

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: P332727-940

Luminaire Tested: **S124DIW-S350D1050U940-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332727-940  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S124DIW-S350D1050U940-4F0-1E-UDD-A  
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 350 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1050 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5145.6 lumens  
Efficiency: N/A  
Efficacy: 135.4 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41  
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')  
CIE Type: Semi-Indirect

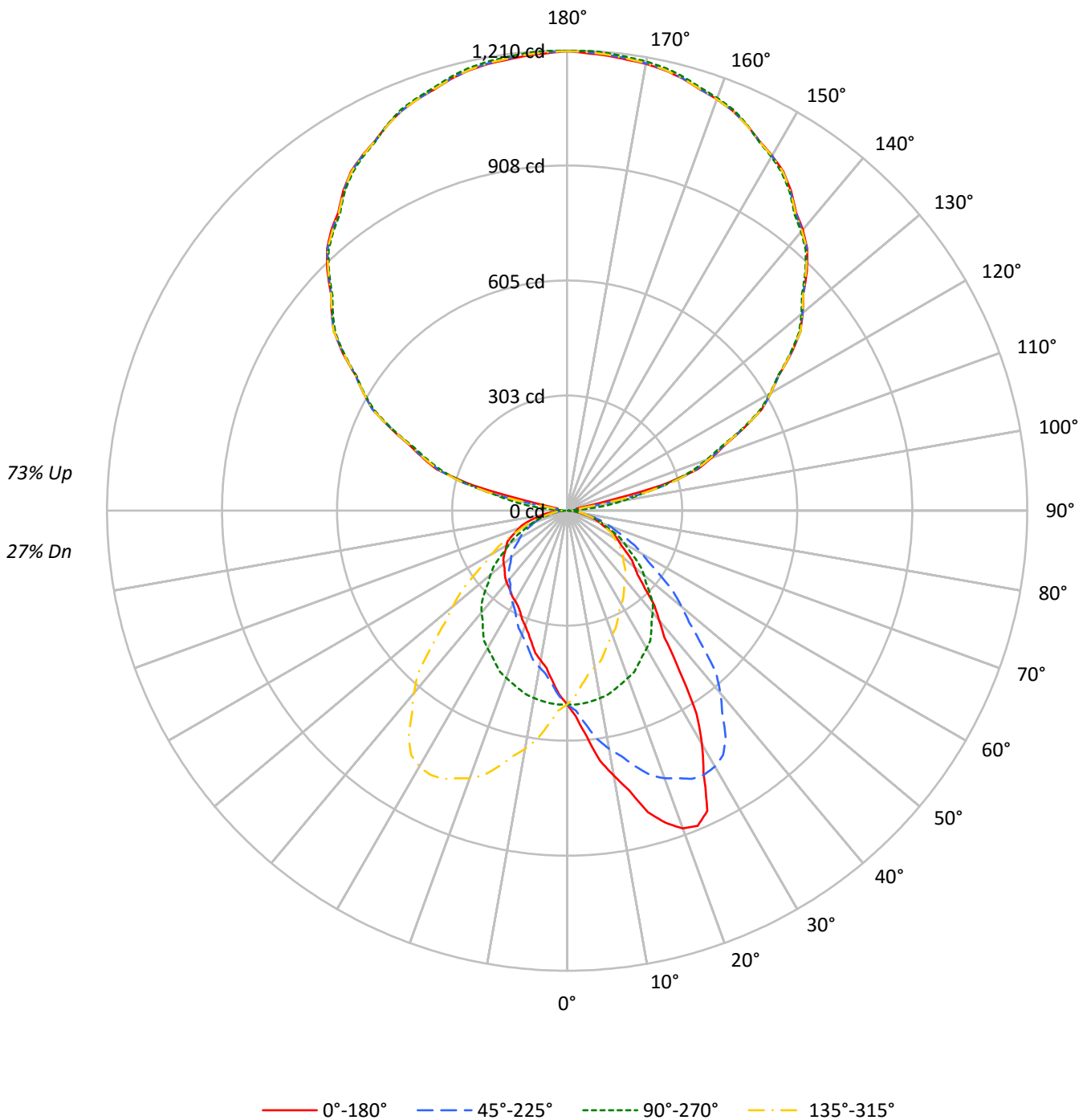
Input Watts (W): 38  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20			20			20			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	102	102	102	102	91	91	91	91	71	71	71	52	52	52	35	35	35	27
1	93	89	85	82	83	79	76	74	62	60	58	46	45	44	31	31	30	23
2	85	78	72	67	75	70	65	60	54	51	48	41	38	37	28	27	25	20
3	77	68	61	56	69	61	55	51	48	44	41	36	33	31	25	23	22	17
4	71	60	53	47	63	54	48	43	43	38	35	32	29	27	22	20	19	15
5	65	54	46	40	58	48	42	37	38	33	30	29	26	23	20	18	16	13
6	60	48	40	35	53	43	37	32	34	29	26	26	23	20	18	16	14	11
7	55	43	36	30	49	39	32	28	31	26	23	24	20	18	17	14	13	10
8	51	39	32	27	45	35	29	24	28	23	20	21	18	16	15	13	12	9
9	47	36	28	24	42	32	26	22	26	21	18	20	16	14	14	12	10	8
10	44	32	26	21	39	29	23	19	24	19	16	18	15	13	13	11	9	7

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

	0°	90°	180°	270°
0°	4112	4112	4112	4112
5°	4843	4123	3639	4123
10°	5799	4105	3277	4105
15°	6861	4064	3010	4064
20°	7640	4021	2770	4021
25°	7764	3958	2605	3958
30°	6605	3899	2553	3899
35°	5078	3802	2553	3802
40°	3959	3687	2602	3687
45°	3301	3515	2646	3515
50°	2905	3304	2735	3304
55°	2662	3054	2846	3054
60°	2493	2827	2977	2827
65°	2321	2575	3089	2575
70°	2122	2325	3158	2325
75°	1896	2046	3119	2046
80°	1590	1678	3022	1678
85°	1176	1213	2890	1213



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.6	1.0
10°-20°	153.0	3.0
20°-30°	242.6	4.7
30°-40°	270.0	5.2
40°-50°	245.7	4.8
50°-60°	200.8	3.9
60°-70°	143.4	2.8
70°-80°	78.9	1.5
80°-90°	25.0	0.5
90°-100°	41.3	0.8
100°-110°	263.4	5.1
110°-120°	503.9	9.8
120°-130°	639.7	12.4
130°-140°	684.4	13.3
140°-150°	640.0	12.4
150°-160°	516.1	10.0
160°-170°	332.9	6.5
170°-180°	114.7	2.2
0°-30°	445.2	8.7
0°-40°	715.2	13.9
0°-60°	1161.7	22.6
0°-90°	1409.1	27.4
90°-120°	808.6	15.7
90°-150°	2772.8	53.9
90°-180°	3737.0	72.6
0°-180°	5145.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	509	509	509	509	509	
5°	598	509	449	509	598	61
15°	821	486	360	486	821	232
25°	872	444	292	444	872	384
35°	515	386	259	386	515	327
45°	289	308	232	308	289	228
55°	189	217	202	217	189	171
65°	122	135	162	135	122	120
75°	61	66	100	66	61	65
85°	13	13	31	13	13	16
90°	27	3	27	3	27	12
95°	26	50	26	50	26	21
105°	258	272	258	272	258	225
115°	511	508	511	508	511	506
125°	719	714	719	714	719	640
135°	892	885	892	885	892	686
145°	1026	1021	1026	1021	1026	641
155°	1118	1119	1118	1119	1118	516
165°	1175	1181	1175	1181	1175	332
175°	1201	1208	1201	1208	1201	114
180°	1208	1208	1208	1208	1208	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4
2.5°	542.2	542.1	540.4	540.0	538.9	537.3	537.0	534.2	528.9	526.3	525.7
5°	597.6	601.9	596.4	595.3	594.7	587.7	584.2	580.0	570.2	564.5	560.1
7.5°	663.9	664.3	661.9	660.0	654.6	648.5	639.4	629.7	618.1	606.2	597.1
10°	707.4	709.1	706.3	706.0	695.2	688.4	674.9	663.5	650.4	635.9	622.6
12.5°	753.3	751.0	749.6	740.6	738.5	726.2	710.5	698.8	678.6	661.8	644.2
15°	820.9	816.3	813.3	800.9	794.8	777.7	761.0	748.1	721.8	696.6	677.6
17.5°	860.6	865.2	858.4	853.3	837.5	825.5	808.4	781.4	760.8	729.6	705.6
20°	889.3	889.7	885.9	880.7	868.3	853.0	834.5	804.9	780.2	749.2	716.2
22.5°	897.1	897.2	895.5	890.6	881.2	868.9	850.2	825.5	795.6	761.9	728.9
25°	871.6	870.8	872.6	878.2	874.6	870.8	860.0	841.6	813.8	778.1	742.6
27.5°	776.9	782.7	793.4	806.9	819.9	829.8	832.6	828.8	811.6	782.3	745.1
30°	708.6	715.9	723.9	737.4	763.6	778.6	795.0	807.4	800.5	777.0	742.4
32.5°	633.7	635.5	647.4	662.7	686.7	715.5	741.6	767.0	775.3	763.0	734.1
35°	515.3	518.4	531.2	546.4	575.7	611.0	650.2	685.3	714.2	725.8	711.0
37.5°	420.5	429.0	438.1	454.4	480.3	512.0	552.8	598.2	641.2	670.1	675.0
40°	375.7	380.9	387.4	399.9	421.9	453.1	488.1	540.0	585.9	627.2	640.7
42.5°	340.2	343.3	347.3	358.6	375.2	406.4	438.4	484.0	529.9	579.4	602.1
45°	289.1	292.3	299.1	305.6	318.3	339.7	369.5	407.1	453.3	501.0	542.8
47.5°	252.3	254.2	258.2	265.3	276.1	290.3	314.4	345.8	388.6	435.0	479.5
50°	231.3	233.0	236.1	242.5	250.7	263.4	283.2	312.5	346.1	392.7	436.4
52.5°	214.7	215.4	217.8	222.0	228.6	239.2	255.6	279.8	311.0	352.6	396.1
55°	189.1	189.9	192.1	195.2	200.9	207.7	220.1	238.3	265.5	301.6	339.4
57.5°	168.0	168.6	170.3	171.6	176.3	181.7	191.4	204.3	224.9	255.6	289.3
60°	154.4	154.1	156.1	157.2	160.4	165.1	172.5	184.9	202.8	227.5	258.5
62.5°	141.3	140.7	142.5	143.9	145.7	149.6	155.7	165.4	180.0	202.3	229.2
65°	121.5	120.7	121.8	123.5	125.1	127.2	131.7	140.4	151.9	168.0	188.4
67.5°	101.7	102.6	102.8	103.6	104.6	107.5	110.5	116.6	124.8	137.7	155.0
70°	89.9	90.2	91.0	91.0	91.6	94.2	96.7	100.2	108.3	120.1	134.2
72.5°	78.1	79.0	78.6	79.3	79.8	81.5	83.3	86.8	93.5	102.4	114.3
75°	60.8	61.4	61.4	61.6	62.2	62.9	64.4	66.9	71.8	78.3	86.5
77.5°	44.3	44.4	44.7	45.5	45.5	46.5	47.5	49.6	52.0	56.4	61.5
80°	34.2	34.6	34.4	34.9	34.9	35.7	36.1	38.6	39.7	42.6	46.6
82.5°	25.1	25.5	25.4	26.0	26.4	26.6	27.1	28.2	29.2	31.8	33.4
85°	12.7	13.1	12.7	13.1	13.7	13.9	14.5	14.8	15.6	16.2	17.7
87.5°	9.1	9.5	9.5	9.5	9.8	9.8	9.7	9.4	9.8	9.7	10.1
90°	27.1	26.7	26.3	25.9	25.5	24.7	23.5	22.3	21.0	19.9	18.3
92.5°	25.0	24.9	24.8	24.7	24.6	24.0	22.7	21.6	20.3	19.2	17.6
95°	26.2	26.0	25.8	25.6	25.4	24.7	23.5	22.3	21.0	19.9	19.7
97.5°	25.3	25.1	24.9	24.7	24.5	24.3	24.3	24.1	24.0	23.8	46.3
100°	25.3	25.1	24.9	24.7	24.5	26.1	29.5	32.9	36.4	39.8	67.5
102.5°	26.0	25.9	25.9	25.9	25.9	44.2	81.1	117.9	154.7	191.5	195.1
105°	257.5	264.7	272.0	279.2	286.4	289.1	287.3	285.5	283.7	281.9	280.9
107.5°	358.8	358.1	357.3	356.6	355.8	355.0	354.1	353.2	352.3	351.4	350.1
110°	403.0	402.3	401.7	401.2	400.6	400.0	399.7	399.2	398.9	398.4	397.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	447.0	446.3	445.5	444.8	444.0	443.6	443.7	443.8	443.9	444.0	443.4
115°	511.4	511.4	511.4	511.4	511.4	511.1	510.8	510.3	510.0	509.5	509.8
117.5°	576.8	576.8	576.9	577.0	577.1	577.2	577.3	577.3	577.4	577.5	577.0
120°	618.0	618.4	618.8	619.2	619.6	619.6	619.2	618.8	618.4	618.0	618.1
122.5°	658.4	658.9	659.2	659.7	660.0	660.1	659.9	659.7	659.4	659.2	658.9
125°	719.2	719.0	718.7	718.5	718.4	717.9	717.4	716.8	716.1	715.5	716.0
127.5°	772.5	772.6	772.8	772.9	773.1	773.2	773.4	773.5	773.6	773.7	772.8
130°	808.6	808.6	808.6	808.6	808.6	808.5	808.3	808.1	807.9	807.7	807.1
132.5°	841.9	842.0	842.1	842.3	842.5	842.5	842.3	842.0	841.9	841.7	840.9
135°	891.7	891.4	890.9	890.6	890.1	889.7	889.3	888.9	888.5	888.1	887.3
137.5°	934.3	934.5	934.6	934.7	934.9	934.7	934.2	933.8	933.4	932.9	932.0
140°	964.0	963.8	963.6	963.4	963.2	962.8	962.2	961.6	961.0	960.4	960.0
142.5°	988.6	988.6	988.5	988.5	988.4	988.2	987.7	987.3	986.9	986.4	986.1
145°	1026.4	1025.9	1025.6	1025.1	1024.8	1024.4	1024.2	1024.0	1023.9	1023.6	1023.6
147.5°	1057.6	1057.4	1057.2	1057.0	1056.8	1056.6	1056.4	1056.3	1056.1	1056.0	1056.1
150°	1077.8	1077.6	1077.5	1077.2	1077.0	1076.9	1076.9	1076.9	1076.9	1076.9	1077.1
152.5°	1095.2	1095.3	1095.4	1095.6	1095.6	1095.6	1095.2	1094.9	1094.6	1094.3	1094.7
155°	1118.5	1119.1	1119.7	1120.3	1120.9	1120.8	1120.0	1119.2	1118.4	1117.6	1118.2
157.5°	1138.0	1139.1	1140.1	1141.1	1142.2	1142.2	1141.1	1140.1	1139.1	1138.0	1138.7
160°	1151.0	1152.2	1153.4	1154.6	1155.8	1155.8	1154.6	1153.4	1152.2	1151.0	1151.2
162.5°	1161.1	1162.5	1163.9	1165.2	1166.6	1166.6	1165.5	1164.2	1163.1	1161.8	1162.1
165°	1175.4	1177.2	1179.0	1180.8	1182.6	1182.8	1181.2	1179.6	1177.9	1176.3	1176.3
167.5°	1186.1	1188.1	1190.1	1192.1	1194.1	1194.2	1192.5	1190.7	1188.9	1187.1	1187.3
170°	1192.6	1194.5	1196.6	1198.5	1200.6	1200.8	1199.2	1197.6	1196.0	1194.4	1194.2
172.5°	1196.1	1198.4	1200.5	1202.7	1204.9	1205.1	1203.5	1201.9	1200.3	1198.7	1198.5
175°	1200.7	1203.1	1205.5	1207.9	1210.3	1210.7	1208.8	1207.0	1205.2	1203.5	1203.2
177.5°	1203.6	1205.5	1207.5	1209.3	1211.3	1211.7	1210.3	1209.1	1207.7	1206.5	1206.1
180°	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4
2.5°	525.8	523.4	521.7	520.4	516.7	514.5	512.8	510.5	507.7	504.9	501.3
5°	555.6	548.5	543.2	535.2	527.6	521.3	514.7	508.8	501.7	493.8	488.1
7.5°	587.0	576.3	562.7	550.8	537.4	525.8	515.5	504.9	493.8	483.0	473.2
10°	607.0	593.3	578.0	560.1	543.2	528.2	514.3	500.8	487.7	474.7	463.4
12.5°	628.4	611.3	588.8	567.8	548.9	528.9	512.1	495.5	479.7	466.0	453.0
15°	657.2	632.5	606.5	578.5	553.6	530.1	507.1	486.2	468.5	450.3	437.7
17.5°	674.8	644.3	614.7	585.3	555.2	525.6	500.8	476.7	454.5	436.5	420.5
20°	686.5	656.1	619.2	589.9	554.0	523.6	494.9	468.1	444.9	425.7	409.2
22.5°	696.6	661.6	624.6	585.9	550.3	518.0	486.6	459.7	436.0	415.7	399.9
25°	702.1	661.8	621.7	583.3	542.8	504.6	476.1	444.4	419.1	397.8	380.9
27.5°	702.8	659.6	614.2	571.6	529.8	494.2	458.3	429.9	403.7	381.1	364.9
30°	700.9	655.9	607.2	561.0	519.0	480.4	449.1	418.3	391.5	369.1	352.2
32.5°	694.9	648.2	598.1	549.1	505.6	467.8	435.6	406.3	380.1	358.1	340.4
35°	677.9	631.6	578.3	527.4	482.9	444.7	415.5	385.8	359.6	338.8	321.6
37.5°	651.1	609.4	555.1	502.5	458.7	420.4	391.5	364.6	341.0	319.8	302.3
40°	627.9	591.1	536.6	485.4	438.1	401.6	374.6	349.9	326.5	306.4	289.7
42.5°	601.0	569.0	518.8	464.5	418.8	382.2	355.9	333.7	311.7	293.1	276.4
45°	553.1	532.0	484.7	434.5	387.0	352.4	327.3	307.9	289.4	271.2	257.3
47.5°	498.1	487.6	447.8	400.1	355.1	320.9	299.2	281.2	264.9	249.6	237.3
50°	461.1	456.0	421.7	375.7	332.6	300.5	278.6	263.1	249.2	235.8	224.1
52.5°	424.6	424.5	393.4	351.3	311.5	280.6	258.8	244.4	232.4	221.4	211.0
55°	368.9	374.8	350.5	313.0	277.3	249.4	229.8	217.0	208.5	199.5	191.6
57.5°	317.7	327.5	307.5	274.4	244.6	219.0	201.9	192.3	183.2	177.7	172.0
60°	284.3	293.6	277.9	250.1	222.0	200.1	183.8	175.1	167.4	163.5	159.5
62.5°	254.6	262.8	251.3	225.4	201.1	179.9	166.2	157.9	152.7	148.6	145.9
65°	212.1	219.1	209.1	190.4	169.4	152.6	141.4	134.8	129.8	128.1	125.1
67.5°	171.5	177.8	172.5	156.5	139.7	126.9	118.2	111.9	108.9	107.5	105.3
70°	147.3	153.6	147.9	134.0	121.1	110.4	102.1	98.5	95.4	94.8	91.8
72.5°	126.9	131.2	125.5	114.6	103.6	94.5	88.1	84.4	82.8	81.6	80.0
75°	95.1	99.0	95.1	86.8	78.9	72.6	67.1	65.6	63.8	63.1	62.1
77.5°	67.3	70.6	67.8	62.5	56.6	51.7	48.8	46.9	46.5	45.4	45.9
80°	51.5	53.6	50.8	47.3	42.6	39.2	37.2	36.1	34.9	34.4	35.2
82.5°	37.0	37.9	36.5	34.1	30.7	28.4	27.0	25.8	25.5	25.6	25.6
85°	19.2	19.0	18.8	16.7	15.6	14.2	13.3	13.1	12.8	13.3	13.7
87.5°	9.7	9.6	9.1	8.0	7.1	6.2	5.5	4.9	5.5	6.2	6.8
90°	16.7	15.1	13.5	11.5	9.4	7.1	4.9	2.7	4.9	7.1	9.4
92.5°	16.0	14.4	12.8	11.9	11.8	11.6	11.5	11.4	11.5	11.6	11.8
95°	19.4	19.3	19.1	22.4	29.2	36.0	42.9	49.7	42.9	36.0	29.2
97.5°	68.7	91.0	113.5	122.5	118.3	114.0	109.8	105.5	109.8	114.0	118.3
100°	95.1	122.9	150.6	162.6	159.0	155.4	151.8	148.2	151.8	155.4	159.0
102.5°	198.8	202.4	206.0	206.4	203.8	201.2	198.5	195.9	198.5	201.2	203.8
105°	279.9	278.8	277.9	276.8	275.5	274.4	273.1	272.0	273.1	274.4	275.5
107.5°	348.7	347.3	346.0	345.0	344.4	343.8	343.2	342.6	343.2	343.8	344.4
110°	396.0	394.8	393.6	392.7	392.1	391.5	390.9	390.3	390.9	391.5	392.1





TEST NUMBER: P332727-940

CATALOG NUMBER: S124DIW-S350D1050U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	442.8	442.3	441.8	440.9	439.8	438.7	437.7	436.6	437.7	438.7	439.8
115°	510.0	510.1	510.3	510.1	509.5	509.0	508.4	507.7	508.4	509.0	509.5
117.5°	576.6	576.1	575.7	575.1	574.3	573.5	572.7	571.9	572.7	573.5	574.3
120°	618.4	618.6	618.8	618.5	617.7	616.9	616.1	615.3	616.1	616.9	617.7
122.5°	658.6	658.4	658.1	657.6	657.2	656.7	656.2	655.8	656.2	656.7	657.2
125°	716.3	716.8	717.1	716.9	716.1	715.3	714.5	713.7	714.5	715.3	716.1
127.5°	771.9	771.0	770.0	769.5	769.3	769.1	768.8	768.7	768.8	769.1	769.3
130°	806.5	805.9	805.3	804.9	804.7	804.5	804.3	804.1	804.3	804.5	804.7
132.5°	840.2	839.4	838.7	838.0	837.7	837.3	837.0	836.6	837.0	837.3	837.7
135°	886.5	885.7	884.9	884.6	884.8	885.0	885.2	885.4	885.2	885.0	884.8
137.5°	931.1	930.2	929.3	928.9	928.8	928.7	928.6	928.5	928.6	928.7	928.8
140°	959.6	959.2	958.8	958.4	958.0	957.6	957.2	956.8	957.2	957.6	958.0
142.5°	985.9	985.7	985.4	985.0	984.3	983.5	982.8	982.0	982.8	983.5	984.3
145°	1023.6	1023.6	1023.6	1023.3	1022.7	1022.1	1021.5	1020.9	1021.5	1022.1	1022.7
147.5°	1056.4	1056.6	1056.8	1056.3	1055.2	1054.1	1052.9	1051.8	1052.9	1054.1	1055.2
150°	1077.4	1077.5	1077.7	1077.5	1076.7	1075.8	1075.0	1074.2	1075.0	1075.8	1076.7
152.5°	1095.0	1095.4	1095.7	1095.6	1094.9	1094.3	1093.7	1093.0	1093.7	1094.3	1094.9
155°	1118.8	1119.4	1120.0	1120.2	1120.0	1119.8	1119.6	1119.4	1119.6	1119.8	1120.0
157.5°	1139.3	1140.1	1140.8	1141.1	1141.2	1141.4	1141.5	1141.7	1141.5	1141.4	1141.2
160°	1151.4	1151.6	1151.8	1152.2	1152.8	1153.4	1154.1	1154.6	1154.1	1153.4	1152.8
162.5°	1162.3	1162.4	1162.6	1163.1	1163.9	1164.7	1165.5	1166.2	1165.5	1164.7	1163.9
165°	1176.3	1176.3	1176.3	1176.8	1177.8	1178.8	1179.8	1180.8	1179.8	1178.8	1177.8
167.5°	1187.4	1187.5	1187.7	1188.2	1189.3	1190.3	1191.3	1192.4	1191.3	1190.3	1189.3
170°	1194.0	1193.7	1193.6	1194.1	1195.2	1196.5	1197.7	1198.9	1197.7	1196.5	1195.2
172.5°	1198.3	1198.1	1197.9	1198.4	1199.6	1200.8	1202.0	1203.2	1202.0	1200.8	1199.6
175°	1203.0	1202.8	1202.7	1203.1	1204.3	1205.5	1206.8	1207.9	1206.8	1205.5	1204.3
177.5°	1205.9	1205.5	1205.2	1205.6	1206.8	1207.8	1209.0	1210.1	1209.0	1207.8	1206.8
180°	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9



TEST NUMBER: P332727-940

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4
2.5°	499.6	498.1	496.0	492.9	490.4	487.7	487.0	486.0	488.0	486.3	485.8
5°	483.3	478.8	473.1	466.6	462.8	457.4	456.3	454.1	452.0	451.8	449.7
7.5°	465.9	459.4	451.9	445.3	439.2	433.1	429.2	428.4	425.3	423.4	421.3
10°	454.8	446.7	438.1	431.8	424.6	418.3	413.8	411.3	409.2	406.9	404.7
12.5°	441.7	433.1	426.0	419.1	410.6	405.8	398.5	394.1	393.7	393.7	388.3
15°	426.3	417.9	406.9	397.2	392.5	383.3	379.2	374.2	371.0	367.8	365.3
17.5°	408.8	398.2	389.7	378.5	369.7	362.3	357.0	354.0	349.2	344.7	341.5
20°	397.8	386.6	377.6	365.7	356.1	347.0	342.5	338.3	334.7	330.9	327.3
22.5°	386.6	375.0	363.9	352.4	343.4	333.8	329.5	323.8	320.4	318.3	314.7
25°	369.1	356.4	343.8	332.8	323.5	315.0	309.4	305.0	301.1	299.4	297.1
27.5°	350.0	337.4	325.2	312.7	302.2	296.0	291.5	288.2	286.0	283.7	282.7
30°	337.9	324.8	311.7	300.1	290.4	284.3	280.1	277.8	276.1	275.0	273.9
32.5°	325.6	312.6	298.9	288.3	279.6	274.1	270.9	268.6	267.8	267.4	267.0
35°	305.8	292.7	280.1	270.5	262.3	260.2	257.4	256.2	255.7	257.3	257.9
37.5°	286.7	274.6	262.9	253.7	248.3	245.2	244.2	244.3	245.8	247.1	248.6
40°	274.4	262.5	251.6	243.5	238.4	236.6	236.1	237.2	238.9	240.4	242.1
42.5°	262.3	250.7	240.8	233.3	229.7	227.9	228.2	229.3	231.7	233.4	235.9
45°	243.8	234.1	224.4	218.2	215.3	215.7	215.7	217.6	219.9	222.7	225.4
47.5°	226.2	216.4	208.5	203.3	201.8	201.4	202.6	205.1	208.4	211.8	215.6
50°	214.5	205.1	198.1	193.5	191.8	192.4	194.1	196.4	200.5	204.7	208.7
52.5°	202.4	193.9	187.5	183.2	182.0	183.2	184.9	188.5	192.1	196.6	201.4
55°	183.8	176.6	171.6	168.4	168.0	168.6	170.5	174.5	179.6	185.3	189.9
57.5°	165.3	159.3	154.6	152.5	152.7	153.3	156.4	161.1	166.6	172.6	178.6
60°	152.8	147.3	143.5	141.8	142.0	143.3	147.1	151.5	158.3	164.2	170.5
62.5°	141.0	136.2	132.5	131.0	130.7	133.5	137.1	141.7	148.5	155.1	161.9
65°	122.0	118.2	115.2	114.4	115.0	117.2	121.8	127.9	133.6	140.5	147.8
67.5°	103.4	100.3	98.3	98.6	99.4	102.5	106.4	111.6	118.2	125.4	132.4
70°	91.6	88.6	86.9	87.1	88.5	92.2	95.6	100.9	107.8	115.2	121.1
72.5°	79.5	77.5	76.0	76.9	78.1	80.7	85.0	90.2	96.4	103.3	109.5
75°	61.0	61.0	60.2	60.8	62.7	65.2	68.4	73.8	80.0	85.5	90.5
77.5°	45.2	44.8	45.3	46.1	47.2	50.2	53.9	57.8	62.3	67.9	72.1
80°	34.6	34.9	35.8	37.2	37.5	39.9	43.7	47.3	50.8	55.5	59.5
82.5°	26.0	26.2	26.8	28.4	28.8	31.3	33.7	37.3	40.6	43.7	47.0
85°	14.2	14.2	15.2	15.9	16.9	18.5	20.1	22.2	25.1	27.2	30.4
87.5°	7.7	8.1	9.1	9.7	10.6	11.8	12.3	14.4	15.3	16.4	18.1
90°	11.5	13.5	15.1	16.7	18.3	19.9	21.0	22.3	23.5	24.7	25.5
92.5°	11.9	12.8	14.4	16.0	17.6	19.2	20.3	21.6	22.7	24.0	24.6
95°	22.4	19.1	19.3	19.4	19.7	19.9	21.0	22.3	23.5	24.7	25.4
97.5°	122.5	113.5	91.0	68.7	46.3	23.8	24.0	24.1	24.3	24.3	24.5
100°	162.6	150.6	122.9	95.1	67.5	39.8	36.4	32.9	29.5	26.1	24.5
102.5°	206.4	206.0	202.4	198.8	195.1	191.5	154.7	117.9	81.1	44.2	25.9
105°	276.8	277.9	278.8	279.9	280.9	281.9	283.7	285.5	287.3	289.1	286.4
107.5°	345.0	346.0	347.3	348.7	350.1	351.4	352.3	353.2	354.1	355.0	355.8
110°	392.7	393.6	394.8	396.0	397.3	398.4	398.9	399.2	399.7	400.0	400.6



TEST NUMBER: P332727-940

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	440.9	441.8	442.3	442.8	443.4	444.0	443.9	443.8	443.7	443.6	444.0
115°	510.1	510.3	510.1	510.0	509.8	509.5	510.0	510.3	510.8	511.1	511.4
117.5°	575.1	575.7	576.1	576.6	577.0	577.5	577.4	577.3	577.3	577.2	577.1
120°	618.5	618.8	618.6	618.4	618.1	618.0	618.4	618.8	619.2	619.6	619.6
122.5°	657.6	658.1	658.4	658.6	658.9	659.2	659.4	659.7	659.9	660.1	660.0
125°	716.9	717.1	716.8	716.3	716.0	715.5	716.1	716.8	717.4	717.9	718.4
127.5°	769.5	770.0	771.0	771.9	772.8	773.7	773.6	773.5	773.4	773.2	773.1
130°	804.9	805.3	805.9	806.5	807.1	807.7	807.9	808.1	808.3	808.5	808.6
132.5°	838.0	838.7	839.4	840.2	840.9	841.7	841.9	842.0	842.3	842.5	842.5
135°	884.6	884.9	885.7	886.5	887.3	888.1	888.5	888.9	889.3	889.7	890.1
137.5°	928.9	929.3	930.2	931.1	932.0	932.9	933.4	933.8	934.2	934.7	934.9
140°	958.4	958.8	959.2	959.6	960.0	960.4	961.0	961.6	962.2	962.8	963.2
142.5°	985.0	985.4	985.7	985.9	986.1	986.4	986.9	987.3	987.7	988.2	988.4
145°	1023.3	1023.6	1023.6	1023.6	1023.6	1023.6	1023.9	1024.0	1024.2	1024.4	1024.8
147.5°	1056.3	1056.8	1056.6	1056.4	1056.1	1056.0	1056.1	1056.3	1056.4	1056.6	1056.8
150°	1077.5	1077.7	1077.5	1077.4	1077.1	1076.9	1076.9	1076.9	1076.9	1076.9	1077.0
152.5°	1095.6	1095.7	1095.4	1095.0	1094.7	1094.3	1094.6	1094.9	1095.2	1095.6	1095.6
155°	1120.2	1120.0	1119.4	1118.8	1118.2	1117.6	1118.4	1119.2	1120.0	1120.8	1120.9
157.5°	1141.1	1140.8	1140.1	1139.3	1138.7	1138.0	1139.1	1140.1	1141.1	1142.2	1142.2
160°	1152.2	1151.8	1151.6	1151.4	1151.2	1151.0	1152.2	1153.4	1154.6	1155.8	1155.8
162.5°	1163.1	1162.6	1162.4	1162.3	1162.1	1161.8	1163.1	1164.2	1165.5	1166.6	1166.6
165°	1176.8	1176.3	1176.3	1176.3	1176.3	1176.3	1177.9	1179.6	1181.2	1182.8	1182.6
167.5°	1188.2	1187.7	1187.5	1187.4	1187.3	1187.1	1188.9	1190.7	1192.5	1194.2	1194.1
170°	1194.1	1193.6	1193.7	1194.0	1194.2	1194.4	1196.0	1197.6	1199.2	1200.8	1200.6
172.5°	1198.4	1197.9	1198.1	1198.3	1198.5	1198.7	1200.3	1201.9	1203.5	1205.1	1204.9
175°	1203.1	1202.7	1202.8	1203.0	1203.2	1203.5	1205.2	1207.0	1208.8	1210.7	1210.3
177.5°	1205.6	1205.2	1205.5	1205.9	1206.1	1206.5	1207.7	1209.1	1210.3	1211.7	1211.3
180°	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9



TEST NUMBER: P332727-940

CATALOG NUMBER: S124DIW-S350D1050U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4
2.5°	485.4	485.2	483.9	483.8	483.9	485.2	485.4	485.8	486.3	488.0	486.0
5°	448.4	447.4	446.7	449.1	446.7	447.4	448.4	449.7	451.8	452.0	454.1
7.5°	420.5	419.7	417.9	417.2	417.9	419.7	420.5	421.3	423.4	425.3	428.4
10°	402.7	401.8	400.1	399.7	400.1	401.8	402.7	404.7	406.9	409.2	411.3
12.5°	385.4	383.8	383.4	383.9	383.4	383.8	385.4	388.3	393.7	393.7	394.1
15°	362.6	361.7	359.4	360.1	359.4	361.7	362.6	365.3	367.8	371.0	374.2
17.5°	340.0	339.0	336.2	338.7	336.2	339.0	340.0	341.5	344.7	349.2	354.0
20°	325.8	324.1	322.7	322.4	322.7	324.1	325.8	327.3	330.9	334.7	338.3
22.5°	312.4	310.9	310.7	309.3	310.7	310.9	312.4	314.7	318.3	320.4	323.8
25°	295.4	294.0	293.6	292.5	293.6	294.0	295.4	297.1	299.4	301.1	305.0
27.5°	282.5	281.8	281.0	281.3	281.0	281.8	282.5	282.7	283.7	286.0	288.2
30°	274.6	274.4	273.9	273.9	273.9	274.4	274.6	273.9	275.0	276.1	277.8
32.5°	268.0	268.0	268.2	268.2	268.2	268.0	268.0	267.0	267.4	267.8	268.6
35°	258.8	259.4	259.8	259.1	259.8	259.4	258.8	257.9	257.3	255.7	256.2
37.5°	250.4	251.0	251.6	252.4	251.6	251.0	250.4	248.6	247.1	245.8	244.3
40°	244.0	245.4	245.8	246.9	245.8	245.4	244.0	242.1	240.4	238.9	237.2
42.5°	237.9	239.5	240.6	240.9	240.6	239.5	237.9	235.9	233.4	231.7	229.3
45°	228.5	230.2	231.8	231.8	231.8	230.2	228.5	225.4	222.7	219.9	217.6
47.5°	218.9	221.3	222.8	223.2	222.8	221.3	218.9	215.6	211.8	208.4	205.1
50°	212.3	215.3	216.8	217.8	216.8	215.3	212.3	208.7	204.7	200.5	196.4
52.5°	205.9	208.8	210.8	211.3	210.8	208.8	205.9	201.4	196.6	192.1	188.5
55°	194.7	199.0	201.3	202.2	201.3	199.0	194.7	189.9	185.3	179.6	174.5
57.5°	184.3	188.2	190.9	191.5	190.9	188.2	184.3	178.6	172.6	166.6	161.1
60°	176.2	180.5	183.8	184.4	183.8	180.5	176.2	170.5	164.2	158.3	151.5
62.5°	167.9	172.4	175.4	177.0	175.4	172.4	167.9	161.9	155.1	148.5	141.7
65°	153.6	158.1	161.0	161.7	161.0	158.1	153.6	147.8	140.5	133.6	127.9
67.5°	138.0	142.5	144.4	145.6	144.4	142.5	138.0	132.4	125.4	118.2	111.6
70°	127.1	130.6	132.8	133.8	132.8	130.6	127.1	121.1	115.2	107.8	100.9
72.5°	114.6	118.3	120.7	121.0	120.7	118.3	114.6	109.5	103.3	96.4	90.2
75°	95.4	98.8	100.0	100.0	100.0	98.8	95.4	90.5	85.5	80.0	73.8
77.5°	75.5	77.2	78.8	79.2	78.8	77.2	75.5	72.1	67.9	62.3	57.8
80°	62.7	63.8	65.0	65.0	65.0	63.8	62.7	59.5	55.5	50.8	47.3
82.5°	49.5	50.4	51.6	51.5	51.6	50.4	49.5	47.0	43.7	40.6	37.3
85°	30.0	31.8	31.7	31.2	31.7	31.8	30.0	30.4	27.2	25.1	22.2
87.5°	18.7	18.9	19.5	20.0	19.5	18.9	18.7	18.1	16.4	15.3	14.4
90°	25.9	26.3	26.7	27.1	26.7	26.3	25.9	25.5	24.7	23.5	22.3
92.5°	24.7	24.8	24.9	25.0	24.9	24.8	24.7	24.6	24.0	22.7	21.6
95°	25.6	25.8	26.0	26.2	26.0	25.8	25.6	25.4	24.7	23.5	22.3
97.5°	24.7	24.9	25.1	25.3	25.1	24.9	24.7	24.5	24.3	24.3	24.1
100°	24.7	24.9	25.1	25.3	25.1	24.9	24.7	24.5	26.1	29.5	32.9
102.5°	25.9	25.9	25.9	26.0	25.9	25.9	25.9	25.9	44.2	81.1	117.9
105°	279.2	272.0	264.7	257.5	264.7	272.0	279.2	286.4	289.1	287.3	285.5
107.5°	356.6	357.3	358.1	358.8	358.1	357.3	356.6	355.8	355.0	354.1	353.2
110°	401.2	401.7	402.3	403.0	402.3	401.7	401.2	400.6	400.0	399.7	399.2



TEST NUMBER: P332727-940

CATALOG NUMBER: S124DIW-S350D1050U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	444.8	445.5	446.3	447.0	446.3	445.5	444.8	444.0	443.6	443.7	443.8
115°	511.4	511.4	511.4	511.4	511.4	511.4	511.4	511.4	511.1	510.8	510.3
117.5°	577.0	576.9	576.8	576.8	576.8	576.9	577.0	577.1	577.2	577.3	577.3
120°	619.2	618.8	618.4	618.0	618.4	618.8	619.2	619.6	619.6	619.2	618.8
122.5°	659.7	659.2	658.9	658.4	658.9	659.2	659.7	660.0	660.1	659.9	659.7
125°	718.5	718.7	719.0	719.2	719.0	718.7	718.5	718.4	717.9	717.4	716.8
127.5°	772.9	772.8	772.6	772.5	772.6	772.8	772.9	773.1	773.2	773.4	773.5
130°	808.6	808.6	808.6	808.6	808.6	808.6	808.6	808.6	808.5	808.3	808.1
132.5°	842.3	842.1	842.0	841.9	842.0	842.1	842.3	842.5	842.5	842.3	842.0
135°	890.6	890.9	891.4	891.7	891.4	890.9	890.6	890.1	889.7	889.3	888.9
137.5°	934.7	934.6	934.5	934.3	934.5	934.6	934.7	934.9	934.7	934.2	933.8
140°	963.4	963.6	963.8	964.0	963.8	963.6	963.4	963.2	962.8	962.2	961.6
142.5°	988.5	988.5	988.6	988.6	988.6	988.5	988.5	988.4	988.2	987.7	987.3
145°	1025.1	1025.6	1025.9	1026.4	1025.9	1025.6	1025.1	1024.8	1024.4	1024.2	1024.0
147.5°	1057.0	1057.2	1057.4	1057.6	1057.4	1057.2	1057.0	1056.8	1056.6	1056.4	1056.3
150°	1077.2	1077.5	1077.6	1077.8	1077.6	1077.5	1077.2	1077.0	1076.9	1076.9	1076.9
152.5°	1095.6	1095.4	1095.3	1095.2	1095.3	1095.4	1095.6	1095.6	1095.6	1095.2	1094.9
155°	1120.3	1119.7	1119.1	1118.5	1119.1	1119.7	1120.3	1120.9	1120.8	1120.0	1119.2
157.5°	1141.1	1140.1	1139.1	1138.0	1139.1	1140.1	1141.1	1142.2	1142.2	1141.1	1140.1
160°	1154.6	1153.4	1152.2	1151.0	1152.2	1153.4	1154.6	1155.8	1155.8	1154.6	1153.4
162.5°	1165.2	1163.9	1162.5	1161.1	1162.5	1163.9	1165.2	1166.6	1166.6	1165.5	1164.2
165°	1180.8	1179.0	1177.2	1175.4	1177.2	1179.0	1180.8	1182.6	1182.8	1181.2	1179.6
167.5°	1192.1	1190.1	1188.1	1186.1	1188.1	1190.1	1192.1	1194.1	1194.2	1192.5	1190.7
170°	1198.5	1196.6	1194.5	1192.6	1194.5	1196.6	1198.5	1200.6	1200.8	1199.2	1197.6
172.5°	1202.7	1200.5	1198.4	1196.1	1198.4	1200.5	1202.7	1204.9	1205.1	1203.5	1201.9
175°	1207.9	1205.5	1203.1	1200.7	1203.1	1205.5	1207.9	1210.3	1210.7	1208.8	1207.0
177.5°	1209.3	1207.5	1205.5	1203.6	1205.5	1207.5	1209.3	1211.3	1211.7	1210.3	1209.1
180°	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9



TEST NUMBER: P332727-940

CATALOG NUMBER: S124DIW-S350D1050U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4
2.5°	487.0	487.7	490.4	492.9	496.0	498.1	499.6	501.3	504.9	507.7	510.5
5°	456.3	457.4	462.8	466.6	473.1	478.8	483.3	488.1	493.8	501.7	508.8
7.5°	429.2	433.1	439.2	445.3	451.9	459.4	465.9	473.2	483.0	493.8	504.9
10°	413.8	418.3	424.6	431.8	438.1	446.7	454.8	463.4	474.7	487.7	500.8
12.5°	398.5	405.8	410.6	419.1	426.0	433.1	441.7	453.0	466.0	479.7	495.5
15°	379.2	383.3	392.5	397.2	406.9	417.9	426.3	437.7	450.3	468.5	486.2
17.5°	357.0	362.3	369.7	378.5	389.7	398.2	408.8	420.5	436.5	454.5	476.7
20°	342.5	347.0	356.1	365.7	377.6	386.6	397.8	409.2	425.7	444.9	468.1
22.5°	329.5	333.8	343.4	352.4	363.9	375.0	386.6	399.9	415.7	436.0	459.7
25°	309.4	315.0	323.5	332.8	343.8	356.4	369.1	380.9	397.8	419.1	444.4
27.5°	291.5	296.0	302.2	312.7	325.2	337.4	350.0	364.9	381.1	403.7	429.9
30°	280.1	284.3	290.4	300.1	311.7	324.8	337.9	352.2	369.1	391.5	418.3
32.5°	270.9	274.1	279.6	288.3	298.9	312.6	325.6	340.4	358.1	380.1	406.3
35°	257.4	260.2	262.3	270.5	280.1	292.7	305.8	321.6	338.8	359.6	385.8
37.5°	244.2	245.2	248.3	253.7	262.9	274.6	286.7	302.3	319.8	341.0	364.6
40°	236.1	236.6	238.4	243.5	251.6	262.5	274.4	289.7	306.4	326.5	349.9
42.5°	228.2	227.9	229.7	233.3	240.8	250.7	262.3	276.4	293.1	311.7	333.7
45°	215.7	215.7	215.3	218.2	224.4	234.1	243.8	257.3	271.2	289.4	307.9
47.5°	202.6	201.4	201.8	203.3	208.5	216.4	226.2	237.3	249.6	264.9	281.2
50°	194.1	192.4	191.8	193.5	198.1	205.1	214.5	224.1	235.8	249.2	263.1
52.5°	184.9	183.2	182.0	183.2	187.5	193.9	202.4	211.0	221.4	232.4	244.4
55°	170.5	168.6	168.0	168.4	171.6	176.6	183.8	191.6	199.5	208.5	217.0
57.5°	156.4	153.3	152.7	152.5	154.6	159.3	165.3	172.0	177.7	183.2	192.3
60°	147.1	143.3	142.0	141.8	143.5	147.3	152.8	159.5	163.5	167.4	175.1
62.5°	137.1	133.5	130.7	131.0	132.5	136.2	141.0	145.9	148.6	152.7	157.9
65°	121.8	117.2	115.0	114.4	115.2	118.2	122.0	125.1	128.1	129.8	134.8
67.5°	106.4	102.5	99.4	98.6	98.3	100.3	103.4	105.3	107.5	108.9	111.9
70°	95.6	92.2	88.5	87.1	86.9	88.6	91.6	91.8	94.8	95.4	98.5
72.5°	85.0	80.7	78.1	76.9	76.0	77.5	79.5	80.0	81.6	82.8	84.4
75°	68.4	65.2	62.7	60.8	60.2	61.0	61.0	62.1	63.1	63.8	65.6
77.5°	53.9	50.2	47.2	46.1	45.3	44.8	45.2	45.9	45.4	46.5	46.9
80°	43.7	39.9	37.5	37.2	35.8	34.9	34.6	35.2	34.4	34.9	36.1
82.5°	33.7	31.3	28.8	28.4	26.8	26.2	26.0	25.6	25.6	25.5	25.8
85°	20.1	18.5	16.9	15.9	15.2	14.2	14.2	13.7	13.3	12.8	13.1
87.5°	12.3	11.8	10.6	9.7	9.1	8.1	7.7	6.8	6.2	5.5	4.9
90°	21.0	19.9	18.3	16.7	15.1	13.5	11.5	9.4	7.1	4.9	2.7
92.5°	20.3	19.2	17.6	16.0	14.4	12.8	11.9	11.8	11.6	11.5	11.4
95°	21.0	19.9	19.7	19.4	19.3	19.1	22.4	29.2	36.0	42.9	49.7
97.5°	24.0	23.8	46.3	68.7	91.0	113.5	122.5	118.3	114.0	109.8	105.5
100°	36.4	39.8	67.5	95.1	122.9	150.6	162.6	159.0	155.4	151.8	148.2
102.5°	154.7	191.5	195.1	198.8	202.4	206.0	206.4	203.8	201.2	198.5	195.9
105°	283.7	281.9	280.9	279.9	278.8	277.9	276.8	275.5	274.4	273.1	272.0
107.5°	352.3	351.4	350.1	348.7	347.3	346.0	345.0	344.4	343.8	343.2	342.6
110°	398.9	398.4	397.3	396.0	394.8	393.6	392.7	392.1	391.5	390.9	390.3



TEST NUMBER: P332727-940

CATALOG NUMBER: S124DIW-S350D1050U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	443.9	444.0	443.4	442.8	442.3	441.8	440.9	439.8	438.7	437.7	436.6
115°	510.0	509.5	509.8	510.0	510.1	510.3	510.1	509.5	509.0	508.4	507.7
117.5°	577.4	577.5	577.0	576.6	576.1	575.7	575.1	574.3	573.5	572.7	571.9
120°	618.4	618.0	618.1	618.4	618.6	618.8	618.5	617.7	616.9	616.1	615.3
122.5°	659.4	659.2	658.9	658.6	658.4	658.1	657.6	657.2	656.7	656.2	655.8
125°	716.1	715.5	716.0	716.3	716.8	717.1	716.9	716.1	715.3	714.5	713.7
127.5°	773.6	773.7	772.8	771.9	771.0	770.0	769.5	769.3	769.1	768.8	768.7
130°	807.9	807.7	807.1	806.5	805.9	805.3	804.9	804.7	804.5	804.3	804.1
132.5°	841.9	841.7	840.9	840.2	839.4	838.7	838.0	837.7	837.3	837.0	836.6
135°	888.5	888.1	887.3	886.5	885.7	884.9	884.6	884.8	885.0	885.2	885.4
137.5°	933.4	932.9	932.0	931.1	930.2	929.3	928.9	928.8	928.7	928.6	928.5
140°	961.0	960.4	960.0	959.6	959.2	958.8	958.4	958.0	957.6	957.2	956.8
142.5°	986.9	986.4	986.1	985.9	985.7	985.4	985.0	984.3	983.5	982.8	982.0
145°	1023.9	1023.6	1023.6	1023.6	1023.6	1023.6	1023.3	1022.7	1022.1	1021.5	1020.9
147.5°	1056.1	1056.0	1056.1	1056.4	1056.6	1056.8	1056.3	1055.2	1054.1	1052.9	1051.8
150°	1076.9	1076.9	1077.1	1077.4	1077.5	1077.7	1077.5	1076.7	1075.8	1075.0	1074.2
152.5°	1094.6	1094.3	1094.7	1095.0	1095.4	1095.7	1095.6	1094.9	1094.3	1093.7	1093.0
155°	1118.4	1117.6	1118.2	1118.8	1119.4	1120.0	1120.2	1120.0	1119.8	1119.6	1119.4
157.5°	1139.1	1138.0	1138.7	1139.3	1140.1	1140.8	1141.1	1141.2	1141.4	1141.5	1141.7
160°	1152.2	1151.0	1151.2	1151.4	1151.6	1151.8	1152.2	1152.8	1153.4	1154.1	1154.6
162.5°	1163.1	1161.8	1162.1	1162.3	1162.4	1162.6	1163.1	1163.9	1164.7	1165.5	1166.2
165°	1177.9	1176.3	1176.3	1176.3	1176.3	1176.3	1176.8	1177.8	1178.8	1179.8	1180.8
167.5°	1188.9	1187.1	1187.3	1187.4	1187.5	1187.7	1188.2	1189.3	1190.3	1191.3	1192.4
170°	1196.0	1194.4	1194.2	1194.0	1193.7	1193.6	1194.1	1195.2	1196.5	1197.7	1198.9
172.5°	1200.3	1198.7	1198.5	1198.3	1198.1	1197.9	1198.4	1199.6	1200.8	1202.0	1203.2
175°	1205.2	1203.5	1203.2	1203.0	1202.8	1202.7	1203.1	1204.3	1205.5	1206.8	1207.9
177.5°	1207.7	1206.5	1206.1	1205.9	1205.5	1205.2	1205.6	1206.8	1207.8	1209.0	1210.1
180°	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9



TEST NUMBER: P332727-940

CATALOG NUMBER: S124DIW-S350D1050U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4
2.5°	512.8	514.5	516.7	520.4	521.7	523.4	525.8	525.7	526.3	528.9	534.2
5°	514.7	521.3	527.6	535.2	543.2	548.5	555.6	560.1	564.5	570.2	580.0
7.5°	515.5	525.8	537.4	550.8	562.7	576.3	587.0	597.1	606.2	618.1	629.7
10°	514.3	528.2	543.2	560.1	578.0	593.3	607.0	622.6	635.9	650.4	663.5
12.5°	512.1	528.9	548.9	567.8	588.8	611.3	628.4	644.2	661.8	678.6	698.8
15°	507.1	530.1	553.6	578.5	606.5	632.5	657.2	677.6	696.6	721.8	748.1
17.5°	500.8	525.6	555.2	585.3	614.7	644.3	674.8	705.6	729.6	760.8	781.4
20°	494.9	523.6	554.0	589.9	619.2	656.1	686.5	716.2	749.2	780.2	804.9
22.5°	486.6	518.0	550.3	585.9	624.6	661.6	696.6	728.9	761.9	795.6	825.5
25°	476.1	504.6	542.8	583.3	621.7	661.8	702.1	742.6	778.1	813.8	841.6
27.5°	458.3	494.2	529.8	571.6	614.2	659.6	702.8	745.1	782.3	811.6	828.8
30°	449.1	480.4	519.0	561.0	607.2	655.9	700.9	742.4	777.0	800.5	807.4
32.5°	435.6	467.8	505.6	549.1	598.1	648.2	694.9	734.1	763.0	775.3	767.0
35°	415.5	444.7	482.9	527.4	578.3	631.6	677.9	711.0	725.8	714.2	685.3
37.5°	391.5	420.4	458.7	502.5	555.1	609.4	651.1	675.0	670.1	641.2	598.2
40°	374.6	401.6	438.1	485.4	536.6	591.1	627.9	640.7	627.2	585.9	540.0
42.5°	355.9	382.2	418.8	464.5	518.8	569.0	601.0	602.1	579.4	529.9	484.0
45°	327.3	352.4	387.0	434.5	484.7	532.0	553.1	542.8	501.0	453.3	407.1
47.5°	299.2	320.9	355.1	400.1	447.8	487.6	498.1	479.5	435.0	388.6	345.8
50°	278.6	300.5	332.6	375.7	421.7	456.0	461.1	436.4	392.7	346.1	312.5
52.5°	258.8	280.6	311.5	351.3	393.4	424.5	424.6	396.1	352.6	311.0	279.8
55°	229.8	249.4	277.3	313.0	350.5	374.8	368.9	339.4	301.6	265.5	238.3
57.5°	201.9	219.0	244.6	274.4	307.5	327.5	317.7	289.3	255.6	224.9	204.3
60°	183.8	200.1	222.0	250.1	277.9	293.6	284.3	258.5	227.5	202.8	184.9
62.5°	166.2	179.9	201.1	225.4	251.3	262.8	254.6	229.2	202.3	180.0	165.4
65°	141.4	152.6	169.4	190.4	209.1	219.1	212.1	188.4	168.0	151.9	140.4
67.5°	118.2	126.9	139.7	156.5	172.5	177.8	171.5	155.0	137.7	124.8	116.6
70°	102.1	110.4	121.1	134.0	147.9	153.6	147.3	134.2	120.1	108.3	100.2
72.5°	88.1	94.5	103.6	114.6	125.5	131.2	126.9	114.3	102.4	93.5	86.8
75°	67.1	72.6	78.9	86.8	95.1	99.0	95.1	86.5	78.3	71.8	66.9
77.5°	48.8	51.7	56.6	62.5	67.8	70.6	67.3	61.5	56.4	52.0	49.6
80°	37.2	39.2	42.6	47.3	50.8	53.6	51.5	46.6	42.6	39.7	38.6
82.5°	27.0	28.4	30.7	34.1	36.5	37.9	37.0	33.4	31.8	29.2	28.2
85°	13.3	14.2	15.6	16.7	18.8	19.0	19.2	17.7	16.2	15.6	14.8
87.5°	5.5	6.2	7.1	8.0	9.1	9.6	9.7	10.1	9.7	9.8	9.4
90°	4.9	7.1	9.4	11.5	13.5	15.1	16.7	18.3	19.9	21.0	22.3
92.5°	11.5	11.6	11.8	11.9	12.8	14.4	16.0	17.6	19.2	20.3	21.6
95°	42.9	36.0	29.2	22.4	19.1	19.3	19.4	19.7	19.9	21.0	22.3
97.5°	109.8	114.0	118.3	122.5	113.5	91.0	68.7	46.3	23.8	24.0	24.1
100°	151.8	155.4	159.0	162.6	150.6	122.9	95.1	67.5	39.8	36.4	32.9
102.5°	198.5	201.2	203.8	206.4	206.0	202.4	198.8	195.1	191.5	154.7	117.9
105°	273.1	274.4	275.5	276.8	277.9	278.8	279.9	280.9	281.9	283.7	285.5
107.5°	343.2	343.8	344.4	345.0	346.0	347.3	348.7	350.1	351.4	352.3	353.2
110°	390.9	391.5	392.1	392.7	393.6	394.8	396.0	397.3	398.4	398.9	399.2





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	437.7	438.7	439.8	440.9	441.8	442.3	442.8	443.4	444.0	443.9	443.8
115°	508.4	509.0	509.5	510.1	510.3	510.1	510.0	509.8	509.5	510.0	510.3
117.5°	572.7	573.5	574.3	575.1	575.7	576.1	576.6	577.0	577.5	577.4	577.3
120°	616.1	616.9	617.7	618.5	618.8	618.6	618.4	618.1	618.0	618.4	618.8
122.5°	656.2	656.7	657.2	657.6	658.1	658.4	658.6	658.9	659.2	659.4	659.7
125°	714.5	715.3	716.1	716.9	717.1	716.8	716.3	716.0	715.5	716.1	716.8
127.5°	768.8	769.1	769.3	769.5	770.0	771.0	771.9	772.8	773.7	773.6	773.5
130°	804.3	804.5	804.7	804.9	805.3	805.9	806.5	807.1	807.7	807.9	808.1
132.5°	837.0	837.3	837.7	838.0	838.7	839.4	840.2	840.9	841.7	841.9	842.0
135°	885.2	885.0	884.8	884.6	884.9	885.7	886.5	887.3	888.1	888.5	888.9
137.5°	928.6	928.7	928.8	928.9	929.3	930.2	931.1	932.0	932.9	933.4	933.8
140°	957.2	957.6	958.0	958.4	958.8	959.2	959.6	960.0	960.4	961.0	961.6
142.5°	982.8	983.5	984.3	985.0	985.4	985.7	985.9	986.1	986.4	986.9	987.3
145°	1021.5	1022.1	1022.7	1023.3	1023.6	1023.6	1023.6	1023.6	1023.6	1023.9	1024.0
147.5°	1052.9	1054.1	1055.2	1056.3	1056.8	1056.6	1056.4	1056.1	1056.0	1056.1	1056.3
150°	1075.0	1075.8	1076.7	1077.5	1077.7	1077.5	1077.4	1077.1	1076.9	1076.9	1076.9
152.5°	1093.7	1094.3	1094.9	1095.6	1095.7	1095.4	1095.0	1094.7	1094.3	1094.6	1094.9
155°	1119.6	1119.8	1120.0	1120.2	1120.0	1119.4	1118.8	1118.2	1117.6	1118.4	1119.2
157.5°	1141.5	1141.4	1141.2	1141.1	1140.8	1140.1	1139.3	1138.7	1138.0	1139.1	1140.1
160°	1154.1	1153.4	1152.8	1152.2	1151.8	1151.6	1151.4	1151.2	1151.0	1152.2	1153.4
162.5°	1165.5	1164.7	1163.9	1163.1	1162.6	1162.4	1162.3	1162.1	1161.8	1163.1	1164.2
165°	1179.8	1178.8	1177.8	1176.8	1176.3	1176.3	1176.3	1176.3	1176.3	1177.9	1179.6
167.5°	1191.3	1190.3	1189.3	1188.2	1187.7	1187.5	1187.4	1187.3	1187.1	1188.9	1190.7
170°	1197.7	1196.5	1195.2	1194.1	1193.6	1193.7	1194.0	1194.2	1194.4	1196.0	1197.6
172.5°	1202.0	1200.8	1199.6	1198.4	1197.9	1198.1	1198.3	1198.5	1198.7	1200.3	1201.9
175°	1206.8	1205.5	1204.3	1203.1	1202.7	1202.8	1203.0	1203.2	1203.5	1205.2	1207.0
177.5°	1209.0	1207.8	1206.8	1205.6	1205.2	1205.5	1205.9	1206.1	1206.5	1207.7	1209.1
180°	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	509.4	509.4	509.4	509.4	509.4	509.4	509.4
2.5°	537.0	537.3	538.9	540.0	540.4	542.1	542.2
5°	584.2	587.7	594.7	595.3	596.4	601.9	597.6
7.5°	639.4	648.5	654.6	660.0	661.9	664.3	663.9
10°	674.9	688.4	695.2	706.0	706.3	709.1	707.4
12.5°	710.5	726.2	738.5	740.6	749.6	751.0	753.3
15°	761.0	777.7	794.8	800.9	813.3	816.3	820.9
17.5°	808.4	825.5	837.5	853.3	858.4	865.2	860.6
20°	834.5	853.0	868.3	880.7	885.9	889.7	889.3
22.5°	850.2	868.9	881.2	890.6	895.5	897.2	897.1
25°	860.0	870.8	874.6	878.2	872.6	870.8	871.6
27.5°	832.6	829.8	819.9	806.9	793.4	782.7	776.9
30°	795.0	778.6	763.6	737.4	723.9	715.9	708.6
32.5°	741.6	715.5	686.7	662.7	647.4	635.5	633.7
35°	650.2	611.0	575.7	546.4	531.2	518.4	515.3
37.5°	552.8	512.0	480.3	454.4	438.1	429.0	420.5
40°	488.1	453.1	421.9	399.9	387.4	380.9	375.7
42.5°	438.4	406.4	375.2	358.6	347.3	343.3	340.2
45°	369.5	339.7	318.3	305.6	299.1	292.3	289.1
47.5°	314.4	290.3	276.1	265.3	258.2	254.2	252.3
50°	283.2	263.4	250.7	242.5	236.1	233.0	231.3
52.5°	255.6	239.2	228.6	222.0	217.8	215.4	214.7
55°	220.1	207.7	200.9	195.2	192.1	189.9	189.1
57.5°	191.4	181.7	176.3	171.6	170.3	168.6	168.0
60°	172.5	165.1	160.4	157.2	156.1	154.1	154.4
62.5°	155.7	149.6	145.7	143.9	142.5	140.7	141.3
65°	131.7	127.2	125.1	123.5	121.8	120.7	121.5
67.5°	110.5	107.5	104.6	103.6	102.8	102.6	101.7
70°	96.7	94.2	91.6	91.0	91.0	90.2	89.9
72.5°	83.3	81.5	79.8	79.3	78.6	79.0	78.1
75°	64.4	62.9	62.2	61.6	61.4	61.4	60.8
77.5°	47.5	46.5	45.5	45.5	44.7	44.4	44.3
80°	36.1	35.7	34.9	34.9	34.4	34.6	34.2
82.5°	27.1	26.6	26.4	26.0	25.4	25.5	25.1
85°	14.5	13.9	13.7	13.1	12.7	13.1	12.7
87.5°	9.7	9.8	9.8	9.5	9.5	9.5	9.1
90°	23.5	24.7	25.5	25.9	26.3	26.7	27.1
92.5°	22.7	24.0	24.6	24.7	24.8	24.9	25.0
95°	23.5	24.7	25.4	25.6	25.8	26.0	26.2
97.5°	24.3	24.3	24.5	24.7	24.9	25.1	25.3
100°	29.5	26.1	24.5	24.7	24.9	25.1	25.3
102.5°	81.1	44.2	25.9	25.9	25.9	25.9	26.0
105°	287.3	289.1	286.4	279.2	272.0	264.7	257.5
107.5°	354.1	355.0	355.8	356.6	357.3	358.1	358.8
110°	399.7	400.0	400.6	401.2	401.7	402.3	403.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	443.7	443.6	444.0	444.8	445.5	446.3	447.0
115°	510.8	511.1	511.4	511.4	511.4	511.4	511.4
117.5°	577.3	577.2	577.1	577.0	576.9	576.8	576.8
120°	619.2	619.6	619.6	619.2	618.8	618.4	618.0
122.5°	659.9	660.1	660.0	659.7	659.2	658.9	658.4
125°	717.4	717.9	718.4	718.5	718.7	719.0	719.2
127.5°	773.4	773.2	773.1	772.9	772.8	772.6	772.5
130°	808.3	808.5	808.6	808.6	808.6	808.6	808.6
132.5°	842.3	842.5	842.5	842.3	842.1	842.0	841.9
135°	889.3	889.7	890.1	890.6	890.9	891.4	891.7
137.5°	934.2	934.7	934.9	934.7	934.6	934.5	934.3
140°	962.2	962.8	963.2	963.4	963.6	963.8	964.0
142.5°	987.7	988.2	988.4	988.5	988.5	988.6	988.6
145°	1024.2	1024.4	1024.8	1025.1	1025.6	1025.9	1026.4
147.5°	1056.4	1056.6	1056.8	1057.0	1057.2	1057.4	1057.6
150°	1076.9	1076.9	1077.0	1077.2	1077.5	1077.6	1077.8
152.5°	1095.2	1095.6	1095.6	1095.6	1095.4	1095.3	1095.2
155°	1120.0	1120.8	1120.9	1120.3	1119.7	1119.1	1118.5
157.5°	1141.1	1142.2	1142.2	1141.1	1140.1	1139.1	1138.0
160°	1154.6	1155.8	1155.8	1154.6	1153.4	1152.2	1151.0
162.5°	1165.5	1166.6	1166.6	1165.2	1163.9	1162.5	1161.1
165°	1181.2	1182.8	1182.6	1180.8	1179.0	1177.2	1175.4
167.5°	1192.5	1194.2	1194.1	1192.1	1190.1	1188.1	1186.1
170°	1199.2	1200.8	1200.6	1198.5	1196.6	1194.5	1192.6
172.5°	1203.5	1205.1	1204.9	1202.7	1200.5	1198.4	1196.1
175°	1208.8	1210.7	1210.3	1207.9	1205.5	1203.1	1200.7
177.5°	1210.3	1211.7	1211.3	1209.3	1207.5	1205.5	1203.6
180°	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9

(END OF REPORT)