7	42.9	41.1
95°	87.1	87.1	87.1	87.1	87.1	86.6	85.6	84.6	83.6	82.7	80.7
97.5°	134.0	134.1	134.2	134.3	134.4	133.9	132.8	131.6	130.4	129.3	127.9
100°	169.7	169.3	168.8	168.2	167.7	167.1	166.3	165.7	164.9	164.2	162.9
102.5°	206.4	206.5	206.6	206.6	206.7	206.5	205.7	204.9	204.2	203.5	201.8
105°	265.8	265.3	264.8	264.3	263.8	263.6	263.6	263.6	263.6	263.6	261.3
107.5°	327.6	328.0	328.2	328.6	328.8	328.6	327.8	327.0	326.2	325.4	324.5
110°	369.6	370.1	370.7	371.1	371.6	371.3	370.4	369.4	368.4	367.4	366.9



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	414.3	414.4	414.5	414.6	414.7	414.1	412.9	411.7	410.6	409.4	409.3
115°	475.7	476.0	476.2	476.5	476.7	476.7	476.5	476.2	476.0	475.7	476.2
117.5°	538.0	538.7	539.4	540.1	540.8	541.1	541.2	541.3	541.3	541.4	542.0
120°	581.8	582.3	582.8	583.3	583.8	584.2	584.4	584.6	584.9	585.1	586.4
122.5°	623.8	624.5	625.2	625.9	626.5	627.2	627.8	628.5	629.1	629.8	630.4
125°	686.7	687.8	688.7	689.7	690.8	691.7	692.8	693.7	694.7	695.7	696.2
127.5°	749.5	750.7	751.8	752.9	754.1	755.4	756.7	758.1	759.5	761.0	761.5
130°	790.7	792.4	794.1	795.8	797.5	798.9	800.0	800.9	801.9	802.9	803.7
132.5°	833.5	834.8	836.2	837.5	838.9	840.2	841.3	842.5	843.7	844.9	845.4
135°	900.1	900.5	901.0	901.6	902.1	902.8	903.8	904.7	905.8	906.7	907.0
137.5°	958.8	959.8	960.7	961.7	962.6	963.5	964.6	965.6	966.6	967.8	967.1
140°	997.2	998.9	1000.7	1002.5	1004.2	1005.1	1005.4	1005.6	1005.9	1006.2	1005.9
142.5°	1036.6	1037.8	1039.2	1040.5	1041.9	1042.7	1042.9	1043.2	1043.4	1043.7	1043.2
145°	1093.2	1094.2	1095.2	1096.2	1097.3	1097.9	1098.1	1098.3	1098.5	1098.8	1098.1
147.5°	1143.8	1145.2	1146.7	1148.2	1149.7	1150.4	1150.4	1150.4	1150.4	1150.4	1149.7
150°	1175.9	1177.3	1178.9	1180.3	1181.8	1182.6	1182.6	1182.6	1182.6	1182.6	1182.1
152.5°	1207.1	1208.4	1209.7	1211.0	1212.3	1212.7	1212.4	1211.9	1211.6	1211.2	1210.9
155°	1249.6	1251.3	1253.1	1254.8	1256.5	1256.9	1255.9	1254.9	1254.0	1252.9	1252.7
157.5°	1288.2	1289.6	1291.0	1292.4	1293.7	1294.0	1292.9	1291.8	1290.8	1289.8	1289.6
160°	1313.2	1314.2	1315.3	1316.2	1317.2	1317.1	1315.9	1314.6	1313.4	1312.1	1312.1
162.5°	1332.0	1333.6	1335.2	1336.8	1338.3	1338.5	1337.3	1336.0	1334.8	1333.5	1333.3
165°	1359.0	1360.7	1362.5	1364.3	1366.0	1366.1	1364.6	1363.1	1361.6	1360.1	1360.1
167.5°	1382.0	1383.5	1385.1	1386.6	1388.2	1388.2	1386.6	1385.1	1383.5	1382.0	1381.8
170°	1393.6	1395.3	1397.1	1398.9	1400.6	1400.6	1398.9	1397.1	1395.3	1393.6	1393.6
172.5°	1402.6	1404.3	1406.0	1407.8	1409.5	1409.6	1408.1	1406.5	1405.0	1403.4	1403.4
175°	1412.6	1414.4	1416.1	1417.8	1419.5	1419.7	1418.2	1416.7	1415.2	1413.8	1413.8
177.5°	1418.0	1419.4	1420.7	1422.1	1423.6	1423.7	1422.5	1421.3	1420.0	1418.8	1418.8
180°	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6
2.5°	483.8	483.4	481.1	478.5	475.2	472.9	471.1	470.2	467.3	463.7	461.4
5°	513.8	507.7	501.3	493.4	486.2	478.8	474.2	468.8	462.2	454.8	449.5
7.5°	545.7	533.9	521.2	508.1	495.2	483.5	473.2	464.4	453.9	443.2	435.8
10°	570.3	553.0	535.2	516.9	500.3	484.7	472.6	460.8	448.2	435.9	426.6
12.5°	592.6	569.9	549.3	526.8	505.6	486.9	469.6	455.6	440.4	427.4	416.9
15°	620.9	597.5	572.7	538.6	510.3	486.6	465.5	447.3	428.9	412.8	402.6
17.5°	647.2	612.3	578.8	550.4	513.6	484.1	458.3	436.5	416.2	399.2	386.6
20°	658.1	624.2	588.0	551.6	515.6	482.4	452.5	428.4	407.4	388.1	376.5
22.5°	664.7	626.4	588.1	549.1	510.7	476.3	446.8	420.3	397.4	379.2	364.8
25°	672.4	626.6	584.5	546.0	506.9	469.6	434.5	406.4	381.8	362.3	347.1
27.5°	677.4	623.6	573.9	531.1	491.4	454.3	422.1	392.3	367.2	346.6	330.3
30°	678.4	621.2	565.7	519.4	479.1	444.9	410.8	382.4	355.9	334.0	318.7
32.5°	679.7	615.3	554.6	505.4	464.1	430.3	399.4	372.2	345.1	323.6	308.0
35°	674.4	612.0	537.8	481.2	439.9	407.2	379.4	354.2	327.6	306.7	290.8
37.5°	651.6	599.0	520.4	454.0	410.8	380.6	357.8	336.0	311.5	289.0	274.1
40°	628.7	586.2	506.9	437.5	392.4	361.3	340.8	323.0	299.3	278.2	262.2
42.5°	594.5	568.6	494.0	420.2	371.5	341.6	324.3	307.5	286.8	265.4	250.3
45°	531.8	535.2	467.8	392.5	342.6	312.5	296.3	284.6	266.2	248.6	233.1
47.5°	453.1	485.0	437.0	363.2	312.2	284.0	269.8	259.6	247.1	229.8	215.7
50°	401.8	447.3	412.2	343.5	293.1	265.0	251.0	242.7	231.9	218.3	204.8
52.5°	354.5	403.4	382.4	321.4	272.3	246.7	233.0	226.2	217.6	204.7	192.6
55°	289.0	338.6	333.8	288.3	241.3	218.3	207.8	200.2	194.4	184.8	175.1
57.5°	233.8	280.8	283.3	251.3	214.0	191.1	182.2	176.4	172.6	165.4	156.4
60°	199.0	242.1	250.6	226.4	194.4	174.4	165.5	160.8	157.9	152.1	145.3
62.5°	170.1	206.8	216.4	199.1	175.6	156.8	149.9	145.5	143.4	138.4	132.4
65°	130.2	160.7	169.9	160.3	148.0	133.0	127.3	123.6	121.7	119.0	114.5
67.5°	97.9	120.1	130.3	123.5	119.0	109.5	106.0	103.9	102.3	100.4	96.7
70°	78.6	95.1	105.5	103.8	100.1	95.1	92.5	91.1	89.5	87.8	84.6
72.5°	63.2	74.6	84.3	85.2	82.3	81.3	79.0	78.4	77.4	75.5	73.7
75°	41.9	49.8	56.6	59.2	60.4	61.4	60.4	60.2	60.0	58.4	57.3
77.5°	27.5	31.7	36.0	40.5	42.4	43.7	44.0	44.8	44.2	43.4	42.9
80°	21.1	22.0	25.1	28.8	31.9	33.1	33.9	34.3	34.1	33.9	33.1
82.5°	15.3	16.1	17.6	20.2	22.7	24.7	25.2	25.1	25.6	25.7	25.1
85°	8.3	8.4	8.9	9.2	10.6	12.8	13.4	13.9	14.2	14.2	13.0
87.5°	6.6	5.9	5.5	4.9	4.9	4.6	5.1	5.3	6.0	5.9	6.4
90°	20.3	17.1	13.9	11.0	8.5	6.1	3.6	1.1	3.6	6.1	8.5
92.5°	39.2	37.4	35.6	33.8	32.1	30.4	28.7	27.0	28.7	30.4	32.1
95°	78.7	76.7	74.7	72.8	71.1	69.4	67.6	65.9	67.6	69.4	71.1
97.5°	126.4	125.0	123.6	122.2	120.9	119.6	118.3	117.0	118.3	119.6	120.9
100°	161.7	160.4	159.2	157.8	156.4	154.8	153.3	151.9	153.3	154.8	156.4
102.5°	200.2	198.5	196.9	195.6	194.8	193.9	193.0	192.1	193.0	193.9	194.8
105°	259.1	256.8	254.6	253.2	252.7	252.3	251.8	251.2	251.8	252.3	252.7
107.5°	323.6	322.7	321.8	321.2	321.0	320.6	320.4	320.0	320.4	320.6	321.0
110°	366.4	365.9	365.4	364.9	364.4	363.9	363.4	362.9	363.4	363.9	364.4





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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	409.1	409.1	409.0	408.8	408.5	408.2	407.9	407.6	407.9	408.2	408.5
115°	476.7	477.2	477.7	477.6	476.8	476.0	475.4	474.6	475.4	476.0	476.8
117.5°	542.7	543.3	544.0	544.1	543.5	543.0	542.5	542.1	542.5	543.0	543.5
120°	587.6	588.8	590.1	590.0	588.5	587.0	585.5	584.0	585.5	587.0	588.5
122.5°	631.1	631.7	632.4	632.1	631.1	630.0	628.9	627.8	628.9	630.0	631.1
125°	696.7	697.2	697.7	697.6	696.8	696.0	695.3	694.6	695.3	696.0	696.8
127.5°	762.0	762.6	763.1	762.6	761.0	759.4	757.9	756.2	757.9	759.4	761.0
130°	804.4	805.1	805.9	805.3	803.3	801.3	799.3	797.3	799.3	801.3	803.3
132.5°	846.0	846.5	847.1	846.4	844.4	842.4	840.4	838.4	840.4	842.4	844.4
135°	907.2	907.5	907.8	907.1	905.6	904.1	902.7	901.2	902.7	904.1	905.6
137.5°	966.5	965.8	965.2	964.2	962.9	961.7	960.4	959.2	960.4	961.7	962.9
140°	1005.6	1005.4	1005.1	1004.4	1003.2	1001.9	1000.7	999.4	1000.7	1001.9	1003.2
142.5°	1042.8	1042.3	1041.9	1041.0	1039.8	1038.5	1037.3	1036.0	1037.3	1038.5	1039.8
145°	1097.3	1096.6	1095.9	1095.2	1094.8	1094.2	1093.7	1093.2	1093.7	1094.2	1094.8
147.5°	1149.0	1148.3	1147.6	1146.9	1146.0	1145.0	1144.2	1143.2	1144.2	1145.0	1146.0
150°	1181.6	1181.1	1180.6	1180.1	1179.6	1179.1	1178.6	1178.1	1178.6	1179.1	1179.6
152.5°	1210.6	1210.3	1210.0	1209.4	1208.8	1208.1	1207.4	1206.7	1207.4	1208.1	1208.8
155°	1252.4	1252.2	1252.0	1251.8	1251.8	1251.8	1251.8	1251.8	1251.8	1251.8	1251.8
157.5°	1289.3	1289.2	1289.0	1289.0	1289.3	1289.6	1290.0	1290.2	1290.0	1289.6	1289.3
160°	1312.1	1312.1	1312.1	1312.3	1312.9	1313.4	1313.9	1314.3	1313.9	1313.4	1312.9
162.5°	1333.2	1333.0	1332.7	1333.0	1333.7	1334.4	1335.1	1335.8	1335.1	1334.4	1333.7
165°	1360.1	1360.1	1360.1	1360.6	1361.2	1362.0	1362.7	1363.5	1362.7	1362.0	1361.2
167.5°	1381.6	1381.4	1381.2	1381.6	1382.6	1383.6	1384.6	1385.6	1384.6	1383.6	1382.6
170°	1393.6	1393.6	1393.6	1394.1	1395.2	1396.1	1397.1	1398.1	1397.1	1396.1	1395.2
172.5°	1403.4	1403.4	1403.4	1403.9	1405.0	1405.9	1407.0	1407.9	1407.0	1405.9	1405.0
175°	1413.8	1413.8	1413.8	1414.2	1415.2	1416.3	1417.2	1418.2	1417.2	1416.3	1415.2
177.5°	1418.8	1418.8	1418.8	1419.3	1420.0	1420.8	1421.7	1422.5	1421.7	1420.8	1420.0
180°	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6



TEST NUMBER: P332403-935

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6
2.5°	460.5	458.5	457.0	453.8	451.8	449.5	447.3	448.7	448.5	448.4	448.4
5°	445.1	440.5	436.3	430.8	427.5	423.3	420.1	419.7	420.4	417.7	416.0
7.5°	429.8	423.5	417.5	411.6	405.2	400.1	397.0	395.5	393.5	391.8	389.9
10°	419.0	411.6	405.8	398.4	391.6	385.6	381.8	379.1	377.7	376.3	373.7
12.5°	407.9	400.7	393.3	384.9	378.4	371.4	368.6	365.7	363.0	361.4	357.8
15°	391.8	382.4	374.5	365.7	358.4	351.6	347.7	341.8	341.0	339.0	335.4
17.5°	375.5	365.3	354.5	347.9	339.8	332.7	326.6	324.7	318.9	316.8	313.6
20°	362.7	353.3	345.0	336.4	324.6	318.0	313.1	310.6	305.9	303.1	301.1
22.5°	351.6	342.0	332.5	322.4	312.7	305.2	301.7	297.6	295.2	291.2	289.0
25°	335.8	325.4	313.9	303.1	296.1	290.5	284.8	281.2	277.6	275.8	271.8
27.5°	317.5	306.5	295.8	287.6	279.0	273.5	268.4	265.2	260.8	257.8	255.5
30°	307.3	294.5	285.2	277.8	266.8	261.6	257.8	253.7	250.6	247.4	245.1
32.5°	295.6	283.9	275.2	266.0	257.5	251.8	246.8	243.3	240.6	237.5	235.3
35°	277.2	267.4	258.4	249.2	242.9	237.1	231.3	228.3	225.7	222.8	220.8
37.5°	260.6	251.4	242.8	234.1	226.4	221.6	217.0	214.6	211.1	209.2	207.2
40°	250.4	241.3	232.1	223.7	215.7	212.1	207.8	204.4	201.2	199.8	197.6
42.5°	239.1	230.1	222.3	213.3	206.6	201.7	197.9	194.2	191.7	189.7	188.5
45°	222.5	214.5	206.8	197.8	191.6	187.4	183.0	179.5	177.4	175.9	173.7
47.5°	206.3	198.3	190.5	182.7	176.7	171.9	167.4	165.1	162.1	160.4	158.9
50°	194.6	187.4	179.2	171.9	165.9	161.1	157.5	154.5	151.9	149.6	148.6
52.5°	183.8	176.2	169.0	162.3	155.9	150.5	147.2	144.0	142.1	139.6	138.4
55°	166.1	158.7	152.7	146.0	139.8	135.2	131.2	128.4	126.4	123.6	122.0
57.5°	149.5	142.8	135.6	129.8	123.5	119.6	116.2	112.4	109.9	107.8	106.2
60°	138.2	130.6	124.3	119.0	113.3	108.3	105.3	102.3	99.7	97.5	96.1
62.5°	126.5	119.9	113.9	108.1	102.9	98.5	95.1	92.6	90.2	88.9	87.4
65°	108.5	103.3	97.3	92.5	87.6	84.5	81.6	79.5	77.8	76.8	75.6
67.5°	92.0	87.0	81.7	77.0	73.7	71.3	69.5	67.6	66.7	65.4	64.7
70°	81.3	76.0	71.4	67.8	64.6	62.8	61.6	60.2	59.4	57.8	57.0
72.5°	69.6	65.8	62.4	59.5	56.9	55.3	53.7	52.0	50.7	48.9	48.1
75°	54.8	51.3	48.7	46.8	45.1	43.0	40.7	38.9	38.3	37.7	37.5
77.5°	40.6	38.4	36.5	34.8	32.8	31.3	30.7	30.3	30.2	29.9	29.9
80°	31.9	29.9	28.5	26.5	25.3	25.3	25.3	24.9	25.1	25.1	25.1
82.5°	23.7	21.9	21.1	20.4	20.1	20.3	20.3	20.4	20.2	20.6	20.4
85°	12.2	12.4	12.8	12.7	12.8	12.8	13.3	13.0	13.3	12.8	13.3
87.5°	6.7	7.7	8.5	9.4	10.2	10.7	11.0	11.2	11.5	11.8	11.9
90°	11.0	13.9	17.1	20.3	23.6	26.8	27.8	28.8	29.8	30.7	31.5
92.5°	33.8	35.6	37.4	39.2	41.1	42.9	43.7	44.4	45.3	46.1	46.3
95°	72.8	74.7	76.7	78.7	80.7	82.7	83.6	84.6	85.6	86.6	87.1
97.5°	122.2	123.6	125.0	126.4	127.9	129.3	130.4	131.6	132.8	133.9	134.4
100°	157.8	159.2	160.4	161.7	162.9	164.2	164.9	165.7	166.3	167.1	167.7
102.5°	195.6	196.9	198.5	200.2	201.8	203.5	204.2	204.9	205.7	206.5	206.7
105°	253.2	254.6	256.8	259.1	261.3	263.6	263.6	263.6	263.6	263.6	263.8
107.5°	321.2	321.8	322.7	323.6	324.5	325.4	326.2	327.0	327.8	328.6	328.8
110°	364.9	365.4	365.9	366.4	366.9	367.4	368.4	369.4	370.4	371.3	371.6



TEST NUMBER: P332403-935

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	408.8	409.0	409.1	409.1	409.3	409.4	410.6	411.7	412.9	414.1	414.7
115°	477.6	477.7	477.2	476.7	476.2	475.7	476.0	476.2	476.5	476.7	476.7
117.5°	544.1	544.0	543.3	542.7	542.0	541.4	541.3	541.3	541.2	541.1	540.8
120°	590.0	590.1	588.8	587.6	586.4	585.1	584.9	584.6	584.4	584.2	583.8
122.5°	632.1	632.4	631.7	631.1	630.4	629.8	629.1	628.5	627.8	627.2	626.5
125°	697.6	697.7	697.2	696.7	696.2	695.7	694.7	693.7	692.8	691.7	690.8
127.5°	762.6	763.1	762.6	762.0	761.5	761.0	759.5	758.1	756.7	755.4	754.1
130°	805.3	805.9	805.1	804.4	803.7	802.9	801.9	800.9	800.0	798.9	797.5
132.5°	846.4	847.1	846.5	846.0	845.4	844.9	843.7	842.5	841.3	840.2	838.9
135°	907.1	907.8	907.5	907.2	907.0	906.7	905.8	904.7	903.8	902.8	902.1
137.5°	964.2	965.2	965.8	966.5	967.1	967.8	966.6	965.6	964.6	963.5	962.6
140°	1004.4	1005.1	1005.4	1005.6	1005.9	1006.2	1005.9	1005.6	1005.4	1005.1	1004.2
142.5°	1041.0	1041.9	1042.3	1042.8	1043.2	1043.7	1043.4	1043.2	1042.9	1042.7	1041.9
145°	1095.2	1095.9	1096.6	1097.3	1098.1	1098.8	1098.5	1098.3	1098.1	1097.9	1097.3
147.5°	1146.9	1147.6	1148.3	1149.0	1149.7	1150.4	1150.4	1150.4	1150.4	1150.4	1149.7
150°	1180.1	1180.6	1181.1	1181.6	1182.1	1182.6	1182.6	1182.6	1182.6	1182.6	1181.8
152.5°	1209.4	1210.0	1210.3	1210.6	1210.9	1211.2	1211.6	1211.9	1212.4	1212.7	1212.3
155°	1251.8	1252.0	1252.2	1252.4	1252.7	1252.9	1254.0	1254.9	1255.9	1256.9	1256.5
157.5°	1289.0	1289.0	1289.2	1289.3	1289.6	1289.8	1290.8	1291.8	1292.9	1294.0	1293.7
160°	1312.3	1312.1	1312.1	1312.1	1312.1	1312.1	1313.4	1314.6	1315.9	1317.1	1317.2
162.5°	1333.0	1332.7	1333.0	1333.2	1333.3	1333.5	1334.8	1336.0	1337.3	1338.5	1338.3
165°	1360.6	1360.1	1360.1	1360.1	1360.1	1360.1	1361.6	1363.1	1364.6	1366.1	1366.0
167.5°	1381.6	1381.2	1381.4	1381.6	1381.8	1382.0	1383.5	1385.1	1386.6	1388.2	1388.2
170°	1394.1	1393.6	1393.6	1393.6	1393.6	1393.6	1395.3	1397.1	1398.9	1400.6	1400.6
172.5°	1403.9	1403.4	1403.4	1403.4	1403.4	1403.4	1405.0	1406.5	1408.1	1409.6	1409.5
175°	1414.2	1413.8	1413.8	1413.8	1413.8	1413.8	1415.2	1416.7	1418.2	1419.7	1419.5
177.5°	1419.3	1418.8	1418.8	1418.8	1418.8	1418.8	1420.0	1421.3	1422.5	1423.7	1423.6
180°	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6



TEST NUMBER: P332403-935

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6
2.5°	446.4	446.3	446.4	445.8	446.4	446.3	446.4	448.4	448.4	448.5	448.7
5°	415.4	415.3	414.7	412.8	414.7	415.3	415.4	416.0	417.7	420.4	419.7
7.5°	388.3	388.1	386.3	386.3	386.3	388.1	388.3	389.9	391.8	393.5	395.5
10°	372.3	372.5	370.1	368.7	370.1	372.5	372.3	373.7	376.3	377.7	379.1
12.5°	356.7	355.9	353.9	352.3	353.9	355.9	356.7	357.8	361.4	363.0	365.7
15°	336.2	334.2	329.4	329.8	329.4	334.2	336.2	335.4	339.0	341.0	341.8
17.5°	312.0	310.6	310.5	307.6	310.5	310.6	312.0	313.6	316.8	318.9	324.7
20°	297.9	296.9	297.3	294.5	297.3	296.9	297.9	301.1	303.1	305.9	310.6
22.5°	286.8	285.8	284.1	283.3	284.1	285.8	286.8	289.0	291.2	295.2	297.6
25°	270.6	269.0	267.4	268.4	267.4	269.0	270.6	271.8	275.8	277.6	281.2
27.5°	254.4	253.2	251.6	251.4	251.6	253.2	254.4	255.5	257.8	260.8	265.2
30°	244.1	242.9	242.1	241.1	242.1	242.9	244.1	245.1	247.4	250.6	253.7
32.5°	233.7	233.4	232.0	231.8	232.0	233.4	233.7	235.3	237.5	240.6	243.3
35°	220.1	218.9	218.4	218.6	218.4	218.9	220.1	220.8	222.8	225.7	228.3
37.5°	207.1	205.5	204.7	204.1	204.7	205.5	207.1	207.2	209.2	211.1	214.6
40°	197.8	196.2	195.8	195.4	195.8	196.2	197.8	197.6	199.8	201.2	204.4
42.5°	187.4	186.8	186.5	185.7	186.5	186.8	187.4	188.5	189.7	191.7	194.2
45°	173.1	172.9	171.7	172.1	171.7	172.9	173.1	173.7	175.9	177.4	179.5
47.5°	158.1	157.2	156.4	157.0	156.4	157.2	158.1	158.9	160.4	162.1	165.1
50°	147.8	147.4	145.6	146.0	145.6	147.4	147.8	148.6	149.6	151.9	154.5
52.5°	137.6	136.0	135.3	135.1	135.3	136.0	137.6	138.4	139.6	142.1	144.0
55°	120.5	118.7	118.0	117.5	118.0	118.7	120.5	122.0	123.6	126.4	128.4
57.5°	103.8	103.4	102.7	103.1	102.7	103.4	103.8	106.2	107.8	109.9	112.4
60°	94.1	94.1	94.1	93.8	94.1	94.1	94.1	96.1	97.5	99.7	102.3
62.5°	86.5	86.0	85.9	86.2	85.9	86.0	86.5	87.4	88.9	90.2	92.6
65°	75.0	74.8	74.0	73.8	74.0	74.8	75.0	75.6	76.8	77.8	79.5
67.5°	64.1	63.5	63.2	62.9	63.2	63.5	64.1	64.7	65.4	66.7	67.6
70°	56.0	55.5	54.3	54.6	54.3	55.5	56.0	57.0	57.8	59.4	60.2
72.5°	47.2	46.8	46.5	46.2	46.5	46.8	47.2	48.1	48.9	50.7	52.0
75°	37.3	37.1	36.9	37.7	36.9	37.1	37.3	37.5	37.7	38.3	38.9
77.5°	29.9	29.9	30.0	29.7	30.0	29.9	29.9	29.9	29.9	30.2	30.3
80°	25.1	25.1	24.9	24.9	24.9	25.1	25.1	25.1	25.1	25.1	24.9
82.5°	20.1	20.2	20.4	20.1	20.4	20.2	20.1	20.4	20.6	20.2	20.4
85°	13.3	13.0	13.4	13.3	13.4	13.0	13.3	13.3	12.8	13.3	13.0
87.5°	12.3	12.1	12.2	12.5	12.2	12.1	12.3	11.9	11.8	11.5	11.2
90°	32.0	32.5	33.0	33.5	33.0	32.5	32.0	31.5	30.7	29.8	28.8
92.5°	46.0	45.7	45.4	45.1	45.4	45.7	46.0	46.3	46.1	45.3	44.4
95°	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	86.6	85.6	84.6
97.5°	134.3	134.2	134.1	134.0	134.1	134.2	134.3	134.4	133.9	132.8	131.6
100°	168.2	168.8	169.3	169.7	169.3	168.8	168.2	167.7	167.1	166.3	165.7
102.5°	206.6	206.6	206.5	206.4	206.5	206.6	206.6	206.7	206.5	205.7	204.9
105°	264.3	264.8	265.3	265.8	265.3	264.8	264.3	263.8	263.6	263.6	263.6
107.5°	328.6	328.2	328.0	327.6	328.0	328.2	328.6	328.8	328.6	327.8	327.0
110°	371.1	370.7	370.1	369.6	370.1	370.7	371.1	371.6	371.3	370.4	369.4



TEST NUMBER: P332403-935

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	414.6	414.5	414.4	414.3	414.4	414.5	414.6	414.7	414.1	412.9	411.7
115°	476.5	476.2	476.0	475.7	476.0	476.2	476.5	476.7	476.7	476.5	476.2
117.5°	540.1	539.4	538.7	538.0	538.7	539.4	540.1	540.8	541.1	541.2	541.3
120°	583.3	582.8	582.3	581.8	582.3	582.8	583.3	583.8	584.2	584.4	584.6
122.5°	625.9	625.2	624.5	623.8	624.5	625.2	625.9	626.5	627.2	627.8	628.5
125°	689.7	688.7	687.8	686.7	687.8	688.7	689.7	690.8	691.7	692.8	693.7
127.5°	752.9	751.8	750.7	749.5	750.7	751.8	752.9	754.1	755.4	756.7	758.1
130°	795.8	794.1	792.4	790.7	792.4	794.1	795.8	797.5	798.9	800.0	800.9
132.5°	837.5	836.2	834.8	833.5	834.8	836.2	837.5	838.9	840.2	841.3	842.5
135°	901.6	901.0	900.5	900.1	900.5	901.0	901.6	902.1	902.8	903.8	904.7
137.5°	961.7	960.7	959.8	958.8	959.8	960.7	961.7	962.6	963.5	964.6	965.6
140°	1002.5	1000.7	998.9	997.2	998.9	1000.7	1002.5	1004.2	1005.1	1005.4	1005.6
142.5°	1040.5	1039.2	1037.8	1036.6	1037.8	1039.2	1040.5	1041.9	1042.7	1042.9	1043.2
145°	1096.2	1095.2	1094.2	1093.2	1094.2	1095.2	1096.2	1097.3	1097.9	1098.1	1098.3
147.5°	1148.2	1146.7	1145.2	1143.8	1145.2	1146.7	1148.2	1149.7	1150.4	1150.4	1150.4
150°	1180.3	1178.9	1177.3	1175.9	1177.3	1178.9	1180.3	1181.8	1182.6	1182.6	1182.6
152.5°	1211.0	1209.7	1208.4	1207.1	1208.4	1209.7	1211.0	1212.3	1212.7	1212.4	1211.9
155°	1254.8	1253.1	1251.3	1249.6	1251.3	1253.1	1254.8	1256.5	1256.9	1255.9	1254.9
157.5°	1292.4	1291.0	1289.6	1288.2	1289.6	1291.0	1292.4	1293.7	1294.0	1292.9	1291.8
160°	1316.2	1315.3	1314.2	1313.2	1314.2	1315.3	1316.2	1317.2	1317.1	1315.9	1314.6
162.5°	1336.8	1335.2	1333.6	1332.0	1333.6	1335.2	1336.8	1338.3	1338.5	1337.3	1336.0
165°	1364.3	1362.5	1360.7	1359.0	1360.7	1362.5	1364.3	1366.0	1366.1	1364.6	1363.1
167.5°	1386.6	1385.1	1383.5	1382.0	1383.5	1385.1	1386.6	1388.2	1388.2	1386.6	1385.1
170°	1398.9	1397.1	1395.3	1393.6	1395.3	1397.1	1398.9	1400.6	1400.6	1398.9	1397.1
172.5°	1407.8	1406.0	1404.3	1402.6	1404.3	1406.0	1407.8	1409.5	1409.6	1408.1	1406.5
175°	1417.8	1416.1	1414.4	1412.6	1414.4	1416.1	1417.8	1419.5	1419.7	1418.2	1416.7
177.5°	1422.1	1420.7	1419.4	1418.0	1419.4	1420.7	1422.1	1423.6	1423.7	1422.5	1421.3
180°	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6
2.5°	447.3	449.5	451.8	453.8	457.0	458.5	460.5	461.4	463.7	467.3	470.2
5°	420.1	423.3	427.5	430.8	436.3	440.5	445.1	449.5	454.8	462.2	468.8
7.5°	397.0	400.1	405.2	411.6	417.5	423.5	429.8	435.8	443.2	453.9	464.4
10°	381.8	385.6	391.6	398.4	405.8	411.6	419.0	426.6	435.9	448.2	460.8
12.5°	368.6	371.4	378.4	384.9	393.3	400.7	407.9	416.9	427.4	440.4	455.6
15°	347.7	351.6	358.4	365.7	374.5	382.4	391.8	402.6	412.8	428.9	447.3
17.5°	326.6	332.7	339.8	347.9	354.5	365.3	375.5	386.6	399.2	416.2	436.5
20°	313.1	318.0	324.6	336.4	345.0	353.3	362.7	376.5	388.1	407.4	428.4
22.5°	301.7	305.2	312.7	322.4	332.5	342.0	351.6	364.8	379.2	397.4	420.3
25°	284.8	290.5	296.1	303.1	313.9	325.4	335.8	347.1	362.3	381.8	406.4
27.5°	268.4	273.5	279.0	287.6	295.8	306.5	317.5	330.3	346.6	367.2	392.3
30°	257.8	261.6	266.8	277.8	285.2	294.5	307.3	318.7	334.0	355.9	382.4
32.5°	246.8	251.8	257.5	266.0	275.2	283.9	295.6	308.0	323.6	345.1	372.2
35°	231.3	237.1	242.9	249.2	258.4	267.4	277.2	290.8	306.7	327.6	354.2
37.5°	217.0	221.6	226.4	234.1	242.8	251.4	260.6	274.1	289.0	311.5	336.0
40°	207.8	212.1	215.7	223.7	232.1	241.3	250.4	262.2	278.2	299.3	323.0
42.5°	197.9	201.7	206.6	213.3	222.3	230.1	239.1	250.3	265.4	286.8	307.5
45°	183.0	187.4	191.6	197.8	206.8	214.5	222.5	233.1	248.6	266.2	284.6
47.5°	167.4	171.9	176.7	182.7	190.5	198.3	206.3	215.7	229.8	247.1	259.6
50°	157.5	161.1	165.9	171.9	179.2	187.4	194.6	204.8	218.3	231.9	242.7
52.5°	147.2	150.5	155.9	162.3	169.0	176.2	183.8	192.6	204.7	217.6	226.2
55°	131.2	135.2	139.8	146.0	152.7	158.7	166.1	175.1	184.8	194.4	200.2
57.5°	116.2	119.6	123.5	129.8	135.6	142.8	149.5	156.4	165.4	172.6	176.4
60°	105.3	108.3	113.3	119.0	124.3	130.6	138.2	145.3	152.1	157.9	160.8
62.5°	95.1	98.5	102.9	108.1	113.9	119.9	126.5	132.4	138.4	143.4	145.5
65°	81.6	84.5	87.6	92.5	97.3	103.3	108.5	114.5	119.0	121.7	123.6
67.5°	69.5	71.3	73.7	77.0	81.7	87.0	92.0	96.7	100.4	102.3	103.9
70°	61.6	62.8	64.6	67.8	71.4	76.0	81.3	84.6	87.8	89.5	91.1
72.5°	53.7	55.3	56.9	59.5	62.4	65.8	69.6	73.7	75.5	77.4	78.4
75°	40.7	43.0	45.1	46.8	48.7	51.3	54.8	57.3	58.4	60.0	60.2
77.5°	30.7	31.3	32.8	34.8	36.5	38.4	40.6	42.9	43.4	44.2	44.8
80°	25.3	25.3	25.3	26.5	28.5	29.9	31.9	33.1	33.9	34.1	34.3
82.5°	20.3	20.3	20.1	20.4	21.1	21.9	23.7	25.1	25.7	25.6	25.1
85°	13.3	12.8	12.8	12.7	12.8	12.4	12.2	13.0	14.2	14.2	13.9
87.5°	11.0	10.7	10.2	9.4	8.5	7.7	6.7	6.4	5.9	6.0	5.3
90°	27.8	26.8	23.6	20.3	17.1	13.9	11.0	8.5	6.1	3.6	1.1
92.5°	43.7	42.9	41.1	39.2	37.4	35.6	33.8	32.1	30.4	28.7	27.0
95°	83.6	82.7	80.7	78.7	76.7	74.7	72.8	71.1	69.4	67.6	65.9
97.5°	130.4	129.3	127.9	126.4	125.0	123.6	122.2	120.9	119.6	118.3	117.0
100°	164.9	164.2	162.9	161.7	160.4	159.2	157.8	156.4	154.8	153.3	151.9
102.5°	204.2	203.5	201.8	200.2	198.5	196.9	195.6	194.8	193.9	193.0	192.1
105°	263.6	263.6	261.3	259.1	256.8	254.6	253.2	252.7	252.3	251.8	251.2
107.5°	326.2	325.4	324.5	323.6	322.7	321.8	321.2	321.0	320.6	320.4	320.0
110°	368.4	367.4	366.9	366.4	365.9	365.4	364.9	364.4	363.9	363.4	362.9



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	410.6	409.4	409.3	409.1	409.1	409.0	408.8	408.5	408.2	407.9	407.6
115°	476.0	475.7	476.2	476.7	477.2	477.7	477.6	476.8	476.0	475.4	474.6
117.5°	541.3	541.4	542.0	542.7	543.3	544.0	544.1	543.5	543.0	542.5	542.1
120°	584.9	585.1	586.4	587.6	588.8	590.1	590.0	588.5	587.0	585.5	584.0
122.5°	629.1	629.8	630.4	631.1	631.7	632.4	632.1	631.1	630.0	628.9	627.8
125°	694.7	695.7	696.2	696.7	697.2	697.7	697.6	696.8	696.0	695.3	694.6
127.5°	759.5	761.0	761.5	762.0	762.6	763.1	762.6	761.0	759.4	757.9	756.2
130°	801.9	802.9	803.7	804.4	805.1	805.9	805.3	803.3	801.3	799.3	797.3
132.5°	843.7	844.9	845.4	846.0	846.5	847.1	846.4	844.4	842.4	840.4	838.4
135°	905.8	906.7	907.0	907.2	907.5	907.8	907.1	905.6	904.1	902.7	901.2
137.5°	966.6	967.8	967.1	966.5	965.8	965.2	964.2	962.9	961.7	960.4	959.2
140°	1005.9	1006.2	1005.9	1005.6	1005.4	1005.1	1004.4	1003.2	1001.9	1000.7	999.4
142.5°	1043.4	1043.7	1043.2	1042.8	1042.3	1041.9	1041.0	1039.8	1038.5	1037.3	1036.0
145°	1098.5	1098.8	1098.1	1097.3	1096.6	1095.9	1095.2	1094.8	1094.2	1093.7	1093.2
147.5°	1150.4	1150.4	1149.7	1149.0	1148.3	1147.6	1146.9	1146.0	1145.0	1144.2	1143.2
150°	1182.6	1182.6	1182.1	1181.6	1181.1	1180.6	1180.1	1179.6	1179.1	1178.6	1178.1
152.5°	1211.6	1211.2	1210.9	1210.6	1210.3	1210.0	1209.4	1208.8	1208.1	1207.4	1206.7
155°	1254.0	1252.9	1252.7	1252.4	1252.2	1252.0	1251.8	1251.8	1251.8	1251.8	1251.8
157.5°	1290.8	1289.8	1289.6	1289.3	1289.2	1289.0	1289.0	1289.3	1289.6	1290.0	1290.2
160°	1313.4	1312.1	1312.1	1312.1	1312.1	1312.1	1312.3	1312.9	1313.4	1313.9	1314.3
162.5°	1334.8	1333.5	1333.3	1333.2	1333.0	1332.7	1333.0	1333.7	1334.4	1335.1	1335.8
165°	1361.6	1360.1	1360.1	1360.1	1360.1	1360.1	1360.6	1361.2	1362.0	1362.7	1363.5
167.5°	1383.5	1382.0	1381.8	1381.6	1381.4	1381.2	1381.6	1382.6	1383.6	1384.6	1385.6
170°	1395.3	1393.6	1393.6	1393.6	1393.6	1393.6	1394.1	1395.2	1396.1	1397.1	1398.1
172.5°	1405.0	1403.4	1403.4	1403.4	1403.4	1403.4	1403.9	1405.0	1405.9	1407.0	1407.9
175°	1415.2	1413.8	1413.8	1413.8	1413.8	1413.8	1414.2	1415.2	1416.3	1417.2	1418.2
177.5°	1420.0	1418.8	1418.8	1418.8	1418.8	1418.8	1419.3	1420.0	1420.8	1421.7	1422.5
180°	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6
2.5°	471.1	472.9	475.2	478.5	481.1	483.4	483.8	484.5	486.1	488.8	490.9
5°	474.2	478.8	486.2	493.4	501.3	507.7	513.8	518.0	521.9	530.4	537.2
7.5°	473.2	483.5	495.2	508.1	521.2	533.9	545.7	556.3	566.8	579.1	593.1
10°	472.6	484.7	500.3	516.9	535.2	553.0	570.3	583.8	599.3	613.5	631.3
12.5°	469.6	486.9	505.6	526.8	549.3	569.9	592.6	611.1	629.0	649.4	670.1
15°	465.5	486.6	510.3	538.6	572.7	597.5	620.9	653.2	675.2	697.2	726.9
17.5°	458.3	484.1	513.6	550.4	578.8	612.3	647.2	672.8	702.5	733.6	760.4
20°	452.5	482.4	515.6	551.6	588.0	624.2	658.1	688.6	719.4	755.3	777.3
22.5°	446.8	476.3	510.7	549.1	588.1	626.4	664.7	700.5	735.0	771.3	799.4
25°	434.5	469.6	506.9	546.0	584.5	626.6	672.4	712.3	755.0	792.4	819.1
27.5°	422.1	454.3	491.4	531.1	573.9	623.6	677.4	722.8	765.6	792.4	800.7
30°	410.8	444.9	479.1	519.4	565.7	621.2	678.4	730.4	765.4	777.1	768.4
32.5°	399.4	430.3	464.1	505.4	554.6	615.3	679.7	725.9	747.0	738.1	703.0
35°	379.4	407.2	439.9	481.2	537.8	612.0	674.4	705.7	700.5	650.3	584.1
37.5°	357.8	380.6	410.8	454.0	520.4	599.0	651.6	656.3	611.1	534.1	457.6
40°	340.8	361.3	392.4	437.5	506.9	586.2	628.7	610.0	540.0	454.3	390.5
42.5°	324.3	341.6	371.5	420.2	494.0	568.6	594.5	553.9	473.1	392.1	334.1
45°	296.3	312.5	342.6	392.5	467.8	535.2	531.8	461.2	380.3	315.1	267.0
47.5°	269.8	284.0	312.2	363.2	437.0	485.0	453.1	378.0	309.4	257.1	222.7
50°	251.0	265.0	293.1	343.5	412.2	447.3	401.8	329.4	266.6	223.3	196.0
52.5°	233.0	246.7	272.3	321.4	382.4	403.4	354.5	287.3	235.0	197.6	174.2
55°	207.8	218.3	241.3	288.3	333.8	338.6	289.0	232.9	189.8	163.7	147.7
57.5°	182.2	191.1	214.0	251.3	283.3	280.8	233.8	185.2	156.2	136.8	125.2
60°	165.5	174.4	194.4	226.4	250.6	242.1	199.0	159.9	135.0	120.8	111.5
62.5°	149.9	156.8	175.6	199.1	216.4	206.8	170.1	137.8	118.0	106.0	98.7
65°	127.3	133.0	148.0	160.3	169.9	160.7	130.2	107.7	93.5	85.1	80.1
67.5°	106.0	109.5	119.0	123.5	130.3	120.1	97.9	82.8	74.7	67.7	64.1
70°	92.5	95.1	100.1	103.8	105.5	95.1	78.6	67.6	60.8	55.8	53.6
72.5°	79.0	81.3	82.3	85.2	84.3	74.6	63.2	54.4	49.5	46.1	43.3
75°	60.4	61.4	60.4	59.2	56.6	49.8	41.9	37.5	33.9	32.3	31.3
77.5°	44.0	43.7	42.4	40.5	36.0	31.7	27.5	26.0	24.5	23.6	23.2
80°	33.9	33.1	31.9	28.8	25.1	22.0	21.1	20.1	19.5	18.4	18.3
82.5°	25.2	24.7	22.7	20.2	17.6	16.1	15.3	14.9	14.3	13.8	13.8
85°	13.4	12.8	10.6	9.2	8.9	8.4	8.3	8.3	7.4	7.2	7.2
87.5°	5.1	4.6	4.9	4.9	5.5	5.9	6.6	7.0	7.4	7.8	7.7
90°	3.6	6.1	8.5	11.0	13.9	17.1	20.3	23.6	26.8	27.8	28.8
92.5°	28.7	30.4	32.1	33.8	35.6	37.4	39.2	41.1	42.9	43.7	44.4
95°	67.6	69.4	71.1	72.8	74.7	76.7	78.7	80.7	82.7	83.6	84.6
97.5°	118.3	119.6	120.9	122.2	123.6	125.0	126.4	127.9	129.3	130.4	131.6
100°	153.3	154.8	156.4	157.8	159.2	160.4	161.7	162.9	164.2	164.9	165.7
102.5°	193.0	193.9	194.8	195.6	196.9	198.5	200.2	201.8	203.5	204.2	204.9
105°	251.8	252.3	252.7	253.2	254.6	256.8	259.1	261.3	263.6	263.6	263.6
107.5°	320.4	320.6	321.0	321.2	321.8	322.7	323.6	324.5	325.4	326.2	327.0
110°	363.4	363.9	364.4	364.9	365.4	365.9	366.4	366.9	367.4	368.4	369.4





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	407.9	408.2	408.5	408.8	409.0	409.1	409.1	409.3	409.4	410.6	411.7
115°	475.4	476.0	476.8	477.6	477.7	477.2	476.7	476.2	475.7	476.0	476.2
117.5°	542.5	543.0	543.5	544.1	544.0	543.3	542.7	542.0	541.4	541.3	541.3
120°	585.5	587.0	588.5	590.0	590.1	588.8	587.6	586.4	585.1	584.9	584.6
122.5°	628.9	630.0	631.1	632.1	632.4	631.7	631.1	630.4	629.8	629.1	628.5
125°	695.3	696.0	696.8	697.6	697.7	697.2	696.7	696.2	695.7	694.7	693.7
127.5°	757.9	759.4	761.0	762.6	763.1	762.6	762.0	761.5	761.0	759.5	758.1
130°	799.3	801.3	803.3	805.3	805.9	805.1	804.4	803.7	802.9	801.9	800.9
132.5°	840.4	842.4	844.4	846.4	847.1	846.5	846.0	845.4	844.9	843.7	842.5
135°	902.7	904.1	905.6	907.1	907.8	907.5	907.2	907.0	906.7	905.8	904.7
137.5°	960.4	961.7	962.9	964.2	965.2	965.8	966.5	967.1	967.8	966.6	965.6
140°	1000.7	1001.9	1003.2	1004.4	1005.1	1005.4	1005.6	1005.9	1006.2	1005.9	1005.6
142.5°	1037.3	1038.5	1039.8	1041.0	1041.9	1042.3	1042.8	1043.2	1043.7	1043.4	1043.2
145°	1093.7	1094.2	1094.8	1095.2	1095.9	1096.6	1097.3	1098.1	1098.8	1098.5	1098.3
147.5°	1144.2	1145.0	1146.0	1146.9	1147.6	1148.3	1149.0	1149.7	1150.4	1150.4	1150.4
150°	1178.6	1179.1	1179.6	1180.1	1180.6	1181.1	1181.6	1182.1	1182.6	1182.6	1182.6
152.5°	1207.4	1208.1	1208.8	1209.4	1210.0	1210.3	1210.6	1210.9	1211.2	1211.6	1211.9
155°	1251.8	1251.8	1251.8	1251.8	1252.0	1252.2	1252.4	1252.7	1252.9	1254.0	1254.9
157.5°	1290.0	1289.6	1289.3	1289.0	1289.0	1289.2	1289.3	1289.6	1289.8	1290.8	1291.8
160°	1313.9	1313.4	1312.9	1312.3	1312.1	1312.1	1312.1	1312.1	1312.1	1313.4	1314.6
162.5°	1335.1	1334.4	1333.7	1333.0	1332.7	1333.0	1333.2	1333.3	1333.5	1334.8	1336.0
165°	1362.7	1362.0	1361.2	1360.6	1360.1	1360.1	1360.1	1360.1	1360.1	1361.6	1363.1
167.5°	1384.6	1383.6	1382.6	1381.6	1381.2	1381.4	1381.6	1381.8	1382.0	1383.5	1385.1
170°	1397.1	1396.1	1395.2	1394.1	1393.6	1393.6	1393.6	1393.6	1393.6	1395.3	1397.1
172.5°	1407.0	1405.9	1405.0	1403.9	1403.4	1403.4	1403.4	1403.4	1403.4	1405.0	1406.5
175°	1417.2	1416.3	1415.2	1414.2	1413.8	1413.8	1413.8	1413.8	1413.8	1415.2	1416.7
177.5°	1421.7	1420.8	1420.0	1419.3	1418.8	1418.8	1418.8	1418.8	1418.8	1420.0	1421.3
180°	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	468.6	468.6	468.6	468.6	468.6	468.6	468.6
2.5°	494.3	494.3	494.9	497.3	497.7	499.7	499.1
5°	543.2	547.0	548.5	554.5	558.0	559.6	556.5
7.5°	603.0	613.8	618.9	625.3	630.8	632.5	628.1
10°	646.7	658.0	667.4	673.2	678.6	682.3	686.8
12.5°	688.9	702.7	711.7	719.9	725.5	730.0	730.8
15°	734.8	755.6	771.5	783.2	788.9	791.9	790.7
17.5°	781.0	800.4	811.7	823.5	831.6	832.0	832.2
20°	807.2	826.0	839.1	847.9	857.0	856.5	858.6
22.5°	824.7	839.6	849.5	855.9	859.0	857.5	857.9
25°	832.8	837.3	835.5	825.3	822.6	813.2	814.9
27.5°	790.7	769.8	748.2	720.5	698.5	681.1	681.9
30°	733.4	696.5	654.4	619.1	587.4	578.5	559.6
32.5°	653.3	598.0	548.6	515.7	488.5	481.1	464.7
35°	517.5	463.7	413.0	382.5	370.5	353.6	353.4
37.5°	402.3	354.9	328.1	305.2	293.3	283.0	282.1
40°	338.4	301.5	281.2	264.8	253.0	245.3	243.5
42.5°	293.8	264.0	245.0	234.8	225.7	221.7	218.8
45°	239.9	219.8	206.6	197.4	193.2	190.2	188.6
47.5°	200.7	187.3	178.2	172.0	168.7	165.5	166.3
50°	179.3	168.3	161.7	155.8	153.3	151.0	151.3
52.5°	162.1	152.2	146.9	142.7	139.5	137.8	137.2
55°	137.6	131.4	126.0	123.0	121.1	119.0	118.4
57.5°	117.4	112.5	108.1	104.8	104.3	102.2	102.5
60°	103.9	99.9	96.3	94.5	93.1	91.3	91.9
62.5°	92.8	89.5	86.2	84.7	83.3	82.0	82.2
65°	76.0	72.8	70.8	70.0	69.4	68.8	68.2
67.5°	60.6	58.6	57.3	55.6	54.4	54.2	53.6
70°	51.0	48.3	46.1	43.9	43.3	43.1	43.3
72.5°	40.8	39.2	38.6	37.5	37.4	36.9	37.2
75°	30.7	30.0	29.7	28.8	28.8	28.8	28.8
77.5°	22.6	22.3	22.0	21.9	21.7	21.4	21.4
80°	17.7	17.5	17.0	17.0	16.9	17.0	16.9
82.5°	13.3	13.3	12.9	12.9	12.7	12.6	12.7
85°	6.8	6.6	7.1	6.6	6.8	6.5	6.8
87.5°	7.9	8.1	8.1	8.2	8.1	8.5	8.3
90°	29.8	30.7	31.5	32.0	32.5	33.0	33.5
92.5°	45.3	46.1	46.3	46.0	45.7	45.4	45.1
95°	85.6	86.6	87.1	87.1	87.1	87.1	87.1
97.5°	132.8	133.9	134.4	134.3	134.2	134.1	134.0
100°	166.3	167.1	167.7	168.2	168.8	169.3	169.7
102.5°	205.7	206.5	206.7	206.6	206.6	206.5	206.4
105°	263.6	263.6	263.8	264.3	264.8	265.3	265.8
107.5°	327.8	328.6	328.8	328.6	328.2	328.0	327.6
110°	370.4	371.3	371.6	371.1	370.7	370.1	369.6



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	412.9	414.1	414.7	414.6	414.5	414.4	414.3
115°	476.5	476.7	476.7	476.5	476.2	476.0	475.7
117.5°	541.2	541.1	540.8	540.1	539.4	538.7	538.0
120°	584.4	584.2	583.8	583.3	582.8	582.3	581.8
122.5°	627.8	627.2	626.5	625.9	625.2	624.5	623.8
125°	692.8	691.7	690.8	689.7	688.7	687.8	686.7
127.5°	756.7	755.4	754.1	752.9	751.8	750.7	749.5
130°	800.0	798.9	797.5	795.8	794.1	792.4	790.7
132.5°	841.3	840.2	838.9	837.5	836.2	834.8	833.5
135°	903.8	902.8	902.1	901.6	901.0	900.5	900.1
137.5°	964.6	963.5	962.6	961.7	960.7	959.8	958.8
140°	1005.4	1005.1	1004.2	1002.5	1000.7	998.9	997.2
142.5°	1042.9	1042.7	1041.9	1040.5	1039.2	1037.8	1036.6
145°	1098.1	1097.9	1097.3	1096.2	1095.2	1094.2	1093.2
147.5°	1150.4	1150.4	1149.7	1148.2	1146.7	1145.2	1143.8
150°	1182.6	1182.6	1181.8	1180.3	1178.9	1177.3	1175.9
152.5°	1212.4	1212.7	1212.3	1211.0	1209.7	1208.4	1207.1
155°	1255.9	1256.9	1256.5	1254.8	1253.1	1251.3	1249.6
157.5°	1292.9	1294.0	1293.7	1292.4	1291.0	1289.6	1288.2
160°	1315.9	1317.1	1317.2	1316.2	1315.3	1314.2	1313.2
162.5°	1337.3	1338.5	1338.3	1336.8	1335.2	1333.6	1332.0
165°	1364.6	1366.1	1366.0	1364.3	1362.5	1360.7	1359.0
167.5°	1386.6	1388.2	1388.2	1386.6	1385.1	1383.5	1382.0
170°	1398.9	1400.6	1400.6	1398.9	1397.1	1395.3	1393.6
172.5°	1408.1	1409.6	1409.5	1407.8	1406.0	1404.3	1402.6
175°	1418.2	1419.7	1419.5	1417.8	1416.1	1414.4	1412.6
177.5°	1422.5	1423.7	1423.6	1422.1	1420.7	1419.4	1418.0
180°	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6

(END OF REPORT)