

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: P332873-935

Luminaire Tested: **SA4XXRDIP-C350D590U935-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332873-935
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-C350D590U935-4F0-1E-UDD-A4
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 350 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 590 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

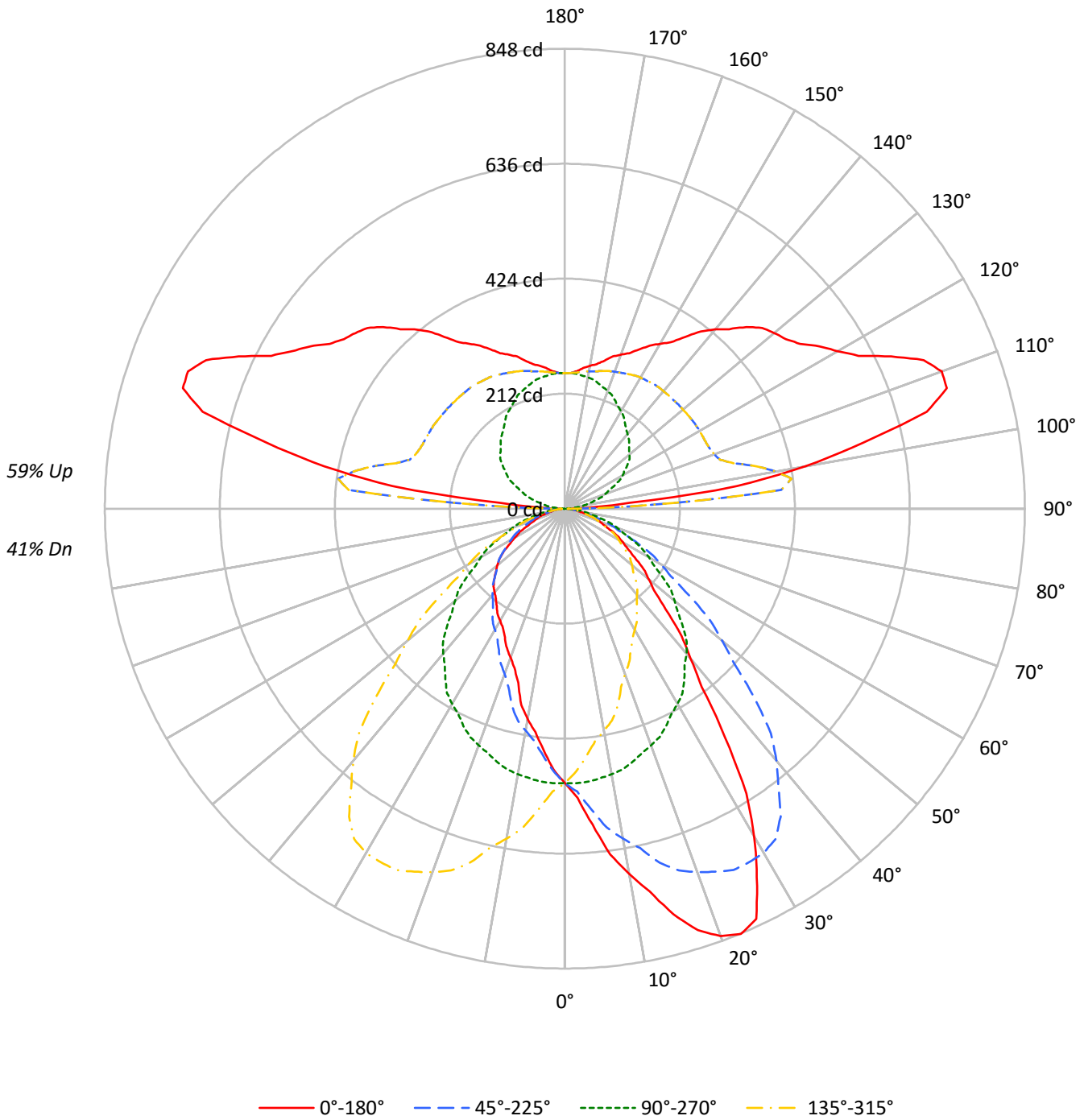
Lumens per Lamp: N/A
Luminaire Lumens: 3098.0 lumens
Efficiency: N/A
Efficacy: 121.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

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	48	48	48	41				
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	36				
2	88	81	75	70	80	74	69	65	61	58	55	49	47	45	38	37	35	30				
3	80	71	64	59	73	65	59	54	54	50	46	44	41	38	34	32	31	26				
4	74	63	56	50	67	58	52	46	48	43	40	39	36	33	31	29	27	23				
5	68	56	49	43	62	52	45	40	43	38	34	35	32	29	28	25	23	20				
6	62	51	43	37	57	47	40	35	39	34	30	32	28	25	25	23	21	18				
7	58	46	38	33	53	42	35	31	36	30	27	29	25	22	23	21	18	16				
8	54	42	34	29	49	38	32	27	32	27	24	27	23	20	21	19	17	14				
9	50	38	31	26	45	35	29	24	30	25	21	25	21	18	20	17	15	13				
10	47	35	28	23	43	32	26	22	27	22	19	23	19	16	18	16	14	12				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4083	4083	4083	4083
5°	4736	4095	3620	4095
10°	5603	4077	3231	4077
15°	6471	4040	2776	4040
20°	7205	3988	2510	3988
25°	7439	3937	2331	3937
30°	6511	3875	2222	3875
35°	5069	3783	2157	3783
40°	3801	3678	2121	3678
45°	3001	3511	2103	3511
50°	2533	3317	2042	3317
55°	2208	3103	1932	3103
60°	1986	2882	1711	2882
65°	1752	2644	1473	2644
70°	1577	2396	1327	2396
75°	1323	2121	1129	2121
80°	1116	1808	1060	1808
85°	945	1417	945	1417



TEST NUMBER: P332873-935

CATALOG NUMBER: SA4XXRDIP-C350D590U935-4F0-1E-UDD-A4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.0	1.6
10°-20°	147.8	4.8
20°-30°	231.2	7.5
30°-40°	257.0	8.3
40°-50°	228.0	7.4
50°-60°	177.7	5.7
60°-70°	116.3	3.8
70°-80°	57.2	1.8
80°-90°	15.5	0.5
90°-100°	180.6	5.8
100°-110°	375.8	12.1
110°-120°	336.6	10.9
120°-130°	283.1	9.1
130°-140°	236.1	7.6
140°-150°	180.4	5.8
150°-160°	126.8	4.1
160°-170°	74.6	2.4
170°-180°	24.3	0.8
0°-30°	428.0	13.8
0°-40°	685.0	22.1
0°-60°	1090.8	35.2
0°-90°	1279.8	41.3
90°-120°	893.0	28.8
90°-150°	1592.6	51.4
90°-180°	1818.0	58.7
0°-180°	3098.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	506	506	506	506	506	
5°	584	505	447	505	584	59
15°	774	483	332	483	774	220
25°	835	442	262	442	835	370
35°	514	384	219	384	514	322
45°	263	308	184	308	263	208
55°	157	220	137	220	157	143
65°	92	138	77	138	92	92
75°	42	68	36	68	42	47
85°	10	15	10	15	10	12
90°	10	0	10	0	10	9
95°	120	16	120	16	120	186
105°	691	57	691	57	691	683
115°	664	101	664	101	664	659
125°	529	141	529	141	529	481
135°	474	168	474	168	474	365
145°	386	193	386	193	386	245
155°	324	220	324	220	324	151
165°	282	239	282	239	282	81
175°	254	250	254	250	254	25
180°	250	250	250	250	250	



TEST NUMBER: P332873-935

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8
2.5°	533.5	534.9	533.5	533.3	531.7	531.2	530.5	528.4	524.5	522.2	522.7
5°	584.4	589.5	586.7	586.3	581.8	577.3	574.5	567.9	560.9	556.3	552.4
7.5°	643.3	646.3	644.5	641.6	634.4	630.3	623.6	615.1	602.6	593.1	584.4
10°	683.5	685.9	685.1	679.8	674.5	663.7	657.5	645.6	629.8	617.4	605.8
12.5°	722.9	725.5	718.3	718.6	708.5	700.0	690.3	675.2	657.1	641.1	626.5
15°	774.3	771.0	771.0	767.0	755.8	744.0	734.0	718.1	695.3	676.1	655.9
17.5°	814.6	815.7	814.1	804.4	795.7	783.4	765.1	746.6	725.4	699.6	679.1
20°	838.7	838.7	836.9	830.3	819.0	805.9	786.2	765.9	739.1	713.2	690.0
22.5°	848.5	849.1	847.0	841.6	831.4	818.6	801.8	781.3	753.5	724.4	695.7
25°	835.1	839.0	839.3	837.9	834.8	827.1	812.6	791.7	766.8	735.2	704.2
27.5°	766.6	771.5	775.8	782.9	792.3	797.1	797.8	787.1	765.4	735.0	703.9
30°	698.5	702.6	715.8	733.1	746.6	758.8	769.5	772.3	760.1	732.8	700.0
32.5°	622.8	628.4	641.7	660.3	682.7	703.4	727.2	739.3	739.0	722.6	692.3
35°	514.3	518.4	530.6	550.2	577.0	607.9	645.6	674.9	694.8	693.4	674.9
37.5°	414.8	419.4	431.7	448.0	474.1	512.1	548.6	589.1	625.9	646.7	640.5
40°	360.7	360.8	372.9	389.6	414.1	447.3	487.0	531.8	573.0	606.7	613.1
42.5°	318.0	318.0	326.0	344.0	361.5	392.8	430.8	475.3	523.5	562.3	579.5
45°	262.9	264.7	271.2	282.0	295.8	322.4	352.8	394.1	448.1	494.1	522.9
47.5°	222.6	225.3	229.5	238.2	249.3	266.9	292.1	329.2	373.2	423.8	464.7
50°	201.7	202.2	207.4	212.3	221.9	236.0	258.0	289.0	329.3	378.0	423.4
52.5°	183.8	183.7	186.9	193.1	200.9	211.8	229.6	257.8	293.6	337.3	384.2
55°	156.9	157.9	160.4	165.2	171.2	178.9	193.0	214.1	242.3	279.6	322.2
57.5°	136.5	137.0	138.9	140.9	146.4	152.1	162.6	177.3	201.0	231.5	271.2
60°	123.0	123.3	123.9	126.9	131.2	136.6	143.7	156.1	176.1	204.0	235.4
62.5°	110.0	110.4	111.3	113.6	116.9	120.5	128.0	138.0	154.5	178.4	206.6
65°	91.7	91.9	93.3	94.1	96.8	100.0	105.6	112.3	123.7	143.7	165.1
67.5°	76.6	76.6	76.7	77.8	79.6	81.8	85.1	90.5	99.1	111.3	130.2
70°	66.8	66.8	67.2	67.8	68.9	70.7	72.6	76.6	82.9	92.9	107.4
72.5°	57.7	57.9	58.3	58.4	58.9	60.4	61.8	64.4	69.1	76.6	88.3
75°	42.4	43.0	44.0	44.9	45.9	45.6	47.1	48.7	50.1	54.6	61.3
77.5°	31.5	31.3	31.3	32.0	32.1	32.4	33.4	34.6	35.7	37.8	40.2
80°	24.0	24.0	24.6	24.9	24.6	24.9	25.9	26.5	26.9	27.7	30.0
82.5°	18.2	18.5	18.3	18.5	18.6	18.9	19.7	19.8	20.2	20.6	21.4
85°	10.2	10.4	10.6	10.2	10.2	10.2	10.6	10.8	11.2	11.0	11.5
87.5°	5.7	5.5	5.8	5.7	5.7	5.5	5.6	5.9	5.4	5.7	5.5
90°	10.3	10.3	10.8	10.3	9.8	9.8	9.3	8.9	8.4	8.9	7.8
92.5°	37.8	37.8	39.5	42.1	48.0	57.8	72.6	96.4	129.8	155.8	136.4
95°	119.9	126.2	135.1	150.3	174.4	222.0	287.8	363.9	411.6	400.3	302.0
97.5°	320.3	330.5	345.3	374.9	410.1	461.4	509.5	537.7	517.1	421.6	282.8
100°	450.4	454.3	469.1	499.0	541.7	578.1	602.2	592.4	520.6	394.9	256.4
102.5°	563.5	566.7	582.2	603.9	630.2	645.3	638.3	589.6	491.1	361.5	238.7
105°	691.0	694.0	700.9	704.8	703.9	683.7	635.1	550.1	437.6	322.2	223.5
107.5°	738.4	737.1	732.2	721.0	696.7	653.0	584.4	494.0	394.4	300.2	220.8
110°	739.2	734.8	725.9	705.3	670.5	616.4	545.2	460.2	372.8	292.7	221.5



TEST NUMBER: P332873-935

CATALOG NUMBER: SA4XXRDIP-C350D590U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	716.0	708.9	696.5	671.5	631.9	577.9	510.6	435.5	360.6	289.2	223.9
115°	663.6	659.6	643.9	614.4	575.7	528.5	471.1	410.6	349.2	287.3	228.4
117.5°	610.4	607.3	591.4	566.7	533.6	493.6	448.4	398.4	344.1	286.8	233.2
120°	580.6	575.1	562.4	540.8	512.7	477.9	438.6	393.0	341.4	286.8	236.8
122.5°	557.0	551.6	540.8	522.3	498.6	468.0	432.3	388.2	338.2	286.5	240.3
125°	529.4	526.5	517.2	502.9	483.3	456.2	422.4	380.1	333.0	285.9	245.6
127.5°	513.3	510.4	502.6	489.9	470.1	444.5	410.7	370.3	326.1	284.7	249.8
130°	503.9	501.0	493.1	480.9	460.7	434.6	401.3	362.5	321.7	284.4	253.0
132.5°	493.4	490.3	482.9	469.1	449.3	423.3	390.6	354.2	317.8	284.0	255.7
135°	473.5	470.5	462.7	448.9	429.3	404.7	374.8	342.9	311.9	283.4	259.8
137.5°	448.9	445.4	438.9	425.3	407.0	384.8	359.6	332.5	306.8	283.3	262.3
140°	431.3	427.3	420.4	409.7	392.4	371.8	349.7	326.6	304.0	282.9	264.2
142.5°	412.3	409.7	403.6	393.5	378.3	360.4	341.5	321.2	301.7	282.9	265.8
145°	386.5	384.1	379.2	370.8	358.5	344.8	330.0	313.3	297.6	281.9	266.7
147.5°	363.7	362.7	359.0	351.9	342.9	332.0	320.2	306.9	294.0	280.2	267.2
150°	350.7	350.2	347.2	340.9	333.0	324.2	314.4	303.1	291.3	279.0	267.2
152.5°	338.9	338.4	336.7	331.4	324.8	317.5	308.4	298.7	288.1	277.0	266.4
155°	323.6	323.6	322.2	318.3	313.3	307.5	300.1	292.2	283.4	274.1	265.2
157.5°	310.3	310.3	309.4	306.5	302.7	298.0	291.9	285.2	278.6	271.0	264.0
160°	302.0	302.0	301.6	298.6	295.7	291.7	286.4	280.9	275.1	268.6	262.8
162.5°	294.2	294.6	294.1	291.2	289.0	285.4	281.2	276.6	271.9	266.3	261.6
165°	282.4	282.9	283.4	281.5	279.5	277.0	273.5	270.6	266.7	262.8	259.3
167.5°	273.1	273.5	273.5	272.3	271.3	269.8	267.1	264.8	262.0	259.2	257.0
170°	267.2	267.2	267.7	267.2	266.2	264.8	262.8	261.3	258.8	256.8	255.4
172.5°	261.3	262.1	262.6	262.1	261.5	260.5	259.2	258.1	256.1	254.5	253.8
175°	254.4	255.4	256.4	255.4	255.4	255.4	254.4	253.9	253.0	251.9	251.9
177.5°	250.4	251.2	251.9	251.6	251.9	251.6	251.6	251.2	250.8	250.4	250.4
180°	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0



TEST NUMBER: P332873-935

CATALOG NUMBER: SA4XXRDIP-C350D590U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8
2.5°	521.1	518.8	517.6	515.1	512.0	510.3	508.9	506.7	503.9	501.0	498.9
5°	547.5	542.6	536.5	529.2	522.7	516.3	510.8	505.3	499.0	492.5	486.0
7.5°	574.6	565.1	554.7	542.6	531.0	520.3	510.5	501.2	490.6	481.0	472.4
10°	593.6	580.6	566.1	550.8	535.5	522.3	509.2	497.4	484.4	472.8	463.0
12.5°	608.9	593.6	576.2	557.2	538.7	522.7	507.7	492.3	477.5	464.9	451.9
15°	634.3	613.4	590.0	567.1	543.3	521.4	501.3	483.4	466.4	448.7	436.3
17.5°	651.9	626.9	598.4	571.0	542.9	517.1	493.9	472.5	453.0	434.9	420.1
20°	662.3	634.7	603.1	572.0	540.4	512.9	487.8	464.2	444.0	424.5	409.1
22.5°	668.1	637.7	603.1	570.5	537.8	508.0	480.5	455.9	433.9	414.3	397.4
25°	670.0	637.4	602.2	564.6	528.8	497.2	468.6	442.0	417.5	398.0	380.0
27.5°	667.4	629.0	592.9	554.4	517.4	484.1	454.2	426.1	401.7	380.6	362.2
30°	663.5	622.3	583.6	543.6	506.2	474.2	442.6	415.7	390.2	368.4	349.9
32.5°	655.0	614.2	572.5	531.6	493.6	460.6	430.7	403.6	378.7	356.4	336.7
35°	638.2	596.8	551.6	509.6	472.3	438.1	410.0	383.9	360.1	336.2	315.5
37.5°	616.0	573.9	528.8	482.8	445.5	413.2	387.4	362.9	339.7	317.9	294.9
40°	595.2	556.7	510.2	464.6	426.3	395.1	371.3	349.0	325.6	304.0	281.0
42.5°	570.0	537.2	490.2	444.4	406.6	376.5	354.3	332.6	311.3	290.3	266.3
45°	527.8	502.9	458.9	414.9	376.8	347.0	326.7	307.5	288.8	268.8	246.2
47.5°	479.4	462.6	424.6	379.5	344.3	317.5	297.8	282.1	266.3	246.3	226.5
50°	445.8	435.1	398.4	357.2	323.6	298.9	278.8	264.1	250.8	231.7	214.0
52.5°	410.0	404.2	373.2	333.9	301.4	277.2	260.0	246.8	233.4	217.5	201.0
55°	355.3	358.4	332.2	298.1	267.5	247.2	231.5	220.5	209.1	195.6	182.8
57.5°	299.5	310.7	293.1	263.2	234.5	215.7	203.9	194.7	185.0	173.9	162.9
60°	266.1	275.5	265.5	239.2	214.1	196.7	185.6	178.5	168.9	158.8	150.4
62.5°	233.5	243.6	237.6	216.4	193.1	178.1	168.3	161.7	154.5	145.7	137.0
65°	192.6	199.1	196.2	181.6	165.1	152.2	143.3	138.4	131.8	125.4	117.6
67.5°	147.5	160.1	158.4	150.6	136.4	126.3	120.5	116.1	110.2	105.4	100.1
70°	121.2	132.9	132.7	126.3	118.6	109.3	105.1	101.5	96.2	91.5	87.2
72.5°	99.3	109.9	111.5	106.6	101.3	94.2	90.3	87.8	82.7	79.5	75.9
75°	69.5	77.2	79.3	79.3	76.8	73.2	69.7	68.0	64.4	61.6	59.5
77.5°	45.5	50.5	53.6	54.3	54.8	53.5	50.6	49.5	46.7	45.7	43.7
80°	32.2	35.5	39.1	40.4	41.3	41.0	39.8	38.9	36.2	35.2	34.4
82.5°	22.2	24.0	27.0	29.8	29.4	30.6	29.4	28.8	26.8	26.4	25.7
85°	11.6	11.8	12.2	14.0	15.1	15.5	15.7	15.3	14.6	14.6	13.3
87.5°	5.3	5.2	4.8	4.8	4.9	5.5	5.7	5.7	5.3	5.2	4.7
90°	6.9	6.9	4.0	4.0	3.4	2.9	1.5	0.5	1.5	2.9	3.4
92.5°	99.2	61.1	36.2	25.9	18.8	12.7	8.2	5.6	8.2	12.7	18.8
95°	184.7	104.1	61.4	40.7	29.0	22.6	17.7	16.2	17.7	22.6	29.0
97.5°	166.0	99.5	66.6	49.3	39.2	33.3	29.1	29.1	29.1	33.3	39.2
100°	156.2	100.7	71.7	56.0	46.7	40.7	37.4	37.4	37.4	40.7	46.7
102.5°	153.4	104.6	78.4	63.5	54.5	49.0	46.0	45.2	46.0	49.0	54.5
105°	154.7	113.9	90.4	76.1	67.3	61.4	59.0	57.4	59.0	61.4	67.3
107.5°	162.0	124.8	103.2	89.2	80.8	74.5	72.0	71.0	72.0	74.5	80.8
110°	167.5	133.1	111.5	98.2	89.4	83.5	81.0	80.1	81.0	83.5	89.4



TEST NUMBER: P332873-935

CATALOG NUMBER: SA4XXRDIP-C350D590U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	173.4	140.9	120.1	106.9	98.1	92.6	89.7	88.7	89.7	92.6	98.1
115°	182.7	153.3	133.6	120.4	111.0	106.1	102.6	101.2	102.6	106.1	111.0
117.5°	192.3	165.1	146.5	132.7	124.0	118.6	115.5	114.2	115.5	118.6	124.0
120°	198.9	173.4	154.7	140.9	132.6	127.2	123.8	122.8	123.8	127.2	132.6
122.5°	205.2	181.2	162.6	149.2	140.1	135.1	131.6	130.6	131.6	135.1	140.1
125°	214.6	192.0	174.4	160.6	151.3	145.9	142.9	140.9	142.9	145.9	151.3
127.5°	222.8	202.1	184.9	171.1	161.4	155.2	151.7	150.1	151.7	155.2	161.4
130°	227.9	208.7	192.0	177.8	168.5	161.1	157.1	155.2	157.1	161.1	168.5
132.5°	233.0	214.2	197.5	184.1	174.0	167.0	161.9	160.3	161.9	167.0	174.0
135°	239.7	222.0	205.8	193.0	182.7	174.4	169.4	167.5	169.4	174.4	182.7
137.5°	244.4	227.9	212.8	200.6	189.9	181.9	176.5	174.7	176.5	181.9	189.9
140°	247.5	231.9	217.1	205.3	195.0	186.7	181.2	179.8	181.2	186.7	195.0
142.5°	249.9	235.4	221.0	209.7	199.7	191.7	186.8	185.3	186.8	191.7	199.7
145°	252.4	239.2	226.4	215.6	206.3	199.4	194.5	193.0	194.5	199.4	206.3
147.5°	254.7	243.1	231.2	221.4	213.6	206.6	202.2	201.7	202.2	206.6	213.6
150°	255.9	245.1	234.3	225.0	217.6	211.7	207.8	207.2	207.8	211.7	217.6
152.5°	256.7	246.7	237.0	228.5	221.9	216.4	212.5	212.4	212.5	216.4	221.9
155°	257.4	249.0	240.6	233.3	227.9	223.0	220.1	219.6	220.1	223.0	227.9
157.5°	257.4	250.7	243.6	237.8	233.1	229.3	226.5	226.5	226.5	229.3	233.1
160°	257.4	251.5	245.6	240.1	236.3	232.8	230.8	230.8	230.8	232.8	236.3
162.5°	257.4	252.3	246.8	242.5	239.0	235.9	234.4	234.8	234.4	235.9	239.0
165°	256.4	252.4	248.1	245.1	242.6	240.1	239.2	239.2	239.2	240.1	242.6
167.5°	255.2	252.4	249.1	246.8	245.5	243.6	243.1	243.6	243.1	243.6	245.5
170°	254.4	251.9	249.5	248.1	247.0	245.6	245.1	245.6	245.1	245.6	247.0
172.5°	253.7	251.6	249.9	248.8	248.2	247.1	247.0	247.5	247.0	247.1	248.2
175°	252.4	251.0	250.0	250.0	249.5	249.0	249.0	249.5	249.0	249.0	249.5
177.5°	251.2	250.4	250.0	250.0	250.0	249.6	250.0	250.4	250.0	249.6	250.0
180°	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0



TEST NUMBER: P332873-935

CATALOG NUMBER: SA4XXRDIP-C350D590U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8
2.5°	496.6	495.0	492.9	490.4	487.5	484.9	483.7	484.7	485.3	483.9	483.7
5°	481.5	476.4	472.3	466.2	461.3	457.3	454.4	453.1	453.6	450.3	449.5
7.5°	464.5	458.5	451.8	444.5	437.8	431.8	428.7	427.0	423.4	422.0	419.5
10°	453.6	445.5	438.9	430.3	422.6	415.5	412.0	409.1	405.7	404.1	400.6
12.5°	442.4	432.9	425.7	416.8	408.9	400.4	397.0	391.8	386.3	382.9	378.4
15°	426.5	415.1	406.3	395.7	386.3	376.6	367.8	358.0	354.4	346.6	342.2
17.5°	407.9	396.4	385.6	371.3	356.9	344.7	335.4	326.0	320.4	315.5	313.1
20°	395.7	385.1	370.1	353.5	337.4	324.0	316.4	310.3	304.2	300.7	298.3
22.5°	384.2	370.6	353.1	335.3	319.2	308.7	302.3	296.0	291.0	287.7	284.5
25°	364.7	347.0	328.5	308.1	297.1	287.9	281.0	275.9	272.9	268.5	266.9
27.5°	344.8	323.3	302.9	289.2	277.8	269.3	263.3	259.5	255.6	252.9	250.7
30°	329.5	307.7	289.4	276.3	264.7	257.8	252.9	248.4	245.3	243.1	241.5
32.5°	314.4	292.6	277.2	263.1	253.9	247.2	241.9	238.6	236.2	233.3	232.3
35°	292.4	273.0	259.6	246.9	237.6	231.5	227.4	223.9	221.9	221.1	220.5
37.5°	271.3	255.5	241.0	230.7	222.3	217.5	212.7	210.9	209.6	208.1	208.8
40°	258.0	243.1	230.2	219.3	212.5	207.2	204.4	202.3	201.1	201.1	201.1
42.5°	246.4	231.9	219.3	209.5	202.8	198.3	195.1	193.4	193.0	192.8	193.8
45°	228.4	215.0	202.3	194.2	188.5	184.0	182.2	180.7	180.7	181.6	181.8
47.5°	210.6	198.0	187.9	178.7	173.5	170.7	169.1	168.4	168.5	169.3	170.2
50°	199.7	187.3	177.3	169.1	164.3	161.6	160.1	159.7	160.1	160.1	161.6
52.5°	187.8	176.7	166.9	160.0	154.5	152.0	151.2	150.6	150.8	151.5	152.1
55°	170.4	160.4	151.0	144.5	140.4	138.8	136.9	137.2	136.7	137.2	137.2
57.5°	152.8	143.9	135.2	130.0	126.4	124.1	122.1	122.6	122.0	121.9	121.6
60°	141.6	131.8	124.9	120.2	116.1	114.1	112.3	112.7	112.1	111.7	110.8
62.5°	129.4	121.2	114.6	110.1	106.9	104.5	102.6	102.3	100.8	99.4	97.6
65°	111.7	105.0	99.0	94.8	91.7	89.9	88.4	87.2	84.1	80.9	79.3
67.5°	94.5	89.5	84.0	80.4	77.9	75.6	72.8	70.8	67.9	66.1	65.1
70°	83.3	78.7	74.0	70.5	67.8	65.6	62.6	61.1	59.1	58.3	57.3
72.5°	72.8	68.4	64.1	60.9	58.1	56.3	53.9	52.5	51.6	51.2	50.3
75°	56.7	53.2	49.9	47.1	44.9	43.6	42.6	41.6	41.2	39.3	38.3
77.5°	41.3	39.0	37.0	35.0	33.4	32.5	30.6	29.4	28.8	27.9	27.6
80°	32.2	30.6	28.5	27.3	25.1	24.3	23.4	23.2	23.0	22.8	22.6
82.5°	24.2	22.6	20.6	19.8	19.2	18.7	18.3	18.0	17.8	17.9	17.9
85°	12.2	11.5	11.5	11.2	11.0	10.8	10.6	10.6	10.4	10.6	10.4
87.5°	4.8	4.7	5.3	5.0	5.3	5.5	5.3	5.3	5.6	5.4	5.4
90°	4.0	4.0	6.9	6.9	7.8	8.9	8.4	8.9	9.3	9.8	9.8
92.5°	25.9	36.2	61.1	99.2	136.4	155.8	129.8	96.4	72.6	57.8	48.0
95°	40.7	61.4	104.1	184.7	302.0	400.3	411.6	363.9	287.8	222.0	174.4
97.5°	49.3	66.6	99.5	166.0	282.8	421.6	517.1	537.7	509.5	461.4	410.1
100°	56.0	71.7	100.7	156.2	256.4	394.9	520.6	592.4	602.2	578.1	541.7
102.5°	63.5	78.4	104.6	153.4	238.7	361.5	491.1	589.6	638.3	645.3	630.2
105°	76.1	90.4	113.9	154.7	223.5	322.2	437.6	550.1	635.1	683.7	703.9
107.5°	89.2	103.2	124.8	162.0	220.8	300.2	394.4	494.0	584.4	653.0	696.7
110°	98.2	111.5	133.1	167.5	221.5	292.7	372.8	460.2	545.2	616.4	670.5



TEST NUMBER: P332873-935

CATALOG NUMBER: SA4XXRDIP-C350D590U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	106.9	120.1	140.9	173.4	223.9	289.2	360.6	435.5	510.6	577.9	631.9
115°	120.4	133.6	153.3	182.7	228.4	287.3	349.2	410.6	471.1	528.5	575.7
117.5°	132.7	146.5	165.1	192.3	233.2	286.8	344.1	398.4	448.4	493.6	533.6
120°	140.9	154.7	173.4	198.9	236.8	286.8	341.4	393.0	438.6	477.9	512.7
122.5°	149.2	162.6	181.2	205.2	240.3	286.5	338.2	388.2	432.3	468.0	498.6
125°	160.6	174.4	192.0	214.6	245.6	285.9	333.0	380.1	422.4	456.2	483.3
127.5°	171.1	184.9	202.1	222.8	249.8	284.7	326.1	370.3	410.7	444.5	470.1
130°	177.8	192.0	208.7	227.9	253.0	284.4	321.7	362.5	401.3	434.6	460.7
132.5°	184.1	197.5	214.2	233.0	255.7	284.0	317.8	354.2	390.6	423.3	449.3
135°	193.0	205.8	222.0	239.7	259.8	283.4	311.9	342.9	374.8	404.7	429.3
137.5°	200.6	212.8	227.9	244.4	262.3	283.3	306.8	332.5	359.6	384.8	407.0
140°	205.3	217.1	231.9	247.5	264.2	282.9	304.0	326.6	349.7	371.8	392.4
142.5°	209.7	221.0	235.4	249.9	265.8	282.9	301.7	321.2	341.5	360.4	378.3
145°	215.6	226.4	239.2	252.4	266.7	281.9	297.6	313.3	330.0	344.8	358.5
147.5°	221.4	231.2	243.1	254.7	267.2	280.2	294.0	306.9	320.2	332.0	342.9
150°	225.0	234.3	245.1	255.9	267.2	279.0	291.3	303.1	314.4	324.2	333.0
152.5°	228.5	237.0	246.7	256.7	266.4	277.0	288.1	298.7	308.4	317.5	324.8
155°	233.3	240.6	249.0	257.4	265.2	274.1	283.4	292.2	300.1	307.5	313.3
157.5°	237.8	243.6	250.7	257.4	264.0	271.0	278.6	285.2	291.9	298.0	302.7
160°	240.1	245.6	251.5	257.4	262.8	268.6	275.1	280.9	286.4	291.7	295.7
162.5°	242.5	246.8	252.3	257.4	261.6	266.3	271.9	276.6	281.2	285.4	289.0
165°	245.1	248.1	252.4	256.4	259.3	262.8	266.7	270.6	273.5	277.0	279.5
167.5°	246.8	249.1	252.4	255.2	257.0	259.2	262.0	264.8	267.1	269.8	271.3
170°	248.1	249.5	251.9	254.4	255.4	256.8	258.8	261.3	262.8	264.8	266.2
172.5°	248.8	249.9	251.6	253.7	253.8	254.5	256.1	258.1	259.2	260.5	261.5
175°	250.0	250.0	251.0	252.4	251.9	251.9	253.0	253.9	254.4	255.4	255.4
177.5°	250.0	250.0	250.4	251.2	250.4	250.4	250.8	251.2	251.6	251.6	251.9
180°	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0



TEST NUMBER: P332873-935

CATALOG NUMBER: SA4XXRDIP-C350D590U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8
2.5°	482.8	483.1	482.0	481.6	482.0	483.1	482.8	483.7	483.9	485.3	484.7
5°	447.9	447.5	446.4	446.7	446.4	447.5	447.9	449.5	450.3	453.6	453.1
7.5°	418.0	416.5	416.9	415.3	416.9	416.5	418.0	419.5	422.0	423.4	427.0
10°	399.8	397.5	395.7	394.1	395.7	397.5	399.8	400.6	404.1	405.7	409.1
12.5°	374.9	372.9	370.5	370.9	370.5	372.9	374.9	378.4	382.9	386.3	391.8
15°	339.5	336.4	331.6	332.2	331.6	336.4	339.5	342.2	346.6	354.4	358.0
17.5°	309.5	309.5	307.3	307.9	307.3	309.5	309.5	313.1	315.5	320.4	326.0
20°	294.0	292.7	292.8	292.2	292.8	292.7	294.0	298.3	300.7	304.2	310.3
22.5°	283.3	281.5	280.1	278.9	280.1	281.5	283.3	284.5	287.7	291.0	296.0
25°	265.1	263.9	262.1	261.7	262.1	263.9	265.1	266.9	268.5	272.9	275.9
27.5°	249.1	248.9	248.1	247.2	248.1	248.9	249.1	250.7	252.9	255.6	259.5
30°	239.9	239.4	239.0	238.4	239.0	239.4	239.9	241.5	243.1	245.3	248.4
32.5°	231.5	231.3	230.8	230.9	230.8	231.3	231.5	232.3	233.3	236.2	238.6
35°	219.6	219.5	219.0	218.9	219.0	219.5	219.6	220.5	221.1	221.9	223.9
37.5°	208.6	209.1	208.9	208.8	208.9	209.1	208.6	208.8	208.1	209.6	210.9
40°	201.0	201.1	201.6	201.3	201.6	201.1	201.0	201.1	201.1	201.1	202.3
42.5°	194.6	194.6	195.2	194.5	195.2	194.6	194.6	193.8	192.8	193.0	193.4
45°	183.2	184.4	184.2	184.2	184.2	184.4	183.2	181.8	181.6	180.7	180.7
47.5°	170.7	171.9	172.1	172.0	172.1	171.9	170.7	170.2	169.3	168.5	168.4
50°	162.6	162.2	162.8	162.6	162.8	162.2	162.6	161.6	160.1	160.1	159.7
52.5°	152.7	152.7	152.7	152.5	152.7	152.7	152.7	152.1	151.5	150.8	150.6
55°	137.3	137.6	137.2	137.3	137.2	137.6	137.3	137.2	137.2	136.7	137.2
57.5°	120.7	119.8	120.1	119.7	120.1	119.8	120.7	121.6	121.9	122.0	122.6
60°	108.8	107.2	106.8	106.0	106.8	107.2	108.8	110.8	111.7	112.1	112.7
62.5°	95.5	94.3	92.9	93.6	92.9	94.3	95.5	97.6	99.4	100.8	102.3
65°	77.7	76.8	76.2	77.1	76.2	76.8	77.7	79.3	80.9	84.1	87.2
67.5°	64.2	63.8	63.8	63.5	63.8	63.8	64.2	65.1	66.1	67.9	70.8
70°	57.3	56.7	56.7	56.2	56.7	56.7	57.3	57.3	58.3	59.1	61.1
72.5°	50.1	49.5	49.7	49.4	49.7	49.5	50.1	50.3	51.2	51.6	52.5
75°	37.1	36.1	36.1	36.2	36.1	36.1	37.1	38.3	39.3	41.2	41.6
77.5°	27.6	27.5	27.7	27.4	27.7	27.5	27.6	27.6	27.9	28.8	29.4
80°	22.6	22.4	22.2	22.8	22.2	22.4	22.6	22.6	22.8	23.0	23.2
82.5°	17.6	17.6	17.5	18.3	17.5	17.6	17.6	17.9	17.9	17.8	18.0
85°	10.6	10.2	10.6	10.2	10.6	10.2	10.6	10.4	10.6	10.4	10.6
87.5°	5.9	5.8	5.5	5.7	5.5	5.8	5.9	5.4	5.4	5.6	5.3
90°	10.3	10.8	10.3	10.3	10.3	10.8	10.3	9.8	9.8	9.3	8.9
92.5°	42.1	39.5	37.8	37.8	37.8	39.5	42.1	48.0	57.8	72.6	96.4
95°	150.3	135.1	126.2	119.9	126.2	135.1	150.3	174.4	222.0	287.8	363.9
97.5°	374.9	345.3	330.5	320.3	330.5	345.3	374.9	410.1	461.4	509.5	537.7
100°	499.0	469.1	454.3	450.4	454.3	469.1	499.0	541.7	578.1	602.2	592.4
102.5°	603.9	582.2	566.7	563.5	566.7	582.2	603.9	630.2	645.3	638.3	589.6
105°	704.8	700.9	694.0	691.0	694.0	700.9	704.8	703.9	683.7	635.1	550.1
107.5°	721.0	732.2	737.1	738.4	737.1	732.2	721.0	696.7	653.0	584.4	494.0
110°	705.3	725.9	734.8	739.2	734.8	725.9	705.3	670.5	616.4	545.2	460.2



TEST NUMBER: P332873-935

CATALOG NUMBER: SA4XXRDIP-C350D590U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	671.5	696.5	708.9	716.0	708.9	696.5	671.5	631.9	577.9	510.6	435.5
115°	614.4	643.9	659.6	663.6	659.6	643.9	614.4	575.7	528.5	471.1	410.6
117.5°	566.7	591.4	607.3	610.4	607.3	591.4	566.7	533.6	493.6	448.4	398.4
120°	540.8	562.4	575.1	580.6	575.1	562.4	540.8	512.7	477.9	438.6	393.0
122.5°	522.3	540.8	551.6	557.0	551.6	540.8	522.3	498.6	468.0	432.3	388.2
125°	502.9	517.2	526.5	529.4	526.5	517.2	502.9	483.3	456.2	422.4	380.1
127.5°	489.9	502.6	510.4	513.3	510.4	502.6	489.9	470.1	444.5	410.7	370.3
130°	480.9	493.1	501.0	503.9	501.0	493.1	480.9	460.7	434.6	401.3	362.5
132.5°	469.1	482.9	490.3	493.4	490.3	482.9	469.1	449.3	423.3	390.6	354.2
135°	448.9	462.7	470.5	473.5	470.5	462.7	448.9	429.3	404.7	374.8	342.9
137.5°	425.3	438.9	445.4	448.9	445.4	438.9	425.3	407.0	384.8	359.6	332.5
140°	409.7	420.4	427.3	431.3	427.3	420.4	409.7	392.4	371.8	349.7	326.6
142.5°	393.5	403.6	409.7	412.3	409.7	403.6	393.5	378.3	360.4	341.5	321.2
145°	370.8	379.2	384.1	386.5	384.1	379.2	370.8	358.5	344.8	330.0	313.3
147.5°	351.9	359.0	362.7	363.7	362.7	359.0	351.9	342.9	332.0	320.2	306.9
150°	340.9	347.2	350.2	350.7	350.2	347.2	340.9	333.0	324.2	314.4	303.1
152.5°	331.4	336.7	338.4	338.9	338.4	336.7	331.4	324.8	317.5	308.4	298.7
155°	318.3	322.2	323.6	323.6	323.6	322.2	318.3	313.3	307.5	300.1	292.2
157.5°	306.5	309.4	310.3	310.3	310.3	309.4	306.5	302.7	298.0	291.9	285.2
160°	298.6	301.6	302.0	302.0	302.0	301.6	298.6	295.7	291.7	286.4	280.9
162.5°	291.2	294.1	294.6	294.2	294.6	294.1	291.2	289.0	285.4	281.2	276.6
165°	281.5	283.4	282.9	282.4	282.9	283.4	281.5	279.5	277.0	273.5	270.6
167.5°	272.3	273.5	273.5	273.1	273.5	273.5	272.3	271.3	269.8	267.1	264.8
170°	267.2	267.7	267.2	267.2	267.2	267.7	267.2	266.2	264.8	262.8	261.3
172.5°	262.1	262.6	262.1	261.3	262.1	262.6	262.1	261.5	260.5	259.2	258.1
175°	255.4	256.4	255.4	254.4	255.4	256.4	255.4	255.4	255.4	254.4	253.9
177.5°	251.6	251.9	251.2	250.4	251.2	251.9	251.6	251.9	251.6	251.6	251.2
180°	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0



TEST NUMBER: P332873-935

CATALOG NUMBER: SA4XXRDIP-C350D590U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8
2.5°	483.7	484.9	487.5	490.4	492.9	495.0	496.6	498.9	501.0	503.9	506.7
5°	454.4	457.3	461.3	466.2	472.3	476.4	481.5	486.0	492.5	499.0	505.3
7.5°	428.7	431.8	437.8	444.5	451.8	458.5	464.5	472.4	481.0	490.6	501.2
10°	412.0	415.5	422.6	430.3	438.9	445.5	453.6	463.0	472.8	484.4	497.4
12.5°	397.0	400.4	408.9	416.8	425.7	432.9	442.4	451.9	464.9	477.5	492.3
15°	367.8	376.6	386.3	395.7	406.3	415.1	426.5	436.3	448.7	466.4	483.4
17.5°	335.4	344.7	356.9	371.3	385.6	396.4	407.9	420.1	434.9	453.0	472.5
20°	316.4	324.0	337.4	353.5	370.1	385.1	395.7	409.1	424.5	444.0	464.2
22.5°	302.3	308.7	319.2	335.3	353.1	370.6	384.2	397.4	414.3	433.9	455.9
25°	281.0	287.9	297.1	308.1	328.5	347.0	364.7	380.0	398.0	417.5	442.0
27.5°	263.3	269.3	277.8	289.2	302.9	323.3	344.8	362.2	380.6	401.7	426.1
30°	252.9	257.8	264.7	276.3	289.4	307.7	329.5	349.9	368.4	390.2	415.7
32.5°	241.9	247.2	253.9	263.1	277.2	292.6	314.4	336.7	356.4	378.7	403.6
35°	227.4	231.5	237.6	246.9	259.6	273.0	292.4	315.5	336.2	360.1	383.9
37.5°	212.7	217.5	222.3	230.7	241.0	255.5	271.3	294.9	317.9	339.7	362.9
40°	204.4	207.2	212.5	219.3	230.2	243.1	258.0	281.0	304.0	325.6	349.0
42.5°	195.1	198.3	202.8	209.5	219.3	231.9	246.4	266.3	290.3	311.3	332.6
45°	182.2	184.0	188.5	194.2	202.3	215.0	228.4	246.2	268.8	288.8	307.5
47.5°	169.1	170.7	173.5	178.7	187.9	198.0	210.6	226.5	246.3	266.3	282.1
50°	160.1	161.6	164.3	169.1	177.3	187.3	199.7	214.0	231.7	250.8	264.1
52.5°	151.2	152.0	154.5	160.0	166.9	176.7	187.8	201.0	217.5	233.4	246.8
55°	136.9	138.8	140.4	144.5	151.0	160.4	170.4	182.8	195.6	209.1	220.5
57.5°	122.1	124.1	126.4	130.0	135.2	143.9	152.8	162.9	173.9	185.0	194.7
60°	112.3	114.1	116.1	120.2	124.9	131.8	141.6	150.4	158.8	168.9	178.5
62.5°	102.6	104.5	106.9	110.1	114.6	121.2	129.4	137.0	145.7	154.5	161.7
65°	88.4	89.9	91.7	94.8	99.0	105.0	111.7	117.6	125.4	131.8	138.4
67.5°	72.8	75.6	77.9	80.4	84.0	89.5	94.5	100.1	105.4	110.2	116.1
70°	62.6	65.6	67.8	70.5	74.0	78.7	83.3	87.2	91.5	96.2	101.5
72.5°	53.9	56.3	58.1	60.9	64.1	68.4	72.8	75.9	79.5	82.7	87.8
75°	42.6	43.6	44.9	47.1	49.9	53.2	56.7	59.5	61.6	64.4	68.0
77.5°	30.6	32.5	33.4	35.0	37.0	39.0	41.3	43.7	45.7	46.7	49.5
80°	23.4	24.3	25.1	27.3	28.5	30.6	32.2	34.4	35.2	36.2	38.9
82.5°	18.3	18.7	19.2	19.8	20.6	22.6	24.2	25.7	26.4	26.8	28.8
85°	10.6	10.8	11.0	11.2	11.5	11.5	12.2	13.3	14.6	14.6	15.3
87.5°	5.3	5.5	5.3	5.0	5.3	4.7	4.8	4.7	5.2	5.3	5.7
90°	8.4	8.9	7.8	6.9	6.9	4.0	4.0	3.4	2.9	1.5	0.5
92.5°	129.8	155.8	136.4	99.2	61.1	36.2	25.9	18.8	12.7	8.2	5.6
95°	411.6	400.3	302.0	184.7	104.1	61.4	40.7	29.0	22.6	17.7	16.2
97.5°	517.1	421.6	282.8	166.0	99.5	66.6	49.3	39.2	33.3	29.1	29.1
100°	520.6	394.9	256.4	156.2	100.7	71.7	56.0	46.7	40.7	37.4	37.4
102.5°	491.1	361.5	238.7	153.4	104.6	78.4	63.5	54.5	49.0	46.0	45.2
105°	437.6	322.2	223.5	154.7	113.9	90.4	76.1	67.3	61.4	59.0	57.4
107.5°	394.4	300.2	220.8	162.0	124.8	103.2	89.2	80.8	74.5	72.0	71.0
110°	372.8	292.7	221.5	167.5	133.1	111.5	98.2	89.4	83.5	81.0	80.1



TEST NUMBER: P332873-935

CATALOG NUMBER: SA4XXRDIP-C350D590U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	360.6	289.2	223.9	173.4	140.9	120.1	106.9	98.1	92.6	89.7	88.7
115°	349.2	287.3	228.4	182.7	153.3	133.6	120.4	111.0	106.1	102.6	101.2
117.5°	344.1	286.8	233.2	192.3	165.1	146.5	132.7	124.0	118.6	115.5	114.2
120°	341.4	286.8	236.8	198.9	173.4	154.7	140.9	132.6	127.2	123.8	122.8
122.5°	338.2	286.5	240.3	205.2	181.2	162.6	149.2	140.1	135.1	131.6	130.6
125°	333.0	285.9	245.6	214.6	192.0	174.4	160.6	151.3	145.9	142.9	140.9
127.5°	326.1	284.7	249.8	222.8	202.1	184.9	171.1	161.4	155.2	151.7	150.1
130°	321.7	284.4	253.0	227.9	208.7	192.0	177.8	168.5	161.1	157.1	155.2
132.5°	317.8	284.0	255.7	233.0	214.2	197.5	184.1	174.0	167.0	161.9	160.3
135°	311.9	283.4	259.8	239.7	222.0	205.8	193.0	182.7	174.4	169.4	167.5
137.5°	306.8	283.3	262.3	244.4	227.9	212.8	200.6	189.9	181.9	176.5	174.7
140°	304.0	282.9	264.2	247.5	231.9	217.1	205.3	195.0	186.7	181.2	179.8
142.5°	301.7	282.9	265.8	249.9	235.4	221.0	209.7	199.7	191.7	186.8	185.3
145°	297.6	281.9	266.7	252.4	239.2	226.4	215.6	206.3	199.4	194.5	193.0
147.5°	294.0	280.2	267.2	254.7	243.1	231.2	221.4	213.6	206.6	202.2	201.7
150°	291.3	279.0	267.2	255.9	245.1	234.3	225.0	217.6	211.7	207.8	207.2
152.5°	288.1	277.0	266.4	256.7	246.7	237.0	228.5	221.9	216.4	212.5	212.4
155°	283.4	274.1	265.2	257.4	249.0	240.6	233.3	227.9	223.0	220.1	219.6
157.5°	278.6	271.0	264.0	257.4	250.7	243.6	237.8	233.1	229.3	226.5	226.5
160°	275.1	268.6	262.8	257.4	251.5	245.6	240.1	236.3	232.8	230.8	230.8
162.5°	271.9	266.3	261.6	257.4	252.3	246.8	242.5	239.0	235.9	234.4	234.8
165°	266.7	262.8	259.3	256.4	252.4	248.1	245.1	242.6	240.1	239.2	239.2
167.5°	262.0	259.2	257.0	255.2	252.4	249.1	246.8	245.5	243.6	243.1	243.6
170°	258.8	256.8	255.4	254.4	251.9	249.5	248.1	247.0	245.6	245.1	245.6
172.5°	256.1	254.5	253.8	253.7	251.6	249.9	248.8	248.2	247.1	247.0	247.5
175°	253.0	251.9	251.9	252.4	251.0	250.0	250.0	249.5	249.0	249.0	249.5
177.5°	250.8	250.4	250.4	251.2	250.4	250.0	250.0	250.0	249.6	250.0	250.4
180°	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0



TEST NUMBER: P332873-935

CATALOG NUMBER: SA4XXRDIP-C350D590U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8
2.5°	508.9	510.3	512.0	515.1	517.6	518.8	521.1	522.7	522.2	524.5	528.4
5°	510.8	516.3	522.7	529.2	536.5	542.6	547.5	552.4	556.3	560.9	567.9
7.5°	510.5	520.3	531.0	542.6	554.7	565.1	574.6	584.4	593.1	602.6	615.1
10°	509.2	522.3	535.5	550.8	566.1	580.6	593.6	605.8	617.4	629.8	645.6
12.5°	507.7	522.7	538.7	557.2	576.2	593.6	608.9	626.5	641.1	657.1	675.2
15°	501.3	521.4	543.3	567.1	590.0	613.4	634.3	655.9	676.1	695.3	718.1
17.5°	493.9	517.1	542.9	571.0	598.4	626.9	651.9	679.1	699.6	725.4	746.6
20°	487.8	512.9	540.4	572.0	603.1	634.7	662.3	690.0	713.2	739.1	765.9
22.5°	480.5	508.0	537.8	570.5	603.1	637.7	668.1	695.7	724.4	753.5	781.3
25°	468.6	497.2	528.8	564.6	602.2	637.4	670.0	704.2	735.2	766.8	791.7
27.5°	454.2	484.1	517.4	554.4	592.9	629.0	667.4	703.9	735.0	765.4	787.1
30°	442.6	474.2	506.2	543.6	583.6	622.3	663.5	700.0	732.8	760.1	772.3
32.5°	430.7	460.6	493.6	531.6	572.5	614.2	655.0	692.3	722.6	739.0	739.3
35°	410.0	438.1	472.3	509.6	551.6	596.8	638.2	674.9	693.4	694.8	674.9
37.5°	387.4	413.2	445.5	482.8	528.8	573.9	616.0	640.5	646.7	625.9	589.1
40°	371.3	395.1	426.3	464.6	510.2	556.7	595.2	613.1	606.7	573.0	531.8
42.5°	354.3	376.5	406.6	444.4	490.2	537.2	570.0	579.5	562.3	523.5	475.3
45°	326.7	347.0	376.8	414.9	458.9	502.9	527.8	522.9	494.1	448.1	394.1
47.5°	297.8	317.5	344.3	379.5	424.6	462.6	479.4	464.7	423.8	373.2	329.2
50°	278.8	298.9	323.6	357.2	398.4	435.1	445.8	423.4	378.0	329.3	289.0
52.5°	260.0	277.2	301.4	333.9	373.2	404.2	410.0	384.2	337.3	293.6	257.8
55°	231.5	247.2	267.5	298.1	332.2	358.4	355.3	322.2	279.6	242.3	214.1
57.5°	203.9	215.7	234.5	263.2	293.1	310.7	299.5	271.2	231.5	201.0	177.3
60°	185.6	196.7	214.1	239.2	265.5	275.5	266.1	235.4	204.0	176.1	156.1
62.5°	168.3	178.1	193.1	216.4	237.6	243.6	233.5	206.6	178.4	154.5	138.0
65°	143.3	152.2	165.1	181.6	196.2	199.1	192.6	165.1	143.7	123.7	112.3
67.5°	120.5	126.3	136.4	150.6	158.4	160.1	147.5	130.2	111.3	99.1	90.5
70°	105.1	109.3	118.6	126.3	132.7	132.9	121.2	107.4	92.9	82.9	76.6
72.5°	90.3	94.2	101.3	106.6	111.5	109.9	99.3	88.3	76.6	69.1	64.4
75°	69.7	73.2	76.8	79.3	79.3	77.2	69.5	61.3	54.6	50.1	48.7
77.5°	50.6	53.5	54.8	54.3	53.6	50.5	45.5	40.2	37.8	35.7	34.6
80°	39.8	41.0	41.3	40.4	39.1	35.5	32.2	30.0	27.7	26.9	26.5
82.5°	29.4	30.6	29.4	29.8	27.0	24.0	22.2	21.4	20.6	20.2	19.8
85°	15.7	15.5	15.1	14.0	12.2	11.8	11.6	11.5	11.0	11.2	10.8
87.5°	5.7	5.5	4.9	4.8	4.8	5.2	5.3	5.5	5.7	5.4	5.9
90°	1.5	2.9	3.4	4.0	4.0	6.9	6.9	7.8	8.9	8.4	8.9
92.5°	8.2	12.7	18.8	25.9	36.2	61.1	99.2	136.4	155.8	129.8	96.4
95°	17.7	22.6	29.0	40.7	61.4	104.1	184.7	302.0	400.3	411.6	363.9
97.5°	29.1	33.3	39.2	49.3	66.6	99.5	166.0	282.8	421.6	517.1	537.7
100°	37.4	40.7	46.7	56.0	71.7	100.7	156.2	256.4	394.9	520.6	592.4
102.5°	46.0	49.0	54.5	63.5	78.4	104.6	153.4	238.7	361.5	491.1	589.6
105°	59.0	61.4	67.3	76.1	90.4	113.9	154.7	223.5	322.2	437.6	550.1
107.5°	72.0	74.5	80.8	89.2	103.2	124.8	162.0	220.8	300.2	394.4	494.0
110°	81.0	83.5	89.4	98.2	111.5	133.1	167.5	221.5	292.7	372.8	460.2



TEST NUMBER: P332873-935

CATALOG NUMBER: SA4XXRDIP-C350D590U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	89.7	92.6	98.1	106.9	120.1	140.9	173.4	223.9	289.2	360.6	435.5
115°	102.6	106.1	111.0	120.4	133.6	153.3	182.7	228.4	287.3	349.2	410.6
117.5°	115.5	118.6	124.0	132.7	146.5	165.1	192.3	233.2	286.8	344.1	398.4
120°	123.8	127.2	132.6	140.9	154.7	173.4	198.9	236.8	286.8	341.4	393.0
122.5°	131.6	135.1	140.1	149.2	162.6	181.2	205.2	240.3	286.5	338.2	388.2
125°	142.9	145.9	151.3	160.6	174.4	192.0	214.6	245.6	285.9	333.0	380.1
127.5°	151.7	155.2	161.4	171.1	184.9	202.1	222.8	249.8	284.7	326.1	370.3
130°	157.1	161.1	168.5	177.8	192.0	208.7	227.9	253.0	284.4	321.7	362.5
132.5°	161.9	167.0	174.0	184.1	197.5	214.2	233.0	255.7	284.0	317.8	354.2
135°	169.4	174.4	182.7	193.0	205.8	222.0	239.7	259.8	283.4	311.9	342.9
137.5°	176.5	181.9	189.9	200.6	212.8	227.9	244.4	262.3	283.3	306.8	332.5
140°	181.2	186.7	195.0	205.3	217.1	231.9	247.5	264.2	282.9	304.0	326.6
142.5°	186.8	191.7	199.7	209.7	221.0	235.4	249.9	265.8	282.9	301.7	321.2
145°	194.5	199.4	206.3	215.6	226.4	239.2	252.4	266.7	281.9	297.6	313.3
147.5°	202.2	206.6	213.6	221.4	231.2	243.1	254.7	267.2	280.2	294.0	306.9
150°	207.8	211.7	217.6	225.0	234.3	245.1	255.9	267.2	279.0	291.3	303.1
152.5°	212.5	216.4	221.9	228.5	237.0	246.7	256.7	266.4	277.0	288.1	298.7
155°	220.1	223.0	227.9	233.3	240.6	249.0	257.4	265.2	274.1	283.4	292.2
157.5°	226.5	229.3	233.1	237.8	243.6	250.7	257.4	264.0	271.0	278.6	285.2
160°	230.8	232.8	236.3	240.1	245.6	251.5	257.4	262.8	268.6	275.1	280.9
162.5°	234.4	235.9	239.0	242.5	246.8	252.3	257.4	261.6	266.3	271.9	276.6
165°	239.2	240.1	242.6	245.1	248.1	252.4	256.4	259.3	262.8	266.7	270.6
167.5°	243.1	243.6	245.5	246.8	249.1	252.4	255.2	257.0	259.2	262.0	264.8
170°	245.1	245.6	247.0	248.1	249.5	251.9	254.4	255.4	256.8	258.8	261.3
172.5°	247.0	247.1	248.2	248.8	249.9	251.6	253.7	253.8	254.5	256.1	258.1
175°	249.0	249.0	249.5	250.0	250.0	251.0	252.4	251.9	251.9	253.0	253.9
177.5°	250.0	249.6	250.0	250.0	250.0	250.4	251.2	250.4	250.4	250.8	251.2
180°	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0



TEST NUMBER: P332873-935

CATALOG NUMBER: SA4XXRDIP-C350D590U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	505.8	505.8	505.8	505.8	505.8	505.8	505.8
2.5°	530.5	531.2	531.7	533.3	533.5	534.9	533.5
5°	574.5	577.3	581.8	586.3	586.7	589.5	584.4
7.5°	623.6	630.3	634.4	641.6	644.5	646.3	643.3
10°	657.5	663.7	674.5	679.8	685.1	685.9	683.5
12.5°	690.3	700.0	708.5	718.6	718.3	725.5	722.9
15°	734.0	744.0	755.8	767.0	771.0	771.0	774.3
17.5°	765.1	783.4	795.7	804.4	814.1	815.7	814.6
20°	786.2	805.9	819.0	830.3	836.9	838.7	838.7
22.5°	801.8	818.6	831.4	841.6	847.0	849.1	848.5
25°	812.6	827.1	834.8	837.9	839.3	839.0	835.1
27.5°	797.8	797.1	792.3	782.9	775.8	771.5	766.6
30°	769.5	758.8	746.6	733.1	715.8	702.6	698.5
32.5°	727.2	703.4	682.7	660.3	641.7	628.4	622.8
35°	645.6	607.9	577.0	550.2	530.6	518.4	514.3
37.5°	548.6	512.1	474.1	448.0	431.7	419.4	414.8
40°	487.0	447.3	414.1	389.6	372.9	360.8	360.7
42.5°	430.8	392.8	361.5	344.0	326.0	318.0	318.0
45°	352.8	322.4	295.8	282.0	271.2	264.7	262.9
47.5°	292.1	266.9	249.3	238.2	229.5	225.3	222.6
50°	258.0	236.0	221.9	212.3	207.4	202.2	201.7
52.5°	229.6	211.8	200.9	193.1	186.9	183.7	183.8
55°	193.0	178.9	171.2	165.2	160.4	157.9	156.9
57.5°	162.6	152.1	146.4	140.9	138.9	137.0	136.5
60°	143.7	136.6	131.2	126.9	123.9	123.3	123.0
62.5°	128.0	120.5	116.9	113.6	111.3	110.4	110.0
65°	105.6	100.0	96.8	94.1	93.3	91.9	91.7
67.5°	85.1	81.8	79.6	77.8	76.7	76.6	76.6
70°	72.6	70.7	68.9	67.8	67.2	66.8	66.8
72.5°	61.8	60.4	58.9	58.4	58.3	57.9	57.7
75°	47.1	45.6	45.9	44.9	44.0	43.0	42.4
77.5°	33.4	32.4	32.1	32.0	31.3	31.3	31.5
80°	25.9	24.9	24.6	24.9	24.6	24.0	24.0
82.5°	19.7	18.9	18.6	18.5	18.3	18.5	18.2
85°	10.6	10.2	10.2	10.2	10.6	10.4	10.2
87.5°	5.6	5.5	5.7	5.7	5.8	5.5	5.7
90°	9.3	9.8	9.8	10.3	10.8	10.3	10.3
92.5°	72.6	57.8	48.0	42.1	39.5	37.8	37.8
95°	287.8	222.0	174.4	150.3	135.1	126.2	119.9
97.5°	509.5	461.4	410.1	374.9	345.3	330.5	320.3
100°	602.2	578.1	541.7	499.0	469.1	454.3	450.4
102.5°	638.3	645.3	630.2	603.9	582.2	566.7	563.5
105°	635.1	683.7	703.9	704.8	700.9	694.0	691.0
107.5°	584.4	653.0	696.7	721.0	732.2	737.1	738.4
110°	545.2	616.4	670.5	705.3	725.9	734.8	739.2



TEST NUMBER: P332873-935

CATALOG NUMBER: SA4XXRDIP-C350D590U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	510.6	577.9	631.9	671.5	696.5	708.9	716.0
115°	471.1	528.5	575.7	614.4	643.9	659.6	663.6
117.5°	448.4	493.6	533.6	566.7	591.4	607.3	610.4
120°	438.6	477.9	512.7	540.8	562.4	575.1	580.6
122.5°	432.3	468.0	498.6	522.3	540.8	551.6	557.0
125°	422.4	456.2	483.3	502.9	517.2	526.5	529.4
127.5°	410.7	444.5	470.1	489.9	502.6	510.4	513.3
130°	401.3	434.6	460.7	480.9	493.1	501.0	503.9
132.5°	390.6	423.3	449.3	469.1	482.9	490.3	493.4
135°	374.8	404.7	429.3	448.9	462.7	470.5	473.5
137.5°	359.6	384.8	407.0	425.3	438.9	445.4	448.9
140°	349.7	371.8	392.4	409.7	420.4	427.3	431.3
142.5°	341.5	360.4	378.3	393.5	403.6	409.7	412.3
145°	330.0	344.8	358.5	370.8	379.2	384.1	386.5
147.5°	320.2	332.0	342.9	351.9	359.0	362.7	363.7
150°	314.4	324.2	333.0	340.9	347.2	350.2	350.7
152.5°	308.4	317.5	324.8	331.4	336.7	338.4	338.9
155°	300.1	307.5	313.3	318.3	322.2	323.6	323.6
157.5°	291.9	298.0	302.7	306.5	309.4	310.3	310.3
160°	286.4	291.7	295.7	298.6	301.6	302.0	302.0
162.5°	281.2	285.4	289.0	291.2	294.1	294.6	294.2
165°	273.5	277.0	279.5	281.5	283.4	282.9	282.4
167.5°	267.1	269.8	271.3	272.3	273.5	273.5	273.1
170°	262.8	264.8	266.2	267.2	267.7	267.2	267.2
172.5°	259.2	260.5	261.5	262.1	262.6	262.1	261.3
175°	254.4	255.4	255.4	255.4	256.4	255.4	254.4
177.5°	251.6	251.6	251.9	251.6	251.9	251.2	250.4
180°	250.0	250.0	250.0	250.0	250.0	250.0	250.0

(END OF REPORT)