

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: P332872-840

Luminaire Tested: **SA4XXRDIP-C350D590U840-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332872-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA4XXRDIP-C350D590U840-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 350 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 590 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

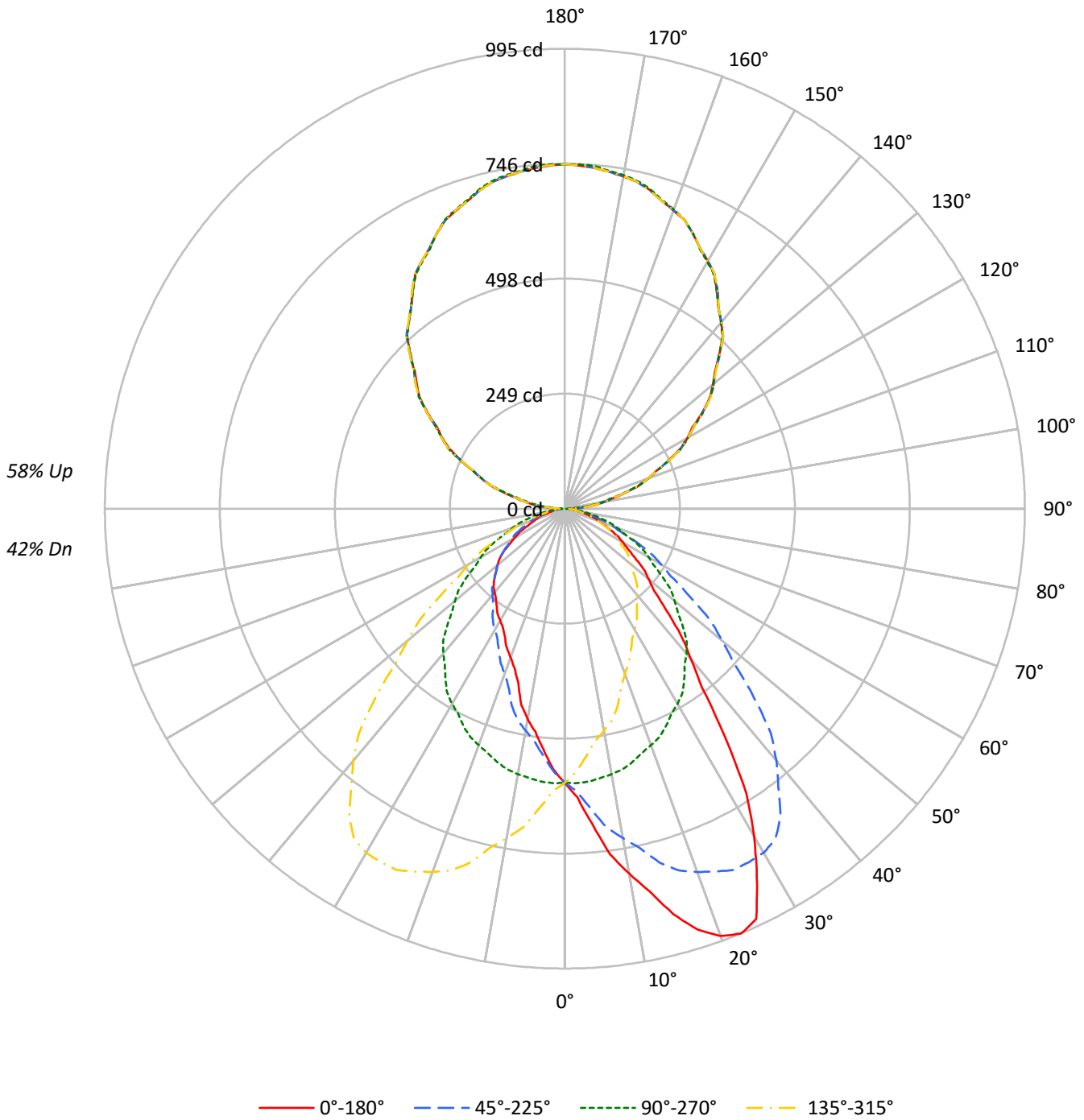
Lumens per Lamp: N/A
Luminaire Lumens: 3567.9 lumens
Efficiency: N/A
Efficacy: 139.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 25.6
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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49	42				
1	96	92	89	85	88	84	81	78	70	68	66	56	55	53	44	43	42	36				
2	88	81	75	70	80	74	69	65	62	58	55	50	47	45	39	37	36	31				
3	81	71	64	59	73	66	60	55	55	50	46	44	41	39	35	33	31	27				
4	74	63	56	50	67	58	52	47	49	44	40	40	36	33	31	29	27	23				
5	68	57	49	43	62	52	45	40	44	38	35	36	32	29	28	26	24	20				
6	63	51	43	37	57	47	40	35	39	34	30	32	29	26	26	23	21	18				
7	58	46	38	33	53	42	36	31	36	31	27	29	26	23	24	21	19	16				
8	54	42	34	29	49	39	32	27	33	27	24	27	23	20	22	19	17	14				
9	50	38	31	26	46	35	29	24	30	25	21	25	21	18	20	17	15	13				
10	47	35	28	23	43	32	26	22	28	23	19	23	19	16	19	16	14	12				

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	1.6
10°-20°	173.4	4.9
20°-30°	271.2	7.6
30°-40°	301.5	8.4
40°-50°	267.5	7.5
50°-60°	208.4	5.8
60°-70°	136.5	3.8
70°-80°	67.1	1.9
80°-90°	18.8	0.5
90°-100°	49.1	1.4
100°-110°	145.5	4.1
110°-120°	247.0	6.9
120°-130°	325.7	9.1
130°-140°	365.7	10.3
140°-150°	359.4	10.1
150°-160°	302.3	8.5
160°-170°	201.1	5.6
170°-180°	70.4	2.0
0°-30°	502.0	14.1
0°-40°	803.5	22.5
0°-60°	1279.4	35.9
0°-90°	1501.7	42.1
90°-120°	441.6	12.4
90°-150°	1492.4	41.8
90°-180°	2066.0	57.9
0°-180°	3567.9	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	2	17	2	17	9
95°	46	34	46	34	46	47
105°	141	134	141	134	141	148
115°	249	251	249	251	249	246
125°	363	366	363	366	363	324
135°	472	472	472	472	472	365
145°	574	573	574	573	574	359
155°	656	657	656	657	656	302
165°	713	715	713	715	713	201
175°	740	744	740	744	740	70
180°	745	745	745	745	745	



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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°	7.7	7.4	7.6	7.5	7.7	7.4	7.4	7.6	7.1	7.2	7.0
90°	17.3	17.1	16.8	16.6	16.3	15.8	14.9	14.2	13.4	12.6	11.6
92.5°	25.5	25.4	25.2	25.1	24.9	24.6	24.2	23.7	23.2	22.8	22.1
95°	45.5	45.5	45.5	45.5	45.5	45.3	44.9	44.5	44.1	43.7	42.9
97.5°	71.3	71.3	71.3	71.3	71.3	71.1	70.6	70.2	69.7	69.3	68.2
100°	89.3	89.3	89.3	89.3	89.3	89.2	88.9	88.7	88.4	88.2	86.9
102.5°	109.6	109.5	109.4	109.3	109.2	108.9	108.6	108.2	107.9	107.4	106.4
105°	140.6	140.2	139.8	139.4	139.0	138.7	138.3	137.8	137.4	137.0	136.5
107.5°	170.8	170.8	170.8	170.8	170.9	170.7	170.3	170.0	169.6	169.3	169.2
110°	192.4	192.0	191.6	191.3	190.9	190.8	191.1	191.3	191.6	191.8	192.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	214.5	214.4	214.3	214.3	214.2	214.2	214.2	214.3	214.3	214.4	214.6
115°	248.8	248.9	249.0	249.2	249.3	249.4	249.6	249.7	249.8	249.9	250.2
117.5°	281.6	281.8	282.1	282.3	282.6	282.9	283.4	283.8	284.2	284.7	284.8
120°	306.4	306.2	305.9	305.7	305.4	305.6	306.2	306.9	307.5	308.1	308.5
122.5°	327.2	327.6	328.1	328.5	329.0	329.4	329.9	330.3	330.7	331.2	331.3
125°	362.8	363.1	363.3	363.7	363.9	364.2	364.4	364.7	364.9	365.2	365.3
127.5°	396.0	396.2	396.4	396.6	396.8	397.0	397.3	397.5	397.8	398.0	398.2
130°	417.6	418.1	418.6	419.1	419.6	420.0	420.3	420.5	420.8	421.0	421.0
132.5°	440.6	440.8	441.0	441.2	441.4	441.7	441.9	442.2	442.4	442.7	442.8
135°	472.3	472.7	473.0	473.4	473.8	474.1	474.4	474.6	474.9	475.1	475.1
137.5°	505.6	505.5	505.4	505.3	505.2	505.4	505.7	506.0	506.4	506.8	506.5
140°	525.8	526.0	526.1	526.2	526.3	526.5	526.6	526.7	526.8	527.0	527.0
142.5°	546.1	546.1	546.2	546.2	546.2	546.2	546.3	546.3	546.3	546.3	546.4
145°	573.7	574.0	574.4	574.8	575.2	575.4	575.6	575.7	575.8	575.9	575.8
147.5°	601.6	601.7	601.8	602.0	602.1	602.2	602.3	602.4	602.5	602.6	602.7
150°	618.6	618.7	618.8	618.9	619.1	619.1	619.1	619.1	619.1	619.1	619.1
152.5°	634.3	634.6	634.9	635.3	635.6	635.6	635.3	635.0	634.7	634.4	634.3
155°	656.0	656.5	657.0	657.5	658.1	658.1	657.5	657.0	656.5	656.0	656.2
157.5°	675.5	675.9	676.4	676.8	677.2	677.3	676.9	676.5	676.1	675.7	675.8
160°	686.6	687.2	687.8	688.5	689.1	689.2	688.8	688.5	688.1	687.7	687.8
162.5°	698.1	698.7	699.3	700.0	700.6	700.6	699.9	699.2	698.5	697.8	698.0
165°	713.1	713.6	714.1	714.6	715.1	715.0	714.2	713.5	712.7	712.0	712.2
167.5°	723.8	724.6	725.4	726.2	726.9	727.0	726.2	725.4	724.7	723.9	723.9
170°	729.7	730.6	731.5	732.5	733.4	733.4	732.7	731.8	731.1	730.3	730.2
172.5°	734.9	735.7	736.6	737.5	738.4	738.4	737.6	736.7	735.8	735.0	734.9
175°	740.1	741.0	741.9	742.9	743.7	743.7	742.9	741.9	741.0	740.1	740.2
177.5°	742.9	743.7	744.6	745.4	746.2	746.2	745.5	744.8	744.1	743.4	743.4
180°	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8



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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°	6.7	6.4	6.5	6.3	6.2	6.7	7.0	6.9	6.6	6.3	6.0
90°	10.6	9.6	8.6	7.4	6.0	4.5	3.1	1.7	3.1	4.5	6.0
92.5°	21.4	20.7	19.9	18.8	17.2	15.6	13.9	12.3	13.9	15.6	17.2
95°	42.0	41.1	40.2	39.2	38.0	36.9	35.7	34.5	35.7	36.9	38.0
97.5°	67.2	66.0	65.0	64.0	63.1	62.2	61.3	60.4	61.3	62.2	63.1
100°	85.8	84.6	83.5	82.7	82.2	81.7	81.2	80.6	81.2	81.7	82.2
102.5°	105.3	104.3	103.3	102.6	102.4	102.2	102.0	101.8	102.0	102.2	102.4
105°	136.0	135.5	135.0	134.7	134.6	134.4	134.3	134.2	134.3	134.4	134.6
107.5°	169.1	169.0	169.0	168.8	168.6	168.4	168.3	168.1	168.3	168.4	168.6
110°	192.1	192.2	192.3	192.3	192.0	191.8	191.5	191.3	191.5	191.8	192.0



TEST NUMBER: P332872-840

CATALOG NUMBER: SA4XXRDIP-C350D590U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	214.8	215.1	215.3	215.4	215.3	215.3	215.2	215.2	215.2	215.3	215.3
115°	250.4	250.7	251.0	251.2	251.2	251.2	251.2	251.2	251.2	251.2	251.2
117.5°	285.0	285.2	285.4	285.4	285.3	285.2	285.1	285.0	285.1	285.2	285.3
120°	308.9	309.3	309.7	309.6	309.1	308.6	308.1	307.6	308.1	308.6	309.1
122.5°	331.5	331.7	331.9	331.8	331.6	331.4	331.2	331.0	331.2	331.4	331.6
125°	365.5	365.6	365.7	365.8	365.8	365.8	365.8	365.8	365.8	365.8	365.8
127.5°	398.4	398.6	398.8	398.7	398.4	398.0	397.6	397.2	397.6	398.0	398.4
130°	421.0	421.0	421.0	420.8	420.5	420.1	419.7	419.3	419.7	420.1	420.5
132.5°	442.9	443.0	443.1	443.0	442.7	442.4	442.2	441.9	442.2	442.4	442.7
135°	475.1	475.1	475.1	474.8	474.0	473.2	472.5	471.7	472.5	473.2	474.0
137.5°	506.3	506.1	505.9	505.6	505.2	504.9	504.5	504.2	504.5	504.9	505.2
140°	527.0	527.0	527.0	526.8	526.6	526.3	526.1	525.8	526.1	526.3	526.6
142.5°	546.5	546.6	546.7	546.7	546.4	546.2	545.9	545.6	545.9	546.2	546.4
145°	575.7	575.6	575.4	575.1	574.6	574.1	573.6	573.1	573.6	574.1	574.6
147.5°	602.8	602.9	603.0	602.8	602.1	601.5	600.9	600.3	600.9	601.5	602.1
150°	619.1	619.1	619.1	618.9	618.4	617.9	617.4	616.8	617.4	617.9	618.4
152.5°	634.2	634.1	634.0	633.8	633.5	633.2	632.9	632.6	632.9	633.2	633.5
155°	656.3	656.4	656.5	656.6	656.6	656.6	656.6	656.6	656.6	656.6	656.6
157.5°	675.8	675.8	675.8	676.0	676.2	676.4	676.6	676.9	676.6	676.4	676.2
160°	688.0	688.1	688.2	688.3	688.5	688.6	688.7	688.8	688.7	688.6	688.5
162.5°	698.1	698.2	698.3	698.6	698.9	699.2	699.6	699.9	699.6	699.2	698.9
165°	712.5	712.7	713.0	713.3	713.7	714.0	714.4	714.8	714.4	714.0	713.7
167.5°	723.9	723.8	723.8	724.1	724.6	725.1	725.7	726.2	725.7	725.1	724.6
170°	730.0	729.9	729.8	730.0	730.7	731.3	732.1	732.7	732.1	731.3	730.7
172.5°	734.9	734.9	734.9	735.1	735.7	736.2	736.7	737.2	736.7	736.2	735.7
175°	740.4	740.5	740.6	741.0	741.6	742.4	743.0	743.6	743.0	742.4	741.6
177.5°	743.4	743.4	743.4	743.6	744.2	744.7	745.2	745.7	745.2	744.7	744.2
180°	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8



TEST NUMBER: P332872-840

CATALOG NUMBER: SA4XXRDIP-C350D590U840-4F0-1E-UDD-A1

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°	6.3	6.3	6.5	6.4	6.8	7.0	6.9	7.1	7.4	7.2	7.3
90°	7.4	8.6	9.6	10.6	11.6	12.6	13.4	14.2	14.9	15.8	16.3
92.5°	18.8	19.9	20.7	21.4	22.1	22.8	23.2	23.7	24.2	24.6	24.9
95°	39.2	40.2	41.1	42.0	42.9	43.7	44.1	44.5	44.9	45.3	45.5
97.5°	64.0	65.0	66.0	67.2	68.2	69.3	69.7	70.2	70.6	71.1	71.3
100°	82.7	83.5	84.6	85.8	86.9	88.2	88.4	88.7	88.9	89.2	89.3
102.5°	102.6	103.3	104.3	105.3	106.4	107.4	107.9	108.2	108.6	108.9	109.2
105°	134.7	135.0	135.5	136.0	136.5	137.0	137.4	137.8	138.3	138.7	139.0
107.5°	168.8	169.0	169.0	169.1	169.2	169.3	169.6	170.0	170.3	170.7	170.9
110°	192.3	192.3	192.2	192.1	192.0	191.8	191.6	191.3	191.1	190.8	190.9



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	215.4	215.3	215.1	214.8	214.6	214.4	214.3	214.3	214.2	214.2	214.2
115°	251.2	251.0	250.7	250.4	250.2	249.9	249.8	249.7	249.6	249.4	249.3
117.5°	285.4	285.4	285.2	285.0	284.8	284.7	284.2	283.8	283.4	282.9	282.6
120°	309.6	309.7	309.3	308.9	308.5	308.1	307.5	306.9	306.2	305.6	305.4
122.5°	331.8	331.9	331.7	331.5	331.3	331.2	330.7	330.3	329.9	329.4	329.0
125°	365.8	365.7	365.6	365.5	365.3	365.2	364.9	364.7	364.4	364.2	363.9
127.5°	398.7	398.8	398.6	398.4	398.2	398.0	397.8	397.5	397.3	397.0	396.8
130°	420.8	421.0	421.0	421.0	421.0	421.0	420.8	420.5	420.3	420.0	419.6
132.5°	443.0	443.1	443.0	442.9	442.8	442.7	442.4	442.2	441.9	441.7	441.4
135°	474.8	475.1	475.1	475.1	475.1	475.1	474.9	474.6	474.4	474.1	473.8
137.5°	505.6	505.9	506.1	506.3	506.5	506.8	506.4	506.0	505.7	505.4	505.2
140°	526.8	527.0	527.0	527.0	527.0	527.0	526.8	526.7	526.6	526.5	526.3
142.5°	546.7	546.7	546.6	546.5	546.4	546.3	546.3	546.3	546.3	546.2	546.2
145°	575.1	575.4	575.6	575.7	575.8	575.9	575.8	575.7	575.6	575.4	575.2
147.5°	602.8	603.0	602.9	602.8	602.7	602.6	602.5	602.4	602.3	602.2	602.1
150°	618.9	619.1	619.1	619.1	619.1	619.1	619.1	619.1	619.1	619.1	619.1
152.5°	633.8	634.0	634.1	634.2	634.3	634.4	634.7	635.0	635.3	635.6	635.6
155°	656.6	656.5	656.4	656.3	656.2	656.0	656.5	657.0	657.5	658.1	658.1
157.5°	676.0	675.8	675.8	675.8	675.8	675.7	676.1	676.5	676.9	677.3	677.2
160°	688.3	688.2	688.1	688.0	687.8	687.7	688.1	688.5	688.8	689.2	689.1
162.5°	698.6	698.3	698.2	698.1	698.0	697.8	698.5	699.2	699.9	700.6	700.6
165°	713.3	713.0	712.7	712.5	712.2	712.0	712.7	713.5	714.2	715.0	715.1
167.5°	724.1	723.8	723.8	723.9	723.9	723.9	724.7	725.4	726.2	727.0	726.9
170°	730.0	729.8	729.9	730.0	730.2	730.3	731.1	731.8	732.7	733.4	733.4
172.5°	735.1	734.9	734.9	734.9	734.9	735.0	735.8	736.7	737.6	738.4	738.4
175°	741.0	740.6	740.5	740.4	740.2	740.1	741.0	741.9	742.9	743.7	743.7
177.5°	743.6	743.4	743.4	743.4	743.4	743.4	744.1	744.8	745.5	746.2	746.2
180°	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8



TEST NUMBER: P332872-840

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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	7.6	7.4	7.7	7.4	7.6	7.7	7.3	7.2	7.4	7.1
90°	16.6	16.8	17.1	17.3	17.1	16.8	16.6	16.3	15.8	14.9	14.2
92.5°	25.1	25.2	25.4	25.5	25.4	25.2	25.1	24.9	24.6	24.2	23.7
95°	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.3	44.9	44.5
97.5°	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.1	70.6	70.2
100°	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.2	88.9	88.7
102.5°	109.3	109.4	109.5	109.6	109.5	109.4	109.3	109.2	108.9	108.6	108.2
105°	139.4	139.8	140.2	140.6	140.2	139.8	139.4	139.0	138.7	138.3	137.8
107.5°	170.8	170.8	170.8	170.8	170.8	170.8	170.8	170.9	170.7	170.3	170.0
110°	191.3	191.6	192.0	192.4	192.0	191.6	191.3	190.9	190.8	191.1	191.3



TEST NUMBER: P332872-840

CATALOG NUMBER: SA4XXRDIP-C350D590U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	214.3	214.3	214.4	214.5	214.4	214.3	214.3	214.2	214.2	214.2	214.3
115°	249.2	249.0	248.9	248.8	248.9	249.0	249.2	249.3	249.4	249.6	249.7
117.5°	282.3	282.1	281.8	281.6	281.8	282.1	282.3	282.6	282.9	283.4	283.8
120°	305.7	305.9	306.2	306.4	306.2	305.9	305.7	305.4	305.6	306.2	306.9
122.5°	328.5	328.1	327.6	327.2	327.6	328.1	328.5	329.0	329.4	329.9	330.3
125°	363.7	363.3	363.1	362.8	363.1	363.3	363.7	363.9	364.2	364.4	364.7
127.5°	396.6	396.4	396.2	396.0	396.2	396.4	396.6	396.8	397.0	397.3	397.5
130°	419.1	418.6	418.1	417.6	418.1	418.6	419.1	419.6	420.0	420.3	420.5
132.5°	441.2	441.0	440.8	440.6	440.8	441.0	441.2	441.4	441.7	441.9	442.2
135°	473.4	473.0	472.7	472.3	472.7	473.0	473.4	473.8	474.1	474.4	474.6
137.5°	505.3	505.4	505.5	505.6	505.5	505.4	505.3	505.2	505.4	505.7	506.0
140°	526.2	526.1	526.0	525.8	526.0	526.1	526.2	526.3	526.5	526.6	526.7
142.5°	546.2	546.2	546.1	546.1	546.1	546.2	546.2	546.2	546.2	546.3	546.3
145°	574.8	574.4	574.0	573.7	574.0	574.4	574.8	575.2	575.4	575.6	575.7
147.5°	602.0	601.8	601.7	601.6	601.7	601.8	602.0	602.1	602.2	602.3	602.4
150°	618.9	618.8	618.7	618.6	618.7	618.8	618.9	619.1	619.1	619.1	619.1
152.5°	635.3	634.9	634.6	634.3	634.6	634.9	635.3	635.6	635.6	635.3	635.0
155°	657.5	657.0	656.5	656.0	656.5	657.0	657.5	658.1	658.1	657.5	657.0
157.5°	676.8	676.4	675.9	675.5	675.9	676.4	676.8	677.2	677.3	676.9	676.5
160°	688.5	687.8	687.2	686.6	687.2	687.8	688.5	689.1	689.2	688.8	688.5
162.5°	700.0	699.3	698.7	698.1	698.7	699.3	700.0	700.6	700.6	699.9	699.2
165°	714.6	714.1	713.6	713.1	713.6	714.1	714.6	715.1	715.0	714.2	713.5
167.5°	726.2	725.4	724.6	723.8	724.6	725.4	726.2	726.9	727.0	726.2	725.4
170°	732.5	731.5	730.6	729.7	730.6	731.5	732.5	733.4	733.4	732.7	731.8
172.5°	737.5	736.6	735.7	734.9	735.7	736.6	737.5	738.4	738.4	737.6	736.7
175°	742.9	741.9	741.0	740.1	741.0	741.9	742.9	743.7	743.7	742.9	741.9
177.5°	745.4	744.6	743.7	742.9	743.7	744.6	745.4	746.2	746.2	745.5	744.8
180°	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8



TEST NUMBER: P332872-840

CATALOG NUMBER: SA4XXRDIP-C350D590U840-4F0-1E-UDD-A1

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	7.0	6.8	6.4	6.5	6.3	6.3	6.0	6.3	6.6	6.9
90°	13.4	12.6	11.6	10.6	9.6	8.6	7.4	6.0	4.5	3.1	1.7
92.5°	23.2	22.8	22.1	21.4	20.7	19.9	18.8	17.2	15.6	13.9	12.3
95°	44.1	43.7	42.9	42.0	41.1	40.2	39.2	38.0	36.9	35.7	34.5
97.5°	69.7	69.3	68.2	67.2	66.0	65.0	64.0	63.1	62.2	61.3	60.4
100°	88.4	88.2	86.9	85.8	84.6	83.5	82.7	82.2	81.7	81.2	80.6
102.5°	107.9	107.4	106.4	105.3	104.3	103.3	102.6	102.4	102.2	102.0	101.8
105°	137.4	137.0	136.5	136.0	135.5	135.0	134.7	134.6	134.4	134.3	134.2
107.5°	169.6	169.3	169.2	169.1	169.0	169.0	168.8	168.6	168.4	168.3	168.1
110°	191.6	191.8	192.0	192.1	192.2	192.3	192.3	192.0	191.8	191.5	191.3



TEST NUMBER: P332872-840

CATALOG NUMBER: SA4XXRDIP-C350D590U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	214.3	214.4	214.6	214.8	215.1	215.3	215.4	215.3	215.3	215.2	215.2
115°	249.8	249.9	250.2	250.4	250.7	251.0	251.2	251.2	251.2	251.2	251.2
117.5°	284.2	284.7	284.8	285.0	285.2	285.4	285.4	285.3	285.2	285.1	285.0
120°	307.5	308.1	308.5	308.9	309.3	309.7	309.6	309.1	308.6	308.1	307.6
122.5°	330.7	331.2	331.3	331.5	331.7	331.9	331.8	331.6	331.4	331.2	331.0
125°	364.9	365.2	365.3	365.5	365.6	365.7	365.8	365.8	365.8	365.8	365.8
127.5°	397.8	398.0	398.2	398.4	398.6	398.8	398.7	398.4	398.0	397.6	397.2
130°	420.8	421.0	421.0	421.0	421.0	421.0	420.8	420.5	420.1	419.7	419.3
132.5°	442.4	442.7	442.8	442.9	443.0	443.1	443.0	442.7	442.4	442.2	441.9
135°	474.9	475.1	475.1	475.1	475.1	475.1	474.8	474.0	473.2	472.5	471.7
137.5°	506.4	506.8	506.5	506.3	506.1	505.9	505.6	505.2	504.9	504.5	504.2
140°	526.8	527.0	527.0	527.0	527.0	527.0	526.8	526.6	526.3	526.1	525.8
142.5°	546.3	546.3	546.4	546.5	546.6	546.7	546.7	546.4	546.2	545.9	545.6
145°	575.8	575.9	575.8	575.7	575.6	575.4	575.1	574.6	574.1	573.6	573.1
147.5°	602.5	602.6	602.7	602.8	602.9	603.0	602.8	602.1	601.5	600.9	600.3
150°	619.1	619.1	619.1	619.1	619.1	619.1	618.9	618.4	617.9	617.4	616.8
152.5°	634.7	634.4	634.3	634.2	634.1	634.0	633.8	633.5	633.2	632.9	632.6
155°	656.5	656.0	656.2	656.3	656.4	656.5	656.6	656.6	656.6	656.6	656.6
157.5°	676.1	675.7	675.8	675.8	675.8	675.8	676.0	676.2	676.4	676.6	676.9
160°	688.1	687.7	687.8	688.0	688.1	688.2	688.3	688.5	688.6	688.7	688.8
162.5°	698.5	697.8	698.0	698.1	698.2	698.3	698.6	698.9	699.2	699.6	699.9
165°	712.7	712.0	712.2	712.5	712.7	713.0	713.3	713.7	714.0	714.4	714.8
167.5°	724.7	723.9	723.9	723.9	723.8	723.8	724.1	724.6	725.1	725.7	726.2
170°	731.1	730.3	730.2	730.0	729.9	729.8	730.0	730.7	731.3	732.1	732.7
172.5°	735.8	735.0	734.9	734.9	734.9	734.9	735.1	735.7	736.2	736.7	737.2
175°	741.0	740.1	740.2	740.4	740.5	740.6	741.0	741.6	742.4	743.0	743.6
177.5°	744.1	743.4	743.4	743.4	743.4	743.4	743.6	744.2	744.7	745.2	745.7
180°	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8



TEST NUMBER: P332872-840

CATALOG NUMBER: SA4XXRDIP-C350D590U840-4F0-1E-UDD-A1

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°	7.0	6.7	6.2	6.3	6.5	6.4	6.7	7.0	7.2	7.1	7.6
90°	3.1	4.5	6.0	7.4	8.6	9.6	10.6	11.6	12.6	13.4	14.2
92.5°	13.9	15.6	17.2	18.8	19.9	20.7	21.4	22.1	22.8	23.2	23.7
95°	35.7	36.9	38.0	39.2	40.2	41.1	42.0	42.9	43.7	44.1	44.5
97.5°	61.3	62.2	63.1	64.0	65.0	66.0	67.2	68.2	69.3	69.7	70.2
100°	81.2	81.7	82.2	82.7	83.5	84.6	85.8	86.9	88.2	88.4	88.7
102.5°	102.0	102.2	102.4	102.6	103.3	104.3	105.3	106.4	107.4	107.9	108.2
105°	134.3	134.4	134.6	134.7	135.0	135.5	136.0	136.5	137.0	137.4	137.8
107.5°	168.3	168.4	168.6	168.8	169.0	169.0	169.1	169.2	169.3	169.6	170.0
110°	191.5	191.8	192.0	192.3	192.3	192.2	192.1	192.0	191.8	191.6	191.3



TEST NUMBER: P332872-840

CATALOG NUMBER: SA4XXRDIP-C350D590U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	215.2	215.3	215.3	215.4	215.3	215.1	214.8	214.6	214.4	214.3	214.3
115°	251.2	251.2	251.2	251.2	251.0	250.7	250.4	250.2	249.9	249.8	249.7
117.5°	285.1	285.2	285.3	285.4	285.4	285.2	285.0	284.8	284.7	284.2	283.8
120°	308.1	308.6	309.1	309.6	309.7	309.3	308.9	308.5	308.1	307.5	306.9
122.5°	331.2	331.4	331.6	331.8	331.9	331.7	331.5	331.3	331.2	330.7	330.3
125°	365.8	365.8	365.8	365.8	365.7	365.6	365.5	365.3	365.2	364.9	364.7
127.5°	397.6	398.0	398.4	398.7	398.8	398.6	398.4	398.2	398.0	397.8	397.5
130°	419.7	420.1	420.5	420.8	421.0	421.0	421.0	421.0	421.0	420.8	420.5
132.5°	442.2	442.4	442.7	443.0	443.1	443.0	442.9	442.8	442.7	442.4	442.2
135°	472.5	473.2	474.0	474.8	475.1	475.1	475.1	475.1	475.1	474.9	474.6
137.5°	504.5	504.9	505.2	505.6	505.9	506.1	506.3	506.5	506.8	506.4	506.0
140°	526.1	526.3	526.6	526.8	527.0	527.0	527.0	527.0	527.0	526.8	526.7
142.5°	545.9	546.2	546.4	546.7	546.7	546.6	546.5	546.4	546.3	546.3	546.3
145°	573.6	574.1	574.6	575.1	575.4	575.6	575.7	575.8	575.9	575.8	575.7
147.5°	600.9	601.5	602.1	602.8	603.0	602.9	602.8	602.7	602.6	602.5	602.4
150°	617.4	617.9	618.4	618.9	619.1	619.1	619.1	619.1	619.1	619.1	619.1
152.5°	632.9	633.2	633.5	633.8	634.0	634.1	634.2	634.3	634.4	634.7	635.0
155°	656.6	656.6	656.6	656.6	656.5	656.4	656.3	656.2	656.0	656.5	657.0
157.5°	676.6	676.4	676.2	676.0	675.8	675.8	675.8	675.8	675.7	676.1	676.5
160°	688.7	688.6	688.5	688.3	688.2	688.1	688.0	687.8	687.7	688.1	688.5
162.5°	699.6	699.2	698.9	698.6	698.3	698.2	698.1	698.0	697.8	698.5	699.2
165°	714.4	714.0	713.7	713.3	713.0	712.7	712.5	712.2	712.0	712.7	713.5
167.5°	725.7	725.1	724.6	724.1	723.8	723.8	723.9	723.9	723.9	724.7	725.4
170°	732.1	731.3	730.7	730.0	729.8	729.9	730.0	730.2	730.3	731.1	731.8
172.5°	736.7	736.2	735.7	735.1	734.9	734.9	734.9	734.9	735.0	735.8	736.7
175°	743.0	742.4	741.6	741.0	740.6	740.5	740.4	740.2	740.1	741.0	741.9
177.5°	745.2	744.7	744.2	743.6	743.4	743.4	743.4	743.4	743.4	744.1	744.8
180°	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8



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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°	7.4	7.4	7.7	7.5	7.6	7.4	7.7
90°	14.9	15.8	16.3	16.6	16.8	17.1	17.3
92.5°	24.2	24.6	24.9	25.1	25.2	25.4	25.5
95°	44.9	45.3	45.5	45.5	45.5	45.5	45.5
97.5°	70.6	71.1	71.3	71.3	71.3	71.3	71.3
100°	88.9	89.2	89.3	89.3	89.3	89.3	89.3
102.5°	108.6	108.9	109.2	109.3	109.4	109.5	109.6
105°	138.3	138.7	139.0	139.4	139.8	140.2	140.6
107.5°	170.3	170.7	170.9	170.8	170.8	170.8	170.8
110°	191.1	190.8	190.9	191.3	191.6	192.0	192.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	214.2	214.2	214.2	214.3	214.3	214.4	214.5
115°	249.6	249.4	249.3	249.2	249.0	248.9	248.8
117.5°	283.4	282.9	282.6	282.3	282.1	281.8	281.6
120°	306.2	305.6	305.4	305.7	305.9	306.2	306.4
122.5°	329.9	329.4	329.0	328.5	328.1	327.6	327.2
125°	364.4	364.2	363.9	363.7	363.3	363.1	362.8
127.5°	397.3	397.0	396.8	396.6	396.4	396.2	396.0
130°	420.3	420.0	419.6	419.1	418.6	418.1	417.6
132.5°	441.9	441.7	441.4	441.2	441.0	440.8	440.6
135°	474.4	474.1	473.8	473.4	473.0	472.7	472.3
137.5°	505.7	505.4	505.2	505.3	505.4	505.5	505.6
140°	526.6	526.5	526.3	526.2	526.1	526.0	525.8
142.5°	546.3	546.2	546.2	546.2	546.2	546.1	546.1
145°	575.6	575.4	575.2	574.8	574.4	574.0	573.7
147.5°	602.3	602.2	602.1	602.0	601.8	601.7	601.6
150°	619.1	619.1	619.1	618.9	618.8	618.7	618.6
152.5°	635.3	635.6	635.6	635.3	634.9	634.6	634.3
155°	657.5	658.1	658.1	657.5	657.0	656.5	656.0
157.5°	676.9	677.3	677.2	676.8	676.4	675.9	675.5
160°	688.8	689.2	689.1	688.5	687.8	687.2	686.6
162.5°	699.9	700.6	700.6	700.0	699.3	698.7	698.1
165°	714.2	715.0	715.1	714.6	714.1	713.6	713.1
167.5°	726.2	727.0	726.9	726.2	725.4	724.6	723.8
170°	732.7	733.4	733.4	732.5	731.5	730.6	729.7
172.5°	737.6	738.4	738.4	737.5	736.6	735.7	734.9
175°	742.9	743.7	743.7	742.9	741.9	741.0	740.1
177.5°	745.5	746.2	746.2	745.4	744.6	743.7	742.9
180°	744.8	744.8	744.8	744.8	744.8	744.8	744.8

(END OF REPORT)