

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: P332288-930

Luminaire Tested: **S123RDIP-S560D1025U930-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332288-930  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123RDIP-S560D1025U930-4F0-1E-UDD-A  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1025 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5159.7 lumens  
Efficiency: N/A  
Efficacy: 115.9 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

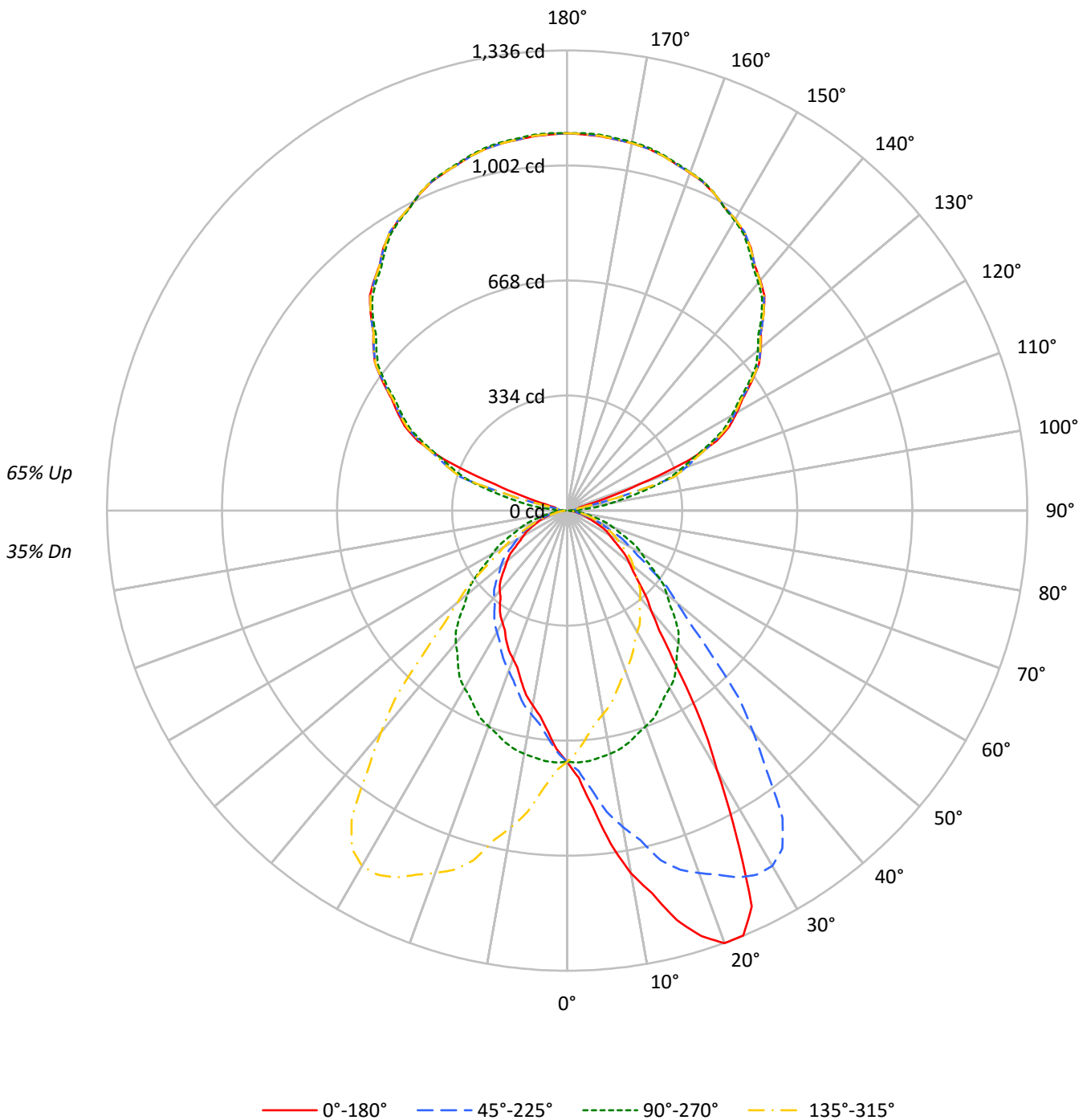
Input Watts (W): 44.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	104	104	104	104	94	94	94	94	75	75	75	58	58	58	43	43	43	35
1	95	91	87	84	86	82	79	76	66	64	62	52	50	49	38	37	37	31
2	87	80	74	69	78	72	68	63	59	55	52	46	44	42	34	33	32	26
3	79	70	63	58	72	64	58	53	52	48	44	41	38	36	31	29	27	23
4	73	62	55	49	66	57	50	46	46	42	38	37	33	31	28	26	24	20
5	67	56	48	42	60	51	44	39	42	37	33	33	30	27	25	23	21	17
6	62	50	42	37	56	46	39	34	38	33	29	30	26	24	23	20	19	16
7	57	45	38	32	51	41	35	30	34	29	25	27	24	21	21	18	17	14
8	53	41	34	29	48	38	31	27	31	26	23	25	21	19	19	17	15	13
9	49	37	30	25	45	34	28	24	28	24	20	23	19	17	18	15	14	11
10	46	34	27	23	42	32	25	21	26	22	18	21	18	15	17	14	12	10

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

	0°	90°	180°	270°
0°	7851	7851	7851	7851
5°	9360	7886	6944	7886
10°	11687	7840	6274	7840
15°	13718	7759	5721	7759
20°	15309	7640	5251	7640
25°	15064	7514	4962	7514
30°	10828	7398	4666	7398
35°	7230	7247	4473	7247
40°	5327	7065	4274	7065
45°	4468	6745	4078	6745
50°	3944	6328	3806	6328
55°	3459	5849	3434	5849
60°	3078	5393	3147	5393
65°	2705	4898	2929	4898
70°	2121	4463	2675	4463
75°	1871	3897	2441	3897
80°	1630	3310	2399	3310
85°	1309	2655	2544	2655



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.7	1.4
10°-20°	224.1	4.3
20°-30°	352.1	6.8
30°-40°	367.3	7.1
40°-50°	314.4	6.1
50°-60°	239.6	4.6
60°-70°	153.6	3.0
70°-80°	73.9	1.4
80°-90°	22.6	0.4
90°-100°	39.8	0.8
100°-110°	189.8	3.7
110°-120°	455.9	8.8
120°-130°	580.5	11.3
130°-140°	620.3	12.0
140°-150°	580.0	11.2
150°-160°	467.9	9.1
160°-170°	302.0	5.9
170°-180°	104.1	2.0
0°-30°	647.9	12.6
0°-40°	1015.3	19.7
0°-60°	1569.3	30.4
0°-90°	1819.4	35.3
90°-120°	685.5	13.3
90°-150°	2466.4	47.8
90°-180°	3340.0	64.7
0°-180°	5159.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	729	729	729	729	729	
5°	866	730	643	730	866	89
15°	1231	696	513	696	1231	349
25°	1268	633	418	633	1268	545
35°	550	552	340	552	550	361
45°	294	443	268	443	294	231
55°	184	312	183	312	184	167
65°	106	192	115	192	106	104
75°	45	94	59	94	45	48
85°	11	22	21	22	11	13
90°	24	1	24	1	24	11
95°	31	50	31	50	31	26
105°	36	242	36	242	36	82
115°	478	455	478	455	478	442
125°	654	641	654	641	654	584
135°	806	798	806	798	806	622
145°	930	921	930	921	930	581
155°	1013	1015	1013	1015	1013	467
165°	1068	1070	1068	1070	1068	301
175°	1091	1095	1091	1095	1091	104
180°	1095	1095	1095	1095	1095	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4
2.5°	776.9	778.0	774.7	774.2	770.5	769.5	769.5	764.2	760.9	756.7	754.2
5°	866.3	871.2	868.8	863.2	853.8	851.6	845.6	836.3	825.7	812.5	806.3
7.5°	977.8	984.6	981.9	973.3	963.5	955.5	938.8	923.2	901.5	882.4	866.0
10°	1069.3	1062.0	1056.5	1048.0	1038.9	1024.3	1006.8	982.8	955.0	933.1	908.7
12.5°	1137.7	1136.5	1129.4	1120.7	1107.9	1094.0	1072.4	1043.2	1010.9	979.3	951.5
15°	1231.0	1232.9	1228.2	1219.1	1201.0	1176.3	1143.9	1131.7	1085.5	1051.1	1016.8
17.5°	1295.6	1295.2	1294.5	1282.0	1263.6	1245.9	1215.9	1183.8	1142.0	1093.6	1047.3
20°	1336.5	1333.4	1334.1	1320.0	1306.3	1286.0	1256.6	1210.1	1175.7	1119.8	1072.0
22.5°	1335.5	1334.9	1337.3	1332.4	1322.5	1306.9	1283.9	1244.6	1200.7	1144.3	1090.5
25°	1268.4	1266.0	1280.7	1284.7	1300.6	1303.4	1296.6	1275.0	1233.5	1175.4	1108.9
27.5°	1061.6	1060.2	1087.4	1121.5	1164.8	1198.4	1230.9	1246.5	1233.5	1191.9	1125.3
30°	871.2	900.6	914.4	963.7	1018.6	1084.2	1141.7	1196.3	1209.7	1191.6	1137.0
32.5°	723.3	748.9	760.4	802.8	854.0	930.8	1017.0	1094.4	1149.1	1162.9	1130.0
35°	550.2	550.6	576.7	595.5	642.9	721.9	805.7	909.3	1012.4	1090.5	1098.6
37.5°	439.0	440.6	456.5	475.2	510.8	552.5	626.2	712.4	831.4	951.3	1021.6
40°	379.1	381.9	393.8	412.2	437.8	469.4	526.8	608.0	707.3	840.7	949.7
42.5°	340.6	345.2	351.3	365.5	381.3	410.9	457.4	520.1	610.3	736.5	862.2
45°	293.5	296.0	300.7	307.3	321.6	342.3	373.5	415.6	490.6	592.1	718.0
47.5°	258.9	257.6	262.5	267.9	277.4	291.5	312.4	346.8	400.3	481.7	588.5
50°	235.5	235.1	238.6	242.6	251.7	262.0	279.2	305.1	347.6	415.0	512.7
52.5°	213.4	214.7	217.1	222.2	228.7	237.0	252.4	271.1	307.6	365.8	447.3
55°	184.3	185.2	188.6	191.4	196.1	204.6	214.3	229.8	254.8	295.4	362.6
57.5°	159.5	159.1	162.4	163.1	168.4	175.2	182.7	194.9	213.0	243.1	288.4
60°	143.0	142.1	144.9	147.1	149.9	155.5	161.8	173.7	188.0	210.2	248.9
62.5°	128.0	127.6	129.6	131.8	134.1	139.3	144.6	153.6	165.0	183.7	214.4
65°	106.2	107.1	108.0	109.0	110.2	113.3	118.4	124.6	132.4	145.5	167.7
67.5°	83.4	84.4	84.7	86.6	89.3	91.2	94.3	99.9	105.3	116.3	129.0
70°	67.4	67.1	67.4	68.4	71.8	75.3	79.3	83.4	86.8	94.7	105.3
72.5°	58.0	57.4	58.2	58.4	60.1	61.0	63.6	67.4	71.8	77.1	84.8
75°	45.0	45.0	45.0	45.0	46.2	46.9	47.8	48.8	50.3	52.7	58.4
77.5°	33.3	33.3	33.8	34.0	34.3	34.7	35.2	36.2	36.7	38.1	40.4
80°	26.3	26.6	26.3	26.6	26.6	27.1	27.5	28.5	28.7	30.3	31.2
82.5°	19.7	19.6	19.7	20.1	20.1	20.7	20.7	21.4	21.5	22.3	23.2
85°	10.6	10.0	10.6	10.3	10.9	10.3	10.6	11.3	11.3	11.6	12.8
87.5°	7.4	7.8	7.3	7.4	7.3	7.5	7.3	7.2	7.6	7.2	6.9
90°	24.4	24.1	23.7	23.3	23.0	22.4	21.7	21.0	20.2	19.6	17.2
92.5°	27.0	26.8	26.6	26.3	26.2	25.4	24.3	23.2	22.0	20.9	19.1
95°	30.9	30.9	30.9	30.9	30.9	30.3	29.0	27.7	26.5	25.2	23.2
97.5°	33.5	33.3	33.2	33.0	32.8	32.0	30.6	29.1	27.6	26.2	39.2
100°	34.2	34.0	33.8	33.7	33.4	32.6	31.2	29.8	28.3	26.8	55.0
102.5°	34.8	34.5	34.2	33.8	33.5	35.6	40.1	44.6	49.1	53.6	84.4
105°	35.8	35.5	35.1	34.7	34.3	50.2	82.2	114.2	146.2	178.2	194.5
107.5°	112.4	136.6	160.7	184.8	209.0	232.8	256.2	279.7	303.2	326.7	324.1
110°	223.8	249.6	275.5	301.3	327.3	343.2	349.1	355.1	361.0	367.0	365.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	383.9	389.4	394.8	400.3	405.8	408.5	408.4	408.2	408.1	408.1	406.0
115°	478.5	477.8	477.0	476.3	475.6	474.3	472.5	470.8	469.0	467.1	465.5
117.5°	531.6	531.4	531.2	531.2	531.0	530.2	528.7	527.3	525.9	524.4	523.6
120°	568.0	568.0	568.0	568.0	568.0	567.3	565.8	564.4	563.0	561.5	561.0
122.5°	603.8	603.6	603.6	603.4	603.2	602.7	601.7	600.6	599.7	598.6	597.9
125°	654.3	654.0	653.5	653.2	652.8	652.5	652.1	651.8	651.4	651.0	650.3
127.5°	702.8	703.1	703.5	703.8	704.3	704.1	703.5	703.0	702.4	701.8	700.9
130°	734.0	734.4	734.7	735.2	735.5	735.3	734.6	733.9	733.1	732.4	731.6
132.5°	762.7	763.2	763.7	764.2	764.7	764.6	763.9	763.1	762.5	761.7	761.2
135°	806.5	807.0	807.6	808.1	808.6	808.6	808.1	807.6	807.0	806.5	805.8
137.5°	847.7	848.0	848.4	848.7	849.1	848.8	848.0	847.1	846.2	845.4	845.0
140°	872.4	872.8	873.1	873.4	873.8	873.7	872.9	872.2	871.5	870.7	870.3
142.5°	895.2	895.7	896.2	896.7	897.2	897.2	896.6	896.0	895.4	894.9	894.3
145°	930.2	930.2	930.2	930.2	930.2	930.0	929.6	929.3	928.9	928.5	928.1
147.5°	956.2	957.0	957.9	958.7	959.5	959.8	959.4	959.0	958.7	958.3	958.0
150°	975.8	976.2	976.8	977.4	977.9	978.0	977.6	977.3	976.9	976.6	976.2
152.5°	991.3	992.2	993.0	993.8	994.7	994.7	994.1	993.4	992.8	992.1	992.0
155°	1013.2	1014.2	1015.4	1016.4	1017.5	1017.6	1016.7	1015.8	1014.9	1014.0	1013.8
157.5°	1031.6	1033.0	1034.4	1035.8	1037.2	1037.4	1036.2	1035.2	1034.1	1033.0	1033.2
160°	1043.3	1044.6	1045.8	1047.1	1048.3	1048.4	1047.3	1046.3	1045.2	1044.1	1044.2
162.5°	1054.3	1055.5	1056.5	1057.7	1058.8	1058.7	1057.5	1056.3	1055.1	1053.9	1054.0
165°	1067.7	1068.9	1070.2	1071.5	1072.8	1072.7	1071.2	1069.8	1068.3	1066.9	1067.1
167.5°	1077.3	1078.7	1080.2	1081.7	1083.0	1083.0	1081.7	1080.2	1078.7	1077.3	1077.3
170°	1083.1	1084.6	1086.1	1087.5	1088.9	1088.9	1087.5	1086.1	1084.6	1083.1	1083.1
172.5°	1086.4	1088.0	1089.6	1091.2	1092.7	1092.8	1091.4	1090.0	1088.5	1087.0	1086.9
175°	1091.3	1092.7	1094.2	1095.6	1097.1	1097.1	1095.9	1094.6	1093.4	1092.1	1091.9
177.5°	1092.7	1094.2	1095.7	1097.1	1098.5	1098.7	1097.6	1096.3	1095.2	1094.1	1093.9
180°	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4
2.5°	753.2	752.4	748.9	744.9	739.7	736.2	733.4	732.0	727.5	721.9	718.2
5°	799.7	790.4	780.4	768.2	756.9	745.4	738.3	729.8	719.5	707.9	699.8
7.5°	849.5	831.2	811.4	791.0	770.8	752.7	736.7	723.0	706.6	690.1	678.4
10°	887.8	861.0	833.2	804.7	778.8	754.5	735.7	717.3	697.7	678.6	664.2
12.5°	922.5	887.2	855.2	820.2	787.1	758.0	731.0	709.3	685.7	665.4	649.0
15°	966.5	930.3	891.5	838.5	794.4	757.6	724.8	696.3	667.6	642.7	626.7
17.5°	1007.5	953.1	901.1	856.7	799.6	753.5	713.5	679.5	648.0	621.5	601.9
20°	1024.6	971.8	915.3	858.8	802.6	751.1	704.5	667.0	634.2	604.2	586.1
22.5°	1034.8	975.0	915.5	854.8	795.1	741.5	695.5	654.3	618.7	590.3	567.9
25°	1046.8	975.5	910.0	850.0	789.1	731.0	676.4	632.7	594.3	563.9	540.2
27.5°	1054.6	970.9	893.3	826.7	764.9	707.1	657.0	610.7	571.7	539.6	514.2
30°	1056.1	967.1	880.6	808.5	745.7	692.6	639.5	595.2	554.0	519.9	496.2
32.5°	1058.1	957.9	863.4	786.8	722.5	669.9	621.8	579.4	537.2	503.7	479.5
35°	1049.9	952.8	837.2	749.2	684.9	633.9	590.5	551.5	510.0	477.4	452.8
37.5°	1014.4	932.5	810.1	706.8	639.5	592.4	557.0	523.0	484.9	449.9	426.6
40°	978.7	912.5	789.1	681.1	610.8	562.4	530.5	502.8	465.9	433.1	408.1
42.5°	925.4	885.3	769.2	654.1	578.3	531.7	504.8	478.7	446.5	413.1	389.6
45°	827.9	833.2	728.2	611.1	533.4	486.5	461.2	443.1	414.4	386.9	362.9
47.5°	705.4	755.0	680.2	565.3	486.0	442.0	419.9	404.1	384.7	357.8	335.8
50°	625.5	696.3	641.7	534.6	456.2	412.5	390.7	377.9	361.0	339.7	318.9
52.5°	551.8	627.9	595.3	500.3	424.0	384.0	362.6	352.1	338.8	318.8	299.9
55°	450.0	527.1	519.6	448.7	375.7	339.7	323.5	311.7	302.6	287.6	272.6
57.5°	363.9	437.1	441.0	391.3	333.0	297.6	283.6	274.7	268.7	257.5	243.6
60°	309.8	376.9	390.0	352.5	302.6	271.3	257.6	250.5	245.7	236.7	226.1
62.5°	264.8	322.0	336.8	309.8	273.4	244.1	233.4	226.5	223.3	215.5	206.1
65°	202.7	250.1	264.5	249.5	230.5	207.0	198.3	192.3	189.6	185.2	178.3
67.5°	152.4	187.0	202.8	192.2	185.3	170.5	164.9	161.8	159.2	156.3	150.5
70°	122.4	148.1	164.3	161.4	155.8	148.1	144.0	141.8	139.3	136.8	131.8
72.5°	98.4	116.0	131.3	132.7	128.1	126.5	122.9	122.1	120.5	117.6	114.8
75°	65.3	77.5	88.1	92.1	94.0	95.6	94.0	93.7	93.4	90.9	89.3
77.5°	42.8	49.3	56.0	62.9	65.9	68.0	68.5	69.6	68.8	67.5	66.8
80°	32.8	34.3	39.1	45.0	49.7	51.5	52.7	53.4	53.1	52.7	51.5
82.5°	23.8	25.1	27.3	31.5	35.4	38.6	39.3	39.1	39.9	40.0	39.1
85°	12.8	13.1	13.8	14.3	16.6	20.0	21.0	21.5	22.2	22.2	20.3
87.5°	6.9	6.3	6.3	5.9	6.3	6.1	7.3	8.2	8.8	8.2	8.5
90°	14.8	12.5	10.1	8.1	6.3	4.4	2.6	0.8	2.6	4.4	6.3
92.5°	17.3	15.5	13.8	13.1	13.6	14.1	14.6	15.2	14.6	14.1	13.6
95°	21.3	19.2	17.3	20.0	27.4	34.8	42.2	49.7	42.2	34.8	27.4
97.5°	52.3	65.3	78.3	86.4	89.8	93.1	96.4	99.8	96.4	93.1	89.8
100°	83.2	111.5	139.7	152.0	148.4	144.8	141.1	137.5	141.1	144.8	148.4
102.5°	115.2	146.0	176.8	190.9	188.3	185.7	183.1	180.5	183.1	185.7	188.3
105°	210.8	227.1	243.3	250.5	248.5	246.5	244.5	242.5	244.5	246.5	248.5
107.5°	321.6	318.9	316.4	314.3	312.7	311.1	309.6	307.9	309.6	311.1	312.7
110°	363.1	361.0	359.1	357.3	355.9	354.4	353.0	351.6	353.0	354.4	355.9





TEST NUMBER: P332288-930

CATALOG NUMBER: S123RDIP-S560D1025U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	404.1	402.1	400.1	398.4	397.1	395.8	394.5	393.2	394.5	395.8	397.1
115°	463.8	462.2	460.6	459.3	458.2	457.1	456.0	454.9	456.0	457.1	458.2
117.5°	522.8	521.9	521.1	520.0	518.7	517.3	516.0	514.6	516.0	517.3	518.7
120°	560.4	559.9	559.4	558.2	556.6	555.0	553.3	551.7	553.3	555.0	556.6
122.5°	597.3	596.6	595.9	594.8	593.5	592.2	590.8	589.5	590.8	592.2	593.5
125°	649.5	648.9	648.2	647.0	645.6	644.2	642.7	641.2	642.7	644.2	645.6
127.5°	700.1	699.2	698.3	697.2	695.7	694.3	692.8	691.4	692.8	694.3	695.7
130°	731.0	730.3	729.5	728.5	727.0	725.5	724.1	722.7	724.1	725.5	727.0
132.5°	760.5	759.9	759.4	758.4	756.9	755.5	754.1	752.6	754.1	755.5	756.9
135°	805.0	804.3	803.6	802.7	801.6	800.5	799.4	798.3	799.4	800.5	801.6
137.5°	844.6	844.2	843.8	842.9	841.6	840.2	838.8	837.4	838.8	840.2	841.6
140°	869.7	869.1	868.6	867.8	866.7	865.6	864.5	863.4	864.5	865.6	866.7
142.5°	893.7	893.2	892.7	891.9	890.8	889.7	888.6	887.5	888.6	889.7	890.8
145°	927.8	927.5	927.1	926.3	925.0	923.7	922.5	921.2	922.5	923.7	925.0
147.5°	957.6	957.2	956.8	956.3	955.4	954.6	953.8	952.9	953.8	954.6	955.4
150°	975.8	975.4	975.1	974.6	974.1	973.5	973.1	972.5	973.1	973.5	974.1
152.5°	991.7	991.5	991.3	991.1	990.8	990.6	990.3	990.0	990.3	990.6	990.8
155°	1013.6	1013.4	1013.3	1013.3	1013.7	1014.1	1014.4	1014.8	1014.4	1014.1	1013.7
157.5°	1033.4	1033.6	1033.7	1033.9	1033.9	1034.0	1034.0	1034.0	1034.0	1034.0	1033.9
160°	1044.5	1044.6	1044.8	1045.0	1045.2	1045.4	1045.5	1045.7	1045.5	1045.4	1045.2
162.5°	1054.2	1054.4	1054.6	1054.9	1055.4	1055.8	1056.3	1056.8	1056.3	1055.8	1055.4
165°	1067.2	1067.4	1067.6	1068.0	1068.5	1069.0	1069.6	1070.2	1069.6	1069.0	1068.5
167.5°	1077.3	1077.3	1077.3	1077.7	1078.4	1079.1	1079.9	1080.5	1079.9	1079.1	1078.4
170°	1083.1	1083.1	1083.1	1083.5	1084.3	1085.0	1085.7	1086.4	1085.7	1085.0	1084.3
172.5°	1086.8	1086.6	1086.5	1086.9	1087.7	1088.6	1089.5	1090.3	1089.5	1088.6	1087.7
175°	1091.8	1091.5	1091.4	1091.8	1092.7	1093.6	1094.5	1095.4	1094.5	1093.6	1092.7
177.5°	1093.8	1093.6	1093.5	1093.8	1094.5	1095.2	1095.9	1096.7	1095.9	1095.2	1094.5
180°	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4



TEST NUMBER: P332288-930

CATALOG NUMBER: S123RDIP-S560D1025U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4
2.5°	717.0	713.7	711.5	706.5	703.3	699.8	696.3	698.5	698.2	698.0	698.0
5°	692.9	685.7	679.2	670.7	665.4	658.9	653.9	653.3	654.5	650.1	647.7
7.5°	669.1	659.3	650.0	640.7	630.8	622.9	618.0	615.7	612.5	609.8	607.0
10°	652.3	640.8	631.7	620.2	609.6	600.2	594.3	590.2	588.0	585.8	581.8
12.5°	635.1	623.8	612.2	599.2	589.1	578.2	573.8	569.2	565.0	562.6	557.0
15°	609.8	595.2	583.0	569.2	558.1	547.4	541.2	532.1	530.8	527.7	522.1
17.5°	584.6	568.7	551.9	541.7	529.0	518.0	508.4	505.4	496.4	493.1	488.2
20°	564.6	549.9	537.1	523.7	505.2	495.0	487.5	483.4	476.2	471.8	468.7
22.5°	547.4	532.4	517.6	502.0	486.7	475.2	469.7	463.4	459.5	453.4	450.0
25°	522.8	506.5	488.7	471.8	460.9	452.2	443.4	437.8	432.2	429.3	423.1
27.5°	494.2	477.2	460.6	447.8	434.3	425.7	417.8	412.8	406.0	401.3	397.9
30°	478.4	458.4	444.1	432.5	415.3	407.2	401.3	395.0	390.0	385.1	381.6
32.5°	460.2	441.9	428.3	414.0	400.8	392.0	384.3	378.8	374.5	369.8	366.4
35°	431.5	416.3	402.2	387.8	378.1	369.1	360.0	355.4	351.3	346.9	343.8
37.5°	405.7	391.4	378.1	364.4	352.5	345.0	337.8	334.2	328.7	325.8	322.6
40°	389.7	375.7	361.3	348.2	335.7	330.1	323.5	318.2	313.2	311.0	307.6
42.5°	372.3	358.2	346.1	331.9	321.7	314.1	308.0	302.2	298.5	295.3	293.3
45°	346.3	333.8	322.0	307.9	298.2	291.6	284.8	279.5	276.1	273.9	270.4
47.5°	321.1	308.7	296.6	284.4	275.0	267.5	260.7	256.9	252.4	249.7	247.4
50°	302.9	291.6	278.8	267.6	258.3	250.8	245.2	240.4	236.4	232.9	231.4
52.5°	286.2	274.2	263.1	252.7	242.8	234.2	229.2	224.2	221.2	217.2	215.4
55°	258.5	247.0	237.7	227.3	217.7	210.5	204.2	199.8	196.7	192.3	189.9
57.5°	232.6	222.3	211.1	202.2	192.2	186.1	180.9	175.0	171.2	167.8	165.3
60°	215.2	203.3	193.6	185.2	176.4	168.6	164.0	159.2	155.2	151.7	149.6
62.5°	196.9	186.5	177.4	168.2	160.2	153.4	148.0	144.0	140.5	138.3	136.1
65°	168.9	160.9	151.5	144.0	136.5	131.5	127.1	123.7	121.2	119.6	117.7
67.5°	143.2	135.3	127.2	119.8	114.8	111.0	108.1	105.2	104.0	101.9	100.7
70°	126.5	118.4	111.2	105.6	100.5	97.8	95.9	93.7	92.5	89.9	88.7
72.5°	108.3	102.4	97.2	92.5	88.5	86.0	83.6	81.0	78.9	76.2	74.9
75°	85.3	80.0	75.9	72.7	70.3	66.9	63.4	60.6	59.7	58.7	58.4
77.5°	63.1	59.8	56.8	54.2	51.1	48.6	47.9	47.2	47.0	46.6	46.6
80°	49.7	46.6	44.4	41.3	39.4	39.4	39.4	38.7	39.1	39.1	39.1
82.5°	36.9	34.0	32.9	31.7	31.4	31.6	31.6	31.7	31.6	32.0	31.8
85°	19.1	19.3	20.0	19.6	20.0	20.0	20.6	20.3	20.6	20.0	20.6
87.5°	8.6	9.8	10.5	11.2	11.9	12.1	12.6	12.7	13.0	13.2	13.4
90°	8.1	10.1	12.5	14.8	17.2	19.6	20.2	21.0	21.7	22.4	23.0
92.5°	13.1	13.8	15.5	17.3	19.1	20.9	22.0	23.2	24.3	25.4	26.2
95°	20.0	17.3	19.2	21.3	23.2	25.2	26.5	27.7	29.0	30.3	30.9
97.5°	86.4	78.3	65.3	52.3	39.2	26.2	27.6	29.1	30.6	32.0	32.8
100°	152.0	139.7	111.5	83.2	55.0	26.8	28.3	29.8	31.2	32.6	33.4
102.5°	190.9	176.8	146.0	115.2	84.4	53.6	49.1	44.6	40.1	35.6	33.5
105°	250.5	243.3	227.1	210.8	194.5	178.2	146.2	114.2	82.2	50.2	34.3
107.5°	314.3	316.4	318.9	321.6	324.1	326.7	303.2	279.7	256.2	232.8	209.0
110°	357.3	359.1	361.0	363.1	365.0	367.0	361.0	355.1	349.1	343.2	327.3



TEST NUMBER: P332288-930

CATALOG NUMBER: S123RDIP-S560D1025U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	398.4	400.1	402.1	404.1	406.0	408.1	408.1	408.2	408.4	408.5	405.8
115°	459.3	460.6	462.2	463.8	465.5	467.1	469.0	470.8	472.5	474.3	475.6
117.5°	520.0	521.1	521.9	522.8	523.6	524.4	525.9	527.3	528.7	530.2	531.0
120°	558.2	559.4	559.9	560.4	561.0	561.5	563.0	564.4	565.8	567.3	568.0
122.5°	594.8	595.9	596.6	597.3	597.9	598.6	599.7	600.6	601.7	602.7	603.2
125°	647.0	648.2	648.9	649.5	650.3	651.0	651.4	651.8	652.1	652.5	652.8
127.5°	697.2	698.3	699.2	700.1	700.9	701.8	702.4	703.0	703.5	704.1	704.3
130°	728.5	729.5	730.3	731.0	731.6	732.4	733.1	733.9	734.6	735.3	735.5
132.5°	758.4	759.4	759.9	760.5	761.2	761.7	762.5	763.1	763.9	764.6	764.7
135°	802.7	803.6	804.3	805.0	805.8	806.5	807.0	807.6	808.1	808.6	808.6
137.5°	842.9	843.8	844.2	844.6	845.0	845.4	846.2	847.1	848.0	848.8	849.1
140°	867.8	868.6	869.1	869.7	870.3	870.7	871.5	872.2	872.9	873.7	873.8
142.5°	891.9	892.7	893.2	893.7	894.3	894.9	895.4	896.0	896.6	897.2	897.2
145°	926.3	927.1	927.5	927.8	928.1	928.5	928.9	929.3	929.6	930.0	930.2
147.5°	956.3	956.8	957.2	957.6	958.0	958.3	958.7	959.0	959.4	959.8	959.5
150°	974.6	975.1	975.4	975.8	976.2	976.6	976.9	977.3	977.6	978.0	977.9
152.5°	991.1	991.3	991.5	991.7	992.0	992.1	992.8	993.4	994.1	994.7	994.7
155°	1013.3	1013.3	1013.4	1013.6	1013.8	1014.0	1014.9	1015.8	1016.7	1017.6	1017.5
157.5°	1033.9	1033.7	1033.6	1033.4	1033.2	1033.0	1034.1	1035.2	1036.2	1037.4	1037.2
160°	1045.0	1044.8	1044.6	1044.5	1044.2	1044.1	1045.2	1046.3	1047.3	1048.4	1048.3
162.5°	1054.9	1054.6	1054.4	1054.2	1054.0	1053.9	1055.1	1056.3	1057.5	1058.7	1058.8
165°	1068.0	1067.6	1067.4	1067.2	1067.1	1066.9	1068.3	1069.8	1071.2	1072.7	1072.8
167.5°	1077.7	1077.3	1077.3	1077.3	1077.3	1077.3	1078.7	1080.2	1081.7	1083.0	1083.0
170°	1083.5	1083.1	1083.1	1083.1	1083.1	1083.1	1084.6	1086.1	1087.5	1088.9	1088.9
172.5°	1086.9	1086.5	1086.6	1086.8	1086.9	1087.0	1088.5	1090.0	1091.4	1092.8	1092.7
175°	1091.8	1091.4	1091.5	1091.8	1091.9	1092.1	1093.4	1094.6	1095.9	1097.1	1097.1
177.5°	1093.8	1093.5	1093.6	1093.8	1093.9	1094.1	1095.2	1096.3	1097.6	1098.7	1098.5
180°	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4



TEST NUMBER: P332288-930

CATALOG NUMBER: S123RDIP-S560D1025U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4
2.5°	695.0	694.7	695.0	694.0	695.0	694.7	695.0	698.0	698.0	698.2	698.5
5°	646.7	646.4	645.5	642.7	645.5	646.4	646.7	647.7	650.1	654.5	653.3
7.5°	604.5	604.1	601.4	601.4	601.4	604.1	604.5	607.0	609.8	612.5	615.7
10°	579.6	579.9	576.2	574.0	576.2	579.9	579.6	581.8	585.8	588.0	590.2
12.5°	555.4	553.9	550.9	548.5	550.9	553.9	555.4	557.0	562.6	565.0	569.2
15°	523.3	520.2	512.7	513.4	512.7	520.2	523.3	522.1	527.7	530.8	532.1
17.5°	485.7	483.4	483.3	478.9	483.3	483.4	485.7	488.2	493.1	496.4	505.4
20°	463.7	462.2	462.8	458.4	462.8	462.2	463.7	468.7	471.8	476.2	483.4
22.5°	446.5	444.9	442.3	440.9	442.3	444.9	446.5	450.0	453.4	459.5	463.4
25°	421.3	418.7	416.3	417.8	416.3	418.7	421.3	423.1	429.3	432.2	437.8
27.5°	396.0	394.1	391.7	391.3	391.7	394.1	396.0	397.9	401.3	406.0	412.8
30°	380.0	378.1	376.9	375.4	376.9	378.1	380.0	381.6	385.1	390.0	395.0
32.5°	363.8	363.5	361.2	360.9	361.2	363.5	363.8	366.4	369.8	374.5	378.8
35°	342.6	340.7	340.1	340.4	340.1	340.7	342.6	343.8	346.9	351.3	355.4
37.5°	322.4	319.9	318.8	317.6	318.8	319.9	322.4	322.6	325.8	328.7	334.2
40°	307.9	305.4	304.8	304.2	304.8	305.4	307.9	307.6	311.0	313.2	318.2
42.5°	291.6	290.7	290.3	289.2	290.3	290.7	291.6	293.3	295.3	298.5	302.2
45°	269.5	269.2	267.3	267.9	267.3	269.2	269.5	270.4	273.9	276.1	279.5
47.5°	246.1	244.8	243.4	244.3	243.4	244.8	246.1	247.4	249.7	252.4	256.9
50°	230.2	229.5	226.7	227.3	226.7	229.5	230.2	231.4	232.9	236.4	240.4
52.5°	214.2	211.8	210.8	210.3	210.8	211.8	214.2	215.4	217.2	221.2	224.2
55°	187.7	184.8	183.6	183.0	183.6	184.8	187.7	189.9	192.3	196.7	199.8
57.5°	161.7	160.9	160.0	160.6	160.0	160.9	161.7	165.3	167.8	171.2	175.0
60°	146.4	146.4	146.4	146.2	146.4	146.4	146.4	149.6	151.7	155.2	159.2
62.5°	134.7	134.0	133.7	134.1	133.7	134.0	134.7	136.1	138.3	140.5	144.0
65°	116.8	116.5	115.2	115.0	115.2	116.5	116.8	117.7	119.6	121.2	123.7
67.5°	99.9	98.7	98.4	97.9	98.4	98.7	99.9	100.7	101.9	104.0	105.2
70°	87.2	86.5	84.6	85.0	84.6	86.5	87.2	88.7	89.9	92.5	93.7
72.5°	73.4	72.7	72.4	71.9	72.4	72.7	73.4	74.9	76.2	78.9	81.0
75°	58.0	57.8	57.5	58.7	57.5	57.8	58.0	58.4	58.7	59.7	60.6
77.5°	46.6	46.6	46.7	46.2	46.7	46.6	46.6	46.6	46.6	47.0	47.2
80°	39.1	39.1	38.7	38.7	38.7	39.1	39.1	39.1	39.1	39.1	38.7
82.5°	31.3	31.6	31.7	31.2	31.7	31.6	31.3	31.8	32.0	31.6	31.7
85°	20.6	20.3	21.0	20.6	21.0	20.3	20.6	20.6	20.0	20.6	20.3
87.5°	13.9	13.5	13.5	13.9	13.5	13.5	13.9	13.4	13.2	13.0	12.7
90°	23.3	23.7	24.1	24.4	24.1	23.7	23.3	23.0	22.4	21.7	21.0
92.5°	26.3	26.6	26.8	27.0	26.8	26.6	26.3	26.2	25.4	24.3	23.2
95°	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.3	29.0	27.7
97.5°	33.0	33.2	33.3	33.5	33.3	33.2	33.0	32.8	32.0	30.6	29.1
100°	33.7	33.8	34.0	34.2	34.0	33.8	33.7	33.4	32.6	31.2	29.8
102.5°	33.8	34.2	34.5	34.8	34.5	34.2	33.8	33.5	35.6	40.1	44.6
105°	34.7	35.1	35.5	35.8	35.5	35.1	34.7	34.3	50.2	82.2	114.2
107.5°	184.8	160.7	136.6	112.4	136.6	160.7	184.8	209.0	232.8	256.2	279.7
110°	301.3	275.5	249.6	223.8	249.6	275.5	301.3	327.3	343.2	349.1	355.1



TEST NUMBER: P332288-930

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	400.3	394.8	389.4	383.9	389.4	394.8	400.3	405.8	408.5	408.4	408.2
115°	476.3	477.0	477.8	478.5	477.8	477.0	476.3	475.6	474.3	472.5	470.8
117.5°	531.2	531.2	531.4	531.6	531.4	531.2	531.2	531.0	530.2	528.7	527.3
120°	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	567.3	565.8	564.4
122.5°	603.4	603.6	603.6	603.8	603.6	603.6	603.4	603.2	602.7	601.7	600.6
125°	653.2	653.5	654.0	654.3	654.0	653.5	653.2	652.8	652.5	652.1	651.8
127.5°	703.8	703.5	703.1	702.8	703.1	703.5	703.8	704.3	704.1	703.5	703.0
130°	735.2	734.7	734.4	734.0	734.4	734.7	735.2	735.5	735.3	734.6	733.9
132.5°	764.2	763.7	763.2	762.7	763.2	763.7	764.2	764.7	764.6	763.9	763.1
135°	808.1	807.6	807.0	806.5	807.0	807.6	808.1	808.6	808.6	808.1	807.6
137.5°	848.7	848.4	848.0	847.7	848.0	848.4	848.7	849.1	848.8	848.0	847.1
140°	873.4	873.1	872.8	872.4	872.8	873.1	873.4	873.8	873.7	872.9	872.2
142.5°	896.7	896.2	895.7	895.2	895.7	896.2	896.7	897.2	897.2	896.6	896.0
145°	930.2	930.2	930.2	930.2	930.2	930.2	930.2	930.2	930.0	929.6	929.3
147.5°	958.7	957.9	957.0	956.2	957.0	957.9	958.7	959.5	959.8	959.4	959.0
150°	977.4	976.8	976.2	975.8	976.2	976.8	977.4	977.9	978.0	977.6	977.3
152.5°	993.8	993.0	992.2	991.3	992.2	993.0	993.8	994.7	994.7	994.1	993.4
155°	1016.4	1015.4	1014.2	1013.2	1014.2	1015.4	1016.4	1017.5	1017.6	1016.7	1015.8
157.5°	1035.8	1034.4	1033.0	1031.6	1033.0	1034.4	1035.8	1037.2	1037.4	1036.2	1035.2
160°	1047.1	1045.8	1044.6	1043.3	1044.6	1045.8	1047.1	1048.3	1048.4	1047.3	1046.3
162.5°	1057.7	1056.5	1055.5	1054.3	1055.5	1056.5	1057.7	1058.8	1058.7	1057.5	1056.3
165°	1071.5	1070.2	1068.9	1067.7	1068.9	1070.2	1071.5	1072.8	1072.7	1071.2	1069.8
167.5°	1081.7	1080.2	1078.7	1077.3	1078.7	1080.2	1081.7	1083.0	1083.0	1081.7	1080.2
170°	1087.5	1086.1	1084.6	1083.1	1084.6	1086.1	1087.5	1088.9	1088.9	1087.5	1086.1
172.5°	1091.2	1089.6	1088.0	1086.4	1088.0	1089.6	1091.2	1092.7	1092.8	1091.4	1090.0
175°	1095.6	1094.2	1092.7	1091.3	1092.7	1094.2	1095.6	1097.1	1097.1	1095.9	1094.6
177.5°	1097.1	1095.7	1094.2	1092.7	1094.2	1095.7	1097.1	1098.5	1098.7	1097.6	1096.3
180°	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4



TEST NUMBER: P332288-930

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4
2.5°	696.3	699.8	703.3	706.5	711.5	713.7	717.0	718.2	721.9	727.5	732.0
5°	653.9	658.9	665.4	670.7	679.2	685.7	692.9	699.8	707.9	719.5	729.8
7.5°	618.0	622.9	630.8	640.7	650.0	659.3	669.1	678.4	690.1	706.6	723.0
10°	594.3	600.2	609.6	620.2	631.7	640.8	652.3	664.2	678.6	697.7	717.3
12.5°	573.8	578.2	589.1	599.2	612.2	623.8	635.1	649.0	665.4	685.7	709.3
15°	541.2	547.4	558.1	569.2	583.0	595.2	609.8	626.7	642.7	667.6	696.3
17.5°	508.4	518.0	529.0	541.7	551.9	568.7	584.6	601.9	621.5	648.0	679.5
20°	487.5	495.0	505.2	523.7	537.1	549.9	564.6	586.1	604.2	634.2	667.0
22.5°	469.7	475.2	486.7	502.0	517.6	532.4	547.4	567.9	590.3	618.7	654.3
25°	443.4	452.2	460.9	471.8	488.7	506.5	522.8	540.2	563.9	594.3	632.7
27.5°	417.8	425.7	434.3	447.8	460.6	477.2	494.2	514.2	539.6	571.7	610.7
30°	401.3	407.2	415.3	432.5	444.1	458.4	478.4	496.2	519.9	554.0	595.2
32.5°	384.3	392.0	400.8	414.0	428.3	441.9	460.2	479.5	503.7	537.2	579.4
35°	360.0	369.1	378.1	387.8	402.2	416.3	431.5	452.8	477.4	510.0	551.5
37.5°	337.8	345.0	352.5	364.4	378.1	391.4	405.7	426.6	449.9	484.9	523.0
40°	323.5	330.1	335.7	348.2	361.3	375.7	389.7	408.1	433.1	465.9	502.8
42.5°	308.0	314.1	321.7	331.9	346.1	358.2	372.3	389.6	413.1	446.5	478.7
45°	284.8	291.6	298.2	307.9	322.0	333.8	346.3	362.9	386.9	414.4	443.1
47.5°	260.7	267.5	275.0	284.4	296.6	308.7	321.1	335.8	357.8	384.7	404.1
50°	245.2	250.8	258.3	267.6	278.8	291.6	302.9	318.9	339.7	361.0	377.9
52.5°	229.2	234.2	242.8	252.7	263.1	274.2	286.2	299.9	318.8	338.8	352.1
55°	204.2	210.5	217.7	227.3	237.7	247.0	258.5	272.6	287.6	302.6	311.7
57.5°	180.9	186.1	192.2	202.2	211.1	222.3	232.6	243.6	257.5	268.7	274.7
60°	164.0	168.6	176.4	185.2	193.6	203.3	215.2	226.1	236.7	245.7	250.5
62.5°	148.0	153.4	160.2	168.2	177.4	186.5	196.9	206.1	215.5	223.3	226.5
65°	127.1	131.5	136.5	144.0	151.5	160.9	168.9	178.3	185.2	189.6	192.3
67.5°	108.1	111.0	114.8	119.8	127.2	135.3	143.2	150.5	156.3	159.2	161.8
70°	95.9	97.8	100.5	105.6	111.2	118.4	126.5	131.8	136.8	139.3	141.8
72.5°	83.6	86.0	88.5	92.5	97.2	102.4	108.3	114.8	117.6	120.5	122.1
75°	63.4	66.9	70.3	72.7	75.9	80.0	85.3	89.3	90.9	93.4	93.7
77.5°	47.9	48.6	51.1	54.2	56.8	59.8	63.1	66.8	67.5	68.8	69.6
80°	39.4	39.4	39.4	41.3	44.4	46.6	49.7	51.5	52.7	53.1	53.4
82.5°	31.6	31.6	31.4	31.7	32.9	34.0	36.9	39.1	40.0	39.9	39.1
85°	20.6	20.0	20.0	19.6	20.0	19.3	19.1	20.3	22.2	22.2	21.5
87.5°	12.6	12.1	11.9	11.2	10.5	9.8	8.6	8.5	8.2	8.8	8.2
90°	20.2	19.6	17.2	14.8	12.5	10.1	8.1	6.3	4.4	2.6	0.8
92.5°	22.0	20.9	19.1	17.3	15.5	13.8	13.1	13.6	14.1	14.6	15.2
95°	26.5	25.2	23.2	21.3	19.2	17.3	20.0	27.4	34.8	42.2	49.7
97.5°	27.6	26.2	39.2	52.3	65.3	78.3	86.4	89.8	93.1	96.4	99.8
100°	28.3	26.8	55.0	83.2	111.5	139.7	152.0	148.4	144.8	141.1	137.5
102.5°	49.1	53.6	84.4	115.2	146.0	176.8	190.9	188.3	185.7	183.1	180.5
105°	146.2	178.2	194.5	210.8	227.1	243.3	250.5	248.5	246.5	244.5	242.5
107.5°	303.2	326.7	324.1	321.6	318.9	316.4	314.3	312.7	311.1	309.6	307.9
110°	361.0	367.0	365.0	363.1	361.0	359.1	357.3	355.9	354.4	353.0	351.6



TEST NUMBER: P332288-930

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	408.1	408.1	406.0	404.1	402.1	400.1	398.4	397.1	395.8	394.5	393.2
115°	469.0	467.1	465.5	463.8	462.2	460.6	459.3	458.2	457.1	456.0	454.9
117.5°	525.9	524.4	523.6	522.8	521.9	521.1	520.0	518.7	517.3	516.0	514.6
120°	563.0	561.5	561.0	560.4	559.9	559.4	558.2	556.6	555.0	553.3	551.7
122.5°	599.7	598.6	597.9	597.3	596.6	595.9	594.8	593.5	592.2	590.8	589.5
125°	651.4	651.0	650.3	649.5	648.9	648.2	647.0	645.6	644.2	642.7	641.2
127.5°	702.4	701.8	700.9	700.1	699.2	698.3	697.2	695.7	694.3	692.8	691.4
130°	733.1	732.4	731.6	731.0	730.3	729.5	728.5	727.0	725.5	724.1	722.7
132.5°	762.5	761.7	761.2	760.5	759.9	759.4	758.4	756.9	755.5	754.1	752.6
135°	807.0	806.5	805.8	805.0	804.3	803.6	802.7	801.6	800.5	799.4	798.3
137.5°	846.2	845.4	845.0	844.6	844.2	843.8	842.9	841.6	840.2	838.8	837.4
140°	871.5	870.7	870.3	869.7	869.1	868.6	867.8	866.7	865.6	864.5	863.4
142.5°	895.4	894.9	894.3	893.7	893.2	892.7	891.9	890.8	889.7	888.6	887.5
145°	928.9	928.5	928.1	927.8	927.5	927.1	926.3	925.0	923.7	922.5	921.2
147.5°	958.7	958.3	958.0	957.6	957.2	956.8	956.3	955.4	954.6	953.8	952.9
150°	976.9	976.6	976.2	975.8	975.4	975.1	974.6	974.1	973.5	973.1	972.5
152.5°	992.8	992.1	992.0	991.7	991.5	991.3	991.1	990.8	990.6	990.3	990.0
155°	1014.9	1014.0	1013.8	1013.6	1013.4	1013.3	1013.3	1013.7	1014.1	1014.4	1014.8
157.5°	1034.1	1033.0	1033.2	1033.4	1033.6	1033.7	1033.9	1033.9	1034.0	1034.0	1034.0
160°	1045.2	1044.1	1044.2	1044.5	1044.6	1044.8	1045.0	1045.2	1045.4	1045.5	1045.7
162.5°	1055.1	1053.9	1054.0	1054.2	1054.4	1054.6	1054.9	1055.4	1055.8	1056.3	1056.8
165°	1068.3	1066.9	1067.1	1067.2	1067.4	1067.6	1068.0	1068.5	1069.0	1069.6	1070.2
167.5°	1078.7	1077.3	1077.3	1077.3	1077.3	1077.3	1077.7	1078.4	1079.1	1079.9	1080.5
170°	1084.6	1083.1	1083.1	1083.1	1083.1	1083.1	1083.5	1084.3	1085.0	1085.7	1086.4
172.5°	1088.5	1087.0	1086.9	1086.8	1086.6	1086.5	1086.9	1087.7	1088.6	1089.5	1090.3
175°	1093.4	1092.1	1091.9	1091.8	1091.5	1091.4	1091.8	1092.7	1093.6	1094.5	1095.4
177.5°	1095.2	1094.1	1093.9	1093.8	1093.6	1093.5	1093.8	1094.5	1095.2	1095.9	1096.7
180°	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4



TEST NUMBER: P332288-930

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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4
2.5°	733.4	736.2	739.7	744.9	748.9	752.4	753.2	754.2	756.7	760.9	764.2
5°	738.3	745.4	756.9	768.2	780.4	790.4	799.7	806.3	812.5	825.7	836.3
7.5°	736.7	752.7	770.8	791.0	811.4	831.2	849.5	866.0	882.4	901.5	923.2
10°	735.7	754.5	778.8	804.7	833.2	861.0	887.8	908.7	933.1	955.0	982.8
12.5°	731.0	758.0	787.1	820.2	855.2	887.2	922.5	951.5	979.3	1010.9	1043.2
15°	724.8	757.6	794.4	838.5	891.5	930.3	966.5	1016.8	1051.1	1085.5	1131.7
17.5°	713.5	753.5	799.6	856.7	901.1	953.1	1007.5	1047.3	1093.6	1142.0	1183.8
20°	704.5	751.1	802.6	858.8	915.3	971.8	1024.6	1072.0	1119.8	1175.7	1210.1
22.5°	695.5	741.5	795.1	854.8	915.5	975.0	1034.8	1090.5	1144.3	1200.7	1244.6
25°	676.4	731.0	789.1	850.0	910.0	975.5	1046.8	1108.9	1175.4	1233.5	1275.0
27.5°	657.0	707.1	764.9	826.7	893.3	970.9	1054.6	1125.3	1191.9	1233.5	1246.5
30°	639.5	692.6	745.7	808.5	880.6	967.1	1056.1	1137.0	1191.6	1209.7	1196.3
32.5°	621.8	669.9	722.5	786.8	863.4	957.9	1058.1	1130.0	1162.9	1149.1	1094.4
35°	590.5	633.9	684.9	749.2	837.2	952.8	1049.9	1098.6	1090.5	1012.4	909.3
37.5°	557.0	592.4	639.5	706.8	810.1	932.5	1014.4	1021.6	951.3	831.4	712.4
40°	530.5	562.4	610.8	681.1	789.1	912.5	978.7	949.7	840.7	707.3	608.0
42.5°	504.8	531.7	578.3	654.1	769.2	885.3	925.4	862.2	736.5	610.3	520.1
45°	461.2	486.5	533.4	611.1	728.2	833.2	827.9	718.0	592.1	490.6	415.6
47.5°	419.9	442.0	486.0	565.3	680.2	755.0	705.4	588.5	481.7	400.3	346.8
50°	390.7	412.5	456.2	534.6	641.7	696.3	625.5	512.7	415.0	347.6	305.1
52.5°	362.6	384.0	424.0	500.3	595.3	627.9	551.8	447.3	365.8	307.6	271.1
55°	323.5	339.7	375.7	448.7	519.6	527.1	450.0	362.6	295.4	254.8	229.8
57.5°	283.6	297.6	333.0	391.3	441.0	437.1	363.9	288.4	243.1	213.0	194.9
60°	257.6	271.3	302.6	352.5	390.0	376.9	309.8	248.9	210.2	188.0	173.7
62.5°	233.4	244.1	273.4	309.8	336.8	322.0	264.8	214.4	183.7	165.0	153.6
65°	198.3	207.0	230.5	249.5	264.5	250.1	202.7	167.7	145.5	132.4	124.6
67.5°	164.9	170.5	185.3	192.2	202.8	187.0	152.4	129.0	116.3	105.3	99.9
70°	144.0	148.1	155.8	161.4	164.3	148.1	122.4	105.3	94.7	86.8	83.4
72.5°	122.9	126.5	128.1	132.7	131.3	116.0	98.4	84.8	77.1	71.8	67.4
75°	94.0	95.6	94.0	92.1	88.1	77.5	65.3	58.4	52.7	50.3	48.8
77.5°	68.5	68.0	65.9	62.9	56.0	49.3	42.8	40.4	38.1	36.7	36.2
80°	52.7	51.5	49.7	45.0	39.1	34.3	32.8	31.2	30.3	28.7	28.5
82.5°	39.3	38.6	35.4	31.5	27.3	25.1	23.8	23.2	22.3	21.5	21.4
85°	21.0	20.0	16.6	14.3	13.8	13.1	12.8	12.8	11.6	11.3	11.3
87.5°	7.3	6.1	6.3	5.9	6.3	6.3	6.9	6.9	7.2	7.6	7.2
90°	2.6	4.4	6.3	8.1	10.1	12.5	14.8	17.2	19.6	20.2	21.0
92.5°	14.6	14.1	13.6	13.1	13.8	15.5	17.3	19.1	20.9	22.0	23.2
95°	42.2	34.8	27.4	20.0	17.3	19.2	21.3	23.2	25.2	26.5	27.7
97.5°	96.4	93.1	89.8	86.4	78.3	65.3	52.3	39.2	26.2	27.6	29.1
100°	141.1	144.8	148.4	152.0	139.7	111.5	83.2	55.0	26.8	28.3	29.8
102.5°	183.1	185.7	188.3	190.9	176.8	146.0	115.2	84.4	53.6	49.1	44.6
105°	244.5	246.5	248.5	250.5	243.3	227.1	210.8	194.5	178.2	146.2	114.2
107.5°	309.6	311.1	312.7	314.3	316.4	318.9	321.6	324.1	326.7	303.2	279.7
110°	353.0	354.4	355.9	357.3	359.1	361.0	363.1	365.0	367.0	361.0	355.1





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	394.5	395.8	397.1	398.4	400.1	402.1	404.1	406.0	408.1	408.1	408.2
115°	456.0	457.1	458.2	459.3	460.6	462.2	463.8	465.5	467.1	469.0	470.8
117.5°	516.0	517.3	518.7	520.0	521.1	521.9	522.8	523.6	524.4	525.9	527.3
120°	553.3	555.0	556.6	558.2	559.4	559.9	560.4	561.0	561.5	563.0	564.4
122.5°	590.8	592.2	593.5	594.8	595.9	596.6	597.3	597.9	598.6	599.7	600.6
125°	642.7	644.2	645.6	647.0	648.2	648.9	649.5	650.3	651.0	651.4	651.8
127.5°	692.8	694.3	695.7	697.2	698.3	699.2	700.1	700.9	701.8	702.4	703.0
130°	724.1	725.5	727.0	728.5	729.5	730.3	731.0	731.6	732.4	733.1	733.9
132.5°	754.1	755.5	756.9	758.4	759.4	759.9	760.5	761.2	761.7	762.5	763.1
135°	799.4	800.5	801.6	802.7	803.6	804.3	805.0	805.8	806.5	807.0	807.6
137.5°	838.8	840.2	841.6	842.9	843.8	844.2	844.6	845.0	845.4	846.2	847.1
140°	864.5	865.6	866.7	867.8	868.6	869.1	869.7	870.3	870.7	871.5	872.2
142.5°	888.6	889.7	890.8	891.9	892.7	893.2	893.7	894.3	894.9	895.4	896.0
145°	922.5	923.7	925.0	926.3	927.1	927.5	927.8	928.1	928.5	928.9	929.3
147.5°	953.8	954.6	955.4	956.3	956.8	957.2	957.6	958.0	958.3	958.7	959.0
150°	973.1	973.5	974.1	974.6	975.1	975.4	975.8	976.2	976.6	976.9	977.3
152.5°	990.3	990.6	990.8	991.1	991.3	991.5	991.7	992.0	992.1	992.8	993.4
155°	1014.4	1014.1	1013.7	1013.3	1013.3	1013.4	1013.6	1013.8	1014.0	1014.9	1015.8
157.5°	1034.0	1034.0	1033.9	1033.9	1033.7	1033.6	1033.4	1033.2	1033.0	1034.1	1035.2
160°	1045.5	1045.4	1045.2	1045.0	1044.8	1044.6	1044.5	1044.2	1044.1	1045.2	1046.3
162.5°	1056.3	1055.8	1055.4	1054.9	1054.6	1054.4	1054.2	1054.0	1053.9	1055.1	1056.3
165°	1069.6	1069.0	1068.5	1068.0	1067.6	1067.4	1067.2	1067.1	1066.9	1068.3	1069.8
167.5°	1079.9	1079.1	1078.4	1077.7	1077.3	1077.3	1077.3	1077.3	1077.3	1078.7	1080.2
170°	1085.7	1085.0	1084.3	1083.5	1083.1	1083.1	1083.1	1083.1	1083.1	1084.6	1086.1
172.5°	1089.5	1088.6	1087.7	1086.9	1086.5	1086.6	1086.8	1086.9	1087.0	1088.5	1090.0
175°	1094.5	1093.6	1092.7	1091.8	1091.4	1091.5	1091.8	1091.9	1092.1	1093.4	1094.6
177.5°	1095.9	1095.2	1094.5	1093.8	1093.5	1093.6	1093.8	1093.9	1094.1	1095.2	1096.3
180°	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	729.4	729.4	729.4	729.4	729.4	729.4	729.4
2.5°	769.5	769.5	770.5	774.2	774.7	778.0	776.9
5°	845.6	851.6	853.8	863.2	868.8	871.2	866.3
7.5°	938.8	955.5	963.5	973.3	981.9	984.6	977.8
10°	1006.8	1024.3	1038.9	1048.0	1056.5	1062.0	1069.3
12.5°	1072.4	1094.0	1107.9	1120.7	1129.4	1136.5	1137.7
15°	1143.9	1176.3	1201.0	1219.1	1228.2	1232.9	1231.0
17.5°	1215.9	1245.9	1263.6	1282.0	1294.5	1295.2	1295.6
20°	1256.6	1286.0	1306.3	1320.0	1334.1	1333.4	1336.5
22.5°	1283.9	1306.9	1322.5	1332.4	1337.3	1334.9	1335.5
25°	1296.6	1303.4	1300.6	1284.7	1280.7	1266.0	1268.4
27.5°	1230.9	1198.4	1164.8	1121.5	1087.4	1060.2	1061.6
30°	1141.7	1084.2	1018.6	963.7	914.4	900.6	871.2
32.5°	1017.0	930.8	854.0	802.8	760.4	748.9	723.3
35°	805.7	721.9	642.9	595.5	576.7	550.6	550.2
37.5°	626.2	552.5	510.8	475.2	456.5	440.6	439.0
40°	526.8	469.4	437.8	412.2	393.8	381.9	379.1
42.5°	457.4	410.9	381.3	365.5	351.3	345.2	340.6
45°	373.5	342.3	321.6	307.3	300.7	296.0	293.5
47.5°	312.4	291.5	277.4	267.9	262.5	257.6	258.9
50°	279.2	262.0	251.7	242.6	238.6	235.1	235.5
52.5°	252.4	237.0	228.7	222.2	217.1	214.7	213.4
55°	214.3	204.6	196.1	191.4	188.6	185.2	184.3
57.5°	182.7	175.2	168.4	163.1	162.4	159.1	159.5
60°	161.8	155.5	149.9	147.1	144.9	142.1	143.0
62.5°	144.6	139.3	134.1	131.8	129.6	127.6	128.0
65°	118.4	113.3	110.2	109.0	108.0	107.1	106.2
67.5°	94.3	91.2	89.3	86.6	84.7	84.4	83.4
70°	79.3	75.3	71.8	68.4	67.4	67.1	67.4
72.5°	63.6	61.0	60.1	58.4	58.2	57.4	58.0
75°	47.8	46.9	46.2	45.0	45.0	45.0	45.0
77.5°	35.2	34.7	34.3	34.0	33.8	33.3	33.3
80°	27.5	27.1	26.6	26.6	26.3	26.6	26.3
82.5°	20.7	20.7	20.1	20.1	19.7	19.6	19.7
85°	10.6	10.3	10.9	10.3	10.6	10.0	10.6
87.5°	7.3	7.5	7.3	7.4	7.3	7.8	7.4
90°	21.7	22.4	23.0	23.3	23.7	24.1	24.4
92.5°	24.3	25.4	26.2	26.3	26.6	26.8	27.0
95°	29.0	30.3	30.9	30.9	30.9	30.9	30.9
97.5°	30.6	32.0	32.8	33.0	33.2	33.3	33.5
100°	31.2	32.6	33.4	33.7	33.8	34.0	34.2
102.5°	40.1	35.6	33.5	33.8	34.2	34.5	34.8
105°	82.2	50.2	34.3	34.7	35.1	35.5	35.8
107.5°	256.2	232.8	209.0	184.8	160.7	136.6	112.4
110°	349.1	343.2	327.3	301.3	275.5	249.6	223.8



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	408.4	408.5	405.8	400.3	394.8	389.4	383.9
115°	472.5	474.3	475.6	476.3	477.0	477.8	478.5
117.5°	528.7	530.2	531.0	531.2	531.2	531.4	531.6
120°	565.8	567.3	568.0	568.0	568.0	568.0	568.0
122.5°	601.7	602.7	603.2	603.4	603.6	603.6	603.8
125°	652.1	652.5	652.8	653.2	653.5	654.0	654.3
127.5°	703.5	704.1	704.3	703.8	703.5	703.1	702.8
130°	734.6	735.3	735.5	735.2	734.7	734.4	734.0
132.5°	763.9	764.6	764.7	764.2	763.7	763.2	762.7
135°	808.1	808.6	808.6	808.1	807.6	807.0	806.5
137.5°	848.0	848.8	849.1	848.7	848.4	848.0	847.7
140°	872.9	873.7	873.8	873.4	873.1	872.8	872.4
142.5°	896.6	897.2	897.2	896.7	896.2	895.7	895.2
145°	929.6	930.0	930.2	930.2	930.2	930.2	930.2
147.5°	959.4	959.8	959.5	958.7	957.9	957.0	956.2
150°	977.6	978.0	977.9	977.4	976.8	976.2	975.8
152.5°	994.1	994.7	994.7	993.8	993.0	992.2	991.3
155°	1016.7	1017.6	1017.5	1016.4	1015.4	1014.2	1013.2
157.5°	1036.2	1037.4	1037.2	1035.8	1034.4	1033.0	1031.6
160°	1047.3	1048.4	1048.3	1047.1	1045.8	1044.6	1043.3
162.5°	1057.5	1058.7	1058.8	1057.7	1056.5	1055.5	1054.3
165°	1071.2	1072.7	1072.8	1071.5	1070.2	1068.9	1067.7
167.5°	1081.7	1083.0	1083.0	1081.7	1080.2	1078.7	1077.3
170°	1087.5	1088.9	1088.9	1087.5	1086.1	1084.6	1083.1
172.5°	1091.4	1092.8	1092.7	1091.2	1089.6	1088.0	1086.4
175°	1095.9	1097.1	1097.1	1095.6	1094.2	1092.7	1091.3
177.5°	1097.6	1098.7	1098.5	1097.1	1095.7	1094.2	1092.7
180°	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4

(END OF REPORT)