

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: P332510-935

Luminaire Tested: **SA4XXDIP-C350D810U935-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332510-935
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: SA4XXDIP-C350D810U935-4F0-1E-UDD-A4
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 350 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 810 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

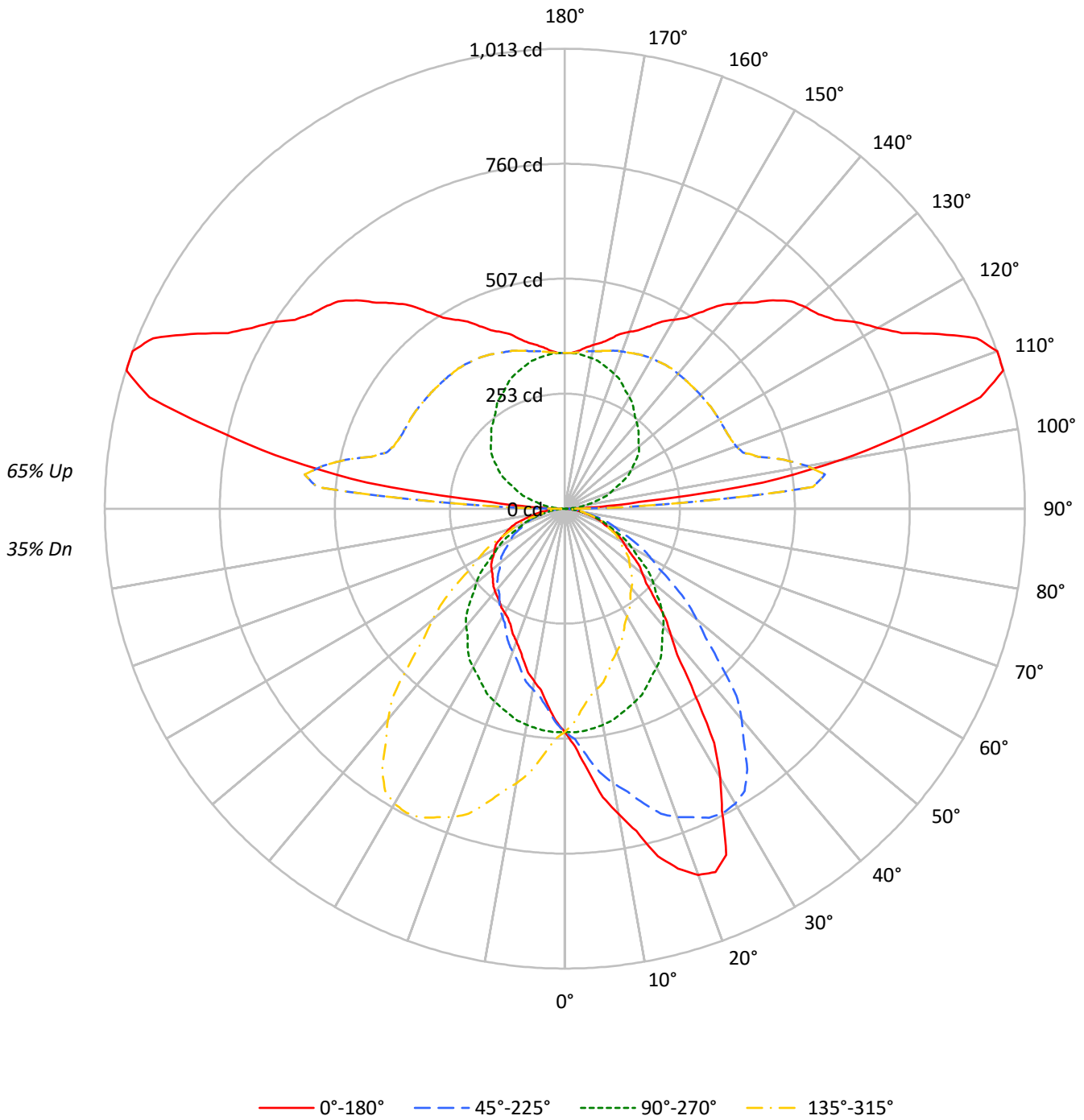
Lumens per Lamp: N/A
Luminaire Lumens: 3851.3 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 31.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	104	104	104	104	94	94	94	94	75	75	75	58	58	58	43	43	43	35
1	95	90	87	83	85	82	79	76	66	64	62	51	50	49	38	37	36	30
2	86	79	73	68	78	72	67	63	58	54	51	45	43	41	33	32	31	25
3	79	70	63	57	71	63	57	52	51	47	43	40	37	35	30	28	26	22
4	72	62	54	48	65	56	50	44	46	41	37	36	32	30	27	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	32	29	26	24	22	20	16
6	61	49	41	36	55	45	38	33	37	32	28	29	25	23	22	19	18	14
7	56	44	37	31	51	41	34	29	33	28	24	26	23	20	20	18	16	13
8	52	40	33	28	47	37	30	26	30	25	22	24	20	18	18	16	14	12
9	48	37	29	24	44	34	27	23	28	23	19	22	19	16	17	14	13	10
10	45	34	27	22	41	31	25	20	25	21	17	20	17	14	16	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	3971	3971	3971	3971
5°	4676	3981	3514	3981
10°	5599	3963	3163	3963
15°	6624	3924	2906	3924
20°	7377	3882	2674	3882
25°	7496	3822	2515	3822
30°	6378	3765	2466	3765
35°	4904	3671	2466	3671
40°	3822	3561	2512	3561
45°	3186	3394	2555	3394
50°	2804	3191	2641	3191
55°	2570	2949	2747	2949
60°	2407	2730	2876	2730
65°	2243	2487	2982	2487
70°	2049	2245	3050	2245
75°	1831	1978	3013	1978
80°	1534	1623	2920	1623
85°	1130	1176	2788	1176



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.9	1.2
10°-20°	147.7	3.8
20°-30°	234.2	6.1
30°-40°	260.7	6.8
40°-50°	237.3	6.2
50°-60°	193.9	5.0
60°-70°	138.4	3.6
70°-80°	76.2	2.0
80°-90°	22.7	0.6
90°-100°	247.5	6.4
100°-110°	515.1	13.4
110°-120°	461.4	12.0
120°-130°	388.1	10.1
130°-140°	323.6	8.4
140°-150°	247.2	6.4
150°-160°	173.8	4.5
160°-170°	102.2	2.7
170°-180°	33.3	0.9
0°-30°	429.9	11.2
0°-40°	690.5	17.9
0°-60°	1121.7	29.1
0°-90°	1359.1	35.3
90°-120°	1224.0	31.8
90°-150°	2183.0	56.7
90°-180°	2492.0	64.7
0°-180°	3851.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	492	492	492	492	492	
5°	577	491	434	491	577	59
15°	793	470	348	470	793	224
25°	842	429	282	429	842	371
35°	498	372	250	372	498	316
45°	279	297	224	297	279	220
55°	183	210	195	210	183	165
65°	117	130	156	130	117	116
75°	59	63	97	63	59	62
85°	12	13	30	13	12	15
90°	14	1	14	1	14	12
95°	164	22	164	22	164	255
105°	947	79	947	79	947	937
115°	910	139	910	139	910	903
125°	726	193	726	193	726	659
135°	649	230	649	230	649	501
145°	530	265	530	265	530	336
155°	444	301	444	301	444	207
165°	387	328	387	328	387	111
175°	349	342	349	342	349	34
180°	343	343	343	343	343	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9
2.5°	523.5	523.4	521.8	521.4	520.3	518.8	518.5	515.8	510.7	508.2	507.6
5°	577.0	581.2	575.8	574.8	574.2	567.5	564.0	560.0	550.6	545.1	540.8
7.5°	641.0	641.4	639.1	637.3	632.1	626.2	617.4	608.0	596.8	585.3	576.5
10°	683.0	684.7	682.0	681.7	671.2	664.7	651.7	640.7	628.0	614.0	601.2
12.5°	727.4	725.1	723.8	715.1	713.1	701.2	686.0	674.8	655.2	639.0	622.0
15°	792.6	788.2	785.3	773.4	767.4	750.9	734.8	722.4	696.9	672.6	654.3
17.5°	831.0	835.4	828.9	823.9	808.7	797.0	780.6	754.5	734.6	704.5	681.3
20°	858.7	859.1	855.4	850.3	838.4	823.6	805.7	777.2	753.4	723.4	691.6
22.5°	866.2	866.3	864.7	860.0	850.8	839.0	820.9	797.0	768.2	735.6	703.8
25°	841.5	840.8	842.6	847.9	844.5	840.8	830.3	812.6	785.7	751.3	717.0
27.5°	750.1	755.8	766.1	779.1	791.7	801.2	803.9	800.3	783.7	755.4	719.5
30°	684.2	691.2	699.0	712.0	737.3	751.7	767.6	779.6	772.9	750.3	716.9
32.5°	611.9	613.6	625.1	639.9	663.1	690.9	716.1	740.5	748.6	736.8	708.9
35°	497.6	500.5	512.9	527.5	555.9	590.0	627.8	661.7	689.6	700.8	686.5
37.5°	406.0	414.2	423.0	438.8	463.7	494.4	533.7	577.6	619.1	647.0	651.8
40°	362.7	367.8	374.1	386.2	407.3	437.5	471.3	521.4	565.7	605.6	618.6
42.5°	328.5	331.5	335.4	346.2	362.3	392.4	423.3	467.4	511.7	559.5	581.3
45°	279.1	282.2	288.8	295.1	307.3	328.0	356.8	393.0	437.7	483.7	524.1
47.5°	243.6	245.5	249.3	256.1	266.6	280.3	303.6	333.9	375.2	420.0	463.0
50°	223.3	225.0	228.0	234.1	242.1	254.3	273.5	301.8	334.2	379.2	421.4
52.5°	207.3	208.0	210.3	214.4	220.8	231.0	246.8	270.2	300.3	340.4	382.5
55°	182.6	183.4	185.5	188.5	194.0	200.5	212.5	230.1	256.3	291.2	327.7
57.5°	162.2	162.8	164.5	165.7	170.2	175.5	184.8	197.3	217.1	246.8	279.3
60°	149.1	148.8	150.8	151.8	154.9	159.4	166.5	178.5	195.8	219.6	249.6
62.5°	136.5	135.9	137.6	139.0	140.7	144.5	150.3	159.7	173.8	195.4	221.3
65°	117.4	116.6	117.6	119.2	120.8	122.9	127.2	135.5	146.7	162.2	181.9
67.5°	98.2	99.1	99.3	100.0	101.0	103.8	106.7	112.6	120.5	132.9	149.6
70°	86.8	87.0	87.8	87.8	88.4	90.9	93.3	96.8	104.5	116.0	129.6
72.5°	75.4	76.3	75.9	76.5	77.1	78.7	80.4	83.8	90.3	98.8	110.4
75°	58.7	59.3	59.3	59.5	60.1	60.7	62.2	64.6	69.3	75.6	83.5
77.5°	42.8	42.9	43.1	43.9	43.9	44.9	45.9	47.9	50.2	54.5	59.4
80°	33.0	33.4	33.2	33.7	33.7	34.4	34.9	37.3	38.3	41.2	45.0
82.5°	24.2	24.6	24.5	25.1	25.5	25.7	26.2	27.2	28.2	30.7	32.3
85°	12.2	12.7	12.2	12.7	13.3	13.4	14.0	14.3	15.1	15.7	17.1
87.5°	6.4	6.9	7.1	7.1	7.2	7.4	7.5	7.1	7.7	8.0	8.4
90°	14.1	14.1	14.8	14.1	13.4	13.4	12.8	12.1	11.5	12.1	10.8
92.5°	51.8	51.8	54.2	57.8	65.7	79.2	99.5	132.2	177.9	213.5	186.9
95°	164.3	173.1	185.1	206.0	239.0	304.3	394.5	498.9	564.2	548.7	414.1
97.5°	439.1	453.1	473.3	513.8	562.1	632.4	698.3	737.0	708.8	577.9	387.5
100°	617.3	622.8	642.9	684.0	742.6	792.4	825.4	811.9	713.6	541.3	351.5
102.5°	772.5	776.8	798.1	827.9	863.8	884.5	874.9	808.1	673.2	495.5	327.2
105°	947.3	951.3	960.7	966.1	964.8	937.1	870.5	754.1	599.9	441.6	306.3
107.5°	1012.1	1010.4	1003.7	988.3	955.0	895.0	801.2	677.2	540.6	411.5	302.6
110°	1013.2	1007.2	995.1	966.7	918.9	844.9	747.3	630.9	511.0	401.2	303.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	981.5	971.6	954.7	920.4	866.2	792.1	699.9	596.9	494.3	396.4	306.9
115°	909.6	904.1	882.6	842.2	789.0	724.4	645.7	562.8	478.6	393.8	313.1
117.5°	836.7	832.5	810.7	776.8	731.4	676.6	614.7	546.1	471.7	393.1	319.7
120°	795.7	788.3	770.9	741.2	702.8	655.0	601.2	538.6	467.9	393.1	324.5
122.5°	763.4	756.0	741.2	715.9	683.5	641.6	592.5	532.1	463.6	392.6	329.3
125°	725.7	721.7	708.9	689.4	662.5	625.4	579.0	521.1	456.4	391.8	336.7
127.5°	703.7	699.6	688.9	671.5	644.5	609.2	562.9	507.6	446.9	390.4	342.4
130°	690.8	686.7	676.0	659.1	631.5	595.8	550.0	496.9	441.0	389.8	346.7
132.5°	676.2	672.2	661.9	642.9	615.9	580.2	535.5	485.5	435.6	389.3	350.5
135°	649.0	645.0	634.2	615.4	588.4	554.7	513.7	469.9	427.5	388.5	356.1
137.5°	615.4	610.4	601.6	583.0	557.8	527.4	492.8	455.8	420.5	388.3	359.5
140°	591.1	585.7	576.3	561.5	538.0	509.6	479.3	447.7	416.7	387.8	362.2
142.5°	565.2	561.5	553.1	539.4	518.5	494.0	468.0	440.1	413.5	387.8	364.4
145°	529.9	526.5	519.7	508.3	491.5	472.6	452.5	429.6	407.9	386.4	365.6
147.5°	498.4	497.2	492.1	482.3	469.9	455.1	438.9	420.8	403.0	384.0	366.3
150°	480.7	480.0	476.0	467.3	456.4	444.4	430.8	415.3	399.2	382.4	366.3
152.5°	464.5	463.8	461.4	454.3	445.1	435.1	422.8	409.5	394.9	379.7	365.2
155°	443.7	443.7	441.6	436.3	429.6	421.5	411.4	400.5	388.5	375.7	363.5
157.5°	425.3	425.3	424.1	420.1	415.0	408.5	400.0	391.0	381.9	371.5	361.8
160°	414.1	414.1	413.4	409.3	405.3	399.9	392.5	385.1	377.0	368.2	360.2
162.5°	403.3	403.8	403.1	399.1	396.1	391.3	385.5	379.2	372.7	365.1	358.6
165°	387.1	387.8	388.5	385.7	383.1	379.7	375.0	370.9	365.6	360.2	355.5
167.5°	374.3	374.9	375.0	373.2	371.9	369.9	366.1	363.0	359.1	355.3	352.2
170°	366.3	366.3	366.9	366.3	364.9	362.9	360.2	358.2	354.8	352.1	350.1
172.5°	358.2	359.2	359.9	359.2	358.4	357.0	355.3	353.9	351.0	348.9	347.9
175°	348.7	350.1	351.5	350.1	350.1	350.1	348.7	348.1	346.7	345.3	345.3
177.5°	343.2	344.3	345.3	344.8	345.3	344.8	344.8	344.3	343.7	343.2	343.2
180°	342.7	342.7	342.7	342.7	342.7	342.7	342.7	342.7	342.7	342.7	342.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9
2.5°	507.7	505.4	503.8	502.5	498.9	496.8	495.2	492.9	490.3	487.5	484.1
5°	536.5	529.6	524.5	516.8	509.5	503.3	497.0	491.3	484.4	476.8	471.3
7.5°	566.8	556.5	543.3	531.8	518.9	507.7	497.7	487.5	476.8	466.4	456.9
10°	586.1	572.8	558.1	540.8	524.5	510.1	496.6	483.5	470.9	458.3	447.5
12.5°	606.7	590.2	568.5	548.3	530.0	510.7	494.5	478.5	463.2	450.0	437.4
15°	634.6	610.7	585.7	558.5	534.5	511.9	489.7	469.5	452.4	434.8	422.6
17.5°	651.6	622.1	593.5	565.2	536.1	507.5	483.5	460.3	438.9	421.5	406.0
20°	662.9	633.5	597.9	569.6	534.9	505.6	477.9	451.9	429.6	411.0	395.1
22.5°	672.6	638.8	603.0	565.8	531.3	500.2	469.8	443.8	420.9	401.4	386.2
25°	678.0	639.0	600.3	563.2	524.1	487.2	459.7	429.1	404.7	384.1	367.8
27.5°	678.6	636.9	593.1	551.9	511.5	477.2	442.5	415.1	389.8	368.0	352.3
30°	676.7	633.4	586.3	541.7	501.1	463.8	433.6	403.9	378.0	356.4	340.1
32.5°	671.0	625.9	577.5	530.2	488.2	451.7	420.6	392.3	367.0	345.8	328.6
35°	654.5	609.8	558.4	509.2	466.2	429.4	401.2	372.5	347.2	327.1	310.6
37.5°	628.7	588.4	536.0	485.2	442.9	405.9	378.0	352.1	329.2	308.8	291.9
40°	606.2	570.8	518.1	468.6	423.0	387.8	361.7	337.9	315.2	295.8	279.7
42.5°	580.3	549.4	500.9	448.5	404.4	369.0	343.6	322.2	300.9	283.0	266.9
45°	534.1	513.7	468.0	419.6	373.7	340.3	316.1	297.3	279.4	261.8	248.4
47.5°	481.0	470.8	432.4	386.3	342.9	309.9	288.9	271.6	255.8	241.0	229.1
50°	445.2	440.3	407.2	362.7	321.2	290.2	269.0	254.1	240.6	227.6	216.4
52.5°	410.0	409.8	379.9	339.2	300.7	271.0	249.9	236.0	224.4	213.8	203.7
55°	356.2	361.9	338.5	302.2	267.8	240.8	221.9	209.5	201.3	192.6	185.0
57.5°	306.8	316.2	296.9	264.9	236.2	211.5	194.9	185.6	176.9	171.6	166.1
60°	274.5	283.4	268.4	241.5	214.4	193.2	177.5	169.1	161.6	157.9	154.0
62.5°	245.8	253.7	242.6	217.7	194.2	173.7	160.5	152.5	147.4	143.4	140.9
65°	204.8	211.5	201.9	183.8	163.6	147.3	136.6	130.2	125.4	123.7	120.8
67.5°	165.6	171.7	166.5	151.1	134.9	122.5	114.1	108.1	105.1	103.8	101.7
70°	142.2	148.4	142.8	129.4	116.9	106.6	98.6	95.1	92.1	91.5	88.7
72.5°	122.5	126.7	121.1	110.6	100.0	91.3	85.1	81.5	79.9	78.8	77.2
75°	91.9	95.6	91.9	83.8	76.2	70.1	64.8	63.4	61.6	61.0	59.9
77.5°	65.0	68.2	65.4	60.4	54.7	49.9	47.1	45.3	44.9	43.8	44.3
80°	49.7	51.7	49.1	45.6	41.2	37.9	35.9	34.9	33.7	33.2	34.0
82.5°	35.7	36.6	35.2	32.9	29.6	27.5	26.1	24.9	24.6	24.7	24.7
85°	18.5	18.3	18.2	16.1	15.1	13.7	12.8	12.7	12.4	12.8	13.3
87.5°	8.1	8.3	7.2	6.6	6.0	5.3	4.8	4.4	4.8	5.3	5.7
90°	9.4	9.4	5.4	5.4	4.7	4.0	2.0	0.7	2.0	4.0	4.7
92.5°	136.0	83.8	49.5	35.6	25.7	17.5	11.2	7.7	11.2	17.5	25.7
95°	253.1	142.8	84.1	55.9	39.7	31.0	24.2	22.2	24.2	31.0	39.7
97.5°	227.6	136.4	91.3	67.6	53.7	45.6	39.9	39.9	39.9	45.6	53.7
100°	214.1	138.0	98.3	76.7	64.0	55.9	51.1	51.1	51.1	55.9	64.0
102.5°	210.3	143.4	107.5	87.0	74.7	67.2	63.0	61.9	63.0	67.2	74.7
105°	212.1	156.2	123.9	104.4	92.2	84.1	80.8	78.8	80.8	84.1	92.2
107.5°	222.1	171.2	141.5	122.3	110.6	102.0	98.7	97.4	98.7	102.0	110.6
110°	229.5	182.4	152.8	134.7	122.5	114.4	111.1	109.8	111.1	114.4	122.5



TEST NUMBER: P332510-935

CATALOG NUMBER: SA4XXDIP-C350D810U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	237.6	193.2	164.7	146.5	134.4	126.8	123.0	121.6	123.0	126.8	134.4
115°	250.5	210.1	183.1	165.0	152.1	145.4	140.7	138.7	140.7	145.4	152.1
117.5°	263.5	226.4	200.8	181.9	170.0	162.6	158.3	156.4	158.3	162.6	170.0
120°	272.7	237.6	212.1	193.2	181.8	174.4	169.6	168.3	169.6	174.4	181.8
122.5°	281.3	248.4	222.8	204.5	192.0	185.1	180.5	179.1	180.5	185.1	192.0
125°	294.2	263.2	239.0	220.2	207.3	199.9	195.9	193.2	195.9	199.9	207.3
127.5°	305.4	277.0	253.6	234.5	221.2	212.8	207.9	205.8	207.9	212.8	221.2
130°	312.4	286.1	263.2	243.7	230.9	220.8	215.4	212.8	215.4	220.8	230.9
132.5°	319.3	293.7	270.8	252.4	238.5	228.9	221.9	219.7	221.9	228.9	238.5
135°	328.6	304.3	282.1	264.6	250.5	239.0	232.3	229.5	232.3	239.0	250.5
137.5°	335.0	312.4	291.6	274.9	260.3	249.3	241.9	239.4	241.9	249.3	260.3
140°	339.3	317.8	297.6	281.4	267.3	255.8	248.4	246.4	248.4	255.8	267.3
142.5°	342.5	322.6	303.0	287.3	273.7	262.9	256.0	253.9	256.0	262.9	273.7
145°	346.0	327.9	310.4	295.6	282.8	273.4	266.6	264.6	266.6	273.4	282.8
147.5°	349.1	333.3	316.8	303.5	292.8	283.2	277.2	276.6	277.2	283.2	292.8
150°	350.8	336.0	321.2	308.3	298.3	290.2	284.8	284.1	284.8	290.2	298.3
152.5°	351.8	338.1	324.9	313.2	304.2	296.6	291.3	291.1	291.3	296.6	304.2
155°	352.8	341.3	329.8	319.8	312.4	305.7	301.6	300.9	301.6	305.7	312.4
157.5°	352.8	343.6	333.9	326.0	319.5	314.3	310.5	310.5	310.5	314.3	319.5
160°	352.8	344.7	336.7	329.2	323.8	319.1	316.4	316.4	316.4	319.1	323.8
162.5°	352.8	345.8	338.2	332.4	327.6	323.4	321.2	321.8	321.2	323.4	327.6
165°	351.5	346.0	340.0	336.0	332.6	329.2	327.9	327.9	327.9	329.2	332.6
167.5°	349.8	345.9	341.5	338.4	336.5	333.9	333.3	333.9	333.3	333.9	336.5
170°	348.7	345.3	342.0	340.0	338.6	336.7	336.0	336.7	336.0	336.7	338.6
172.5°	347.7	344.8	342.5	341.0	340.3	338.8	338.6	339.3	338.6	338.8	340.3
175°	346.0	344.1	342.7	342.7	342.0	341.3	341.3	342.0	341.3	341.3	342.0
177.5°	344.3	343.2	342.7	342.7	342.7	342.2	342.7	343.2	342.7	342.2	342.7
180°	342.7	342.7	342.7	342.7	342.7	342.7	342.7	342.7	342.7	342.7	342.7



TEST NUMBER: P332510-935

CATALOG NUMBER: SA4XXDIP-C350D810U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9
2.5°	482.4	481.0	478.9	476.0	473.5	470.9	470.2	469.2	471.2	469.6	469.1
5°	466.7	462.4	456.8	450.6	446.9	441.6	440.6	438.5	436.4	436.3	434.2
7.5°	449.9	443.6	436.4	430.0	424.0	418.2	414.4	413.6	410.6	408.8	406.8
10°	439.1	431.4	423.0	416.9	410.0	403.9	399.6	397.2	395.1	392.9	390.8
12.5°	426.5	418.2	411.3	404.7	396.5	391.8	384.8	380.6	380.1	380.1	374.9
15°	411.6	403.5	392.9	383.5	379.0	370.1	366.2	361.3	358.3	355.2	352.8
17.5°	394.7	384.5	376.3	365.5	357.0	349.8	344.7	341.8	337.2	332.9	329.8
20°	384.1	373.3	364.5	353.1	343.8	335.0	330.7	326.7	323.2	319.5	316.1
22.5°	373.3	362.1	351.4	340.3	331.6	322.3	318.1	312.6	309.4	307.3	303.8
25°	356.4	344.1	331.9	321.3	312.4	304.2	298.8	294.5	290.8	289.1	286.9
27.5°	337.9	325.8	314.0	302.0	291.8	285.9	281.5	278.3	276.1	274.0	272.9
30°	326.2	313.6	301.0	289.7	280.4	274.5	270.4	268.2	266.6	265.5	264.5
32.5°	314.4	301.9	288.6	278.4	269.9	264.7	261.6	259.3	258.6	258.2	257.8
35°	295.2	282.7	270.4	261.2	253.3	251.2	248.6	247.4	246.9	248.4	249.0
37.5°	276.8	265.1	253.8	245.0	239.7	236.8	235.8	235.9	237.4	238.6	240.0
40°	264.9	253.5	242.9	235.1	230.2	228.4	228.0	229.0	230.7	232.1	233.8
42.5°	253.3	242.1	232.5	225.2	221.8	220.1	220.3	221.4	223.7	225.4	227.8
45°	235.4	226.0	216.6	210.7	207.8	208.3	208.3	210.1	212.3	215.0	217.7
47.5°	218.4	209.0	201.3	196.3	194.8	194.5	195.6	198.0	201.2	204.5	208.2
50°	207.1	198.0	191.3	186.8	185.2	185.8	187.4	189.7	193.6	197.7	201.6
52.5°	195.4	187.3	181.1	176.9	175.7	176.8	178.5	182.0	185.5	189.9	194.5
55°	177.5	170.6	165.7	162.6	162.2	162.8	164.6	168.5	173.4	178.9	183.4
57.5°	159.6	153.8	149.3	147.2	147.4	148.0	151.0	155.6	160.8	166.7	172.5
60°	147.5	142.2	138.5	136.9	137.2	138.4	142.1	146.3	152.8	158.5	164.6
62.5°	136.1	131.5	127.9	126.5	126.2	128.9	132.4	136.8	143.4	149.7	156.4
65°	117.8	114.1	111.2	110.5	111.1	113.1	117.6	123.5	129.0	135.7	142.7
67.5°	99.9	96.9	94.9	95.2	96.0	99.0	102.7	107.8	114.1	121.1	127.9
70°	88.4	85.6	83.9	84.1	85.4	89.0	92.3	97.4	104.1	111.2	116.9
72.5°	76.7	74.8	73.4	74.2	75.4	77.9	82.1	87.1	93.1	99.7	105.7
75°	58.9	58.9	58.1	58.7	60.5	62.9	66.0	71.3	77.2	82.6	87.4
77.5°	43.7	43.2	43.7	44.5	45.5	48.5	52.0	55.8	60.2	65.5	69.6
80°	33.4	33.7	34.6	35.9	36.2	38.5	42.2	45.6	49.1	53.6	57.4
82.5°	25.1	25.3	25.8	27.4	27.8	30.2	32.5	36.0	39.2	42.2	45.4
85°	13.7	13.7	14.6	15.3	16.3	17.9	19.4	21.4	24.3	26.3	29.4
87.5°	6.3	6.3	7.7	8.1	8.9	9.9	10.1	12.1	12.8	13.8	15.2
90°	5.4	5.4	9.4	9.4	10.8	12.1	11.5	12.1	12.8	13.4	13.4
92.5°	35.6	49.5	83.8	136.0	186.9	213.5	177.9	132.2	99.5	79.2	65.7
95°	55.9	84.1	142.8	253.1	414.1	548.7	564.2	498.9	394.5	304.3	239.0
97.5°	67.6	91.3	136.4	227.6	387.5	577.9	708.8	737.0	698.3	632.4	562.1
100°	76.7	98.3	138.0	214.1	351.5	541.3	713.6	811.9	825.4	792.4	742.6
102.5°	87.0	107.5	143.4	210.3	327.2	495.5	673.2	808.1	874.9	884.5	863.8
105°	104.4	123.9	156.2	212.1	306.3	441.6	599.9	754.1	870.5	937.1	964.8
107.5°	122.3	141.5	171.2	222.1	302.6	411.5	540.6	677.2	801.2	895.0	955.0
110°	134.7	152.8	182.4	229.5	303.6	401.2	511.0	630.9	747.3	844.9	918.9



TEST NUMBER: P332510-935

CATALOG NUMBER: SA4XXDIP-C350D810U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	146.5	164.7	193.2	237.6	306.9	396.4	494.3	596.9	699.9	792.1	866.2
115°	165.0	183.1	210.1	250.5	313.1	393.8	478.6	562.8	645.7	724.4	789.0
117.5°	181.9	200.8	226.4	263.5	319.7	393.1	471.7	546.1	614.7	676.6	731.4
120°	193.2	212.1	237.6	272.7	324.5	393.1	467.9	538.6	601.2	655.0	702.8
122.5°	204.5	222.8	248.4	281.3	329.3	392.6	463.6	532.1	592.5	641.6	683.5
125°	220.2	239.0	263.2	294.2	336.7	391.8	456.4	521.1	579.0	625.4	662.5
127.5°	234.5	253.6	277.0	305.4	342.4	390.4	446.9	507.6	562.9	609.2	644.5
130°	243.7	263.2	286.1	312.4	346.7	389.8	441.0	496.9	550.0	595.8	631.5
132.5°	252.4	270.8	293.7	319.3	350.5	389.3	435.6	485.5	535.5	580.2	615.9
135°	264.6	282.1	304.3	328.6	356.1	388.5	427.5	469.9	513.7	554.7	588.4
137.5°	274.9	291.6	312.4	335.0	359.5	388.3	420.5	455.8	492.8	527.4	557.8
140°	281.4	297.6	317.8	339.3	362.2	387.8	416.7	447.7	479.3	509.6	538.0
142.5°	287.3	303.0	322.6	342.5	364.4	387.8	413.5	440.1	468.0	494.0	518.5
145°	295.6	310.4	327.9	346.0	365.6	386.4	407.9	429.6	452.5	472.6	491.5
147.5°	303.5	316.8	333.3	349.1	366.3	384.0	403.0	420.8	438.9	455.1	469.9
150°	308.3	321.2	336.0	350.8	366.3	382.4	399.2	415.3	430.8	444.4	456.4
152.5°	313.2	324.9	338.1	351.8	365.2	379.7	394.9	409.5	422.8	435.1	445.1
155°	319.8	329.8	341.3	352.8	363.5	375.7	388.5	400.5	411.4	421.5	429.6
157.5°	326.0	333.9	343.6	352.8	361.8	371.5	381.9	391.0	400.0	408.5	415.0
160°	329.2	336.7	344.7	352.8	360.2	368.2	377.0	385.1	392.5	399.9	405.3
162.5°	332.4	338.2	345.8	352.8	358.6	365.1	372.7	379.2	385.5	391.3	396.1
165°	336.0	340.0	346.0	351.5	355.5	360.2	365.6	370.9	375.0	379.7	383.1
167.5°	338.4	341.5	345.9	349.8	352.2	355.3	359.1	363.0	366.1	369.9	371.9
170°	340.0	342.0	345.3	348.7	350.1	352.1	354.8	358.2	360.2	362.9	364.9
172.5°	341.0	342.5	344.8	347.7	347.9	348.9	351.0	353.9	355.3	357.0	358.4
175°	342.7	342.7	344.1	346.0	345.3	345.3	346.7	348.1	348.7	350.1	350.1
177.5°	342.7	342.7	343.2	344.3	343.2	343.2	343.7	344.3	344.8	344.8	345.3
180°	342.7	342.7	342.7	342.7	342.7	342.7	342.7	342.7	342.7	342.7	342.7



TEST NUMBER: P332510-935

CATALOG NUMBER: SA4XXDIP-C350D810U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9
2.5°	468.7	468.5	467.3	467.1	467.3	468.5	468.7	469.1	469.6	471.2	469.2
5°	433.0	432.0	431.4	433.6	431.4	432.0	433.0	434.2	436.3	436.4	438.5
7.5°	406.0	405.3	403.5	402.9	403.5	405.3	406.0	406.8	408.8	410.6	413.6
10°	388.8	388.0	386.3	385.9	386.3	388.0	388.8	390.8	392.9	395.1	397.2
12.5°	372.1	370.6	370.2	370.7	370.2	370.6	372.1	374.9	380.1	380.1	380.6
15°	350.1	349.2	347.0	347.7	347.0	349.2	350.1	352.8	355.2	358.3	361.3
17.5°	328.3	327.4	324.6	327.0	324.6	327.4	328.3	329.8	332.9	337.2	341.8
20°	314.6	313.0	311.6	311.3	311.6	313.0	314.6	316.1	319.5	323.2	326.7
22.5°	301.6	300.1	300.0	298.7	300.0	300.1	301.6	303.8	307.3	309.4	312.6
25°	285.2	283.9	283.4	282.4	283.4	283.9	285.2	286.9	289.1	290.8	294.5
27.5°	272.8	272.1	271.3	271.6	271.3	272.1	272.8	272.9	274.0	276.1	278.3
30°	265.1	264.9	264.5	264.5	264.5	264.9	265.1	264.5	265.5	266.6	268.2
32.5°	258.7	258.7	259.0	259.0	259.0	258.7	258.7	257.8	258.2	258.6	259.3
35°	249.9	250.5	250.8	250.2	250.8	250.5	249.9	249.0	248.4	246.9	247.4
37.5°	241.8	242.4	243.0	243.7	243.0	242.4	241.8	240.0	238.6	237.4	235.9
40°	235.6	236.9	237.4	238.4	237.4	236.9	235.6	233.8	232.1	230.7	229.0
42.5°	229.7	231.3	232.3	232.6	232.3	231.3	229.7	227.8	225.4	223.7	221.4
45°	220.7	222.3	223.8	223.8	223.8	222.3	220.7	217.7	215.0	212.3	210.1
47.5°	211.4	213.7	215.2	215.5	215.2	213.7	211.4	208.2	204.5	201.2	198.0
50°	205.0	207.8	209.3	210.3	209.3	207.8	205.0	201.6	197.7	193.6	189.7
52.5°	198.8	201.6	203.5	204.1	203.5	201.6	198.8	194.5	189.9	185.5	182.0
55°	188.0	192.2	194.4	195.2	194.4	192.2	188.0	183.4	178.9	173.4	168.5
57.5°	178.0	181.8	184.3	184.9	184.3	181.8	178.0	172.5	166.7	160.8	155.6
60°	170.1	174.3	177.5	178.1	177.5	174.3	170.1	164.6	158.5	152.8	146.3
62.5°	162.1	166.4	169.4	170.9	169.4	166.4	162.1	156.4	149.7	143.4	136.8
65°	148.4	152.7	155.5	156.1	155.5	152.7	148.4	142.7	135.7	129.0	123.5
67.5°	133.3	137.6	139.4	140.6	139.4	137.6	133.3	127.9	121.1	114.1	107.8
70°	122.7	126.1	128.2	129.2	128.2	126.1	122.7	116.9	111.2	104.1	97.4
72.5°	110.6	114.3	116.6	116.8	116.6	114.3	110.6	105.7	99.7	93.1	87.1
75°	92.1	95.4	96.6	96.6	96.6	95.4	92.1	87.4	82.6	77.2	71.3
77.5°	72.9	74.6	76.1	76.5	76.1	74.6	72.9	69.6	65.5	60.2	55.8
80°	60.5	61.6	62.8	62.8	62.8	61.6	60.5	57.4	53.6	49.1	45.6
82.5°	47.8	48.6	49.9	49.7	49.9	48.6	47.8	45.4	42.2	39.2	36.0
85°	28.9	30.7	30.6	30.1	30.6	30.7	28.9	29.4	26.3	24.3	21.4
87.5°	15.8	16.2	16.5	16.9	16.5	16.2	15.8	15.2	13.8	12.8	12.1
90°	14.1	14.8	14.1	14.1	14.1	14.8	14.1	13.4	13.4	12.8	12.1
92.5°	57.8	54.2	51.8	51.8	51.8	54.2	57.8	65.7	79.2	99.5	132.2
95°	206.0	185.1	173.1	164.3	173.1	185.1	206.0	239.0	304.3	394.5	498.9
97.5°	513.8	473.3	453.1	439.1	453.1	473.3	513.8	562.1	632.4	698.3	737.0
100°	684.0	642.9	622.8	617.3	622.8	642.9	684.0	742.6	792.4	825.4	811.9
102.5°	827.9	798.1	776.8	772.5	776.8	798.1	827.9	863.8	884.5	874.9	808.1
105°	966.1	960.7	951.3	947.3	951.3	960.7	966.1	964.8	937.1	870.5	754.1
107.5°	988.3	1003.7	1010.4	1012.1	1010.4	1003.7	988.3	955.0	895.0	801.2	677.2
110°	966.7	995.1	1007.2	1013.2	1007.2	995.1	966.7	918.9	844.9	747.3	630.9



TEST NUMBER: P332510-935

CATALOG NUMBER: SA4XXDIP-C350D810U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	920.4	954.7	971.6	981.5	971.6	954.7	920.4	866.2	792.1	699.9	596.9
115°	842.2	882.6	904.1	909.6	904.1	882.6	842.2	789.0	724.4	645.7	562.8
117.5°	776.8	810.7	832.5	836.7	832.5	810.7	776.8	731.4	676.6	614.7	546.1
120°	741.2	770.9	788.3	795.7	788.3	770.9	741.2	702.8	655.0	601.2	538.6
122.5°	715.9	741.2	756.0	763.4	756.0	741.2	715.9	683.5	641.6	592.5	532.1
125°	689.4	708.9	721.7	725.7	721.7	708.9	689.4	662.5	625.4	579.0	521.1
127.5°	671.5	688.9	699.6	703.7	699.6	688.9	671.5	644.5	609.2	562.9	507.6
130°	659.1	676.0	686.7	690.8	686.7	676.0	659.1	631.5	595.8	550.0	496.9
132.5°	642.9	661.9	672.2	676.2	672.2	661.9	642.9	615.9	580.2	535.5	485.5
135°	615.4	634.2	645.0	649.0	645.0	634.2	615.4	588.4	554.7	513.7	469.9
137.5°	583.0	601.6	610.4	615.4	610.4	601.6	583.0	557.8	527.4	492.8	455.8
140°	561.5	576.3	585.7	591.1	585.7	576.3	561.5	538.0	509.6	479.3	447.7
142.5°	539.4	553.1	561.5	565.2	561.5	553.1	539.4	518.5	494.0	468.0	440.1
145°	508.3	519.7	526.5	529.9	526.5	519.7	508.3	491.5	472.6	452.5	429.6
147.5°	482.3	492.1	497.2	498.4	497.2	492.1	482.3	469.9	455.1	438.9	420.8
150°	467.3	476.0	480.0	480.7	480.0	476.0	467.3	456.4	444.4	430.8	415.3
152.5°	454.3	461.4	463.8	464.5	463.8	461.4	454.3	445.1	435.1	422.8	409.5
155°	436.3	441.6	443.7	443.7	443.7	441.6	436.3	429.6	421.5	411.4	400.5
157.5°	420.1	424.1	425.3	425.3	425.3	424.1	420.1	415.0	408.5	400.0	391.0
160°	409.3	413.4	414.1	414.1	414.1	413.4	409.3	405.3	399.9	392.5	385.1
162.5°	399.1	403.1	403.8	403.3	403.8	403.1	399.1	396.1	391.3	385.5	379.2
165°	385.7	388.5	387.8	387.1	387.8	388.5	385.7	383.1	379.7	375.0	370.9
167.5°	373.2	375.0	374.9	374.3	374.9	375.0	373.2	371.9	369.9	366.1	363.0
170°	366.3	366.9	366.3	366.3	366.3	366.9	366.3	364.9	362.9	360.2	358.2
172.5°	359.2	359.9	359.2	358.2	359.2	359.9	359.2	358.4	357.0	355.3	353.9
175°	350.1	351.5	350.1	348.7	350.1	351.5	350.1	350.1	350.1	348.7	348.1
177.5°	344.8	345.3	344.3	343.2	344.3	345.3	344.8	345.3	344.8	344.8	344.3
180°	342.7	342.7	342.7	342.7	342.7	342.7	342.7	342.7	342.7	342.7	342.7



TEST NUMBER: P332510-935

CATALOG NUMBER: SA4XXDIP-C350D810U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9
2.5°	470.2	470.9	473.5	476.0	478.9	481.0	482.4	484.1	487.5	490.3	492.9
5°	440.6	441.6	446.9	450.6	456.8	462.4	466.7	471.3	476.8	484.4	491.3
7.5°	414.4	418.2	424.0	430.0	436.4	443.6	449.9	456.9	466.4	476.8	487.5
10°	399.6	403.9	410.0	416.9	423.0	431.4	439.1	447.5	458.3	470.9	483.5
12.5°	384.8	391.8	396.5	404.7	411.3	418.2	426.5	437.4	450.0	463.2	478.5
15°	366.2	370.1	379.0	383.5	392.9	403.5	411.6	422.6	434.8	452.4	469.5
17.5°	344.7	349.8	357.0	365.5	376.3	384.5	394.7	406.0	421.5	438.9	460.3
20°	330.7	335.0	343.8	353.1	364.5	373.3	384.1	395.1	411.0	429.6	451.9
22.5°	318.1	322.3	331.6	340.3	351.4	362.1	373.3	386.2	401.4	420.9	443.8
25°	298.8	304.2	312.4	321.3	331.9	344.1	356.4	367.8	384.1	404.7	429.1
27.5°	281.5	285.9	291.8	302.0	314.0	325.8	337.9	352.3	368.0	389.8	415.1
30°	270.4	274.5	280.4	289.7	301.0	313.6	326.2	340.1	356.4	378.0	403.9
32.5°	261.6	264.7	269.9	278.4	288.6	301.9	314.4	328.6	345.8	367.0	392.3
35°	248.6	251.2	253.3	261.2	270.4	282.7	295.2	310.6	327.1	347.2	372.5
37.5°	235.8	236.8	239.7	245.0	253.8	265.1	276.8	291.9	308.8	329.2	352.1
40°	228.0	228.4	230.2	235.1	242.9	253.5	264.9	279.7	295.8	315.2	337.9
42.5°	220.3	220.1	221.8	225.2	232.5	242.1	253.3	266.9	283.0	300.9	322.2
45°	208.3	208.3	207.8	210.7	216.6	226.0	235.4	248.4	261.8	279.4	297.3
47.5°	195.6	194.5	194.8	196.3	201.3	209.0	218.4	229.1	241.0	255.8	271.6
50°	187.4	185.8	185.2	186.8	191.3	198.0	207.1	216.4	227.6	240.6	254.1
52.5°	178.5	176.8	175.7	176.9	181.1	187.3	195.4	203.7	213.8	224.4	236.0
55°	164.6	162.8	162.2	162.6	165.7	170.6	177.5	185.0	192.6	201.3	209.5
57.5°	151.0	148.0	147.4	147.2	149.3	153.8	159.6	166.1	171.6	176.9	185.6
60°	142.1	138.4	137.2	136.9	138.5	142.2	147.5	154.0	157.9	161.6	169.1
62.5°	132.4	128.9	126.2	126.5	127.9	131.5	136.1	140.9	143.4	147.4	152.5
65°	117.6	113.1	111.1	110.5	111.2	114.1	117.8	120.8	123.7	125.4	130.2
67.5°	102.7	99.0	96.0	95.2	94.9	96.9	99.9	101.7	103.8	105.1	108.1
70°	92.3	89.0	85.4	84.1	83.9	85.6	88.4	88.7	91.5	92.1	95.1
72.5°	82.1	77.9	75.4	74.2	73.4	74.8	76.7	77.2	78.8	79.9	81.5
75°	66.0	62.9	60.5	58.7	58.1	58.9	58.9	59.9	61.0	61.6	63.4
77.5°	52.0	48.5	45.5	44.5	43.7	43.2	43.7	44.3	43.8	44.9	45.3
80°	42.2	38.5	36.2	35.9	34.6	33.7	33.4	34.0	33.2	33.7	34.9
82.5°	32.5	30.2	27.8	27.4	25.8	25.3	25.1	24.7	24.7	24.6	24.9
85°	19.4	17.9	16.3	15.3	14.6	13.7	13.7	13.3	12.8	12.4	12.7
87.5°	10.1	9.9	8.9	8.1	7.7	6.3	6.3	5.7	5.3	4.8	4.4
90°	11.5	12.1	10.8	9.4	9.4	5.4	5.4	4.7	4.0	2.0	0.7
92.5°	177.9	213.5	186.9	136.0	83.8	49.5	35.6	25.7	17.5	11.2	7.7
95°	564.2	548.7	414.1	253.1	142.8	84.1	55.9	39.7	31.0	24.2	22.2
97.5°	708.8	577.9	387.5	227.6	136.4	91.3	67.6	53.7	45.6	39.9	39.9
100°	713.6	541.3	351.5	214.1	138.0	98.3	76.7	64.0	55.9	51.1	51.1
102.5°	673.2	495.5	327.2	210.3	143.4	107.5	87.0	74.7	67.2	63.0	61.9
105°	599.9	441.6	306.3	212.1	156.2	123.9	104.4	92.2	84.1	80.8	78.8
107.5°	540.6	411.5	302.6	222.1	171.2	141.5	122.3	110.6	102.0	98.7	97.4
110°	511.0	401.2	303.6	229.5	182.4	152.8	134.7	122.5	114.4	111.1	109.8



TEST NUMBER: P332510-935

CATALOG NUMBER: SA4XXDIP-C350D810U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	494.3	396.4	306.9	237.6	193.2	164.7	146.5	134.4	126.8	123.0	121.6
115°	478.6	393.8	313.1	250.5	210.1	183.1	165.0	152.1	145.4	140.7	138.7
117.5°	471.7	393.1	319.7	263.5	226.4	200.8	181.9	170.0	162.6	158.3	156.4
120°	467.9	393.1	324.5	272.7	237.6	212.1	193.2	181.8	174.4	169.6	168.3
122.5°	463.6	392.6	329.3	281.3	248.4	222.8	204.5	192.0	185.1	180.5	179.1
125°	456.4	391.8	336.7	294.2	263.2	239.0	220.2	207.3	199.9	195.9	193.2
127.5°	446.9	390.4	342.4	305.4	277.0	253.6	234.5	221.2	212.8	207.9	205.8
130°	441.0	389.8	346.7	312.4	286.1	263.2	243.7	230.9	220.8	215.4	212.8
132.5°	435.6	389.3	350.5	319.3	293.7	270.8	252.4	238.5	228.9	221.9	219.7
135°	427.5	388.5	356.1	328.6	304.3	282.1	264.6	250.5	239.0	232.3	229.5
137.5°	420.5	388.3	359.5	335.0	312.4	291.6	274.9	260.3	249.3	241.9	239.4
140°	416.7	387.8	362.2	339.3	317.8	297.6	281.4	267.3	255.8	248.4	246.4
142.5°	413.5	387.8	364.4	342.5	322.6	303.0	287.3	273.7	262.9	256.0	253.9
145°	407.9	386.4	365.6	346.0	327.9	310.4	295.6	282.8	273.4	266.6	264.6
147.5°	403.0	384.0	366.3	349.1	333.3	316.8	303.5	292.8	283.2	277.2	276.6
150°	399.2	382.4	366.3	350.8	336.0	321.2	308.3	298.3	290.2	284.8	284.1
152.5°	394.9	379.7	365.2	351.8	338.1	324.9	313.2	304.2	296.6	291.3	291.1
155°	388.5	375.7	363.5	352.8	341.3	329.8	319.8	312.4	305.7	301.6	300.9
157.5°	381.9	371.5	361.8	352.8	343.6	333.9	326.0	319.5	314.3	310.5	310.5
160°	377.0	368.2	360.2	352.8	344.7	336.7	329.2	323.8	319.1	316.4	316.4
162.5°	372.7	365.1	358.6	352.8	345.8	338.2	332.4	327.6	323.4	321.2	321.8
165°	365.6	360.2	355.5	351.5	346.0	340.0	336.0	332.6	329.2	327.9	327.9
167.5°	359.1	355.3	352.2	349.8	345.9	341.5	338.4	336.5	333.9	333.3	333.9
170°	354.8	352.1	350.1	348.7	345.3	342.0	340.0	338.6	336.7	336.0	336.7
172.5°	351.0	348.9	347.9	347.7	344.8	342.5	341.0	340.3	338.8	338.6	339.3
175°	346.7	345.3	345.3	346.0	344.1	342.7	342.7	342.0	341.3	341.3	342.0
177.5°	343.7	343.2	343.2	344.3	343.2	342.7	342.7	342.7	342.2	342.7	343.2
180°	342.7	342.7	342.7	342.7	342.7	342.7	342.7	342.7	342.7	342.7	342.7



TEST NUMBER: P332510-935
 CATALOG NUMBER: SA4XXDIP-C350D810U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9
2.5°	495.2	496.8	498.9	502.5	503.8	505.4	507.7	507.6	508.2	510.7	515.8
5°	497.0	503.3	509.5	516.8	524.5	529.6	536.5	540.8	545.1	550.6	560.0
7.5°	497.7	507.7	518.9	531.8	543.3	556.5	566.8	576.5	585.3	596.8	608.0
10°	496.6	510.1	524.5	540.8	558.1	572.8	586.1	601.2	614.0	628.0	640.7
12.5°	494.5	510.7	530.0	548.3	568.5	590.2	606.7	622.0	639.0	655.2	674.8
15°	489.7	511.9	534.5	558.5	585.7	610.7	634.6	654.3	672.6	696.9	722.4
17.5°	483.5	507.5	536.1	565.2	593.5	622.1	651.6	681.3	704.5	734.6	754.5
20°	477.9	505.6	534.9	569.6	597.9	633.5	662.9	691.6	723.4	753.4	777.2
22.5°	469.8	500.2	531.3	565.8	603.0	638.8	672.6	703.8	735.6	768.2	797.0
25°	459.7	487.2	524.1	563.2	600.3	639.0	678.0	717.0	751.3	785.7	812.6
27.5°	442.5	477.2	511.5	551.9	593.1	636.9	678.6	719.5	755.4	783.7	800.3
30°	433.6	463.8	501.1	541.7	586.3	633.4	676.7	716.9	750.3	772.9	779.6
32.5°	420.6	451.7	488.2	530.2	577.5	625.9	671.0	708.9	736.8	748.6	740.5
35°	401.2	429.4	466.2	509.2	558.4	609.8	654.5	686.5	700.8	689.6	661.7
37.5°	378.0	405.9	442.9	485.2	536.0	588.4	628.7	651.8	647.0	619.1	577.6
40°	361.7	387.8	423.0	468.6	518.1	570.8	606.2	618.6	605.6	565.7	521.4
42.5°	343.6	369.0	404.4	448.5	500.9	549.4	580.3	581.3	559.5	511.7	467.4
45°	316.1	340.3	373.7	419.6	468.0	513.7	534.1	524.1	483.7	437.7	393.0
47.5°	288.9	309.9	342.9	386.3	432.4	470.8	481.0	463.0	420.0	375.2	333.9
50°	269.0	290.2	321.2	362.7	407.2	440.3	445.2	421.4	379.2	334.2	301.8
52.5°	249.9	271.0	300.7	339.2	379.9	409.8	410.0	382.5	340.4	300.3	270.2
55°	221.9	240.8	267.8	302.2	338.5	361.9	356.2	327.7	291.2	256.3	230.1
57.5°	194.9	211.5	236.2	264.9	296.9	316.2	306.8	279.3	246.8	217.1	197.3
60°	177.5	193.2	214.4	241.5	268.4	283.4	274.5	249.6	219.6	195.8	178.5
62.5°	160.5	173.7	194.2	217.7	242.6	253.7	245.8	221.3	195.4	173.8	159.7
65°	136.6	147.3	163.6	183.8	201.9	211.5	204.8	181.9	162.2	146.7	135.5
67.5°	114.1	122.5	134.9	151.1	166.5	171.7	165.6	149.6	132.9	120.5	112.6
70°	98.6	106.6	116.9	129.4	142.8	148.4	142.2	129.6	116.0	104.5	96.8
72.5°	85.1	91.3	100.0	110.6	121.1	126.7	122.5	110.4	98.8	90.3	83.8
75°	64.8	70.1	76.2	83.8	91.9	95.6	91.9	83.5	75.6	69.3	64.6
77.5°	47.1	49.9	54.7	60.4	65.4	68.2	65.0	59.4	54.5	50.2	47.9
80°	35.9	37.9	41.2	45.6	49.1	51.7	49.7	45.0	41.2	38.3	37.3
82.5°	26.1	27.5	29.6	32.9	35.2	36.6	35.7	32.3	30.7	28.2	27.2
85°	12.8	13.7	15.1	16.1	18.2	18.3	18.5	17.1	15.7	15.1	14.3
87.5°	4.8	5.3	6.0	6.6	7.2	8.3	8.1	8.4	8.0	7.7	7.1
90°	2.0	4.0	4.7	5.4	5.4	9.4	9.4	10.8	12.1	11.5	12.1
92.5°	11.2	17.5	25.7	35.6	49.5	83.8	136.0	186.9	213.5	177.9	132.2
95°	24.2	31.0	39.7	55.9	84.1	142.8	253.1	414.1	548.7	564.2	498.9
97.5°	39.9	45.6	53.7	67.6	91.3	136.4	227.6	387.5	577.9	708.8	737.0
100°	51.1	55.9	64.0	76.7	98.3	138.0	214.1	351.5	541.3	713.6	811.9
102.5°	63.0	67.2	74.7	87.0	107.5	143.4	210.3	327.2	495.5	673.2	808.1
105°	80.8	84.1	92.2	104.4	123.9	156.2	212.1	306.3	441.6	599.9	754.1
107.5°	98.7	102.0	110.6	122.3	141.5	171.2	222.1	302.6	411.5	540.6	677.2
110°	111.1	114.4	122.5	134.7	152.8	182.4	229.5	303.6	401.2	511.0	630.9



TEST NUMBER: P332510-935

CATALOG NUMBER: SA4XXDIP-C350D810U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	123.0	126.8	134.4	146.5	164.7	193.2	237.6	306.9	396.4	494.3	596.9
115°	140.7	145.4	152.1	165.0	183.1	210.1	250.5	313.1	393.8	478.6	562.8
117.5°	158.3	162.6	170.0	181.9	200.8	226.4	263.5	319.7	393.1	471.7	546.1
120°	169.6	174.4	181.8	193.2	212.1	237.6	272.7	324.5	393.1	467.9	538.6
122.5°	180.5	185.1	192.0	204.5	222.8	248.4	281.3	329.3	392.6	463.6	532.1
125°	195.9	199.9	207.3	220.2	239.0	263.2	294.2	336.7	391.8	456.4	521.1
127.5°	207.9	212.8	221.2	234.5	253.6	277.0	305.4	342.4	390.4	446.9	507.6
130°	215.4	220.8	230.9	243.7	263.2	286.1	312.4	346.7	389.8	441.0	496.9
132.5°	221.9	228.9	238.5	252.4	270.8	293.7	319.3	350.5	389.3	435.6	485.5
135°	232.3	239.0	250.5	264.6	282.1	304.3	328.6	356.1	388.5	427.5	469.9
137.5°	241.9	249.3	260.3	274.9	291.6	312.4	335.0	359.5	388.3	420.5	455.8
140°	248.4	255.8	267.3	281.4	297.6	317.8	339.3	362.2	387.8	416.7	447.7
142.5°	256.0	262.9	273.7	287.3	303.0	322.6	342.5	364.4	387.8	413.5	440.1
145°	266.6	273.4	282.8	295.6	310.4	327.9	346.0	365.6	386.4	407.9	429.6
147.5°	277.2	283.2	292.8	303.5	316.8	333.3	349.1	366.3	384.0	403.0	420.8
150°	284.8	290.2	298.3	308.3	321.2	336.0	350.8	366.3	382.4	399.2	415.3
152.5°	291.3	296.6	304.2	313.2	324.9	338.1	351.8	365.2	379.7	394.9	409.5
155°	301.6	305.7	312.4	319.8	329.8	341.3	352.8	363.5	375.7	388.5	400.5
157.5°	310.5	314.3	319.5	326.0	333.9	343.6	352.8	361.8	371.5	381.9	391.0
160°	316.4	319.1	323.8	329.2	336.7	344.7	352.8	360.2	368.2	377.0	385.1
162.5°	321.2	323.4	327.6	332.4	338.2	345.8	352.8	358.6	365.1	372.7	379.2
165°	327.9	329.2	332.6	336.0	340.0	346.0	351.5	355.5	360.2	365.6	370.9
167.5°	333.3	333.9	336.5	338.4	341.5	345.9	349.8	352.2	355.3	359.1	363.0
170°	336.0	336.7	338.6	340.0	342.0	345.3	348.7	350.1	352.1	354.8	358.2
172.5°	338.6	338.8	340.3	341.0	342.5	344.8	347.7	347.9	348.9	351.0	353.9
175°	341.3	341.3	342.0	342.7	342.7	344.1	346.0	345.3	345.3	346.7	348.1
177.5°	342.7	342.2	342.7	342.7	342.7	343.2	344.3	343.2	343.2	343.7	344.3
180°	342.7	342.7	342.7	342.7	342.7	342.7	342.7	342.7	342.7	342.7	342.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	491.9	491.9	491.9	491.9	491.9	491.9	491.9
2.5°	518.5	518.8	520.3	521.4	521.8	523.4	523.5
5°	564.0	567.5	574.2	574.8	575.8	581.2	577.0
7.5°	617.4	626.2	632.1	637.3	639.1	641.4	641.0
10°	651.7	664.7	671.2	681.7	682.0	684.7	683.0
12.5°	686.0	701.2	713.1	715.1	723.8	725.1	727.4
15°	734.8	750.9	767.4	773.4	785.3	788.2	792.6
17.5°	780.6	797.0	808.7	823.9	828.9	835.4	831.0
20°	805.7	823.6	838.4	850.3	855.4	859.1	858.7
22.5°	820.9	839.0	850.8	860.0	864.7	866.3	866.2
25°	830.3	840.8	844.5	847.9	842.6	840.8	841.5
27.5°	803.9	801.2	791.7	779.1	766.1	755.8	750.1
30°	767.6	751.7	737.3	712.0	699.0	691.2	684.2
32.5°	716.1	690.9	663.1	639.9	625.1	613.6	611.9
35°	627.8	590.0	555.9	527.5	512.9	500.5	497.6
37.5°	533.7	494.4	463.7	438.8	423.0	414.2	406.0
40°	471.3	437.5	407.3	386.2	374.1	367.8	362.7
42.5°	423.3	392.4	362.3	346.2	335.4	331.5	328.5
45°	356.8	328.0	307.3	295.1	288.8	282.2	279.1
47.5°	303.6	280.3	266.6	256.1	249.3	245.5	243.6
50°	273.5	254.3	242.1	234.1	228.0	225.0	223.3
52.5°	246.8	231.0	220.8	214.4	210.3	208.0	207.3
55°	212.5	200.5	194.0	188.5	185.5	183.4	182.6
57.5°	184.8	175.5	170.2	165.7	164.5	162.8	162.2
60°	166.5	159.4	154.9	151.8	150.8	148.8	149.1
62.5°	150.3	144.5	140.7	139.0	137.6	135.9	136.5
65°	127.2	122.9	120.8	119.2	117.6	116.6	117.4
67.5°	106.7	103.8	101.0	100.0	99.3	99.1	98.2
70°	93.3	90.9	88.4	87.8	87.8	87.0	86.8
72.5°	80.4	78.7	77.1	76.5	75.9	76.3	75.4
75°	62.2	60.7	60.1	59.5	59.3	59.3	58.7
77.5°	45.9	44.9	43.9	43.9	43.1	42.9	42.8
80°	34.9	34.4	33.7	33.7	33.2	33.4	33.0
82.5°	26.2	25.7	25.5	25.1	24.5	24.6	24.2
85°	14.0	13.4	13.3	12.7	12.2	12.7	12.2
87.5°	7.5	7.4	7.2	7.1	7.1	6.9	6.4
90°	12.8	13.4	13.4	14.1	14.8	14.1	14.1
92.5°	99.5	79.2	65.7	57.8	54.2	51.8	51.8
95°	394.5	304.3	239.0	206.0	185.1	173.1	164.3
97.5°	698.3	632.4	562.1	513.8	473.3	453.1	439.1
100°	825.4	792.4	742.6	684.0	642.9	622.8	617.3
102.5°	874.9	884.5	863.8	827.9	798.1	776.8	772.5
105°	870.5	937.1	964.8	966.1	960.7	951.3	947.3
107.5°	801.2	895.0	955.0	988.3	1003.7	1010.4	1012.1
110°	747.3	844.9	918.9	966.7	995.1	1007.2	1013.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	699.9	792.1	866.2	920.4	954.7	971.6	981.5
115°	645.7	724.4	789.0	842.2	882.6	904.1	909.6
117.5°	614.7	676.6	731.4	776.8	810.7	832.5	836.7
120°	601.2	655.0	702.8	741.2	770.9	788.3	795.7
122.5°	592.5	641.6	683.5	715.9	741.2	756.0	763.4
125°	579.0	625.4	662.5	689.4	708.9	721.7	725.7
127.5°	562.9	609.2	644.5	671.5	688.9	699.6	703.7
130°	550.0	595.8	631.5	659.1	676.0	686.7	690.8
132.5°	535.5	580.2	615.9	642.9	661.9	672.2	676.2
135°	513.7	554.7	588.4	615.4	634.2	645.0	649.0
137.5°	492.8	527.4	557.8	583.0	601.6	610.4	615.4
140°	479.3	509.6	538.0	561.5	576.3	585.7	591.1
142.5°	468.0	494.0	518.5	539.4	553.1	561.5	565.2
145°	452.5	472.6	491.5	508.3	519.7	526.5	529.9
147.5°	438.9	455.1	469.9	482.3	492.1	497.2	498.4
150°	430.8	444.4	456.4	467.3	476.0	480.0	480.7
152.5°	422.8	435.1	445.1	454.3	461.4	463.8	464.5
155°	411.4	421.5	429.6	436.3	441.6	443.7	443.7
157.5°	400.0	408.5	415.0	420.1	424.1	425.3	425.3
160°	392.5	399.9	405.3	409.3	413.4	414.1	414.1
162.5°	385.5	391.3	396.1	399.1	403.1	403.8	403.3
165°	375.0	379.7	383.1	385.7	388.5	387.8	387.1
167.5°	366.1	369.9	371.9	373.2	375.0	374.9	374.3
170°	360.2	362.9	364.9	366.3	366.9	366.3	366.3
172.5°	355.3	357.0	358.4	359.2	359.9	359.2	358.2
175°	348.7	350.1	350.1	350.1	351.5	350.1	348.7
177.5°	344.8	344.8	345.3	344.8	345.3	344.3	343.2
180°	342.7	342.7	342.7	342.7	342.7	342.7	342.7

(END OF REPORT)