

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: P332885-840

Luminaire Tested: **SA4XXRDIP-C350D1035U840-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332885-840
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-C350D1035U840-4F0-1E-UDD-A4
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 350 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1035 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5234.4 lumens
Efficiency: N/A
Efficacy: 140.3 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

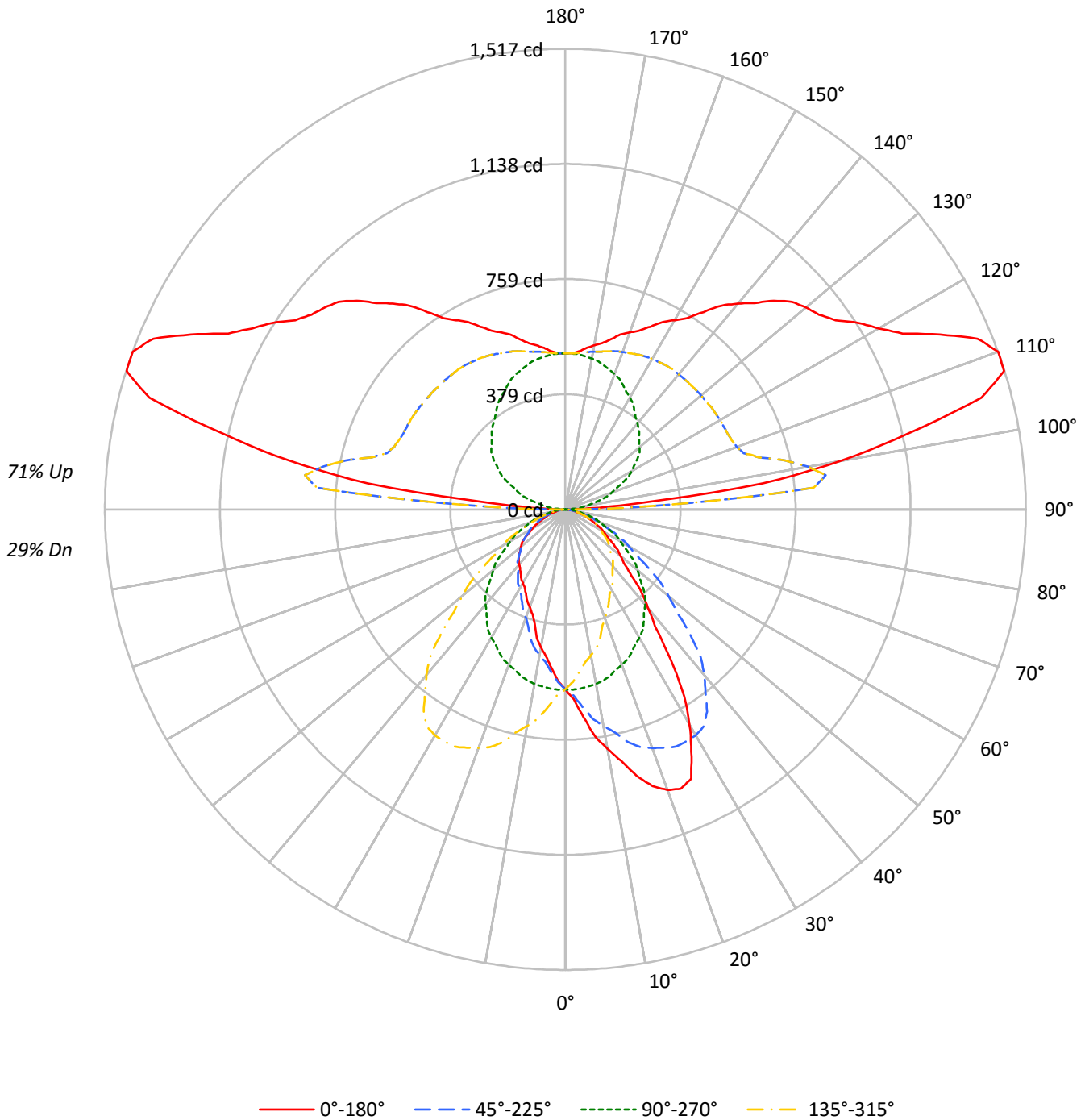
Input Watts (W): 37.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	102	102	102	91	91	91	91	72	72	72	53	53	53	37	37	37	29				
1	93	89	86	82	83	80	77	74	63	61	59	47	46	45	33	32	31	25				
2	85	78	72	68	76	70	65	61	55	52	49	42	40	38	29	28	27	21				
3	78	69	62	56	69	62	56	51	49	45	42	37	34	32	26	24	23	18				
4	71	61	53	48	64	55	49	44	44	39	36	33	30	28	23	22	20	16				
5	65	54	47	41	58	49	42	37	39	34	31	30	27	24	21	19	18	14				
6	60	49	41	35	54	44	37	32	35	30	27	27	24	21	19	17	15	12				
7	55	44	36	31	50	40	33	28	32	27	23	24	21	19	18	15	14	11				
8	51	40	32	27	46	36	30	25	29	24	21	22	19	17	16	14	12	10				
9	48	36	29	24	43	33	27	22	26	22	19	20	17	15	15	13	11	9				
10	45	33	26	22	40	30	24	20	24	20	17	19	16	13	14	12	10	8				

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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.5	1.1
10°-20°	173.4	3.3
20°-30°	271.2	5.2
30°-40°	301.5	5.8
40°-50°	267.5	5.1
50°-60°	208.4	4.0
60°-70°	136.5	2.6
70°-80°	67.1	1.3
80°-90°	19.4	0.4
90°-100°	370.6	7.1
100°-110°	771.4	14.7
110°-120°	690.9	13.2
120°-130°	581.2	11.1
130°-140°	484.6	9.3
140°-150°	370.2	7.1
150°-160°	260.2	5.0
160°-170°	153.1	2.9
170°-180°	49.8	1.0
0°-30°	502.0	9.6
0°-40°	803.5	15.3
0°-60°	1279.4	24.4
0°-90°	1502.3	28.7
90°-120°	1833.0	35.0
90°-150°	3269.0	62.5
90°-180°	3732.0	71.3
0°-180°	5234.4	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°	21	1	21	1	21	18
95°	246	33	246	33	246	382
105°	1418	118	1418	118	1418	1402
115°	1362	208	1362	208	1362	1352
125°	1087	289	1087	289	1087	988
135°	972	344	972	344	972	750
145°	794	396	794	396	794	503
155°	664	451	664	451	664	310
165°	580	491	580	491	580	166
175°	522	512	522	512	522	51
180°	513	513	513	513	513	



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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°	8.5	8.3	8.7	8.5	8.4	8.3	8.2	8.4	7.8	8.2	7.8
90°	21.2	21.2	22.2	21.2	20.2	20.2	19.2	18.2	17.2	18.2	16.2
92.5°	77.7	77.7	81.1	86.5	98.4	118.6	149.1	198.0	266.4	319.8	279.8
95°	246.0	259.1	277.2	308.5	357.9	455.7	590.8	747.0	844.9	821.6	620.1
97.5°	657.5	678.5	708.7	769.4	841.8	947.1	1045.6	1103.8	1061.4	865.4	580.3
100°	924.5	932.5	962.8	1024.3	1112.0	1186.6	1236.0	1215.9	1068.6	810.5	526.2
102.5°	1156.8	1163.3	1195.1	1239.6	1293.4	1324.5	1310.2	1210.2	1008.1	742.0	490.0
105°	1418.5	1424.5	1438.7	1446.7	1444.7	1403.3	1303.5	1129.1	898.3	661.4	458.7
107.5°	1515.7	1513.1	1503.0	1480.0	1430.2	1340.3	1199.7	1014.0	809.5	616.2	453.0
110°	1517.3	1508.2	1490.1	1447.7	1376.1	1265.3	1119.0	944.6	765.2	600.9	454.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1469.7	1455.0	1429.6	1378.4	1297.1	1186.2	1048.0	893.8	740.2	593.6	459.5
115°	1362.0	1353.9	1321.7	1261.2	1181.5	1084.8	966.8	842.8	716.8	589.8	468.8
117.5°	1252.9	1246.7	1214.1	1163.3	1095.3	1013.2	920.5	817.8	706.3	588.8	478.7
120°	1191.6	1180.5	1154.4	1109.9	1052.5	981.0	900.3	806.5	700.6	588.8	485.9
122.5°	1143.3	1132.2	1109.9	1072.1	1023.5	960.8	887.4	796.9	694.2	587.9	493.2
125°	1086.8	1080.8	1061.6	1032.4	992.0	936.5	867.0	780.3	683.6	586.7	504.1
127.5°	1053.7	1047.6	1031.6	1005.5	965.0	912.4	843.0	760.1	669.2	584.5	512.7
130°	1034.4	1028.3	1012.2	986.9	945.6	892.2	823.6	744.1	660.4	583.7	519.2
132.5°	1012.6	1006.5	991.2	962.8	922.3	868.8	801.9	727.1	652.3	582.9	524.8
135°	971.9	965.8	949.7	921.5	881.1	830.7	769.2	703.7	640.2	581.7	533.3
137.5°	921.5	914.2	900.9	873.0	835.4	789.8	738.0	682.6	629.7	581.5	538.4
140°	885.1	877.1	863.0	840.8	805.5	763.2	717.8	670.4	624.1	580.7	542.4
142.5°	846.5	840.8	828.3	807.7	776.5	739.8	700.8	659.1	619.2	580.7	545.6
145°	793.5	788.4	778.3	761.1	736.0	707.7	677.5	643.2	611.0	578.7	547.4
147.5°	746.4	744.7	737.0	722.3	703.7	681.6	657.3	630.1	603.5	575.0	548.5
150°	719.8	718.8	712.8	699.6	683.6	665.4	645.2	622.1	597.8	572.6	548.5
152.5°	695.6	694.6	690.9	680.3	666.6	651.7	633.1	613.2	591.4	568.6	546.8
155°	664.4	664.4	661.4	653.3	643.2	631.1	616.0	599.9	581.7	562.6	544.4
157.5°	636.9	636.9	635.1	629.0	621.5	611.8	599.1	585.5	571.8	556.3	541.8
160°	620.1	620.1	619.0	613.0	606.9	598.8	587.7	576.6	564.6	551.5	539.4
162.5°	603.9	604.7	603.7	597.6	593.2	585.9	577.2	567.7	558.2	546.6	536.9
165°	579.7	580.7	581.7	577.6	573.6	568.6	561.6	555.5	547.4	539.4	532.3
167.5°	560.6	561.4	561.6	559.0	556.9	553.9	548.3	543.6	537.8	532.1	527.5
170°	548.5	548.5	549.5	548.5	546.4	543.4	539.4	536.3	531.3	527.3	524.2
172.5°	536.3	538.0	539.0	538.0	536.7	534.5	532.1	529.9	525.6	522.4	521.0
175°	522.2	524.2	526.2	524.2	524.2	524.2	522.2	521.2	519.2	517.2	517.2
177.5°	513.9	515.5	517.2	516.3	517.2	516.3	516.3	515.5	514.7	513.9	513.9
180°	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1



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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°	7.4	7.2	6.4	6.4	6.4	7.0	6.9	6.7	6.6	6.6	6.2
90°	14.1	14.1	8.1	8.1	7.1	6.1	3.0	1.0	3.0	6.1	7.1
92.5°	203.7	125.4	74.2	53.2	38.5	26.3	16.8	11.5	16.8	26.3	38.5
95°	379.1	213.7	126.0	83.7	59.5	46.4	36.3	33.2	36.3	46.4	59.5
97.5°	340.7	204.3	136.7	101.2	80.5	68.4	59.7	59.7	59.7	68.4	80.5
100°	320.6	206.7	147.2	114.9	95.7	83.7	76.6	76.6	76.6	83.7	95.7
102.5°	315.0	214.7	160.9	130.3	111.9	100.6	94.3	92.7	94.3	100.6	111.9
105°	317.6	233.9	185.5	156.2	138.1	126.0	121.0	118.0	121.0	126.0	138.1
107.5°	332.4	256.3	211.9	183.1	165.7	152.8	147.8	145.8	147.8	152.8	165.7
110°	343.8	273.2	228.8	201.7	183.5	171.4	166.3	164.3	166.3	171.4	183.5



TEST NUMBER: P332885-840

CATALOG NUMBER: SA4XXRDIP-C350D1035U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	355.9	289.3	246.6	219.3	201.3	190.0	184.1	182.1	184.1	190.0	201.3
115°	375.1	314.6	274.2	247.0	227.8	217.7	210.7	207.7	210.7	217.7	227.8
117.5°	394.6	338.9	300.6	272.4	254.5	243.4	237.1	234.3	237.1	243.4	254.5
120°	408.3	355.9	317.6	289.3	272.2	261.2	254.1	252.1	254.1	261.2	272.2
122.5°	421.2	372.0	333.7	306.3	287.5	277.2	270.1	268.2	270.1	277.2	287.5
125°	440.6	394.2	357.9	329.6	310.5	299.4	293.4	289.3	293.4	299.4	310.5
127.5°	457.3	414.8	379.7	351.2	331.2	318.6	311.3	308.1	311.3	318.6	331.2
130°	467.8	428.5	394.2	365.0	345.8	330.6	322.7	318.6	322.7	330.6	345.8
132.5°	478.3	439.8	405.5	377.9	357.1	342.7	332.2	329.0	332.2	342.7	357.1
135°	492.0	455.7	422.4	396.2	375.1	357.9	347.8	343.8	347.8	357.9	375.1
137.5°	501.7	467.8	436.8	411.7	389.7	373.4	362.3	358.5	362.3	373.4	389.7
140°	508.1	475.8	445.7	421.4	400.2	383.1	372.0	369.0	372.0	383.1	400.2
142.5°	512.9	483.1	453.6	430.3	409.9	393.5	383.3	380.3	383.3	393.5	409.9
145°	518.2	491.0	464.7	442.6	423.4	409.3	399.2	396.2	399.2	409.3	423.4
147.5°	522.8	499.1	474.4	454.4	438.6	424.0	415.2	414.1	415.2	424.0	438.6
150°	525.2	503.1	480.9	461.7	446.7	434.5	426.5	425.5	426.5	434.5	446.7
152.5°	526.8	506.3	486.6	469.0	455.4	444.2	436.2	436.0	436.2	444.2	455.4
155°	528.3	511.1	494.0	478.9	467.8	457.7	451.6	450.6	451.6	457.7	467.8
157.5°	528.3	514.5	500.1	488.2	478.5	470.6	464.9	464.9	464.9	470.6	478.5
160°	528.3	516.1	504.1	493.0	484.9	477.9	473.8	473.8	473.8	477.9	484.9
162.5°	528.3	517.8	506.5	497.9	490.6	484.3	481.1	481.9	481.1	484.3	490.6
165°	526.2	518.2	509.1	503.1	498.1	493.0	491.0	491.0	491.0	493.0	498.1
167.5°	523.8	518.0	511.3	506.8	503.9	500.1	499.1	500.1	499.1	500.1	503.9
170°	522.2	517.2	512.1	509.1	507.2	504.1	503.1	504.1	503.1	504.1	507.2
172.5°	520.6	516.3	512.9	510.7	509.5	507.3	507.2	508.1	507.2	507.3	509.5
175°	518.2	515.1	513.1	513.1	512.1	511.1	511.1	512.1	511.1	511.1	512.1
177.5°	515.5	513.9	513.1	513.1	513.1	512.3	513.1	513.9	513.1	512.3	513.1
180°	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1



TEST NUMBER: P332885-840

CATALOG NUMBER: SA4XXRDIP-C350D1035U840-4F0-1E-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°	6.4	6.2	7.4	7.1	7.6	8.0	7.7	7.9	8.2	8.1	8.1
90°	8.1	8.1	14.1	14.1	16.2	18.2	17.2	18.2	19.2	20.2	20.2
92.5°	53.2	74.2	125.4	203.7	279.8	319.8	266.4	198.0	149.1	118.6	98.4
95°	83.7	126.0	213.7	379.1	620.1	821.6	844.9	747.0	590.8	455.7	357.9
97.5°	101.2	136.7	204.3	340.7	580.3	865.4	1061.4	1103.8	1045.6	947.1	841.8
100°	114.9	147.2	206.7	320.6	526.2	810.5	1068.6	1215.9	1236.0	1186.6	1112.0
102.5°	130.3	160.9	214.7	315.0	490.0	742.0	1008.1	1210.2	1310.2	1324.5	1293.4
105°	156.2	185.5	233.9	317.6	458.7	661.4	898.3	1129.1	1303.5	1403.3	1444.7
107.5°	183.1	211.9	256.3	332.4	453.0	616.2	809.5	1014.0	1199.7	1340.3	1430.2
110°	201.7	228.8	273.2	343.8	454.6	600.9	765.2	944.6	1119.0	1265.3	1376.1



TEST NUMBER: P332885-840

CATALOG NUMBER: SA4XXRDIP-C350D1035U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	219.3	246.6	289.3	355.9	459.5	593.6	740.2	893.8	1048.0	1186.2	1297.1
115°	247.0	274.2	314.6	375.1	468.8	589.8	716.8	842.8	966.8	1084.8	1181.5
117.5°	272.4	300.6	338.9	394.6	478.7	588.8	706.3	817.8	920.5	1013.2	1095.3
120°	289.3	317.6	355.9	408.3	485.9	588.8	700.6	806.5	900.3	981.0	1052.5
122.5°	306.3	333.7	372.0	421.2	493.2	587.9	694.2	796.9	887.4	960.8	1023.5
125°	329.6	357.9	394.2	440.6	504.1	586.7	683.6	780.3	867.0	936.5	992.0
127.5°	351.2	379.7	414.8	457.3	512.7	584.5	669.2	760.1	843.0	912.4	965.0
130°	365.0	394.2	428.5	467.8	519.2	583.7	660.4	744.1	823.6	892.2	945.6
132.5°	377.9	405.5	439.8	478.3	524.8	582.9	652.3	727.1	801.9	868.8	922.3
135°	396.2	422.4	455.7	492.0	533.3	581.7	640.2	703.7	769.2	830.7	881.1
137.5°	411.7	436.8	467.8	501.7	538.4	581.5	629.7	682.6	738.0	789.8	835.4
140°	421.4	445.7	475.8	508.1	542.4	580.7	624.1	670.4	717.8	763.2	805.5
142.5°	430.3	453.6	483.1	512.9	545.6	580.7	619.2	659.1	700.8	739.8	776.5
145°	442.6	464.7	491.0	518.2	547.4	578.7	611.0	643.2	677.5	707.7	736.0
147.5°	454.4	474.4	499.1	522.8	548.5	575.0	603.5	630.1	657.3	681.6	703.7
150°	461.7	480.9	503.1	525.2	548.5	572.6	597.8	622.1	645.2	665.4	683.6
152.5°	469.0	486.6	506.3	526.8	546.8	568.6	591.4	613.2	633.1	651.7	666.6
155°	478.9	494.0	511.1	528.3	544.4	562.6	581.7	599.9	616.0	631.1	643.2
157.5°	488.2	500.1	514.5	528.3	541.8	556.3	571.8	585.5	599.1	611.8	621.5
160°	493.0	504.1	516.1	528.3	539.4	551.5	564.6	576.6	587.7	598.8	606.9
162.5°	497.9	506.5	517.8	528.3	536.9	546.6	558.2	567.7	577.2	585.9	593.2
165°	503.1	509.1	518.2	526.2	532.3	539.4	547.4	555.5	561.6	568.6	573.6
167.5°	506.8	511.3	518.0	523.8	527.5	532.1	537.8	543.6	548.3	553.9	556.9
170°	509.1	512.1	517.2	522.2	524.2	527.3	531.3	536.3	539.4	543.4	546.4
172.5°	510.7	512.9	516.3	520.6	521.0	522.4	525.6	529.9	532.1	534.5	536.7
175°	513.1	513.1	515.1	518.2	517.2	517.2	519.2	521.2	522.2	524.2	524.2
177.5°	513.1	513.1	513.9	515.5	513.9	513.9	514.7	515.5	516.3	516.3	517.2
180°	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1



TEST NUMBER: P332885-840

CATALOG NUMBER: SA4XXRDIP-C350D1035U840-4F0-1E-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°	8.6	8.7	8.3	8.5	8.3	8.7	8.6	8.1	8.1	8.2	7.9
90°	21.2	22.2	21.2	21.2	21.2	22.2	21.2	20.2	20.2	19.2	18.2
92.5°	86.5	81.1	77.7	77.7	77.7	81.1	86.5	98.4	118.6	149.1	198.0
95°	308.5	277.2	259.1	246.0	259.1	277.2	308.5	357.9	455.7	590.8	747.0
97.5°	769.4	708.7	678.5	657.5	678.5	708.7	769.4	841.8	947.1	1045.6	1103.8
100°	1024.3	962.8	932.5	924.5	932.5	962.8	1024.3	1112.0	1186.6	1236.0	1215.9
102.5°	1239.6	1195.1	1163.3	1156.8	1163.3	1195.1	1239.6	1293.4	1324.5	1310.2	1210.2
105°	1446.7	1438.7	1424.5	1418.5	1424.5	1438.7	1446.7	1444.7	1403.3	1303.5	1129.1
107.5°	1480.0	1503.0	1513.1	1515.7	1513.1	1503.0	1480.0	1430.2	1340.3	1199.7	1014.0
110°	1447.7	1490.1	1508.2	1517.3	1508.2	1490.1	1447.7	1376.1	1265.3	1119.0	944.6



TEST NUMBER: P332885-840

CATALOG NUMBER: SA4XXRDIP-C350D1035U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1378.4	1429.6	1455.0	1469.7	1455.0	1429.6	1378.4	1297.1	1186.2	1048.0	893.8
115°	1261.2	1321.7	1353.9	1362.0	1353.9	1321.7	1261.2	1181.5	1084.8	966.8	842.8
117.5°	1163.3	1214.1	1246.7	1252.9	1246.7	1214.1	1163.3	1095.3	1013.2	920.5	817.8
120°	1109.9	1154.4	1180.5	1191.6	1180.5	1154.4	1109.9	1052.5	981.0	900.3	806.5
122.5°	1072.1	1109.9	1132.2	1143.3	1132.2	1109.9	1072.1	1023.5	960.8	887.4	796.9
125°	1032.4	1061.6	1080.8	1086.8	1080.8	1061.6	1032.4	992.0	936.5	867.0	780.3
127.5°	1005.5	1031.6	1047.6	1053.7	1047.6	1031.6	1005.5	965.0	912.4	843.0	760.1
130°	986.9	1012.2	1028.3	1034.4	1028.3	1012.2	986.9	945.6	892.2	823.6	744.1
132.5°	962.8	991.2	1006.5	1012.6	1006.5	991.2	962.8	922.3	868.8	801.9	727.1
135°	921.5	949.7	965.8	971.9	965.8	949.7	921.5	881.1	830.7	769.2	703.7
137.5°	873.0	900.9	914.2	921.5	914.2	900.9	873.0	835.4	789.8	738.0	682.6
140°	840.8	863.0	877.1	885.1	877.1	863.0	840.8	805.5	763.2	717.8	670.4
142.5°	807.7	828.3	840.8	846.5	840.8	828.3	807.7	776.5	739.8	700.8	659.1
145°	761.1	778.3	788.4	793.5	788.4	778.3	761.1	736.0	707.7	677.5	643.2
147.5°	722.3	737.0	744.7	746.4	744.7	737.0	722.3	703.7	681.6	657.3	630.1
150°	699.6	712.8	718.8	719.8	718.8	712.8	699.6	683.6	665.4	645.2	622.1
152.5°	680.3	690.9	694.6	695.6	694.6	690.9	680.3	666.6	651.7	633.1	613.2
155°	653.3	661.4	664.4	664.4	664.4	661.4	653.3	643.2	631.1	616.0	599.9
157.5°	629.0	635.1	636.9	636.9	636.9	635.1	629.0	621.5	611.8	599.1	585.5
160°	613.0	619.0	620.1	620.1	620.1	619.0	613.0	606.9	598.8	587.7	576.6
162.5°	597.6	603.7	604.7	603.9	604.7	603.7	597.6	593.2	585.9	577.2	567.7
165°	577.6	581.7	580.7	579.7	580.7	581.7	577.6	573.6	568.6	561.6	555.5
167.5°	559.0	561.6	561.4	560.6	561.4	561.6	559.0	556.9	553.9	548.3	543.6
170°	548.5	549.5	548.5	548.5	548.5	549.5	548.5	546.4	543.4	539.4	536.3
172.5°	538.0	539.0	538.0	536.3	538.0	539.0	538.0	536.7	534.5	532.1	529.9
175°	524.2	526.2	524.2	522.2	524.2	526.2	524.2	524.2	524.2	522.2	521.2
177.5°	516.3	517.2	515.5	513.9	515.5	517.2	516.3	517.2	516.3	516.3	515.5
180°	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1



TEST NUMBER: P332885-840

CATALOG NUMBER: SA4XXRDIP-C350D1035U840-4F0-1E-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°	7.7	8.0	7.6	7.1	7.4	6.2	6.4	6.2	6.6	6.6	6.7
90°	17.2	18.2	16.2	14.1	14.1	8.1	8.1	7.1	6.1	3.0	1.0
92.5°	266.4	319.8	279.8	203.7	125.4	74.2	53.2	38.5	26.3	16.8	11.5
95°	844.9	821.6	620.1	379.1	213.7	126.0	83.7	59.5	46.4	36.3	33.2
97.5°	1061.4	865.4	580.3	340.7	204.3	136.7	101.2	80.5	68.4	59.7	59.7
100°	1068.6	810.5	526.2	320.6	206.7	147.2	114.9	95.7	83.7	76.6	76.6
102.5°	1008.1	742.0	490.0	315.0	214.7	160.9	130.3	111.9	100.6	94.3	92.7
105°	898.3	661.4	458.7	317.6	233.9	185.5	156.2	138.1	126.0	121.0	118.0
107.5°	809.5	616.2	453.0	332.4	256.3	211.9	183.1	165.7	152.8	147.8	145.8
110°	765.2	600.9	454.6	343.8	273.2	228.8	201.7	183.5	171.4	166.3	164.3



TEST NUMBER: P332885-840

CATALOG NUMBER: SA4XXRDIP-C350D1035U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	740.2	593.6	459.5	355.9	289.3	246.6	219.3	201.3	190.0	184.1	182.1
115°	716.8	589.8	468.8	375.1	314.6	274.2	247.0	227.8	217.7	210.7	207.7
117.5°	706.3	588.8	478.7	394.6	338.9	300.6	272.4	254.5	243.4	237.1	234.3
120°	700.6	588.8	485.9	408.3	355.9	317.6	289.3	272.2	261.2	254.1	252.1
122.5°	694.2	587.9	493.2	421.2	372.0	333.7	306.3	287.5	277.2	270.1	268.2
125°	683.6	586.7	504.1	440.6	394.2	357.9	329.6	310.5	299.4	293.4	289.3
127.5°	669.2	584.5	512.7	457.3	414.8	379.7	351.2	331.2	318.6	311.3	308.1
130°	660.4	583.7	519.2	467.8	428.5	394.2	365.0	345.8	330.6	322.7	318.6
132.5°	652.3	582.9	524.8	478.3	439.8	405.5	377.9	357.1	342.7	332.2	329.0
135°	640.2	581.7	533.3	492.0	455.7	422.4	396.2	375.1	357.9	347.8	343.8
137.5°	629.7	581.5	538.4	501.7	467.8	436.8	411.7	389.7	373.4	362.3	358.5
140°	624.1	580.7	542.4	508.1	475.8	445.7	421.4	400.2	383.1	372.0	369.0
142.5°	619.2	580.7	545.6	512.9	483.1	453.6	430.3	409.9	393.5	383.3	380.3
145°	611.0	578.7	547.4	518.2	491.0	464.7	442.6	423.4	409.3	399.2	396.2
147.5°	603.5	575.0	548.5	522.8	499.1	474.4	454.4	438.6	424.0	415.2	414.1
150°	597.8	572.6	548.5	525.2	503.1	480.9	461.7	446.7	434.5	426.5	425.5
152.5°	591.4	568.6	546.8	526.8	506.3	486.6	469.0	455.4	444.2	436.2	436.0
155°	581.7	562.6	544.4	528.3	511.1	494.0	478.9	467.8	457.7	451.6	450.6
157.5°	571.8	556.3	541.8	528.3	514.5	500.1	488.2	478.5	470.6	464.9	464.9
160°	564.6	551.5	539.4	528.3	516.1	504.1	493.0	484.9	477.9	473.8	473.8
162.5°	558.2	546.6	536.9	528.3	517.8	506.5	497.9	490.6	484.3	481.1	481.9
165°	547.4	539.4	532.3	526.2	518.2	509.1	503.1	498.1	493.0	491.0	491.0
167.5°	537.8	532.1	527.5	523.8	518.0	511.3	506.8	503.9	500.1	499.1	500.1
170°	531.3	527.3	524.2	522.2	517.2	512.1	509.1	507.2	504.1	503.1	504.1
172.5°	525.6	522.4	521.0	520.6	516.3	512.9	510.7	509.5	507.3	507.2	508.1
175°	519.2	517.2	517.2	518.2	515.1	513.1	513.1	512.1	511.1	511.1	512.1
177.5°	514.7	513.9	513.9	515.5	513.9	513.1	513.1	513.1	512.3	513.1	513.9
180°	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1



TEST NUMBER: P332885-840

CATALOG NUMBER: SA4XXRDIP-C350D1035U840-4F0-1E-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°	6.9	7.0	6.4	6.4	6.4	7.2	7.4	7.8	8.2	7.8	8.4
90°	3.0	6.1	7.1	8.1	8.1	14.1	14.1	16.2	18.2	17.2	18.2
92.5°	16.8	26.3	38.5	53.2	74.2	125.4	203.7	279.8	319.8	266.4	198.0
95°	36.3	46.4	59.5	83.7	126.0	213.7	379.1	620.1	821.6	844.9	747.0
97.5°	59.7	68.4	80.5	101.2	136.7	204.3	340.7	580.3	865.4	1061.4	1103.8
100°	76.6	83.7	95.7	114.9	147.2	206.7	320.6	526.2	810.5	1068.6	1215.9
102.5°	94.3	100.6	111.9	130.3	160.9	214.7	315.0	490.0	742.0	1008.1	1210.2
105°	121.0	126.0	138.1	156.2	185.5	233.9	317.6	458.7	661.4	898.3	1129.1
107.5°	147.8	152.8	165.7	183.1	211.9	256.3	332.4	453.0	616.2	809.5	1014.0
110°	166.3	171.4	183.5	201.7	228.8	273.2	343.8	454.6	600.9	765.2	944.6



TEST NUMBER: P332885-840

CATALOG NUMBER: SA4XXRDIP-C350D1035U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	184.1	190.0	201.3	219.3	246.6	289.3	355.9	459.5	593.6	740.2	893.8
115°	210.7	217.7	227.8	247.0	274.2	314.6	375.1	468.8	589.8	716.8	842.8
117.5°	237.1	243.4	254.5	272.4	300.6	338.9	394.6	478.7	588.8	706.3	817.8
120°	254.1	261.2	272.2	289.3	317.6	355.9	408.3	485.9	588.8	700.6	806.5
122.5°	270.1	277.2	287.5	306.3	333.7	372.0	421.2	493.2	587.9	694.2	796.9
125°	293.4	299.4	310.5	329.6	357.9	394.2	440.6	504.1	586.7	683.6	780.3
127.5°	311.3	318.6	331.2	351.2	379.7	414.8	457.3	512.7	584.5	669.2	760.1
130°	322.7	330.6	345.8	365.0	394.2	428.5	467.8	519.2	583.7	660.4	744.1
132.5°	332.2	342.7	357.1	377.9	405.5	439.8	478.3	524.8	582.9	652.3	727.1
135°	347.8	357.9	375.1	396.2	422.4	455.7	492.0	533.3	581.7	640.2	703.7
137.5°	362.3	373.4	389.7	411.7	436.8	467.8	501.7	538.4	581.5	629.7	682.6
140°	372.0	383.1	400.2	421.4	445.7	475.8	508.1	542.4	580.7	624.1	670.4
142.5°	383.3	393.5	409.9	430.3	453.6	483.1	512.9	545.6	580.7	619.2	659.1
145°	399.2	409.3	423.4	442.6	464.7	491.0	518.2	547.4	578.7	611.0	643.2
147.5°	415.2	424.0	438.6	454.4	474.4	499.1	522.8	548.5	575.0	603.5	630.1
150°	426.5	434.5	446.7	461.7	480.9	503.1	525.2	548.5	572.6	597.8	622.1
152.5°	436.2	444.2	455.4	469.0	486.6	506.3	526.8	546.8	568.6	591.4	613.2
155°	451.6	457.7	467.8	478.9	494.0	511.1	528.3	544.4	562.6	581.7	599.9
157.5°	464.9	470.6	478.5	488.2	500.1	514.5	528.3	541.8	556.3	571.8	585.5
160°	473.8	477.9	484.9	493.0	504.1	516.1	528.3	539.4	551.5	564.6	576.6
162.5°	481.1	484.3	490.6	497.9	506.5	517.8	528.3	536.9	546.6	558.2	567.7
165°	491.0	493.0	498.1	503.1	509.1	518.2	526.2	532.3	539.4	547.4	555.5
167.5°	499.1	500.1	503.9	506.8	511.3	518.0	523.8	527.5	532.1	537.8	543.6
170°	503.1	504.1	507.2	509.1	512.1	517.2	522.2	524.2	527.3	531.3	536.3
172.5°	507.2	507.3	509.5	510.7	512.9	516.3	520.6	521.0	522.4	525.6	529.9
175°	511.1	511.1	512.1	513.1	513.1	515.1	518.2	517.2	517.2	519.2	521.2
177.5°	513.1	512.3	513.1	513.1	513.1	513.9	515.5	513.9	513.9	514.7	515.5
180°	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1



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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°	8.2	8.3	8.4	8.5	8.7	8.3	8.5
90°	19.2	20.2	20.2	21.2	22.2	21.2	21.2
92.5°	149.1	118.6	98.4	86.5	81.1	77.7	77.7
95°	590.8	455.7	357.9	308.5	277.2	259.1	246.0
97.5°	1045.6	947.1	841.8	769.4	708.7	678.5	657.5
100°	1236.0	1186.6	1112.0	1024.3	962.8	932.5	924.5
102.5°	1310.2	1324.5	1293.4	1239.6	1195.1	1163.3	1156.8
105°	1303.5	1403.3	1444.7	1446.7	1438.7	1424.5	1418.5
107.5°	1199.7	1340.3	1430.2	1480.0	1503.0	1513.1	1515.7
110°	1119.0	1265.3	1376.1	1447.7	1490.1	1508.2	1517.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	1048.0	1186.2	1297.1	1378.4	1429.6	1455.0	1469.7
115°	966.8	1084.8	1181.5	1261.2	1321.7	1353.9	1362.0
117.5°	920.5	1013.2	1095.3	1163.3	1214.1	1246.7	1252.9
120°	900.3	981.0	1052.5	1109.9	1154.4	1180.5	1191.6
122.5°	887.4	960.8	1023.5	1072.1	1109.9	1132.2	1143.3
125°	867.0	936.5	992.0	1032.4	1061.6	1080.8	1086.8
127.5°	843.0	912.4	965.0	1005.5	1031.6	1047.6	1053.7
130°	823.6	892.2	945.6	986.9	1012.2	1028.3	1034.4
132.5°	801.9	868.8	922.3	962.8	991.2	1006.5	1012.6
135°	769.2	830.7	881.1	921.5	949.7	965.8	971.9
137.5°	738.0	789.8	835.4	873.0	900.9	914.2	921.5
140°	717.8	763.2	805.5	840.8	863.0	877.1	885.1
142.5°	700.8	739.8	776.5	807.7	828.3	840.8	846.5
145°	677.5	707.7	736.0	761.1	778.3	788.4	793.5
147.5°	657.3	681.6	703.7	722.3	737.0	744.7	746.4
150°	645.2	665.4	683.6	699.6	712.8	718.8	719.8
152.5°	633.1	651.7	666.6	680.3	690.9	694.6	695.6
155°	616.0	631.1	643.2	653.3	661.4	664.4	664.4
157.5°	599.1	611.8	621.5	629.0	635.1	636.9	636.9
160°	587.7	598.8	606.9	613.0	619.0	620.1	620.1
162.5°	577.2	585.9	593.2	597.6	603.7	604.7	603.9
165°	561.6	568.6	573.6	577.6	581.7	580.7	579.7
167.5°	548.3	553.9	556.9	559.0	561.6	561.4	560.6
170°	539.4	543.4	546.4	548.5	549.5	548.5	548.5
172.5°	532.1	534.5	536.7	538.0	539.0	538.0	536.3
175°	522.2	524.2	524.2	524.2	526.2	524.2	522.2
177.5°	516.3	516.3	517.2	516.3	517.2	515.5	513.9
180°	513.1	513.1	513.1	513.1	513.1	513.1	513.1

(END OF REPORT)