

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: P332879-840

Luminaire Tested: **SA4XXRDIP-C350D810U840-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P332879-840  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-18,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA4XXRDIP-C350D810U840-4F0-1E-UDD-A4  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 350 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 810 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

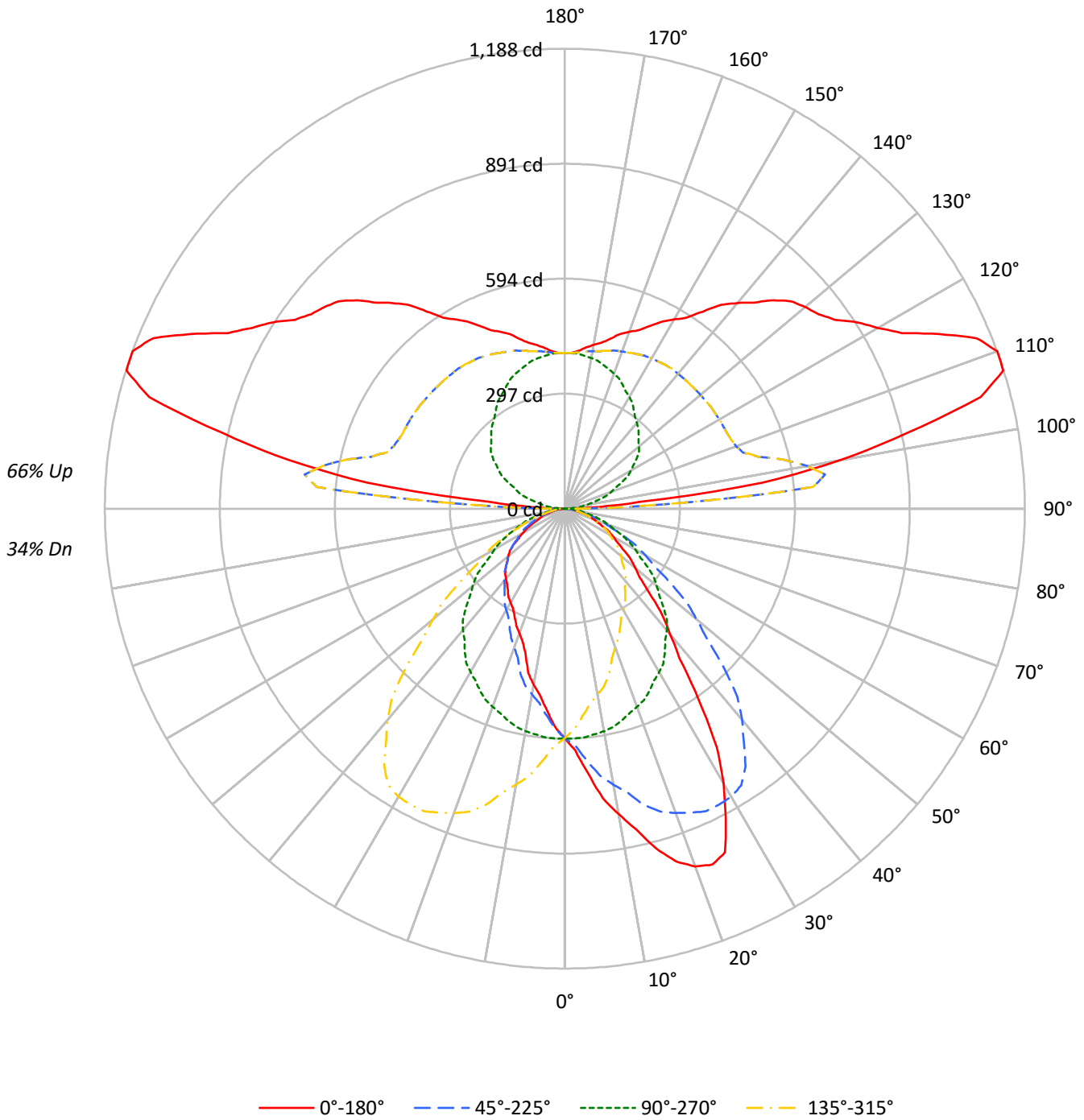
Lumens per Lamp: N/A  
Luminaire Lumens: 4424.8 lumens  
Efficiency: N/A  
Efficacy: 141.8 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39  
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 31.2  
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	50	30	10	0	
RCR																						
0	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	34				
1	95	90	87	83	85	82	79	76	66	63	62	51	49	48	37	36	36	29				
2	86	79	73	69	78	72	67	63	58	54	51	45	43	41	33	32	30	25				
3	79	70	63	57	71	63	57	53	51	47	44	40	37	35	29	28	26	21				
4	72	62	54	49	65	56	50	45	46	41	37	36	32	30	26	24	23	19				
5	66	55	47	42	60	50	44	39	41	36	32	32	29	26	24	22	20	16				
6	61	49	42	36	55	45	38	33	37	32	28	29	26	23	22	19	18	14				
7	56	45	37	32	51	41	34	29	33	28	25	26	23	20	20	18	16	13				
8	52	40	33	28	47	37	30	26	30	25	22	24	21	18	18	16	14	12				
9	49	37	30	25	44	34	27	23	28	23	20	22	19	16	17	15	13	11				
10	45	34	27	22	41	31	25	21	26	21	18	20	17	15	16	13	12	10				

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

	0°	90°	180°	270°
0°	4789	4789	4789	4789
5°	5555	4803	4246	4803
10°	6571	4782	3789	4782
15°	7590	4738	3256	4738
20°	8451	4677	2944	4677
25°	8725	4618	2734	4618
30°	7637	4545	2606	4545
35°	5945	4438	2530	4438
40°	4458	4314	2488	4314
45°	3520	4117	2466	4117
50°	2972	3890	2396	3890
55°	2590	3640	2267	3640
60°	2330	3379	2007	3379
65°	2055	3100	1727	3100
70°	1851	2811	1555	2811
75°	1550	2489	1326	2489
80°	1311	2120	1246	2120
85°	1102	1667	1102	1667



TEST NUMBER: P332879-840

CATALOG NUMBER: SA4XXRDIP-C350D810U840-4F0-1E-UDD-A4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.5	1.3
10°-20°	173.4	3.9
20°-30°	271.2	6.1
30°-40°	301.5	6.8
40°-50°	267.5	6.0
50°-60°	208.4	4.7
60°-70°	136.5	3.1
70°-80°	67.1	1.5
80°-90°	18.8	0.4
90°-100°	290.3	6.6
100°-110°	604.2	13.7
110°-120°	541.2	12.2
120°-130°	455.2	10.3
130°-140°	379.6	8.6
140°-150°	290.0	6.6
150°-160°	203.8	4.6
160°-170°	119.9	2.7
170°-180°	39.0	0.9
0°-30°	502.0	11.3
0°-40°	803.5	18.2
0°-60°	1279.4	28.9
0°-90°	1501.7	33.9
90°-120°	1435.7	32.4
90°-150°	2560.4	57.9
90°-180°	2923.0	66.1
0°-180°	4424.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	593	593	593	593	593	
5°	686	593	524	593	686	69
15°	908	567	390	567	908	258
25°	980	518	307	518	980	435
35°	603	450	257	450	603	378
45°	308	361	216	361	308	244
55°	184	259	161	259	184	167
65°	108	162	90	162	108	108
75°	50	80	42	80	50	55
85°	12	18	12	18	12	14
90°	17	1	17	1	17	14
95°	193	26	193	26	193	299
105°	1111	92	1111	92	1111	1098
115°	1067	163	1067	163	1067	1059
125°	851	227	851	227	851	774
135°	761	269	761	269	761	588
145°	622	310	622	310	622	394
155°	520	353	520	353	520	243
165°	454	385	454	385	454	130
175°	409	401	409	401	409	40
180°	402	402	402	402	402	



TEST NUMBER: P332879-840

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2
2.5°	625.7	627.4	625.7	625.5	623.6	623.0	622.3	619.8	615.2	612.5	613.1
5°	685.5	691.5	688.1	687.6	682.4	677.1	673.8	666.1	657.9	652.5	647.9
7.5°	754.6	758.0	755.9	752.6	744.1	739.2	731.4	721.4	706.8	695.7	685.5
10°	801.6	804.5	803.5	797.3	791.1	778.4	771.2	757.2	738.7	724.2	710.5
12.5°	847.9	850.9	842.5	842.8	831.0	821.0	809.7	791.9	770.7	751.9	734.9
15°	908.2	904.3	904.3	899.6	886.5	872.6	860.9	842.2	815.5	793.0	769.3
17.5°	955.4	956.7	954.8	943.5	933.2	918.9	897.4	875.7	850.8	820.6	796.5
20°	983.7	983.7	981.6	973.9	960.6	945.2	922.1	898.4	866.9	836.5	809.3
22.5°	995.2	995.9	993.4	987.1	975.1	960.2	940.4	916.4	883.8	849.7	816.0
25°	979.5	984.0	984.4	982.8	979.2	970.1	953.1	928.6	899.4	862.3	826.0
27.5°	899.2	904.9	910.0	918.3	929.3	934.9	935.7	923.2	897.8	862.1	825.6
30°	819.3	824.0	839.6	859.9	875.7	890.0	902.5	905.8	891.5	859.5	821.0
32.5°	730.5	737.1	752.7	774.5	800.7	825.1	852.9	867.2	866.8	847.6	812.0
35°	603.2	608.0	622.4	645.3	676.8	713.0	757.2	791.5	815.0	813.3	791.5
37.5°	486.6	491.9	506.3	525.4	556.0	600.7	643.5	690.9	734.2	758.5	751.2
40°	423.0	423.2	437.4	457.0	485.6	524.6	571.2	623.8	672.1	711.6	719.1
42.5°	372.9	372.9	382.3	403.4	424.0	460.7	505.2	557.4	614.0	659.5	679.7
45°	308.3	310.4	318.1	330.7	347.0	378.1	413.7	462.2	525.5	579.6	613.3
47.5°	261.1	264.3	269.1	279.4	292.4	313.1	342.5	386.2	437.7	497.1	545.0
50°	236.6	237.1	243.3	249.0	260.2	276.8	302.6	338.9	386.3	443.3	496.7
52.5°	215.6	215.5	219.2	226.5	235.6	248.4	269.3	302.4	344.4	395.6	450.6
55°	184.0	185.2	188.1	193.8	200.8	209.8	226.3	251.2	284.2	327.9	377.9
57.5°	160.1	160.7	162.9	165.3	171.7	178.3	190.7	207.9	235.7	271.6	318.1
60°	144.3	144.6	145.3	148.9	153.9	160.2	168.5	183.1	206.5	239.2	276.1
62.5°	129.1	129.5	130.6	133.2	137.1	141.4	150.2	161.9	181.3	209.2	242.4
65°	107.6	107.8	109.5	110.4	113.5	117.3	123.8	131.7	145.1	168.5	193.6
67.5°	89.9	89.9	90.0	91.3	93.4	95.9	99.8	106.1	116.2	130.6	152.7
70°	78.4	78.4	78.9	79.6	80.8	82.9	85.1	89.9	97.3	109.0	125.9
72.5°	67.7	67.9	68.4	68.5	69.1	70.9	72.5	75.5	81.0	89.9	103.6
75°	49.7	50.4	51.6	52.6	53.8	53.5	55.2	57.2	58.8	64.0	71.9
77.5°	37.0	36.7	36.8	37.6	37.7	38.0	39.2	40.6	41.9	44.3	47.2
80°	28.2	28.2	28.9	29.2	28.9	29.2	30.4	31.1	31.5	32.5	35.1
82.5°	21.3	21.7	21.5	21.7	21.8	22.1	23.1	23.2	23.7	24.1	25.1
85°	11.9	12.2	12.4	11.9	11.9	11.9	12.4	12.6	13.1	12.9	13.4
87.5°	7.5	7.4	7.7	7.5	7.6	7.4	7.4	7.6	7.1	7.5	7.1
90°	16.6	16.6	17.4	16.6	15.8	15.8	15.0	14.2	13.4	14.2	12.6
92.5°	60.8	60.8	63.5	67.8	77.1	92.9	116.7	155.1	208.6	250.4	219.2
95°	192.7	203.0	217.1	241.7	280.3	356.9	462.7	585.1	661.8	643.6	485.6
97.5°	515.0	531.4	555.1	602.7	659.3	741.7	819.0	864.4	831.3	677.8	454.5
100°	724.1	730.4	754.1	802.2	871.0	929.4	968.1	952.3	837.0	634.9	412.2
102.5°	906.1	911.1	936.0	971.0	1013.1	1037.4	1026.2	947.9	789.6	581.2	383.7
105°	1111.1	1115.8	1126.8	1133.2	1131.6	1099.1	1021.0	884.4	703.6	518.0	359.3
107.5°	1187.1	1185.1	1177.2	1159.2	1120.1	1049.8	939.7	794.3	634.1	482.6	354.9
110°	1188.4	1181.3	1167.1	1133.9	1077.8	991.0	876.5	739.9	599.4	470.6	356.1



TEST NUMBER: P332879-840

CATALOG NUMBER: SA4XXRDIP-C350D810U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1151.1	1139.6	1119.7	1079.5	1015.9	929.1	820.9	700.1	579.8	464.9	359.9
115°	1066.8	1060.5	1035.2	987.8	925.4	849.6	757.3	660.1	561.4	461.9	367.2
117.5°	981.4	976.4	950.9	911.1	857.9	793.6	720.9	640.6	553.2	461.1	375.0
120°	933.3	924.6	904.1	869.4	824.4	768.3	705.2	631.7	548.8	461.1	380.6
122.5°	895.4	886.8	869.4	839.7	801.6	752.6	695.0	624.1	543.7	460.5	386.3
125°	851.2	846.5	831.5	808.6	777.0	733.6	679.1	611.2	535.3	459.6	394.9
127.5°	825.4	820.6	808.0	787.6	755.9	714.6	660.2	595.4	524.1	457.9	401.6
130°	810.2	805.5	792.8	773.1	740.6	698.8	645.1	582.8	517.3	457.2	406.7
132.5°	793.1	788.4	776.4	754.1	722.4	680.5	628.0	569.5	510.9	456.6	411.1
135°	761.2	756.5	743.9	721.8	690.1	650.7	602.5	551.2	501.4	455.7	417.7
137.5°	721.8	716.0	705.6	683.8	654.3	618.6	578.0	534.6	493.2	455.4	421.6
140°	693.3	687.0	675.9	658.5	631.0	597.7	562.2	525.1	488.8	454.8	424.9
142.5°	663.0	658.5	648.7	632.7	608.1	579.5	549.0	516.2	485.0	454.8	427.4
145°	621.5	617.5	609.6	596.2	576.4	554.3	530.7	503.8	478.5	453.2	428.8
147.5°	584.6	583.2	577.2	565.7	551.2	533.8	514.8	493.5	472.7	450.4	429.6
150°	563.8	563.0	558.3	548.1	535.3	521.2	505.3	487.2	468.3	448.5	429.6
152.5°	544.8	544.0	541.2	532.8	522.1	510.4	495.8	480.3	463.2	445.4	428.3
155°	520.4	520.4	518.0	511.7	503.8	494.3	482.5	469.8	455.7	440.6	426.4
157.5°	498.9	498.9	497.5	492.7	486.8	479.2	469.2	458.6	447.9	435.8	424.3
160°	485.6	485.6	484.8	480.1	475.3	469.1	460.4	451.7	442.2	431.9	422.4
162.5°	473.0	473.6	472.8	468.1	464.6	459.0	452.1	444.7	437.2	428.2	420.6
165°	454.0	454.8	455.7	452.4	449.3	445.4	439.8	435.0	428.8	422.4	417.0
167.5°	439.0	439.7	439.8	437.8	436.2	433.8	429.4	425.8	421.2	416.8	413.1
170°	429.6	429.6	430.3	429.6	428.0	425.7	422.4	420.1	416.2	412.9	410.6
172.5°	420.1	421.3	422.1	421.3	420.4	418.7	416.8	415.1	411.7	409.2	408.1
175°	409.0	410.6	412.2	410.6	410.6	410.6	409.0	408.3	406.7	405.1	405.1
177.5°	402.5	403.8	405.1	404.5	405.1	404.5	404.5	403.8	403.1	402.5	402.5
180°	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9



TEST NUMBER: P332879-840

CATALOG NUMBER: SA4XXRDIP-C350D810U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2
2.5°	611.2	608.5	607.1	604.1	600.5	598.5	596.8	594.3	591.1	587.6	585.2
5°	642.2	636.4	629.2	620.7	613.1	605.6	599.2	592.7	585.3	577.6	570.1
7.5°	674.0	662.8	650.6	636.4	622.8	610.3	598.7	587.8	575.4	564.2	554.1
10°	696.2	681.0	664.0	646.0	628.1	612.6	597.2	583.4	568.2	554.5	543.0
12.5°	714.2	696.2	675.8	653.5	631.9	613.1	595.5	577.4	560.1	545.3	530.0
15°	744.0	719.4	692.0	665.1	637.2	611.6	587.9	566.9	547.0	526.2	511.7
17.5°	764.6	735.3	701.9	669.7	636.7	606.5	579.3	554.2	531.3	510.1	492.7
20°	776.8	744.5	707.4	670.9	633.8	601.6	572.2	544.4	520.8	497.9	479.9
22.5°	783.7	747.9	707.4	669.1	630.8	595.8	563.6	534.7	509.0	485.9	466.2
25°	785.9	747.6	706.3	662.3	620.3	583.2	549.7	518.4	489.7	466.8	445.8
27.5°	782.7	737.7	695.4	650.3	606.8	567.8	532.7	499.8	471.1	446.5	424.9
30°	778.2	729.9	684.5	637.6	593.7	556.1	519.1	487.6	457.7	432.1	410.4
32.5°	768.2	720.3	671.5	623.5	579.0	540.3	505.1	473.4	444.1	418.0	394.9
35°	748.5	700.0	647.0	597.7	554.0	513.8	480.9	450.3	422.3	394.4	370.0
37.5°	722.6	673.1	620.3	566.3	522.5	484.6	454.4	425.7	398.4	372.8	345.9
40°	698.1	653.0	598.4	544.9	500.0	463.4	435.5	409.4	381.9	356.6	329.6
42.5°	668.5	630.1	574.9	521.2	476.9	441.6	415.6	390.1	365.1	340.5	312.4
45°	619.0	589.9	538.3	486.7	441.9	407.0	383.1	360.6	338.7	315.3	288.7
47.5°	562.3	542.6	498.1	445.1	403.8	372.4	349.3	330.9	312.4	288.9	265.7
50°	522.9	510.3	467.3	419.0	379.5	350.6	327.0	309.7	294.2	271.8	251.0
52.5°	480.9	474.1	437.8	391.6	353.6	325.2	305.0	289.5	273.8	255.1	235.7
55°	416.8	420.4	389.6	349.6	313.8	289.9	271.6	258.6	245.2	229.4	214.4
57.5°	351.3	364.5	343.8	308.7	275.1	253.0	239.1	228.3	217.0	204.0	191.1
60°	312.1	323.2	311.4	280.5	251.2	230.7	217.7	209.3	198.1	186.2	176.4
62.5°	273.9	285.7	278.7	253.8	226.5	208.8	197.4	189.7	181.3	170.9	160.7
65°	225.9	233.5	230.1	213.0	193.6	178.5	168.0	162.3	154.6	147.0	137.9
67.5°	173.0	187.7	185.8	176.6	160.0	148.1	141.3	136.2	129.3	123.6	117.4
70°	142.2	155.8	155.6	148.1	139.1	128.2	123.3	119.1	112.8	107.3	102.3
72.5°	116.4	128.9	130.8	125.0	118.9	110.5	105.9	103.0	96.9	93.2	89.1
75°	81.5	90.6	93.0	93.0	90.1	85.8	81.7	79.8	75.5	72.2	69.8
77.5°	53.4	59.2	62.9	63.7	64.2	62.7	59.4	58.1	54.7	53.6	51.3
80°	37.8	41.6	45.8	47.4	48.5	48.1	46.7	45.6	42.5	41.3	40.4
82.5°	26.1	28.2	31.7	34.9	34.5	35.9	34.5	33.8	31.4	31.0	30.1
85°	13.6	13.8	14.3	16.5	17.7	18.2	18.4	18.0	17.2	17.2	15.6
87.5°	6.8	6.6	6.1	6.1	6.1	6.7	6.8	6.7	6.4	6.3	5.9
90°	11.0	11.0	6.4	6.4	5.6	4.7	2.3	0.8	2.3	4.7	5.6
92.5°	159.5	98.3	58.1	41.7	30.2	20.5	13.1	9.0	13.1	20.5	30.2
95°	296.9	167.4	98.7	65.5	46.6	36.4	28.4	26.1	28.4	36.4	46.6
97.5°	266.9	160.0	107.0	79.3	63.0	53.5	46.8	46.8	46.8	53.5	63.0
100°	251.2	161.9	115.3	90.0	75.0	65.5	60.0	60.0	60.0	65.5	75.0
102.5°	246.7	168.1	126.0	102.0	87.7	78.8	73.9	72.6	73.9	78.8	87.7
105°	248.7	183.2	145.3	122.4	108.2	98.7	94.7	92.4	94.7	98.7	108.2
107.5°	260.4	200.8	166.0	143.4	129.8	119.7	115.7	114.2	115.7	119.7	129.8
110°	269.2	214.0	179.3	157.9	143.7	134.2	130.3	128.8	130.3	134.2	143.7





TEST NUMBER: P332879-840

CATALOG NUMBER: SA4XXRDIP-C350D810U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	278.7	226.6	193.2	171.8	157.6	148.8	144.2	142.6	144.2	148.8	157.6
115°	293.8	246.4	214.8	193.5	178.4	170.6	165.0	162.7	165.0	170.6	178.4
117.5°	309.0	265.5	235.5	213.4	199.3	190.7	185.7	183.5	185.7	190.7	199.3
120°	319.8	278.7	248.7	226.6	213.2	204.5	198.9	197.4	198.9	204.5	213.2
122.5°	329.9	291.3	261.4	239.8	225.2	217.1	211.7	210.1	211.7	217.1	225.2
125°	345.1	308.7	280.3	258.2	243.2	234.5	229.7	226.6	229.7	234.5	243.2
127.5°	358.2	324.9	297.4	275.1	259.4	249.5	243.9	241.4	243.9	249.5	259.4
130°	366.4	335.6	308.7	285.9	270.8	259.0	252.7	249.5	252.7	259.0	270.8
132.5°	374.6	344.5	317.6	296.0	279.7	268.5	260.2	257.7	260.2	268.5	279.7
135°	385.4	356.9	330.8	310.3	293.8	280.3	272.5	269.2	272.5	280.3	293.8
137.5°	392.9	366.4	342.0	322.4	305.3	292.5	283.8	280.8	283.8	292.5	305.3
140°	398.0	372.7	349.0	330.0	313.5	300.0	291.3	289.0	291.3	300.0	313.5
142.5°	401.7	378.4	355.4	337.0	321.0	308.3	300.2	297.8	300.2	308.3	321.0
145°	405.9	384.6	364.1	346.7	331.6	320.6	312.7	310.3	312.7	320.6	331.6
147.5°	409.5	390.9	371.6	356.0	343.5	332.1	325.2	324.4	325.2	332.1	343.5
150°	411.4	394.0	376.7	361.6	349.8	340.3	334.1	333.3	334.1	340.3	349.8
152.5°	412.6	396.6	381.1	367.4	356.8	347.9	341.6	341.4	341.6	347.9	356.8
155°	413.7	400.3	386.9	375.1	366.4	358.5	353.8	352.9	353.8	358.5	366.4
157.5°	413.7	403.0	391.6	382.3	374.8	368.6	364.2	364.2	364.2	368.6	374.8
160°	413.7	404.2	394.9	386.2	379.8	374.3	371.1	371.1	371.1	374.3	379.8
162.5°	413.7	405.6	396.7	389.9	384.3	379.3	376.8	377.5	376.8	379.3	384.3
165°	412.2	405.9	398.8	394.0	390.1	386.2	384.6	384.6	384.6	386.2	390.1
167.5°	410.3	405.8	400.5	396.9	394.7	391.6	390.9	391.6	390.9	391.6	394.7
170°	409.0	405.1	401.1	398.8	397.2	394.9	394.0	394.9	394.0	394.9	397.2
172.5°	407.8	404.5	401.7	400.0	399.1	397.4	397.2	398.0	397.2	397.4	399.1
175°	405.9	403.5	401.9	401.9	401.1	400.3	400.3	401.1	400.3	400.3	401.1
177.5°	403.8	402.5	401.9	401.9	401.9	401.3	401.9	402.5	401.9	401.3	401.9
180°	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9



TEST NUMBER: P332879-840

CATALOG NUMBER: SA4XXRDIP-C350D810U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2
2.5°	582.5	580.6	578.1	575.2	571.8	568.8	567.3	568.6	569.2	567.5	567.3
5°	564.7	558.8	554.0	546.8	541.1	536.3	533.0	531.5	532.0	528.2	527.3
7.5°	544.8	537.8	529.9	521.4	513.5	506.4	502.8	500.8	496.7	494.9	492.0
10°	532.0	522.5	514.8	504.7	495.6	487.4	483.2	479.9	475.8	473.9	469.9
12.5°	518.9	507.8	499.3	488.9	479.6	469.6	465.6	459.5	453.1	449.1	443.8
15°	500.2	486.9	476.6	464.1	453.1	441.7	431.4	419.9	415.7	406.6	401.3
17.5°	478.5	464.9	452.2	435.6	418.6	404.2	393.3	382.3	375.8	370.0	367.3
20°	464.1	451.7	434.0	414.7	395.8	380.0	371.1	364.0	356.8	352.7	349.9
22.5°	450.6	434.6	414.1	393.2	374.4	362.0	354.6	347.2	341.3	337.5	333.7
25°	427.8	407.0	385.3	361.3	348.5	337.7	329.6	323.6	320.0	315.0	313.1
27.5°	404.5	379.2	355.3	339.2	325.8	315.9	308.8	304.4	299.8	296.6	294.1
30°	386.5	360.9	339.4	324.1	310.4	302.4	296.6	291.3	287.7	285.1	283.3
32.5°	368.7	343.2	325.1	308.6	297.8	289.9	283.8	279.8	277.0	273.7	272.5
35°	343.0	320.2	304.5	289.6	278.7	271.6	266.7	262.7	260.2	259.3	258.6
37.5°	318.2	299.6	282.7	270.5	260.7	255.1	249.4	247.4	245.8	244.1	244.9
40°	302.6	285.1	270.0	257.2	249.2	243.1	239.7	237.3	235.9	235.9	235.9
42.5°	289.0	272.0	257.2	245.7	237.8	232.6	228.8	226.8	226.3	226.1	227.3
45°	267.9	252.2	237.3	227.7	221.1	215.8	213.7	212.0	212.0	213.0	213.2
47.5°	247.0	232.3	220.4	209.6	203.5	200.3	198.3	197.5	197.6	198.5	199.7
50°	234.2	219.6	207.9	198.3	192.7	189.6	187.8	187.3	187.8	187.8	189.6
52.5°	220.3	207.2	195.7	187.6	181.2	178.2	177.3	176.6	176.9	177.7	178.4
55°	199.9	188.1	177.1	169.5	164.7	162.8	160.6	160.9	160.4	160.9	160.9
57.5°	179.3	168.7	158.5	152.5	148.2	145.5	143.2	143.8	143.1	143.0	142.6
60°	166.1	154.6	146.5	141.0	136.2	133.8	131.7	132.2	131.5	131.0	130.0
62.5°	151.8	142.2	134.4	129.2	125.3	122.6	120.4	120.0	118.3	116.6	114.5
65°	131.0	123.1	116.1	111.2	107.6	105.4	103.7	102.3	98.7	94.9	93.0
67.5°	110.8	105.0	98.6	94.3	91.4	88.7	85.4	83.0	79.7	77.6	76.3
70°	97.8	92.3	86.7	82.7	79.6	77.0	73.4	71.7	69.3	68.4	67.2
72.5°	85.3	80.2	75.1	71.4	68.2	66.0	63.2	61.6	60.5	60.1	59.0
75°	66.4	62.4	58.6	55.2	52.6	51.1	50.0	48.8	48.3	46.2	44.9
77.5°	48.5	45.7	43.4	41.0	39.2	38.2	35.9	34.5	33.7	32.7	32.4
80°	37.8	35.9	33.4	32.0	29.4	28.5	27.5	27.3	27.0	26.8	26.6
82.5°	28.4	26.5	24.1	23.2	22.5	21.9	21.4	21.1	20.9	21.0	21.0
85°	14.3	13.4	13.4	13.1	12.9	12.6	12.4	12.4	12.2	12.4	12.2
87.5°	6.1	5.9	6.8	6.5	7.0	7.3	6.9	7.1	7.4	7.2	7.2
90°	6.4	6.4	11.0	11.0	12.6	14.2	13.4	14.2	15.0	15.8	15.8
92.5°	41.7	58.1	98.3	159.5	219.2	250.4	208.6	155.1	116.7	92.9	77.1
95°	65.5	98.7	167.4	296.9	485.6	643.6	661.8	585.1	462.7	356.9	280.3
97.5°	79.3	107.0	160.0	266.9	454.5	677.8	831.3	864.4	819.0	741.7	659.3
100°	90.0	115.3	161.9	251.2	412.2	634.9	837.0	952.3	968.1	929.4	871.0
102.5°	102.0	126.0	168.1	246.7	383.7	581.2	789.6	947.9	1026.2	1037.4	1013.1
105°	122.4	145.3	183.2	248.7	359.3	518.0	703.6	884.4	1021.0	1099.1	1131.6
107.5°	143.4	166.0	200.8	260.4	354.9	482.6	634.1	794.3	939.7	1049.8	1120.1
110°	157.9	179.3	214.0	269.2	356.1	470.6	599.4	739.9	876.5	991.0	1077.8



TEST NUMBER: P332879-840

CATALOG NUMBER: SA4XXRDIP-C350D810U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	171.8	193.2	226.6	278.7	359.9	464.9	579.8	700.1	820.9	929.1	1015.9
115°	193.5	214.8	246.4	293.8	367.2	461.9	561.4	660.1	757.3	849.6	925.4
117.5°	213.4	235.5	265.5	309.0	375.0	461.1	553.2	640.6	720.9	793.6	857.9
120°	226.6	248.7	278.7	319.8	380.6	461.1	548.8	631.7	705.2	768.3	824.4
122.5°	239.8	261.4	291.3	329.9	386.3	460.5	543.7	624.1	695.0	752.6	801.6
125°	258.2	280.3	308.7	345.1	394.9	459.6	535.3	611.2	679.1	733.6	777.0
127.5°	275.1	297.4	324.9	358.2	401.6	457.9	524.1	595.4	660.2	714.6	755.9
130°	285.9	308.7	335.6	366.4	406.7	457.2	517.3	582.8	645.1	698.8	740.6
132.5°	296.0	317.6	344.5	374.6	411.1	456.6	510.9	569.5	628.0	680.5	722.4
135°	310.3	330.8	356.9	385.4	417.7	455.7	501.4	551.2	602.5	650.7	690.1
137.5°	322.4	342.0	366.4	392.9	421.6	455.4	493.2	534.6	578.0	618.6	654.3
140°	330.0	349.0	372.7	398.0	424.9	454.8	488.8	525.1	562.2	597.7	631.0
142.5°	337.0	355.4	378.4	401.7	427.4	454.8	485.0	516.2	549.0	579.5	608.1
145°	346.7	364.1	384.6	405.9	428.8	453.2	478.5	503.8	530.7	554.3	576.4
147.5°	356.0	371.6	390.9	409.5	429.6	450.4	472.7	493.5	514.8	533.8	551.2
150°	361.6	376.7	394.0	411.4	429.6	448.5	468.3	487.2	505.3	521.2	535.3
152.5°	367.4	381.1	396.6	412.6	428.3	445.4	463.2	480.3	495.8	510.4	522.1
155°	375.1	386.9	400.3	413.7	426.4	440.6	455.7	469.8	482.5	494.3	503.8
157.5°	382.3	391.6	403.0	413.7	424.3	435.8	447.9	458.6	469.2	479.2	486.8
160°	386.2	394.9	404.2	413.7	422.4	431.9	442.2	451.7	460.4	469.1	475.3
162.5°	389.9	396.7	405.6	413.7	420.6	428.2	437.2	444.7	452.1	459.0	464.6
165°	394.0	398.8	405.9	412.2	417.0	422.4	428.8	435.0	439.8	445.4	449.3
167.5°	396.9	400.5	405.8	410.3	413.1	416.8	421.2	425.8	429.4	433.8	436.2
170°	398.8	401.1	405.1	409.0	410.6	412.9	416.2	420.1	422.4	425.7	428.0
172.5°	400.0	401.7	404.5	407.8	408.1	409.2	411.7	415.1	416.8	418.7	420.4
175°	401.9	401.9	403.5	405.9	405.1	405.1	406.7	408.3	409.0	410.6	410.6
177.5°	401.9	401.9	402.5	403.8	402.5	402.5	403.1	403.8	404.5	404.5	405.1
180°	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9



TEST NUMBER: P332879-840

CATALOG NUMBER: SA4XXRDIP-C350D810U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2
2.5°	566.2	566.6	565.3	564.9	565.3	566.6	566.2	567.3	567.5	569.2	568.6
5°	525.3	524.8	523.6	523.9	523.6	524.8	525.3	527.3	528.2	532.0	531.5
7.5°	490.3	488.5	489.0	487.1	489.0	488.5	490.3	492.0	494.9	496.7	500.8
10°	468.9	466.3	464.1	462.2	464.1	466.3	468.9	469.9	473.9	475.8	479.9
12.5°	439.7	437.4	434.5	435.0	434.5	437.4	439.7	443.8	449.1	453.1	459.5
15°	398.2	394.6	388.9	389.6	388.9	394.6	398.2	401.3	406.6	415.7	419.9
17.5°	363.0	363.0	360.4	361.1	360.4	363.0	363.0	367.3	370.0	375.8	382.3
20°	344.9	343.3	343.5	342.7	343.5	343.3	344.9	349.9	352.7	356.8	364.0
22.5°	332.2	330.2	328.5	327.1	328.5	330.2	332.2	333.7	337.5	341.3	347.2
25°	310.9	309.5	307.4	306.9	307.4	309.5	310.9	313.1	315.0	320.0	323.6
27.5°	292.2	292.0	291.0	289.9	291.0	292.0	292.2	294.1	296.6	299.8	304.4
30°	281.3	280.8	280.3	279.6	280.3	280.8	281.3	283.3	285.1	287.7	291.3
32.5°	271.6	271.2	270.7	270.8	270.7	271.2	271.6	272.5	273.7	277.0	279.8
35°	257.6	257.4	256.9	256.7	256.9	257.4	257.6	258.6	259.3	260.2	262.7
37.5°	244.7	245.3	245.0	244.9	245.0	245.3	244.7	244.9	244.1	245.8	247.4
40°	235.7	235.9	236.4	236.1	236.4	235.9	235.7	235.9	235.9	235.9	237.3
42.5°	228.2	228.2	228.9	228.1	228.9	228.2	228.2	227.3	226.1	226.3	226.8
45°	214.9	216.3	216.0	216.0	216.0	216.3	214.9	213.2	213.0	212.0	212.0
47.5°	200.3	201.6	201.9	201.8	201.9	201.6	200.3	199.7	198.5	197.6	197.5
50°	190.8	190.3	191.0	190.8	191.0	190.3	190.8	189.6	187.8	187.8	187.3
52.5°	179.0	179.2	179.2	178.8	179.2	179.2	179.0	178.4	177.7	176.9	176.6
55°	161.1	161.4	160.9	161.1	160.9	161.4	161.1	160.9	160.9	160.4	160.9
57.5°	141.6	140.5	140.9	140.4	140.9	140.5	141.6	142.6	143.0	143.1	143.8
60°	127.6	125.7	125.2	124.3	125.2	125.7	127.6	130.0	131.0	131.5	132.2
62.5°	112.0	110.6	109.0	109.8	109.0	110.6	112.0	114.5	116.6	118.3	120.0
65°	91.1	90.1	89.4	90.4	89.4	90.1	91.1	93.0	94.9	98.7	102.3
67.5°	75.3	74.8	74.8	74.4	74.8	74.8	75.3	76.3	77.6	79.7	83.0
70°	67.2	66.4	66.4	65.9	66.4	66.4	67.2	67.2	68.4	69.3	71.7
72.5°	58.8	58.1	58.3	58.0	58.3	58.1	58.8	59.0	60.1	60.5	61.6
75°	43.5	42.3	42.3	42.5	42.3	42.3	43.5	44.9	46.2	48.3	48.8
77.5°	32.4	32.2	32.5	32.1	32.5	32.2	32.4	32.4	32.7	33.7	34.5
80°	26.6	26.3	26.1	26.8	26.1	26.3	26.6	26.6	26.8	27.0	27.3
82.5°	20.6	20.6	20.5	21.4	20.5	20.6	20.6	21.0	21.0	20.9	21.1
85°	12.4	11.9	12.4	11.9	12.4	11.9	12.4	12.2	12.4	12.2	12.4
87.5°	7.7	7.7	7.4	7.5	7.4	7.7	7.7	7.2	7.2	7.4	7.1
90°	16.6	17.4	16.6	16.6	16.6	17.4	16.6	15.8	15.8	15.0	14.2
92.5°	67.8	63.5	60.8	60.8	60.8	63.5	67.8	77.1	92.9	116.7	155.1
95°	241.7	217.1	203.0	192.7	203.0	217.1	241.7	280.3	356.9	462.7	585.1
97.5°	602.7	555.1	531.4	515.0	531.4	555.1	602.7	659.3	741.7	819.0	864.4
100°	802.2	754.1	730.4	724.1	730.4	754.1	802.2	871.0	929.4	968.1	952.3
102.5°	971.0	936.0	911.1	906.1	911.1	936.0	971.0	1013.1	1037.4	1026.2	947.9
105°	1133.2	1126.8	1115.8	1111.1	1115.8	1126.8	1133.2	1131.6	1099.1	1021.0	884.4
107.5°	1159.2	1177.2	1185.1	1187.1	1185.1	1177.2	1159.2	1120.1	1049.8	939.7	794.3
110°	1133.9	1167.1	1181.3	1188.4	1181.3	1167.1	1133.9	1077.8	991.0	876.5	739.9



TEST NUMBER: P332879-840

CATALOG NUMBER: SA4XXRDIP-C350D810U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1079.5	1119.7	1139.6	1151.1	1139.6	1119.7	1079.5	1015.9	929.1	820.9	700.1
115°	987.8	1035.2	1060.5	1066.8	1060.5	1035.2	987.8	925.4	849.6	757.3	660.1
117.5°	911.1	950.9	976.4	981.4	976.4	950.9	911.1	857.9	793.6	720.9	640.6
120°	869.4	904.1	924.6	933.3	924.6	904.1	869.4	824.4	768.3	705.2	631.7
122.5°	839.7	869.4	886.8	895.4	886.8	869.4	839.7	801.6	752.6	695.0	624.1
125°	808.6	831.5	846.5	851.2	846.5	831.5	808.6	777.0	733.6	679.1	611.2
127.5°	787.6	808.0	820.6	825.4	820.6	808.0	787.6	755.9	714.6	660.2	595.4
130°	773.1	792.8	805.5	810.2	805.5	792.8	773.1	740.6	698.8	645.1	582.8
132.5°	754.1	776.4	788.4	793.1	788.4	776.4	754.1	722.4	680.5	628.0	569.5
135°	721.8	743.9	756.5	761.2	756.5	743.9	721.8	690.1	650.7	602.5	551.2
137.5°	683.8	705.6	716.0	721.8	716.0	705.6	683.8	654.3	618.6	578.0	534.6
140°	658.5	675.9	687.0	693.3	687.0	675.9	658.5	631.0	597.7	562.2	525.1
142.5°	632.7	648.7	658.5	663.0	658.5	648.7	632.7	608.1	579.5	549.0	516.2
145°	596.2	609.6	617.5	621.5	617.5	609.6	596.2	576.4	554.3	530.7	503.8
147.5°	565.7	577.2	583.2	584.6	583.2	577.2	565.7	551.2	533.8	514.8	493.5
150°	548.1	558.3	563.0	563.8	563.0	558.3	548.1	535.3	521.2	505.3	487.2
152.5°	532.8	541.2	544.0	544.8	544.0	541.2	532.8	522.1	510.4	495.8	480.3
155°	511.7	518.0	520.4	520.4	520.4	518.0	511.7	503.8	494.3	482.5	469.8
157.5°	492.7	497.5	498.9	498.9	498.9	497.5	492.7	486.8	479.2	469.2	458.6
160°	480.1	484.8	485.6	485.6	485.6	484.8	480.1	475.3	469.1	460.4	451.7
162.5°	468.1	472.8	473.6	473.0	473.6	472.8	468.1	464.6	459.0	452.1	444.7
165°	452.4	455.7	454.8	454.0	454.8	455.7	452.4	449.3	445.4	439.8	435.0
167.5°	437.8	439.8	439.7	439.0	439.7	439.8	437.8	436.2	433.8	429.4	425.8
170°	429.6	430.3	429.6	429.6	429.6	430.3	429.6	428.0	425.7	422.4	420.1
172.5°	421.3	422.1	421.3	420.1	421.3	422.1	421.3	420.4	418.7	416.8	415.1
175°	410.6	412.2	410.6	409.0	410.6	412.2	410.6	410.6	410.6	409.0	408.3
177.5°	404.5	405.1	403.8	402.5	403.8	405.1	404.5	405.1	404.5	404.5	403.8
180°	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9



TEST NUMBER: P332879-840

CATALOG NUMBER: SA4XXRDIP-C350D810U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2
2.5°	567.3	568.8	571.8	575.2	578.1	580.6	582.5	585.2	587.6	591.1	594.3
5°	533.0	536.3	541.1	546.8	554.0	558.8	564.7	570.1	577.6	585.3	592.7
7.5°	502.8	506.4	513.5	521.4	529.9	537.8	544.8	554.1	564.2	575.4	587.8
10°	483.2	487.4	495.6	504.7	514.8	522.5	532.0	543.0	554.5	568.2	583.4
12.5°	465.6	469.6	479.6	488.9	499.3	507.8	518.9	530.0	545.3	560.1	577.4
15°	431.4	441.7	453.1	464.1	476.6	486.9	500.2	511.7	526.2	547.0	566.9
17.5°	393.3	404.2	418.6	435.6	452.2	464.9	478.5	492.7	510.1	531.3	554.2
20°	371.1	380.0	395.8	414.7	434.0	451.7	464.1	479.9	497.9	520.8	544.4
22.5°	354.6	362.0	374.4	393.2	414.1	434.6	450.6	466.2	485.9	509.0	534.7
25°	329.6	337.7	348.5	361.3	385.3	407.0	427.8	445.8	466.8	489.7	518.4
27.5°	308.8	315.9	325.8	339.2	355.3	379.2	404.5	424.9	446.5	471.1	499.8
30°	296.6	302.4	310.4	324.1	339.4	360.9	386.5	410.4	432.1	457.7	487.6
32.5°	283.8	289.9	297.8	308.6	325.1	343.2	368.7	394.9	418.0	444.1	473.4
35°	266.7	271.6	278.7	289.6	304.5	320.2	343.0	370.0	394.4	422.3	450.3
37.5°	249.4	255.1	260.7	270.5	282.7	299.6	318.2	345.9	372.8	398.4	425.7
40°	239.7	243.1	249.2	257.2	270.0	285.1	302.6	329.6	356.6	381.9	409.4
42.5°	228.8	232.6	237.8	245.7	257.2	272.0	289.0	312.4	340.5	365.1	390.1
45°	213.7	215.8	221.1	227.7	237.3	252.2	267.9	288.7	315.3	338.7	360.6
47.5°	198.3	200.3	203.5	209.6	220.4	232.3	247.0	265.7	288.9	312.4	330.9
50°	187.8	189.6	192.7	198.3	207.9	219.6	234.2	251.0	271.8	294.2	309.7
52.5°	177.3	178.2	181.2	187.6	195.7	207.2	220.3	235.7	255.1	273.8	289.5
55°	160.6	162.8	164.7	169.5	177.1	188.1	199.9	214.4	229.4	245.2	258.6
57.5°	143.2	145.5	148.2	152.5	158.5	168.7	179.3	191.1	204.0	217.0	228.3
60°	131.7	133.8	136.2	141.0	146.5	154.6	166.1	176.4	186.2	198.1	209.3
62.5°	120.4	122.6	125.3	129.2	134.4	142.2	151.8	160.7	170.9	181.3	189.7
65°	103.7	105.4	107.6	111.2	116.1	123.1	131.0	137.9	147.0	154.6	162.3
67.5°	85.4	88.7	91.4	94.3	98.6	105.0	110.8	117.4	123.6	129.3	136.2
70°	73.4	77.0	79.6	82.7	86.7	92.3	97.8	102.3	107.3	112.8	119.1
72.5°	63.2	66.0	68.2	71.4	75.1	80.2	85.3	89.1	93.2	96.9	103.0
75°	50.0	51.1	52.6	55.2	58.6	62.4	66.4	69.8	72.2	75.5	79.8
77.5°	35.9	38.2	39.2	41.0	43.4	45.7	48.5	51.3	53.6	54.7	58.1
80°	27.5	28.5	29.4	32.0	33.4	35.9	37.8	40.4	41.3	42.5	45.6
82.5°	21.4	21.9	22.5	23.2	24.1	26.5	28.4	30.1	31.0	31.4	33.8
85°	12.4	12.6	12.9	13.1	13.4	13.4	14.3	15.6	17.2	17.2	18.0
87.5°	6.9	7.3	7.0	6.5	6.8	5.9	6.1	5.9	6.3	6.4	6.7
90°	13.4	14.2	12.6	11.0	11.0	6.4	6.4	5.6	4.7	2.3	0.8
92.5°	208.6	250.4	219.2	159.5	98.3	58.1	41.7	30.2	20.5	13.1	9.0
95°	661.8	643.6	485.6	296.9	167.4	98.7	65.5	46.6	36.4	28.4	26.1
97.5°	831.3	677.8	454.5	266.9	160.0	107.0	79.3	63.0	53.5	46.8	46.8
100°	837.0	634.9	412.2	251.2	161.9	115.3	90.0	75.0	65.5	60.0	60.0
102.5°	789.6	581.2	383.7	246.7	168.1	126.0	102.0	87.7	78.8	73.9	72.6
105°	703.6	518.0	359.3	248.7	183.2	145.3	122.4	108.2	98.7	94.7	92.4
107.5°	634.1	482.6	354.9	260.4	200.8	166.0	143.4	129.8	119.7	115.7	114.2
110°	599.4	470.6	356.1	269.2	214.0	179.3	157.9	143.7	134.2	130.3	128.8



TEST NUMBER: P332879-840

CATALOG NUMBER: SA4XXRDIP-C350D810U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	579.8	464.9	359.9	278.7	226.6	193.2	171.8	157.6	148.8	144.2	142.6
115°	561.4	461.9	367.2	293.8	246.4	214.8	193.5	178.4	170.6	165.0	162.7
117.5°	553.2	461.1	375.0	309.0	265.5	235.5	213.4	199.3	190.7	185.7	183.5
120°	548.8	461.1	380.6	319.8	278.7	248.7	226.6	213.2	204.5	198.9	197.4
122.5°	543.7	460.5	386.3	329.9	291.3	261.4	239.8	225.2	217.1	211.7	210.1
125°	535.3	459.6	394.9	345.1	308.7	280.3	258.2	243.2	234.5	229.7	226.6
127.5°	524.1	457.9	401.6	358.2	324.9	297.4	275.1	259.4	249.5	243.9	241.4
130°	517.3	457.2	406.7	366.4	335.6	308.7	285.9	270.8	259.0	252.7	249.5
132.5°	510.9	456.6	411.1	374.6	344.5	317.6	296.0	279.7	268.5	260.2	257.7
135°	501.4	455.7	417.7	385.4	356.9	330.8	310.3	293.8	280.3	272.5	269.2
137.5°	493.2	455.4	421.6	392.9	366.4	342.0	322.4	305.3	292.5	283.8	280.8
140°	488.8	454.8	424.9	398.0	372.7	349.0	330.0	313.5	300.0	291.3	289.0
142.5°	485.0	454.8	427.4	401.7	378.4	355.4	337.0	321.0	308.3	300.2	297.8
145°	478.5	453.2	428.8	405.9	384.6	364.1	346.7	331.6	320.6	312.7	310.3
147.5°	472.7	450.4	429.6	409.5	390.9	371.6	356.0	343.5	332.1	325.2	324.4
150°	468.3	448.5	429.6	411.4	394.0	376.7	361.6	349.8	340.3	334.1	333.3
152.5°	463.2	445.4	428.3	412.6	396.6	381.1	367.4	356.8	347.9	341.6	341.4
155°	455.7	440.6	426.4	413.7	400.3	386.9	375.1	366.4	358.5	353.8	352.9
157.5°	447.9	435.8	424.3	413.7	403.0	391.6	382.3	374.8	368.6	364.2	364.2
160°	442.2	431.9	422.4	413.7	404.2	394.9	386.2	379.8	374.3	371.1	371.1
162.5°	437.2	428.2	420.6	413.7	405.6	396.7	389.9	384.3	379.3	376.8	377.5
165°	428.8	422.4	417.0	412.2	405.9	398.8	394.0	390.1	386.2	384.6	384.6
167.5°	421.2	416.8	413.1	410.3	405.8	400.5	396.9	394.7	391.6	390.9	391.6
170°	416.2	412.9	410.6	409.0	405.1	401.1	398.8	397.2	394.9	394.0	394.9
172.5°	411.7	409.2	408.1	407.8	404.5	401.7	400.0	399.1	397.4	397.2	398.0
175°	406.7	405.1	405.1	405.9	403.5	401.9	401.9	401.1	400.3	400.3	401.1
177.5°	403.1	402.5	402.5	403.8	402.5	401.9	401.9	401.9	401.3	401.9	402.5
180°	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9



TEST NUMBER: P332879-840

CATALOG NUMBER: SA4XXRDIP-C350D810U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2
2.5°	596.8	598.5	600.5	604.1	607.1	608.5	611.2	613.1	612.5	615.2	619.8
5°	599.2	605.6	613.1	620.7	629.2	636.4	642.2	647.9	652.5	657.9	666.1
7.5°	598.7	610.3	622.8	636.4	650.6	662.8	674.0	685.5	695.7	706.8	721.4
10°	597.2	612.6	628.1	646.0	664.0	681.0	696.2	710.5	724.2	738.7	757.2
12.5°	595.5	613.1	631.9	653.5	675.8	696.2	714.2	734.9	751.9	770.7	791.9
15°	587.9	611.6	637.2	665.1	692.0	719.4	744.0	769.3	793.0	815.5	842.2
17.5°	579.3	606.5	636.7	669.7	701.9	735.3	764.6	796.5	820.6	850.8	875.7
20°	572.2	601.6	633.8	670.9	707.4	744.5	776.8	809.3	836.5	866.9	898.4
22.5°	563.6	595.8	630.8	669.1	707.4	747.9	783.7	816.0	849.7	883.8	916.4
25°	549.7	583.2	620.3	662.3	706.3	747.6	785.9	826.0	862.3	899.4	928.6
27.5°	532.7	567.8	606.8	650.3	695.4	737.7	782.7	825.6	862.1	897.8	923.2
30°	519.1	556.1	593.7	637.6	684.5	729.9	778.2	821.0	859.5	891.5	905.8
32.5°	505.1	540.3	579.0	623.5	671.5	720.3	768.2	812.0	847.6	866.8	867.2
35°	480.9	513.8	554.0	597.7	647.0	700.0	748.5	791.5	813.3	815.0	791.5
37.5°	454.4	484.6	522.5	566.3	620.3	673.1	722.6	751.2	758.5	734.2	690.9
40°	435.5	463.4	500.0	544.9	598.4	653.0	698.1	719.1	711.6	672.1	623.8
42.5°	415.6	441.6	476.9	521.2	574.9	630.1	668.5	679.7	659.5	614.0	557.4
45°	383.1	407.0	441.9	486.7	538.3	589.9	619.0	613.3	579.6	525.5	462.2
47.5°	349.3	372.4	403.8	445.1	498.1	542.6	562.3	545.0	497.1	437.7	386.2
50°	327.0	350.6	379.5	419.0	467.3	510.3	522.9	496.7	443.3	386.3	338.9
52.5°	305.0	325.2	353.6	391.6	437.8	474.1	480.9	450.6	395.6	344.4	302.4
55°	271.6	289.9	313.8	349.6	389.6	420.4	416.8	377.9	327.9	284.2	251.2
57.5°	239.1	253.0	275.1	308.7	343.8	364.5	351.3	318.1	271.6	235.7	207.9
60°	217.7	230.7	251.2	280.5	311.4	323.2	312.1	276.1	239.2	206.5	183.1
62.5°	197.4	208.8	226.5	253.8	278.7	285.7	273.9	242.4	209.2	181.3	161.9
65°	168.0	178.5	193.6	213.0	230.1	233.5	225.9	193.6	168.5	145.1	131.7
67.5°	141.3	148.1	160.0	176.6	185.8	187.7	173.0	152.7	130.6	116.2	106.1
70°	123.3	128.2	139.1	148.1	155.6	155.8	142.2	125.9	109.0	97.3	89.9
72.5°	105.9	110.5	118.9	125.0	130.8	128.9	116.4	103.6	89.9	81.0	75.5
75°	81.7	85.8	90.1	93.0	93.0	90.6	81.5	71.9	64.0	58.8	57.2
77.5°	59.4	62.7	64.2	63.7	62.9	59.2	53.4	47.2	44.3	41.9	40.6
80°	46.7	48.1	48.5	47.4	45.8	41.6	37.8	35.1	32.5	31.5	31.1
82.5°	34.5	35.9	34.5	34.9	31.7	28.2	26.1	25.1	24.1	23.7	23.2
85°	18.4	18.2	17.7	16.5	14.3	13.8	13.6	13.4	12.9	13.1	12.6
87.5°	6.8	6.7	6.1	6.1	6.1	6.6	6.8	7.1	7.5	7.1	7.6
90°	2.3	4.7	5.6	6.4	6.4	11.0	11.0	12.6	14.2	13.4	14.2
92.5°	13.1	20.5	30.2	41.7	58.1	98.3	159.5	219.2	250.4	208.6	155.1
95°	28.4	36.4	46.6	65.5	98.7	167.4	296.9	485.6	643.6	661.8	585.1
97.5°	46.8	53.5	63.0	79.3	107.0	160.0	266.9	454.5	677.8	831.3	864.4
100°	60.0	65.5	75.0	90.0	115.3	161.9	251.2	412.2	634.9	837.0	952.3
102.5°	73.9	78.8	87.7	102.0	126.0	168.1	246.7	383.7	581.2	789.6	947.9
105°	94.7	98.7	108.2	122.4	145.3	183.2	248.7	359.3	518.0	703.6	884.4
107.5°	115.7	119.7	129.8	143.4	166.0	200.8	260.4	354.9	482.6	634.1	794.3
110°	130.3	134.2	143.7	157.9	179.3	214.0	269.2	356.1	470.6	599.4	739.9





TEST NUMBER: P332879-840

CATALOG NUMBER: SA4XXRDIP-C350D810U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	144.2	148.8	157.6	171.8	193.2	226.6	278.7	359.9	464.9	579.8	700.1
115°	165.0	170.6	178.4	193.5	214.8	246.4	293.8	367.2	461.9	561.4	660.1
117.5°	185.7	190.7	199.3	213.4	235.5	265.5	309.0	375.0	461.1	553.2	640.6
120°	198.9	204.5	213.2	226.6	248.7	278.7	319.8	380.6	461.1	548.8	631.7
122.5°	211.7	217.1	225.2	239.8	261.4	291.3	329.9	386.3	460.5	543.7	624.1
125°	229.7	234.5	243.2	258.2	280.3	308.7	345.1	394.9	459.6	535.3	611.2
127.5°	243.9	249.5	259.4	275.1	297.4	324.9	358.2	401.6	457.9	524.1	595.4
130°	252.7	259.0	270.8	285.9	308.7	335.6	366.4	406.7	457.2	517.3	582.8
132.5°	260.2	268.5	279.7	296.0	317.6	344.5	374.6	411.1	456.6	510.9	569.5
135°	272.5	280.3	293.8	310.3	330.8	356.9	385.4	417.7	455.7	501.4	551.2
137.5°	283.8	292.5	305.3	322.4	342.0	366.4	392.9	421.6	455.4	493.2	534.6
140°	291.3	300.0	313.5	330.0	349.0	372.7	398.0	424.9	454.8	488.8	525.1
142.5°	300.2	308.3	321.0	337.0	355.4	378.4	401.7	427.4	454.8	485.0	516.2
145°	312.7	320.6	331.6	346.7	364.1	384.6	405.9	428.8	453.2	478.5	503.8
147.5°	325.2	332.1	343.5	356.0	371.6	390.9	409.5	429.6	450.4	472.7	493.5
150°	334.1	340.3	349.8	361.6	376.7	394.0	411.4	429.6	448.5	468.3	487.2
152.5°	341.6	347.9	356.8	367.4	381.1	396.6	412.6	428.3	445.4	463.2	480.3
155°	353.8	358.5	366.4	375.1	386.9	400.3	413.7	426.4	440.6	455.7	469.8
157.5°	364.2	368.6	374.8	382.3	391.6	403.0	413.7	424.3	435.8	447.9	458.6
160°	371.1	374.3	379.8	386.2	394.9	404.2	413.7	422.4	431.9	442.2	451.7
162.5°	376.8	379.3	384.3	389.9	396.7	405.6	413.7	420.6	428.2	437.2	444.7
165°	384.6	386.2	390.1	394.0	398.8	405.9	412.2	417.0	422.4	428.8	435.0
167.5°	390.9	391.6	394.7	396.9	400.5	405.8	410.3	413.1	416.8	421.2	425.8
170°	394.0	394.9	397.2	398.8	401.1	405.1	409.0	410.6	412.9	416.2	420.1
172.5°	397.2	397.4	399.1	400.0	401.7	404.5	407.8	408.1	409.2	411.7	415.1
175°	400.3	400.3	401.1	401.9	401.9	403.5	405.9	405.1	405.1	406.7	408.3
177.5°	401.9	401.3	401.9	401.9	401.9	402.5	403.8	402.5	402.5	403.1	403.8
180°	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9



TEST NUMBER: P332879-840  
 CATALOG NUMBER: SA4XXRDIP-C350D810U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	593.2	593.2	593.2	593.2	593.2	593.2	593.2
2.5°	622.3	623.0	623.6	625.5	625.7	627.4	625.7
5°	673.8	677.1	682.4	687.6	688.1	691.5	685.5
7.5°	731.4	739.2	744.1	752.6	755.9	758.0	754.6
10°	771.2	778.4	791.1	797.3	803.5	804.5	801.6
12.5°	809.7	821.0	831.0	842.8	842.5	850.9	847.9
15°	860.9	872.6	886.5	899.6	904.3	904.3	908.2
17.5°	897.4	918.9	933.2	943.5	954.8	956.7	955.4
20°	922.1	945.2	960.6	973.9	981.6	983.7	983.7
22.5°	940.4	960.2	975.1	987.1	993.4	995.9	995.2
25°	953.1	970.1	979.2	982.8	984.4	984.0	979.5
27.5°	935.7	934.9	929.3	918.3	910.0	904.9	899.2
30°	902.5	890.0	875.7	859.9	839.6	824.0	819.3
32.5°	852.9	825.1	800.7	774.5	752.7	737.1	730.5
35°	757.2	713.0	676.8	645.3	622.4	608.0	603.2
37.5°	643.5	600.7	556.0	525.4	506.3	491.9	486.6
40°	571.2	524.6	485.6	457.0	437.4	423.2	423.0
42.5°	505.2	460.7	424.0	403.4	382.3	372.9	372.9
45°	413.7	378.1	347.0	330.7	318.1	310.4	308.3
47.5°	342.5	313.1	292.4	279.4	269.1	264.3	261.1
50°	302.6	276.8	260.2	249.0	243.3	237.1	236.6
52.5°	269.3	248.4	235.6	226.5	219.2	215.5	215.6
55°	226.3	209.8	200.8	193.8	188.1	185.2	184.0
57.5°	190.7	178.3	171.7	165.3	162.9	160.7	160.1
60°	168.5	160.2	153.9	148.9	145.3	144.6	144.3
62.5°	150.2	141.4	137.1	133.2	130.6	129.5	129.1
65°	123.8	117.3	113.5	110.4	109.5	107.8	107.6
67.5°	99.8	95.9	93.4	91.3	90.0	89.9	89.9
70°	85.1	82.9	80.8	79.6	78.9	78.4	78.4
72.5°	72.5	70.9	69.1	68.5	68.4	67.9	67.7
75°	55.2	53.5	53.8	52.6	51.6	50.4	49.7
77.5°	39.2	38.0	37.7	37.6	36.8	36.7	37.0
80°	30.4	29.2	28.9	29.2	28.9	28.2	28.2
82.5°	23.1	22.1	21.8	21.7	21.5	21.7	21.3
85°	12.4	11.9	11.9	11.9	12.4	12.2	11.9
87.5°	7.4	7.4	7.6	7.5	7.7	7.4	7.5
90°	15.0	15.8	15.8	16.6	17.4	16.6	16.6
92.5°	116.7	92.9	77.1	67.8	63.5	60.8	60.8
95°	462.7	356.9	280.3	241.7	217.1	203.0	192.7
97.5°	819.0	741.7	659.3	602.7	555.1	531.4	515.0
100°	968.1	929.4	871.0	802.2	754.1	730.4	724.1
102.5°	1026.2	1037.4	1013.1	971.0	936.0	911.1	906.1
105°	1021.0	1099.1	1131.6	1133.2	1126.8	1115.8	1111.1
107.5°	939.7	1049.8	1120.1	1159.2	1177.2	1185.1	1187.1
110°	876.5	991.0	1077.8	1133.9	1167.1	1181.3	1188.4



TEST NUMBER: P332879-840

CATALOG NUMBER: SA4XXRDIP-C350D810U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	820.9	929.1	1015.9	1079.5	1119.7	1139.6	1151.1
115°	757.3	849.6	925.4	987.8	1035.2	1060.5	1066.8
117.5°	720.9	793.6	857.9	911.1	950.9	976.4	981.4
120°	705.2	768.3	824.4	869.4	904.1	924.6	933.3
122.5°	695.0	752.6	801.6	839.7	869.4	886.8	895.4
125°	679.1	733.6	777.0	808.6	831.5	846.5	851.2
127.5°	660.2	714.6	755.9	787.6	808.0	820.6	825.4
130°	645.1	698.8	740.6	773.1	792.8	805.5	810.2
132.5°	628.0	680.5	722.4	754.1	776.4	788.4	793.1
135°	602.5	650.7	690.1	721.8	743.9	756.5	761.2
137.5°	578.0	618.6	654.3	683.8	705.6	716.0	721.8
140°	562.2	597.7	631.0	658.5	675.9	687.0	693.3
142.5°	549.0	579.5	608.1	632.7	648.7	658.5	663.0
145°	530.7	554.3	576.4	596.2	609.6	617.5	621.5
147.5°	514.8	533.8	551.2	565.7	577.2	583.2	584.6
150°	505.3	521.2	535.3	548.1	558.3	563.0	563.8
152.5°	495.8	510.4	522.1	532.8	541.2	544.0	544.8
155°	482.5	494.3	503.8	511.7	518.0	520.4	520.4
157.5°	469.2	479.2	486.8	492.7	497.5	498.9	498.9
160°	460.4	469.1	475.3	480.1	484.8	485.6	485.6
162.5°	452.1	459.0	464.6	468.1	472.8	473.6	473.0
165°	439.8	445.4	449.3	452.4	455.7	454.8	454.0
167.5°	429.4	433.8	436.2	437.8	439.8	439.7	439.0
170°	422.4	425.7	428.0	429.6	430.3	429.6	429.6
172.5°	416.8	418.7	420.4	421.3	422.1	421.3	420.1
175°	409.0	410.6	410.6	410.6	412.2	410.6	409.0
177.5°	404.5	404.5	405.1	404.5	405.1	403.8	402.5
180°	401.9	401.9	401.9	401.9	401.9	401.9	401.9

(END OF REPORT)