

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: P332398-940

Luminaire Tested: **S123RDIW-S340D1030U940-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332398-940  
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: S123RDIW-S340D1030U940-4F0-1E-UDD-A  
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1030 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4888.0 lumens  
Efficiency: N/A  
Efficacy: 128.6 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

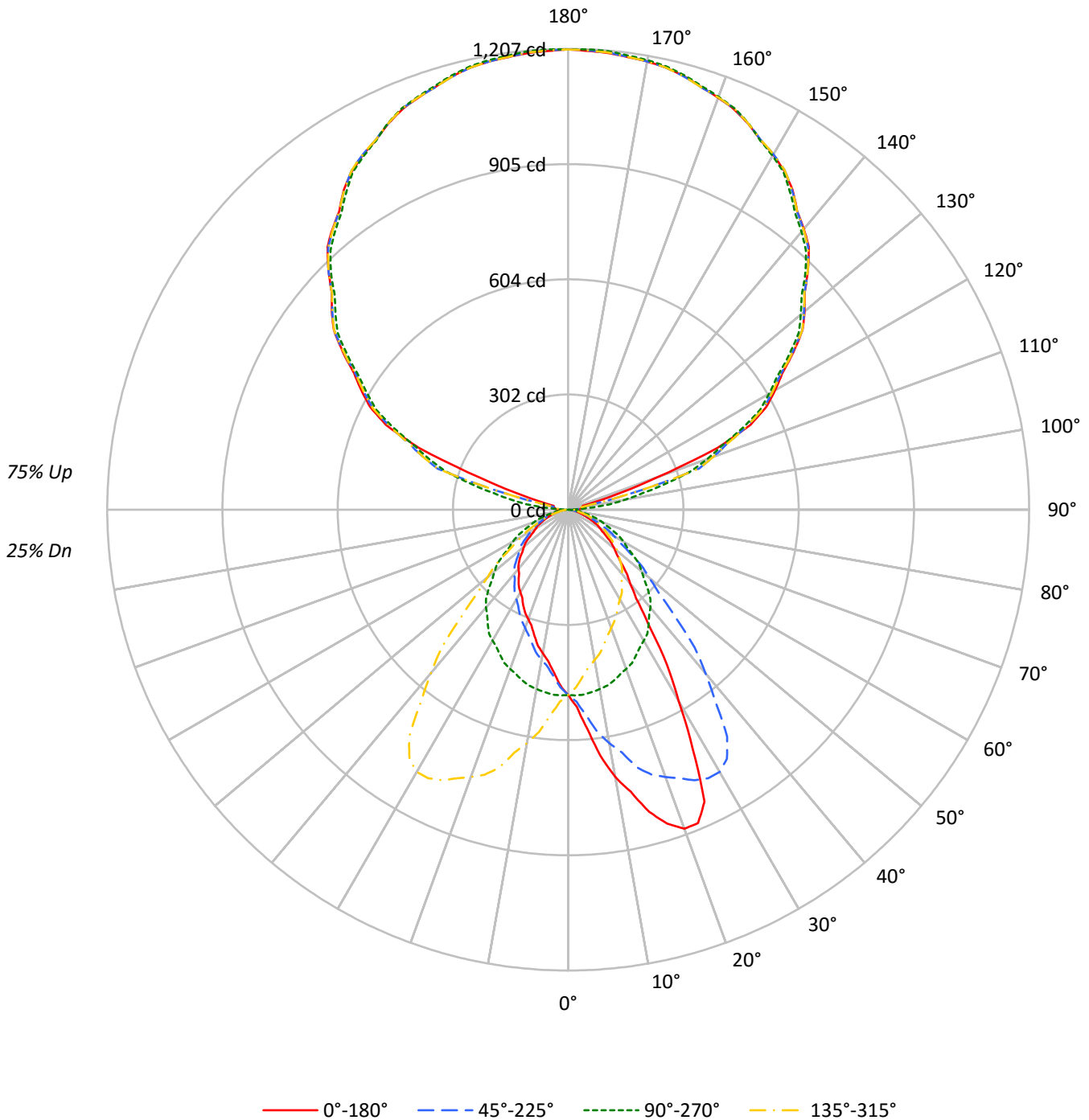
Input Watts (W): 38  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				20	
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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	33	33	33	25
1	92	88	85	81	82	79	76	73	61	59	57	45	43	42	30	29	28	21
2	84	77	72	67	75	69	64	60	54	51	48	39	37	36	26	25	24	18
3	77	68	61	56	68	61	55	51	48	44	40	35	33	31	24	22	21	16
4	71	60	53	47	63	54	48	43	42	38	35	31	29	26	21	20	18	14
5	65	54	46	41	57	48	42	37	38	33	30	28	25	23	19	17	16	12
6	60	48	41	35	53	43	37	32	34	29	26	26	22	20	17	16	14	11
7	55	43	36	31	49	39	33	28	31	26	23	23	20	18	16	14	13	10
8	51	39	32	27	45	35	29	25	28	23	20	21	18	16	15	13	11	9
9	47	36	29	24	42	32	26	22	26	21	18	19	16	14	14	12	10	8
10	44	33	26	21	39	30	24	20	24	19	16	18	15	13	13	11	9	7

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

	0°	90°	180°	270°
0°	5224	5224	5224	5224
5°	6227	5246	4620	5246
10°	7774	5216	4173	5216
15°	9126	5162	3806	5162
20°	10186	5082	3494	5082
25°	10023	4999	3301	4999
30°	7204	4922	3104	4922
35°	4809	4820	2975	4820
40°	3544	4700	2843	4700
45°	2973	4488	2714	4488
50°	2624	4210	2532	4210
55°	2301	3890	2284	3890
60°	2047	3587	2093	3587
65°	1798	3260	1946	3260
70°	1413	2968	1778	2968
75°	1243	2591	1626	2591
80°	1085	2201	1599	2201
85°	865	1778	1692	1778



TEST NUMBER: P332398-940

CATALOG NUMBER: S123RDIW-S340D1030U940-4F0-1E-UDD-A

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.7	1.0
10°-20°	149.1	3.1
20°-30°	234.2	4.8
30°-40°	244.4	5.0
40°-50°	209.1	4.3
50°-60°	159.4	3.3
60°-70°	102.2	2.1
70°-80°	49.1	1.0
80°-90°	16.4	0.3
90°-100°	43.8	0.9
100°-110°	208.9	4.3
110°-120°	501.7	10.3
120°-130°	638.9	13.1
130°-140°	682.7	14.0
140°-150°	638.4	13.1
150°-160°	514.9	10.5
160°-170°	332.3	6.8
170°-180°	114.5	2.3
0°-30°	431.1	8.8
0°-40°	675.4	13.8
0°-60°	1044.0	21.4
0°-90°	1211.7	24.8
90°-120°	754.5	15.4
90°-150°	2714.5	55.5
90°-180°	3676.0	75.2
0°-180°	4888.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	485	485	485	485	485	
5°	576	486	428	486	576	59
15°	819	463	342	463	819	232
25°	844	421	278	421	844	363
35°	366	367	226	367	366	240
45°	195	295	178	295	195	154
55°	123	207	122	207	123	111
65°	71	128	76	128	71	69
75°	30	62	39	62	30	32
85°	7	14	14	14	7	9
90°	27	1	27	1	27	12
95°	34	55	34	55	34	28
105°	39	267	39	267	39	90
115°	527	501	527	501	527	487
125°	720	706	720	706	720	643
135°	888	879	888	879	888	684
145°	1024	1014	1024	1014	1024	639
155°	1115	1117	1115	1117	1115	514
165°	1175	1178	1175	1178	1175	332
175°	1201	1206	1201	1206	1201	114
180°	1206	1206	1206	1206	1206	



TEST NUMBER: P332398-940

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3
2.5°	516.9	517.5	515.4	515.1	512.6	511.9	511.9	508.4	506.2	503.5	501.8
5°	576.3	579.6	577.9	574.3	568.0	566.5	562.6	556.3	549.3	540.6	536.5
7.5°	650.5	655.1	653.3	647.6	641.0	635.7	624.6	614.2	599.8	587.0	576.1
10°	711.3	706.6	702.8	697.2	691.2	681.4	669.8	653.8	635.3	620.7	604.6
12.5°	756.9	756.1	751.4	745.6	737.1	727.8	713.5	694.0	672.5	651.5	632.9
15°	818.9	820.2	817.1	811.1	799.0	782.6	761.0	752.9	722.1	699.3	676.5
17.5°	861.9	861.7	861.2	852.9	840.6	828.9	808.9	787.6	759.7	727.5	696.8
20°	889.2	887.1	887.5	878.2	869.1	855.5	836.0	805.0	782.2	745.0	713.2
22.5°	888.5	888.1	889.7	886.4	879.9	869.5	854.1	828.0	798.8	761.3	725.5
25°	843.9	842.2	851.9	854.7	865.3	867.2	862.6	848.3	820.6	781.9	737.7
27.5°	706.2	705.3	723.4	746.2	774.9	797.3	818.9	829.3	820.6	792.9	748.6
30°	579.6	599.1	608.3	641.1	677.7	721.3	759.6	795.9	804.9	792.7	756.4
32.5°	481.3	498.3	506.0	534.0	568.2	619.3	676.6	728.1	764.5	773.6	751.8
35°	366.0	366.2	383.7	396.2	427.8	480.3	536.0	604.9	673.5	725.5	730.8
37.5°	292.1	293.1	303.7	316.1	339.8	367.6	416.6	473.9	553.1	632.8	679.7
40°	252.2	254.0	262.0	274.2	291.2	312.3	350.4	404.5	470.6	559.3	631.8
42.5°	226.6	229.6	233.7	243.2	253.7	273.4	304.3	346.0	406.1	490.0	573.6
45°	195.3	197.0	200.1	204.5	214.0	227.7	248.4	276.5	326.4	393.9	477.6
47.5°	172.3	171.4	174.7	178.2	184.6	193.9	207.9	230.7	266.3	320.5	391.5
50°	156.7	156.4	158.7	161.4	167.5	174.3	185.7	203.0	231.2	276.1	341.2
52.5°	142.0	142.8	144.5	147.8	152.1	157.7	167.9	180.4	204.6	243.3	297.6
55°	122.6	123.2	125.5	127.3	130.5	136.1	142.5	152.9	169.5	196.5	241.2
57.5°	106.1	105.8	108.0	108.5	112.0	116.5	121.5	129.7	141.7	161.8	191.8
60°	95.1	94.5	96.4	97.8	99.7	103.4	107.6	115.5	125.1	139.8	165.6
62.5°	85.2	84.9	86.2	87.7	89.3	92.6	96.1	102.2	109.8	122.2	142.7
65°	70.6	71.2	71.9	72.5	73.3	75.4	78.7	82.9	88.1	96.8	111.6
67.5°	55.6	56.2	56.4	57.6	59.4	60.7	62.8	66.4	70.1	77.4	85.8
70°	44.9	44.7	44.9	45.5	47.8	50.0	52.8	55.5	57.8	63.0	70.0
72.5°	38.5	38.2	38.7	38.9	39.9	40.6	42.3	44.9	47.8	51.3	56.4
75°	29.9	29.9	29.9	29.9	30.8	31.1	31.7	32.4	33.4	35.1	38.9
77.5°	22.1	22.1	22.5	22.6	22.8	23.1	23.5	24.1	24.4	25.3	26.9
80°	17.5	17.7	17.5	17.7	17.7	18.1	18.3	18.9	19.1	20.2	20.8
82.5°	13.1	13.0	13.1	13.4	13.4	13.7	13.8	14.3	14.3	14.8	15.4
85°	7.0	6.7	7.0	6.9	7.3	6.9	7.0	7.5	7.5	7.7	8.6
87.5°	7.0	7.3	6.9	7.0	6.9	7.0	6.8	6.6	6.8	6.4	6.2
90°	26.8	26.5	26.0	25.7	25.2	24.7	23.9	23.1	22.3	21.5	18.9
92.5°	29.7	29.5	29.2	29.0	28.8	28.0	26.8	25.5	24.2	22.9	21.0
95°	34.1	34.1	34.1	34.1	34.1	33.3	31.9	30.6	29.2	27.7	25.6
97.5°	36.9	36.7	36.5	36.3	36.1	35.2	33.6	32.0	30.4	28.8	43.2
100°	37.6	37.5	37.2	37.0	36.8	35.9	34.3	32.7	31.1	29.5	60.6
102.5°	38.3	38.0	37.6	37.3	36.9	39.1	44.1	49.0	54.0	58.9	92.8
105°	39.4	39.0	38.6	38.3	37.8	55.2	90.4	125.7	161.0	196.2	214.1
107.5°	123.8	150.3	176.9	203.4	230.0	256.2	282.0	307.8	333.7	359.5	356.7
110°	246.3	274.7	303.2	331.7	360.2	377.6	384.2	390.8	397.3	403.9	401.7



TEST NUMBER: P332398-940

CATALOG NUMBER: S123RDIW-S340D1030U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	422.6	428.6	434.6	440.6	446.6	449.5	449.4	449.3	449.2	449.1	446.9
115°	526.6	525.8	525.0	524.2	523.4	522.1	520.0	518.1	516.1	514.1	512.3
117.5°	585.1	584.9	584.7	584.5	584.4	583.5	581.9	580.3	578.7	577.1	576.2
120°	625.2	625.2	625.2	625.2	625.2	624.4	622.8	621.2	619.6	618.0	617.4
122.5°	664.6	664.4	664.2	664.1	664.0	663.3	662.2	661.0	660.0	658.8	658.1
125°	720.1	719.7	719.3	718.9	718.5	718.1	717.7	717.3	716.9	716.5	715.7
127.5°	773.5	773.9	774.3	774.6	775.1	775.0	774.3	773.6	773.0	772.4	771.4
130°	807.9	808.2	808.7	809.0	809.5	809.2	808.4	807.7	806.9	806.1	805.3
132.5°	839.4	840.0	840.5	841.1	841.6	841.5	840.7	839.9	839.1	838.3	837.7
135°	887.6	888.1	888.8	889.4	889.9	889.9	889.4	888.8	888.1	887.6	886.8
137.5°	932.9	933.3	933.7	934.1	934.5	934.2	933.3	932.3	931.3	930.4	930.0
140°	960.1	960.6	960.9	961.4	961.7	961.5	960.7	959.9	959.1	958.3	957.7
142.5°	985.2	985.8	986.3	986.9	987.4	987.4	986.8	986.1	985.5	984.8	984.3
145°	1023.7	1023.7	1023.7	1023.7	1023.7	1023.5	1023.1	1022.7	1022.3	1021.9	1021.5
147.5°	1052.4	1053.3	1054.2	1055.2	1056.1	1056.3	1055.9	1055.5	1055.1	1054.7	1054.3
150°	1073.9	1074.5	1075.0	1075.7	1076.3	1076.4	1075.9	1075.6	1075.1	1074.8	1074.3
152.5°	1091.1	1092.0	1092.9	1093.8	1094.8	1094.8	1094.1	1093.4	1092.7	1092.0	1091.7
155°	1115.1	1116.2	1117.5	1118.7	1119.8	1120.0	1118.9	1117.9	1117.0	1116.0	1115.8
157.5°	1135.3	1136.8	1138.4	1140.0	1141.5	1141.7	1140.5	1139.3	1138.1	1136.9	1137.1
160°	1148.2	1149.6	1151.0	1152.4	1153.8	1153.9	1152.7	1151.5	1150.3	1149.1	1149.3
162.5°	1160.4	1161.6	1162.9	1164.1	1165.3	1165.3	1164.0	1162.5	1161.2	1159.8	1160.0
165°	1175.1	1176.4	1177.9	1179.3	1180.6	1180.5	1178.9	1177.3	1175.8	1174.2	1174.4
167.5°	1185.6	1187.2	1188.8	1190.4	1192.0	1192.0	1190.4	1188.8	1187.2	1185.6	1185.6
170°	1192.1	1193.6	1195.2	1196.9	1198.5	1198.5	1196.9	1195.2	1193.6	1192.1	1192.1
172.5°	1195.7	1197.4	1199.2	1201.0	1202.7	1202.7	1201.1	1199.6	1198.0	1196.4	1196.2
175°	1201.0	1202.7	1204.3	1205.9	1207.5	1207.6	1206.1	1204.7	1203.4	1201.9	1201.8
177.5°	1202.7	1204.3	1205.9	1207.5	1209.1	1209.2	1207.9	1206.7	1205.4	1204.1	1203.9
180°	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5



TEST NUMBER: P332398-940

CATALOG NUMBER: S123RDIW-S340D1030U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3
2.5°	501.1	500.6	498.3	495.6	492.1	489.8	487.9	487.0	483.9	480.3	477.9
5°	532.1	525.8	519.2	511.0	503.5	495.9	491.2	485.5	478.7	471.0	465.6
7.5°	565.2	552.9	539.8	526.2	512.8	500.8	490.1	481.0	470.1	459.1	451.4
10°	590.7	572.7	554.3	535.4	518.2	501.9	489.5	477.2	464.1	451.5	441.8
12.5°	613.8	590.2	568.9	545.6	523.6	504.3	486.3	471.9	456.1	442.6	431.8
15°	643.0	618.8	593.2	557.8	528.5	504.0	482.1	463.2	444.2	427.6	417.0
17.5°	670.3	634.1	599.4	570.0	531.9	501.3	474.7	452.1	431.1	413.5	400.4
20°	681.6	646.5	608.9	571.3	534.0	499.6	468.7	443.7	422.0	402.0	389.9
22.5°	688.4	648.7	609.0	568.6	529.0	493.3	462.7	435.2	411.6	392.7	377.8
25°	696.3	649.0	605.4	565.5	525.0	486.3	450.0	420.9	395.4	375.2	359.4
27.5°	701.6	645.9	594.3	550.0	508.9	470.5	437.1	406.3	380.3	359.0	342.1
30°	702.6	643.4	585.9	537.9	496.1	460.7	425.4	396.0	368.5	345.9	330.1
32.5°	703.9	637.2	574.4	523.4	480.6	445.7	413.7	385.5	357.4	335.1	319.0
35°	698.5	633.8	557.0	498.4	455.6	421.7	392.9	366.8	339.3	317.6	301.2
37.5°	674.8	620.4	539.0	470.2	425.4	394.1	370.6	347.9	322.6	299.3	283.8
40°	651.1	607.1	525.0	453.1	406.4	374.2	352.9	334.5	310.0	288.1	271.5
42.5°	615.7	588.9	511.7	435.2	384.8	353.7	335.8	318.5	297.0	274.8	259.2
45°	550.7	554.3	484.5	406.5	354.8	323.7	306.8	294.8	275.7	257.4	241.4
47.5°	469.3	502.3	452.5	376.1	323.3	294.1	279.4	268.9	255.9	238.0	223.4
50°	416.2	463.2	427.0	355.7	303.5	274.5	259.9	251.4	240.1	226.0	212.1
52.5°	367.1	417.8	396.0	332.9	282.0	255.5	241.3	234.3	225.3	212.0	199.5
55°	299.3	350.7	345.7	298.5	249.9	226.0	215.3	207.3	201.3	191.4	181.4
57.5°	242.2	290.8	293.4	260.3	221.6	198.0	188.7	182.7	178.8	171.3	162.0
60°	206.1	250.7	259.5	234.5	201.3	180.6	171.4	166.6	163.5	157.5	150.4
62.5°	176.2	214.2	224.1	206.2	181.9	162.4	155.2	150.7	148.6	143.4	137.1
65°	134.8	166.4	175.9	166.0	153.3	137.8	131.9	128.0	126.1	123.2	118.6
67.5°	101.4	124.4	134.9	127.9	123.2	113.4	109.8	107.6	105.9	104.0	100.1
70°	81.4	98.4	109.2	107.5	103.7	98.4	95.8	94.3	92.6	91.0	87.7
72.5°	65.5	77.2	87.3	88.3	85.2	84.2	81.8	81.1	80.2	78.2	76.3
75°	43.4	51.5	58.6	61.3	62.5	63.6	62.5	62.3	62.2	60.5	59.4
77.5°	28.4	32.8	37.3	41.9	43.9	45.2	45.6	46.4	45.7	44.9	44.4
80°	21.8	22.8	25.9	29.9	33.0	34.2	35.1	35.5	35.3	35.1	34.2
82.5°	15.9	16.7	18.2	21.0	23.5	25.6	26.1	26.0	26.5	26.7	25.9
85°	8.6	8.7	9.2	9.5	11.0	13.3	13.9	14.4	14.7	14.7	13.5
87.5°	5.9	5.3	5.1	4.6	4.7	4.5	5.1	5.5	6.1	5.8	6.2
90°	16.3	13.7	11.1	8.8	6.9	4.9	2.9	0.9	2.9	4.9	6.9
92.5°	19.0	17.1	15.2	14.4	15.0	15.5	16.1	16.7	16.1	15.5	15.0
95°	23.4	21.2	19.0	22.0	30.1	38.3	46.5	54.7	46.5	38.3	30.1
97.5°	57.5	71.9	86.1	95.1	98.8	102.5	106.1	109.8	106.1	102.5	98.8
100°	91.7	122.7	153.7	167.3	163.3	159.3	155.3	151.3	155.3	159.3	163.3
102.5°	126.8	160.7	194.6	210.1	207.2	204.4	201.5	198.7	201.5	204.4	207.2
105°	231.9	249.9	267.8	275.6	273.5	271.3	269.1	266.9	269.1	271.3	273.5
107.5°	353.8	351.1	348.2	345.9	344.2	342.4	340.6	338.9	340.6	342.4	344.2
110°	399.6	397.3	395.2	393.2	391.7	390.1	388.5	386.9	388.5	390.1	391.7





TEST NUMBER: P332398-940

CATALOG NUMBER: S123RDIW-S340D1030U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	444.7	442.5	440.3	438.5	437.1	435.6	434.2	432.7	434.2	435.6	437.1
115°	510.5	508.7	506.9	505.4	504.3	503.0	501.9	500.7	501.9	503.0	504.3
117.5°	575.3	574.4	573.5	572.3	570.8	569.4	567.8	566.4	567.8	569.4	570.8
120°	616.8	616.2	615.6	614.4	612.6	610.8	609.0	607.3	609.0	610.8	612.6
122.5°	657.3	656.6	655.8	654.7	653.2	651.8	650.2	648.8	650.2	651.8	653.2
125°	714.9	714.1	713.4	712.1	710.5	708.9	707.4	705.8	707.4	708.9	710.5
127.5°	770.5	769.5	768.6	767.3	765.7	764.1	762.5	760.9	762.5	764.1	765.7
130°	804.5	803.7	802.9	801.7	800.1	798.5	796.9	795.3	796.9	798.5	800.1
132.5°	837.0	836.4	835.8	834.6	833.0	831.4	829.9	828.3	829.9	831.4	833.0
135°	886.0	885.2	884.4	883.4	882.2	881.0	879.9	878.6	879.9	881.0	882.2
137.5°	929.5	929.1	928.6	927.6	926.1	924.6	923.1	921.6	923.1	924.6	926.1
140°	957.2	956.5	955.9	955.0	953.9	952.7	951.5	950.3	951.5	952.7	953.9
142.5°	983.6	983.0	982.5	981.6	980.3	979.2	977.9	976.8	977.9	979.2	980.3
145°	1021.1	1020.7	1020.3	1019.4	1018.1	1016.6	1015.2	1013.9	1015.2	1016.6	1018.1
147.5°	1053.9	1053.5	1053.1	1052.5	1051.5	1050.6	1049.7	1048.8	1049.7	1050.6	1051.5
150°	1074.0	1073.5	1073.2	1072.6	1072.1	1071.5	1070.9	1070.3	1070.9	1071.5	1072.1
152.5°	1091.5	1091.3	1091.0	1090.7	1090.5	1090.2	1089.9	1089.7	1089.9	1090.2	1090.5
155°	1115.5	1115.4	1115.2	1115.3	1115.7	1116.1	1116.4	1116.9	1116.4	1116.1	1115.7
157.5°	1137.3	1137.6	1137.7	1137.8	1137.9	1137.9	1138.0	1138.0	1138.0	1137.9	1137.9
160°	1149.5	1149.7	1149.9	1150.1	1150.3	1150.5	1150.7	1150.9	1150.7	1150.5	1150.3
162.5°	1160.3	1160.5	1160.7	1161.0	1161.5	1162.1	1162.5	1163.1	1162.5	1162.1	1161.5
165°	1174.6	1174.7	1175.0	1175.4	1176.0	1176.6	1177.1	1177.8	1177.1	1176.6	1176.0
167.5°	1185.6	1185.6	1185.6	1186.1	1186.9	1187.7	1188.5	1189.2	1188.5	1187.7	1186.9
170°	1192.1	1192.1	1192.1	1192.5	1193.3	1194.1	1194.9	1195.7	1194.9	1194.1	1193.3
172.5°	1196.1	1195.9	1195.8	1196.1	1197.1	1198.1	1199.0	1200.0	1199.0	1198.1	1197.1
175°	1201.6	1201.3	1201.1	1201.6	1202.6	1203.5	1204.5	1205.5	1204.5	1203.5	1202.6
177.5°	1203.8	1203.6	1203.5	1203.8	1204.6	1205.4	1206.1	1206.9	1206.1	1205.4	1204.6
180°	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5



TEST NUMBER: P332398-940

CATALOG NUMBER: S123RDIW-S340D1030U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3
2.5°	477.0	474.8	473.3	470.0	467.9	465.6	463.2	464.7	464.5	464.4	464.4
5°	461.0	456.2	451.8	446.2	442.7	438.4	435.1	434.6	435.4	432.6	430.9
7.5°	445.1	438.6	432.4	426.2	419.6	414.4	411.2	409.6	407.5	405.7	403.9
10°	434.0	426.3	420.3	412.6	405.6	399.3	395.4	392.6	391.2	389.8	387.0
12.5°	422.5	415.0	407.3	398.6	391.9	384.7	381.7	378.7	375.9	374.3	370.6
15°	405.7	396.0	387.9	378.7	371.2	364.2	360.1	354.0	353.2	351.1	347.3
17.5°	388.9	378.4	367.1	360.3	352.0	344.6	338.2	336.3	330.3	328.1	324.8
20°	375.6	365.9	357.3	348.4	336.2	329.3	324.3	321.6	316.8	313.9	311.8
22.5°	364.2	354.2	344.4	333.9	323.9	316.1	312.5	308.3	305.7	301.6	299.3
25°	347.8	337.0	325.1	313.9	306.7	300.9	295.0	291.2	287.5	285.6	281.5
27.5°	328.8	317.4	306.4	297.8	288.9	283.2	277.9	274.6	270.1	267.0	264.7
30°	318.3	305.0	295.4	287.8	276.3	270.9	267.0	262.8	259.5	256.2	253.9
32.5°	306.1	294.0	285.0	275.4	266.7	260.7	255.7	252.0	249.1	246.0	243.7
35°	287.1	277.0	267.6	258.1	251.6	245.6	239.5	236.4	233.7	230.8	228.7
37.5°	269.9	260.4	251.5	242.5	234.4	229.5	224.7	222.3	218.6	216.7	214.6
40°	259.3	249.9	240.4	231.7	223.4	219.6	215.3	211.7	208.4	206.9	204.6
42.5°	247.6	238.3	230.2	220.9	214.0	208.9	204.9	201.1	198.6	196.4	195.2
45°	230.4	222.1	214.2	204.8	198.4	194.0	189.5	185.9	183.7	182.2	179.9
47.5°	213.7	205.4	197.3	189.2	183.0	178.0	173.3	170.9	167.9	166.1	164.6
50°	201.5	194.0	185.6	178.1	171.8	166.8	163.1	160.0	157.3	155.0	153.9
52.5°	190.4	182.4	175.0	168.1	161.5	155.9	152.5	149.2	147.1	144.5	143.3
55°	172.0	164.3	158.1	151.2	144.8	140.0	135.9	133.0	130.9	128.0	126.4
57.5°	154.8	147.8	140.4	134.5	127.9	123.9	120.4	116.5	113.9	111.6	109.9
60°	143.1	135.3	128.8	123.2	117.3	112.2	109.1	105.9	103.3	100.9	99.5
62.5°	131.0	124.1	118.0	111.9	106.6	102.0	98.4	95.9	93.5	92.0	90.5
65°	112.4	107.0	100.8	95.8	90.8	87.5	84.5	82.3	80.6	79.5	78.3
67.5°	95.2	90.1	84.6	79.7	76.3	73.8	72.0	70.0	69.1	67.8	67.0
70°	84.2	78.7	73.9	70.2	66.9	65.0	63.8	62.3	61.5	59.8	59.0
72.5°	72.1	68.1	64.6	61.6	58.9	57.2	55.6	53.9	52.5	50.6	49.8
75°	56.7	53.1	50.5	48.4	46.7	44.5	42.2	40.3	39.7	39.1	38.9
77.5°	42.0	39.8	37.8	36.0	34.0	32.4	31.8	31.4	31.3	30.9	30.9
80°	33.0	30.9	29.5	27.5	26.2	26.2	26.2	25.8	25.9	25.9	25.9
82.5°	24.5	22.6	21.8	21.1	20.9	21.0	21.0	21.1	21.0	21.3	21.1
85°	12.7	12.8	13.3	13.1	13.3	13.3	13.7	13.5	13.7	13.3	13.7
87.5°	6.4	7.4	8.0	8.7	9.5	9.8	10.1	10.3	10.6	10.8	10.9
90°	8.8	11.1	13.7	16.3	18.9	21.5	22.3	23.1	23.9	24.7	25.2
92.5°	14.4	15.2	17.1	19.0	21.0	22.9	24.2	25.5	26.8	28.0	28.8
95°	22.0	19.0	21.2	23.4	25.6	27.7	29.2	30.6	31.9	33.3	34.1
97.5°	95.1	86.1	71.9	57.5	43.2	28.8	30.4	32.0	33.6	35.2	36.1
100°	167.3	153.7	122.7	91.7	60.6	29.5	31.1	32.7	34.3	35.9	36.8
102.5°	210.1	194.6	160.7	126.8	92.8	58.9	54.0	49.0	44.1	39.1	36.9
105°	275.6	267.8	249.9	231.9	214.1	196.2	161.0	125.7	90.4	55.2	37.8
107.5°	345.9	348.2	351.1	353.8	356.7	359.5	333.7	307.8	282.0	256.2	230.0
110°	393.2	395.2	397.3	399.6	401.7	403.9	397.3	390.8	384.2	377.6	360.2



TEST NUMBER: P332398-940

CATALOG NUMBER: S123RDIW-S340D1030U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	438.5	440.3	442.5	444.7	446.9	449.1	449.2	449.3	449.4	449.5	446.6
115°	505.4	506.9	508.7	510.5	512.3	514.1	516.1	518.1	520.0	522.1	523.4
117.5°	572.3	573.5	574.4	575.3	576.2	577.1	578.7	580.3	581.9	583.5	584.4
120°	614.4	615.6	616.2	616.8	617.4	618.0	619.6	621.2	622.8	624.4	625.2
122.5°	654.7	655.8	656.6	657.3	658.1	658.8	660.0	661.0	662.2	663.3	664.0
125°	712.1	713.4	714.1	714.9	715.7	716.5	716.9	717.3	717.7	718.1	718.5
127.5°	767.3	768.6	769.5	770.5	771.4	772.4	773.0	773.6	774.3	775.0	775.1
130°	801.7	802.9	803.7	804.5	805.3	806.1	806.9	807.7	808.4	809.2	809.5
132.5°	834.6	835.8	836.4	837.0	837.7	838.3	839.1	839.9	840.7	841.5	841.6
135°	883.4	884.4	885.2	886.0	886.8	887.6	888.1	888.8	889.4	889.9	889.9
137.5°	927.6	928.6	929.1	929.5	930.0	930.4	931.3	932.3	933.3	934.2	934.5
140°	955.0	955.9	956.5	957.2	957.7	958.3	959.1	959.9	960.7	961.5	961.7
142.5°	981.6	982.5	983.0	983.6	984.3	984.8	985.5	986.1	986.8	987.4	987.4
145°	1019.4	1020.3	1020.7	1021.1	1021.5	1021.9	1022.3	1022.7	1023.1	1023.5	1023.7
147.5°	1052.5	1053.1	1053.5	1053.9	1054.3	1054.7	1055.1	1055.5	1055.9	1056.3	1056.1
150°	1072.6	1073.2	1073.5	1074.0	1074.3	1074.8	1075.1	1075.6	1075.9	1076.4	1076.3
152.5°	1090.7	1091.0	1091.3	1091.5	1091.7	1092.0	1092.7	1093.4	1094.1	1094.8	1094.8
155°	1115.3	1115.2	1115.4	1115.5	1115.8	1116.0	1117.0	1117.9	1118.9	1120.0	1119.8
157.5°	1137.8	1137.7	1137.6	1137.3	1137.1	1136.9	1138.1	1139.3	1140.5	1141.7	1141.5
160°	1150.1	1149.9	1149.7	1149.5	1149.3	1149.1	1150.3	1151.5	1152.7	1153.9	1153.8
162.5°	1161.0	1160.7	1160.5	1160.3	1160.0	1159.8	1161.2	1162.5	1164.0	1165.3	1165.3
165°	1175.4	1175.0	1174.7	1174.6	1174.4	1174.2	1175.8	1177.3	1178.9	1180.5	1180.6
167.5°	1186.1	1185.6	1185.6	1185.6	1185.6	1185.6	1187.2	1188.8	1190.4	1192.0	1192.0
170°	1192.5	1192.1	1192.1	1192.1	1192.1	1192.1	1193.6	1195.2	1196.9	1198.5	1198.5
172.5°	1196.1	1195.8	1195.9	1196.1	1196.2	1196.4	1198.0	1199.6	1201.1	1202.7	1202.7
175°	1201.6	1201.1	1201.3	1201.6	1201.8	1201.9	1203.4	1204.7	1206.1	1207.6	1207.5
177.5°	1203.8	1203.5	1203.6	1203.8	1203.9	1204.1	1205.4	1206.7	1207.9	1209.2	1209.1
180°	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5



TEST NUMBER: P332398-940

CATALOG NUMBER: S123RDIW-S340D1030U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3
2.5°	462.4	462.2	462.4	461.7	462.4	462.2	462.4	464.4	464.4	464.5	464.7
5°	430.3	430.1	429.4	427.6	429.4	430.1	430.3	430.9	432.6	435.4	434.6
7.5°	402.2	401.9	400.1	400.1	400.1	401.9	402.2	403.9	405.7	407.5	409.6
10°	385.6	385.8	383.3	381.8	383.3	385.8	385.6	387.0	389.8	391.2	392.6
12.5°	369.4	368.5	366.5	364.9	366.5	368.5	369.4	370.6	374.3	375.9	378.7
15°	348.2	346.1	341.2	341.5	341.2	346.1	348.2	347.3	351.1	353.2	354.0
17.5°	323.2	321.6	321.6	318.6	321.6	321.6	323.2	324.8	328.1	330.3	336.3
20°	308.5	307.5	307.9	305.0	307.9	307.5	308.5	311.8	313.9	316.8	321.6
22.5°	297.0	296.0	294.3	293.4	294.3	296.0	297.0	299.3	301.6	305.7	308.3
25°	280.3	278.6	277.0	277.9	277.0	278.6	280.3	281.5	285.6	287.5	291.2
27.5°	263.5	262.3	260.6	260.4	260.6	262.3	263.5	264.7	267.0	270.1	274.6
30°	252.8	251.6	250.7	249.7	250.7	251.6	252.8	253.9	256.2	259.5	262.8
32.5°	242.0	241.7	240.3	240.0	240.3	241.7	242.0	243.7	246.0	249.1	252.0
35°	227.9	226.7	226.2	226.4	226.2	226.7	227.9	228.7	230.8	233.7	236.4
37.5°	214.5	212.9	212.0	211.3	212.0	212.9	214.5	214.6	216.7	218.6	222.3
40°	204.8	203.2	202.8	202.3	202.8	203.2	204.8	204.6	206.9	208.4	211.7
42.5°	194.0	193.4	193.1	192.3	193.1	193.4	194.0	195.2	196.4	198.6	201.1
45°	179.3	179.1	177.8	178.3	177.8	179.1	179.3	179.9	182.2	183.7	185.9
47.5°	163.7	162.8	161.9	162.6	161.9	162.8	163.7	164.6	166.1	167.9	170.9
50°	153.1	152.7	150.8	151.2	150.8	152.7	153.1	153.9	155.0	157.3	160.0
52.5°	142.5	140.9	140.2	139.9	140.2	140.9	142.5	143.3	144.5	147.1	149.2
55°	124.8	123.0	122.2	121.7	122.2	123.0	124.8	126.4	128.0	130.9	133.0
57.5°	107.5	107.1	106.4	106.8	106.4	107.1	107.5	109.9	111.6	113.9	116.5
60°	97.5	97.5	97.5	97.2	97.5	97.5	97.5	99.5	100.9	103.3	105.9
62.5°	89.6	89.1	89.0	89.3	89.0	89.1	89.6	90.5	92.0	93.5	95.9
65°	77.7	77.5	76.7	76.4	76.7	77.5	77.7	78.3	79.5	80.6	82.3
67.5°	66.4	65.7	65.5	65.2	65.5	65.7	66.4	67.0	67.8	69.1	70.0
70°	58.0	57.5	56.3	56.5	56.3	57.5	58.0	59.0	59.8	61.5	62.3
72.5°	48.9	48.4	48.2	47.9	48.2	48.4	48.9	49.8	50.6	52.5	53.9
75°	38.6	38.4	38.3	39.1	38.3	38.4	38.6	38.9	39.1	39.7	40.3
77.5°	30.9	30.9	31.1	30.8	31.1	30.9	30.9	30.9	30.9	31.3	31.4
80°	25.9	25.9	25.8	25.8	25.8	25.9	25.9	25.9	25.9	25.9	25.8
82.5°	20.8	21.0	21.1	20.8	21.1	21.0	20.8	21.1	21.3	21.0	21.1
85°	13.7	13.5	13.9	13.7	13.9	13.5	13.7	13.7	13.3	13.7	13.5
87.5°	11.3	11.1	11.1	11.3	11.1	11.1	11.3	10.9	10.8	10.6	10.3
90°	25.7	26.0	26.5	26.8	26.5	26.0	25.7	25.2	24.7	23.9	23.1
92.5°	29.0	29.2	29.5	29.7	29.5	29.2	29.0	28.8	28.0	26.8	25.5
95°	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	33.3	31.9	30.6
97.5°	36.3	36.5	36.7	36.9	36.7	36.5	36.3	36.1	35.2	33.6	32.0
100°	37.0	37.2	37.5	37.6	37.5	37.2	37.0	36.8	35.9	34.3	32.7
102.5°	37.3	37.6	38.0	38.3	38.0	37.6	37.3	36.9	39.1	44.1	49.0
105°	38.3	38.6	39.0	39.4	39.0	38.6	38.3	37.8	55.2	90.4	125.7
107.5°	203.4	176.9	150.3	123.8	150.3	176.9	203.4	230.0	256.2	282.0	307.8
110°	331.7	303.2	274.7	246.3	274.7	303.2	331.7	360.2	377.6	384.2	390.8



TEST NUMBER: P332398-940

CATALOG NUMBER: S123RDIW-S340D1030U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	440.6	434.6	428.6	422.6	428.6	434.6	440.6	446.6	449.5	449.4	449.3
115°	524.2	525.0	525.8	526.6	525.8	525.0	524.2	523.4	522.1	520.0	518.1
117.5°	584.5	584.7	584.9	585.1	584.9	584.7	584.5	584.4	583.5	581.9	580.3
120°	625.2	625.2	625.2	625.2	625.2	625.2	625.2	625.2	624.4	622.8	621.2
122.5°	664.1	664.2	664.4	664.6	664.4	664.2	664.1	664.0	663.3	662.2	661.0
125°	718.9	719.3	719.7	720.1	719.7	719.3	718.9	718.5	718.1	717.7	717.3
127.5°	774.6	774.3	773.9	773.5	773.9	774.3	774.6	775.1	775.0	774.3	773.6
130°	809.0	808.7	808.2	807.9	808.2	808.7	809.0	809.5	809.2	808.4	807.7
132.5°	841.1	840.5	840.0	839.4	840.0	840.5	841.1	841.6	841.5	840.7	839.9
135°	889.4	888.8	888.1	887.6	888.1	888.8	889.4	889.9	889.9	889.4	888.8
137.5°	934.1	933.7	933.3	932.9	933.3	933.7	934.1	934.5	934.2	933.3	932.3
140°	961.4	960.9	960.6	960.1	960.6	960.9	961.4	961.7	961.5	960.7	959.9
142.5°	986.9	986.3	985.8	985.2	985.8	986.3	986.9	987.4	987.4	986.8	986.1
145°	1023.7	1023.7	1023.7	1023.7	1023.7	1023.7	1023.7	1023.7	1023.5	1023.1	1022.7
147.5°	1055.2	1054.2	1053.3	1052.4	1053.3	1054.2	1055.2	1056.1	1056.3	1055.9	1055.5
150°	1075.7	1075.0	1074.5	1073.9	1074.5	1075.0	1075.7	1076.3	1076.4	1075.9	1075.6
152.5°	1093.8	1092.9	1092.0	1091.1	1092.0	1092.9	1093.8	1094.8	1094.8	1094.1	1093.4
155°	1118.7	1117.5	1116.2	1115.1	1116.2	1117.5	1118.7	1119.8	1120.0	1118.9	1117.9
157.5°	1140.0	1138.4	1136.8	1135.3	1136.8	1138.4	1140.0	1141.5	1141.7	1140.5	1139.3
160°	1152.4	1151.0	1149.6	1148.2	1149.6	1151.0	1152.4	1153.8	1153.9	1152.7	1151.5
162.5°	1164.1	1162.9	1161.6	1160.4	1161.6	1162.9	1164.1	1165.3	1165.3	1164.0	1162.5
165°	1179.3	1177.9	1176.4	1175.1	1176.4	1177.9	1179.3	1180.6	1180.5	1178.9	1177.3
167.5°	1190.4	1188.8	1187.2	1185.6	1187.2	1188.8	1190.4	1192.0	1192.0	1190.4	1188.8
170°	1196.9	1195.2	1193.6	1192.1	1193.6	1195.2	1196.9	1198.5	1198.5	1196.9	1195.2
172.5°	1201.0	1199.2	1197.4	1195.7	1197.4	1199.2	1201.0	1202.7	1202.7	1201.1	1199.6
175°	1205.9	1204.3	1202.7	1201.0	1202.7	1204.3	1205.9	1207.5	1207.6	1206.1	1204.7
177.5°	1207.5	1205.9	1204.3	1202.7	1204.3	1205.9	1207.5	1209.1	1209.2	1207.9	1206.7
180°	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5



TEST NUMBER: P332398-940

CATALOG NUMBER: S123RDIW-S340D1030U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3
2.5°	463.2	465.6	467.9	470.0	473.3	474.8	477.0	477.9	480.3	483.9	487.0
5°	435.1	438.4	442.7	446.2	451.8	456.2	461.0	465.6	471.0	478.7	485.5
7.5°	411.2	414.4	419.6	426.2	432.4	438.6	445.1	451.4	459.1	470.1	481.0
10°	395.4	399.3	405.6	412.6	420.3	426.3	434.0	441.8	451.5	464.1	477.2
12.5°	381.7	384.7	391.9	398.6	407.3	415.0	422.5	431.8	442.6	456.1	471.9
15°	360.1	364.2	371.2	378.7	387.9	396.0	405.7	417.0	427.6	444.2	463.2
17.5°	338.2	344.6	352.0	360.3	367.1	378.4	388.9	400.4	413.5	431.1	452.1
20°	324.3	329.3	336.2	348.4	357.3	365.9	375.6	389.9	402.0	422.0	443.7
22.5°	312.5	316.1	323.9	333.9	344.4	354.2	364.2	377.8	392.7	411.6	435.2
25°	295.0	300.9	306.7	313.9	325.1	337.0	347.8	359.4	375.2	395.4	420.9
27.5°	277.9	283.2	288.9	297.8	306.4	317.4	328.8	342.1	359.0	380.3	406.3
30°	267.0	270.9	276.3	287.8	295.4	305.0	318.3	330.1	345.9	368.5	396.0
32.5°	255.7	260.7	266.7	275.4	285.0	294.0	306.1	319.0	335.1	357.4	385.5
35°	239.5	245.6	251.6	258.1	267.6	277.0	287.1	301.2	317.6	339.3	366.8
37.5°	224.7	229.5	234.4	242.5	251.5	260.4	269.9	283.8	299.3	322.6	347.9
40°	215.3	219.6	223.4	231.7	240.4	249.9	259.3	271.5	288.1	310.0	334.5
42.5°	204.9	208.9	214.0	220.9	230.2	238.3	247.6	259.2	274.8	297.0	318.5
45°	189.5	194.0	198.4	204.8	214.2	222.1	230.4	241.4	257.4	275.7	294.8
47.5°	173.3	178.0	183.0	189.2	197.3	205.4	213.7	223.4	238.0	255.9	268.9
50°	163.1	166.8	171.8	178.1	185.6	194.0	201.5	212.1	226.0	240.1	251.4
52.5°	152.5	155.9	161.5	168.1	175.0	182.4	190.4	199.5	212.0	225.3	234.3
55°	135.9	140.0	144.8	151.2	158.1	164.3	172.0	181.4	191.4	201.3	207.3
57.5°	120.4	123.9	127.9	134.5	140.4	147.8	154.8	162.0	171.3	178.8	182.7
60°	109.1	112.2	117.3	123.2	128.8	135.3	143.1	150.4	157.5	163.5	166.6
62.5°	98.4	102.0	106.6	111.9	118.0	124.1	131.0	137.1	143.4	148.6	150.7
65°	84.5	87.5	90.8	95.8	100.8	107.0	112.4	118.6	123.2	126.1	128.0
67.5°	72.0	73.8	76.3	79.7	84.6	90.1	95.2	100.1	104.0	105.9	107.6
70°	63.8	65.0	66.9	70.2	73.9	78.7	84.2	87.7	91.0	92.6	94.3
72.5°	55.6	57.2	58.9	61.6	64.6	68.1	72.1	76.3	78.2	80.2	81.1
75°	42.2	44.5	46.7	48.4	50.5	53.1	56.7	59.4	60.5	62.2	62.3
77.5°	31.8	32.4	34.0	36.0	37.8	39.8	42.0	44.4	44.9	45.7	46.4
80°	26.2	26.2	26.2	27.5	29.5	30.9	33.0	34.2	35.1	35.3	35.5
82.5°	21.0	21.0	20.9	21.1	21.8	22.6	24.5	25.9	26.7	26.5	26.0
85°	13.7	13.3	13.3	13.1	13.3	12.8	12.7	13.5	14.7	14.7	14.4
87.5°	10.1	9.8	9.5	8.7	8.0	7.4	6.4	6.2	5.8	6.1	5.5
90°	22.3	21.5	18.9	16.3	13.7	11.1	8.8	6.9	4.9	2.9	0.9
92.5°	24.2	22.9	21.0	19.0	17.1	15.2	14.4	15.0	15.5	16.1	16.7
95°	29.2	27.7	25.6	23.4	21.2	19.0	22.0	30.1	38.3	46.5	54.7
97.5°	30.4	28.8	43.2	57.5	71.9	86.1	95.1	98.8	102.5	106.1	109.8
100°	31.1	29.5	60.6	91.7	122.7	153.7	167.3	163.3	159.3	155.3	151.3
102.5°	54.0	58.9	92.8	126.8	160.7	194.6	210.1	207.2	204.4	201.5	198.7
105°	161.0	196.2	214.1	231.9	249.9	267.8	275.6	273.5	271.3	269.1	266.9
107.5°	333.7	359.5	356.7	353.8	351.1	348.2	345.9	344.2	342.4	340.6	338.9
110°	397.3	403.9	401.7	399.6	397.3	395.2	393.2	391.7	390.1	388.5	386.9



TEST NUMBER: P332398-940

CATALOG NUMBER: S123RDIW-S340D1030U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	449.2	449.1	446.9	444.7	442.5	440.3	438.5	437.1	435.6	434.2	432.7
115°	516.1	514.1	512.3	510.5	508.7	506.9	505.4	504.3	503.0	501.9	500.7
117.5°	578.7	577.1	576.2	575.3	574.4	573.5	572.3	570.8	569.4	567.8	566.4
120°	619.6	618.0	617.4	616.8	616.2	615.6	614.4	612.6	610.8	609.0	607.3
122.5°	660.0	658.8	658.1	657.3	656.6	655.8	654.7	653.2	651.8	650.2	648.8
125°	716.9	716.5	715.7	714.9	714.1	713.4	712.1	710.5	708.9	707.4	705.8
127.5°	773.0	772.4	771.4	770.5	769.5	768.6	767.3	765.7	764.1	762.5	760.9
130°	806.9	806.1	805.3	804.5	803.7	802.9	801.7	800.1	798.5	796.9	795.3
132.5°	839.1	838.3	837.7	837.0	836.4	835.8	834.6	833.0	831.4	829.9	828.3
135°	888.1	887.6	886.8	886.0	885.2	884.4	883.4	882.2	881.0	879.9	878.6
137.5°	931.3	930.4	930.0	929.5	929.1	928.6	927.6	926.1	924.6	923.1	921.6
140°	959.1	958.3	957.7	957.2	956.5	955.9	955.0	953.9	952.7	951.5	950.3
142.5°	985.5	984.8	984.3	983.6	983.0	982.5	981.6	980.3	979.2	977.9	976.8
145°	1022.3	1021.9	1021.5	1021.1	1020.7	1020.3	1019.4	1018.1	1016.6	1015.2	1013.9
147.5°	1055.1	1054.7	1054.3	1053.9	1053.5	1053.1	1052.5	1051.5	1050.6	1049.7	1048.8
150°	1075.1	1074.8	1074.3	1074.0	1073.5	1073.2	1072.6	1072.1	1071.5	1070.9	1070.3
152.5°	1092.7	1092.0	1091.7	1091.5	1091.3	1091.0	1090.7	1090.5	1090.2	1089.9	1089.7
155°	1117.0	1116.0	1115.8	1115.5	1115.4	1115.2	1115.3	1115.7	1116.1	1116.4	1116.9
157.5°	1138.1	1136.9	1137.1	1137.3	1137.6	1137.7	1137.8	1137.9	1137.9	1138.0	1138.0
160°	1150.3	1149.1	1149.3	1149.5	1149.7	1149.9	1150.1	1150.3	1150.5	1150.7	1150.9
162.5°	1161.2	1159.8	1160.0	1160.3	1160.5	1160.7	1161.0	1161.5	1162.1	1162.5	1163.1
165°	1175.8	1174.2	1174.4	1174.6	1174.7	1175.0	1175.4	1176.0	1176.6	1177.1	1177.8
167.5°	1187.2	1185.6	1185.6	1185.6	1185.6	1185.6	1186.1	1186.9	1187.7	1188.5	1189.2
170°	1193.6	1192.1	1192.1	1192.1	1192.1	1192.1	1192.5	1193.3	1194.1	1194.9	1195.7
172.5°	1198.0	1196.4	1196.2	1196.1	1195.9	1195.8	1196.1	1197.1	1198.1	1199.0	1200.0
175°	1203.4	1201.9	1201.8	1201.6	1201.3	1201.1	1201.6	1202.6	1203.5	1204.5	1205.5
177.5°	1205.4	1204.1	1203.9	1203.8	1203.6	1203.5	1203.8	1204.6	1205.4	1206.1	1206.9
180°	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5



TEST NUMBER: P332398-940

CATALOG NUMBER: S123RDIW-S340D1030U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3
2.5°	487.9	489.8	492.1	495.6	498.3	500.6	501.1	501.8	503.5	506.2	508.4
5°	491.2	495.9	503.5	511.0	519.2	525.8	532.1	536.5	540.6	549.3	556.3
7.5°	490.1	500.8	512.8	526.2	539.8	552.9	565.2	576.1	587.0	599.8	614.2
10°	489.5	501.9	518.2	535.4	554.3	572.7	590.7	604.6	620.7	635.3	653.8
12.5°	486.3	504.3	523.6	545.6	568.9	590.2	613.8	632.9	651.5	672.5	694.0
15°	482.1	504.0	528.5	557.8	593.2	618.8	643.0	676.5	699.3	722.1	752.9
17.5°	474.7	501.3	531.9	570.0	599.4	634.1	670.3	696.8	727.5	759.7	787.6
20°	468.7	499.6	534.0	571.3	608.9	646.5	681.6	713.2	745.0	782.2	805.0
22.5°	462.7	493.3	529.0	568.6	609.0	648.7	688.4	725.5	761.3	798.8	828.0
25°	450.0	486.3	525.0	565.5	605.4	649.0	696.3	737.7	781.9	820.6	848.3
27.5°	437.1	470.5	508.9	550.0	594.3	645.9	701.6	748.6	792.9	820.6	829.3
30°	425.4	460.7	496.1	537.9	585.9	643.4	702.6	756.4	792.7	804.9	795.9
32.5°	413.7	445.7	480.6	523.4	574.4	637.2	703.9	751.8	773.6	764.5	728.1
35°	392.9	421.7	455.6	498.4	557.0	633.8	698.5	730.8	725.5	673.5	604.9
37.5°	370.6	394.1	425.4	470.2	539.0	620.4	674.8	679.7	632.8	553.1	473.9
40°	352.9	374.2	406.4	453.1	525.0	607.1	651.1	631.8	559.3	470.6	404.5
42.5°	335.8	353.7	384.8	435.2	511.7	588.9	615.7	573.6	490.0	406.1	346.0
45°	306.8	323.7	354.8	406.5	484.5	554.3	550.7	477.6	393.9	326.4	276.5
47.5°	279.4	294.1	323.3	376.1	452.5	502.3	469.3	391.5	320.5	266.3	230.7
50°	259.9	274.5	303.5	355.7	427.0	463.2	416.2	341.2	276.1	231.2	203.0
52.5°	241.3	255.5	282.0	332.9	396.0	417.8	367.1	297.6	243.3	204.6	180.4
55°	215.3	226.0	249.9	298.5	345.7	350.7	299.3	241.2	196.5	169.5	152.9
57.5°	188.7	198.0	221.6	260.3	293.4	290.8	242.2	191.8	161.8	141.7	129.7
60°	171.4	180.6	201.3	234.5	259.5	250.7	206.1	165.6	139.8	125.1	115.5
62.5°	155.2	162.4	181.9	206.2	224.1	214.2	176.2	142.7	122.2	109.8	102.2
65°	131.9	137.8	153.3	166.0	175.9	166.4	134.8	111.6	96.8	88.1	82.9
67.5°	109.8	113.4	123.2	127.9	134.9	124.4	101.4	85.8	77.4	70.1	66.4
70°	95.8	98.4	103.7	107.5	109.2	98.4	81.4	70.0	63.0	57.8	55.5
72.5°	81.8	84.2	85.2	88.3	87.3	77.2	65.5	56.4	51.3	47.8	44.9
75°	62.5	63.6	62.5	61.3	58.6	51.5	43.4	38.9	35.1	33.4	32.4
77.5°	45.6	45.2	43.9	41.9	37.3	32.8	28.4	26.9	25.3	24.4	24.1
80°	35.1	34.2	33.0	29.9	25.9	22.8	21.8	20.8	20.2	19.1	18.9
82.5°	26.1	25.6	23.5	21.0	18.2	16.7	15.9	15.4	14.8	14.3	14.3
85°	13.9	13.3	11.0	9.5	9.2	8.7	8.6	8.6	7.7	7.5	7.5
87.5°	5.1	4.5	4.7	4.6	5.1	5.3	5.9	6.2	6.4	6.8	6.6
90°	2.9	4.9	6.9	8.8	11.1	13.7	16.3	18.9	21.5	22.3	23.1
92.5°	16.1	15.5	15.0	14.4	15.2	17.1	19.0	21.0	22.9	24.2	25.5
95°	46.5	38.3	30.1	22.0	19.0	21.2	23.4	25.6	27.7	29.2	30.6
97.5°	106.1	102.5	98.8	95.1	86.1	71.9	57.5	43.2	28.8	30.4	32.0
100°	155.3	159.3	163.3	167.3	153.7	122.7	91.7	60.6	29.5	31.1	32.7
102.5°	201.5	204.4	207.2	210.1	194.6	160.7	126.8	92.8	58.9	54.0	49.0
105°	269.1	271.3	273.5	275.6	267.8	249.9	231.9	214.1	196.2	161.0	125.7
107.5°	340.6	342.4	344.2	345.9	348.2	351.1	353.8	356.7	359.5	333.7	307.8
110°	388.5	390.1	391.7	393.2	395.2	397.3	399.6	401.7	403.9	397.3	390.8





TEST NUMBER: P332398-940

CATALOG NUMBER: S123RDIW-S340D1030U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	434.2	435.6	437.1	438.5	440.3	442.5	444.7	446.9	449.1	449.2	449.3
115°	501.9	503.0	504.3	505.4	506.9	508.7	510.5	512.3	514.1	516.1	518.1
117.5°	567.8	569.4	570.8	572.3	573.5	574.4	575.3	576.2	577.1	578.7	580.3
120°	609.0	610.8	612.6	614.4	615.6	616.2	616.8	617.4	618.0	619.6	621.2
122.5°	650.2	651.8	653.2	654.7	655.8	656.6	657.3	658.1	658.8	660.0	661.0
125°	707.4	708.9	710.5	712.1	713.4	714.1	714.9	715.7	716.5	716.9	717.3
127.5°	762.5	764.1	765.7	767.3	768.6	769.5	770.5	771.4	772.4	773.0	773.6
130°	796.9	798.5	800.1	801.7	802.9	803.7	804.5	805.3	806.1	806.9	807.7
132.5°	829.9	831.4	833.0	834.6	835.8	836.4	837.0	837.7	838.3	839.1	839.9
135°	879.9	881.0	882.2	883.4	884.4	885.2	886.0	886.8	887.6	888.1	888.8
137.5°	923.1	924.6	926.1	927.6	928.6	929.1	929.5	930.0	930.4	931.3	932.3
140°	951.5	952.7	953.9	955.0	955.9	956.5	957.2	957.7	958.3	959.1	959.9
142.5°	977.9	979.2	980.3	981.6	982.5	983.0	983.6	984.3	984.8	985.5	986.1
145°	1015.2	1016.6	1018.1	1019.4	1020.3	1020.7	1021.1	1021.5	1021.9	1022.3	1022.7
147.5°	1049.7	1050.6	1051.5	1052.5	1053.1	1053.5	1053.9	1054.3	1054.7	1055.1	1055.5
150°	1070.9	1071.5	1072.1	1072.6	1073.2	1073.5	1074.0	1074.3	1074.8	1075.1	1075.6
152.5°	1089.9	1090.2	1090.5	1090.7	1091.0	1091.3	1091.5	1091.7	1092.0	1092.7	1093.4
155°	1116.4	1116.1	1115.7	1115.3	1115.2	1115.4	1115.5	1115.8	1116.0	1117.0	1117.9
157.5°	1138.0	1137.9	1137.9	1137.8	1137.7	1137.6	1137.3	1137.1	1136.9	1138.1	1139.3
160°	1150.7	1150.5	1150.3	1150.1	1149.9	1149.7	1149.5	1149.3	1149.1	1150.3	1151.5
162.5°	1162.5	1162.1	1161.5	1161.0	1160.7	1160.5	1160.3	1160.0	1159.8	1161.2	1162.5
165°	1177.1	1176.6	1176.0	1175.4	1175.0	1174.7	1174.6	1174.4	1174.2	1175.8	1177.3
167.5°	1188.5	1187.7	1186.9	1186.1	1185.6	1185.6	1185.6	1185.6	1185.6	1187.2	1188.8
170°	1194.9	1194.1	1193.3	1192.5	1192.1	1192.1	1192.1	1192.1	1192.1	1193.6	1195.2
172.5°	1199.0	1198.1	1197.1	1196.1	1195.8	1195.9	1196.1	1196.2	1196.4	1198.0	1199.6
175°	1204.5	1203.5	1202.6	1201.6	1201.1	1201.3	1201.6	1201.8	1201.9	1203.4	1204.7
177.5°	1206.1	1205.4	1204.6	1203.8	1203.5	1203.6	1203.8	1203.9	1204.1	1205.4	1206.7
180°	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5



TEST NUMBER: P332398-940

CATALOG NUMBER: S123RDIW-S340D1030U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	485.3	485.3	485.3	485.3	485.3	485.3	485.3
2.5°	511.9	511.9	512.6	515.1	515.4	517.5	516.9
5°	562.6	566.5	568.0	574.3	577.9	579.6	576.3
7.5°	624.6	635.7	641.0	647.6	653.3	655.1	650.5
10°	669.8	681.4	691.2	697.2	702.8	706.6	711.3
12.5°	713.5	727.8	737.1	745.6	751.4	756.1	756.9
15°	761.0	782.6	799.0	811.1	817.1	820.2	818.9
17.5°	808.9	828.9	840.6	852.9	861.2	861.7	861.9
20°	836.0	855.5	869.1	878.2	887.5	887.1	889.2
22.5°	854.1	869.5	879.9	886.4	889.7	888.1	888.5
25°	862.6	867.2	865.3	854.7	851.9	842.2	843.9
27.5°	818.9	797.3	774.9	746.2	723.4	705.3	706.2
30°	759.6	721.3	677.7	641.1	608.3	599.1	579.6
32.5°	676.6	619.3	568.2	534.0	506.0	498.3	481.3
35°	536.0	480.3	427.8	396.2	383.7	366.2	366.0
37.5°	416.6	367.6	339.8	316.1	303.7	293.1	292.1
40°	350.4	312.3	291.2	274.2	262.0	254.0	252.2
42.5°	304.3	273.4	253.7	243.2	233.7	229.6	226.6
45°	248.4	227.7	214.0	204.5	200.1	197.0	195.3
47.5°	207.9	193.9	184.6	178.2	174.7	171.4	172.3
50°	185.7	174.3	167.5	161.4	158.7	156.4	156.7
52.5°	167.9	157.7	152.1	147.8	144.5	142.8	142.0
55°	142.5	136.1	130.5	127.3	125.5	123.2	122.6
57.5°	121.5	116.5	112.0	108.5	108.0	105.8	106.1
60°	107.6	103.4	99.7	97.8	96.4	94.5	95.1
62.5°	96.1	92.6	89.3	87.7	86.2	84.9	85.2
65°	78.7	75.4	73.3	72.5	71.9	71.2	70.6
67.5°	62.8	60.7	59.4	57.6	56.4	56.2	55.6
70°	52.8	50.0	47.8	45.5	44.9	44.7	44.9
72.5°	42.3	40.6	39.9	38.9	38.7	38.2	38.5
75°	31.7	31.1	30.8	29.9	29.9	29.9	29.9
77.5°	23.5	23.1	22.8	22.6	22.5	22.1	22.1
80°	18.3	18.1	17.7	17.7	17.5	17.7	17.5
82.5°	13.8	13.7	13.4	13.4	13.1	13.0	13.1
85°	7.0	6.9	7.3	6.9	7.0	6.7	7.0
87.5°	6.8	7.0	6.9	7.0	6.9	7.3	7.0
90°	23.9	24.7	25.2	25.7	26.0	26.5	26.8
92.5°	26.8	28.0	28.8	29.0	29.2	29.5	29.7
95°	31.9	33.3	34.1	34.1	34.1	34.1	34.1
97.5°	33.6	35.2	36.1	36.3	36.5	36.7	36.9
100°	34.3	35.9	36.8	37.0	37.2	37.5	37.6
102.5°	44.1	39.1	36.9	37.3	37.6	38.0	38.3
105°	90.4	55.2	37.8	38.3	38.6	39.0	39.4
107.5°	282.0	256.2	230.0	203.4	176.9	150.3	123.8
110°	384.2	377.6	360.2	331.7	303.2	274.7	246.3



TEST NUMBER: P332398-940

CATALOG NUMBER: S123RDIW-S340D1030U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	449.4	449.5	446.6	440.6	434.6	428.6	422.6
115°	520.0	522.1	523.4	524.2	525.0	525.8	526.6
117.5°	581.9	583.5	584.4	584.5	584.7	584.9	585.1
120°	622.8	624.4	625.2	625.2	625.2	625.2	625.2
122.5°	662.2	663.3	664.0	664.1	664.2	664.4	664.6
125°	717.7	718.1	718.5	718.9	719.3	719.7	720.1
127.5°	774.3	775.0	775.1	774.6	774.3	773.9	773.5
130°	808.4	809.2	809.5	809.0	808.7	808.2	807.9
132.5°	840.7	841.5	841.6	841.1	840.5	840.0	839.4
135°	889.4	889.9	889.9	889.4	888.8	888.1	887.6
137.5°	933.3	934.2	934.5	934.1	933.7	933.3	932.9
140°	960.7	961.5	961.7	961.4	960.9	960.6	960.1
142.5°	986.8	987.4	987.4	986.9	986.3	985.8	985.2
145°	1023.1	1023.5	1023.7	1023.7	1023.7	1023.7	1023.7
147.5°	1055.9	1056.3	1056.1	1055.2	1054.2	1053.3	1052.4
150°	1075.9	1076.4	1076.3	1075.7	1075.0	1074.5	1073.9
152.5°	1094.1	1094.8	1094.8	1093.8	1092.9	1092.0	1091.1
155°	1118.9	1120.0	1119.8	1118.7	1117.5	1116.2	1115.1
157.5°	1140.5	1141.7	1141.5	1140.0	1138.4	1136.8	1135.3
160°	1152.7	1153.9	1153.8	1152.4	1151.0	1149.6	1148.2
162.5°	1164.0	1165.3	1165.3	1164.1	1162.9	1161.6	1160.4
165°	1178.9	1180.5	1180.6	1179.3	1177.9	1176.4	1175.1
167.5°	1190.4	1192.0	1192.0	1190.4	1188.8	1187.2	1185.6
170°	1196.9	1198.5	1198.5	1196.9	1195.2	1193.6	1192.1
172.5°	1201.1	1202.7	1202.7	1201.0	1199.2	1197.4	1195.7
175°	1206.1	1207.6	1207.5	1205.9	1204.3	1202.7	1201.0
177.5°	1207.9	1209.2	1209.1	1207.5	1205.9	1204.3	1202.7
180°	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5	1205.5

(END OF REPORT)