

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: P332878

Luminaire Tested: **SA4XXRDIP-C350D810U835-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332878
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-C350D810U835-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 350 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 810 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

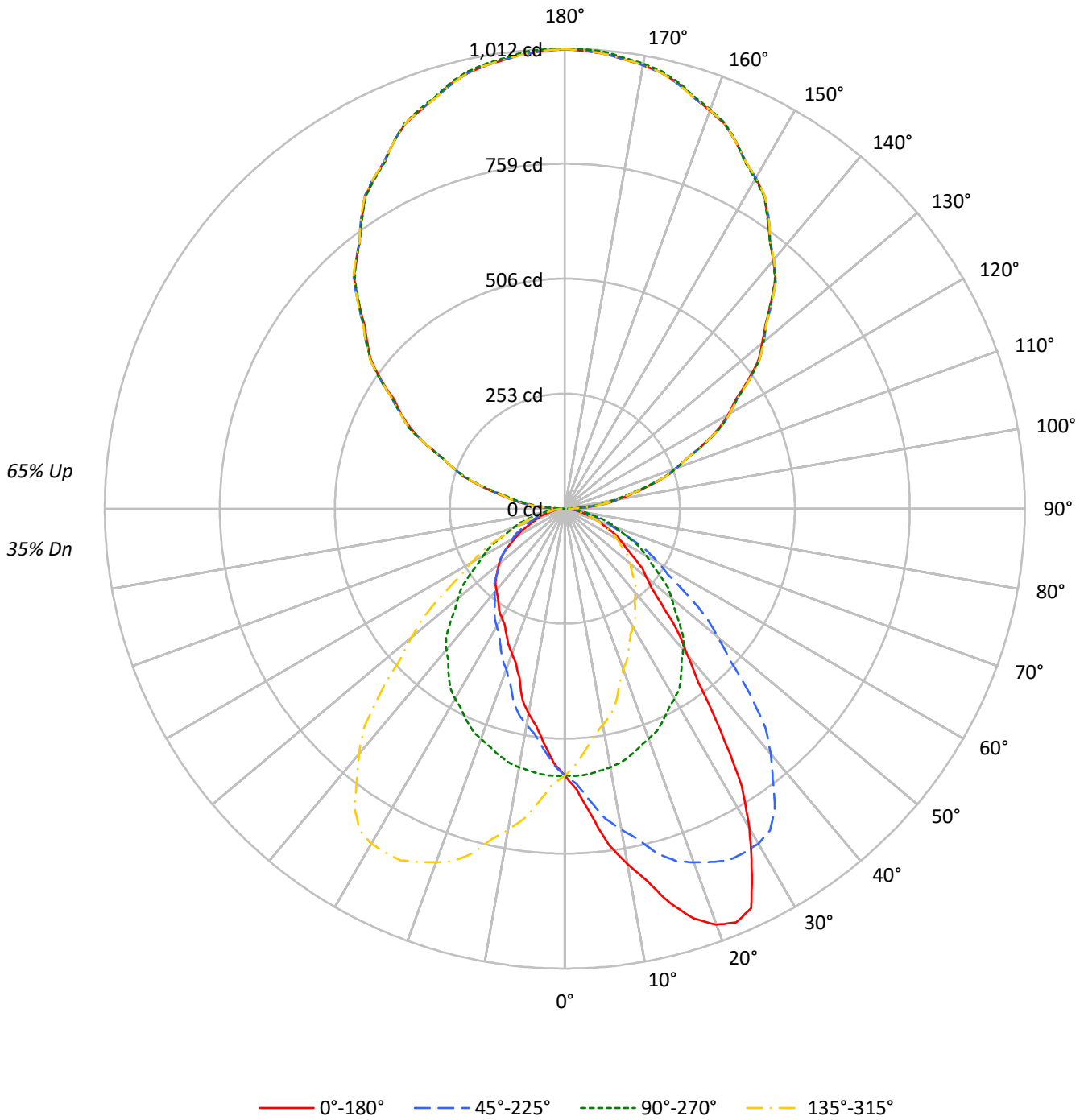
Lumens per Lamp: N/A
Luminaire Lumens: 4292.4 lumens
Efficiency: N/A
Efficacy: 137.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: Semi-Indirect

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



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	103	103	103	103	93	93	93	93	75	75	75	58	58	58	42	42	42	35
1	95	91	87	84	85	82	79	76	66	64	62	51	50	49	38	37	36	30
2	86	79	74	69	78	72	67	63	58	55	52	45	43	41	33	32	31	25
3	79	70	63	58	71	64	58	53	51	47	44	40	37	35	30	28	27	22
4	72	62	55	49	65	56	50	45	46	41	37	36	33	30	27	25	23	19
5	66	55	48	42	60	50	44	39	41	36	32	32	29	26	24	22	20	17
6	61	50	42	36	55	45	38	34	37	32	28	29	26	23	22	20	18	15
7	57	45	37	32	51	41	34	29	34	29	25	27	23	20	20	18	16	13
8	52	41	33	28	47	37	31	26	31	26	22	24	21	18	19	16	14	12
9	49	37	30	25	44	34	28	23	28	23	20	22	19	16	17	15	13	11
10	45	34	27	22	41	31	25	21	26	21	18	21	17	15	16	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4742	4742	4742	4742
5°	5501	4756	4204	4756
10°	6507	4736	3752	4736
15°	7516	4692	3224	4692
20°	8369	4631	2916	4631
25°	8639	4572	2707	4572
30°	7563	4501	2581	4501
35°	5887	4394	2505	4394
40°	4415	4272	2464	4272
45°	3486	4077	2442	4077
50°	2943	3852	2372	3852
55°	2564	3605	2245	3605
60°	2307	3347	1988	3347
65°	2034	3070	1710	3070
70°	1832	2783	1541	2783
75°	1535	2464	1313	2464
80°	1297	2101	1232	2101
85°	1093	1649	1093	1649



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.9	1.3
10°-20°	171.7	4.0
20°-30°	268.5	6.3
30°-40°	298.5	7.0
40°-50°	264.9	6.2
50°-60°	206.4	4.8
60°-70°	135.1	3.1
70°-80°	66.4	1.5
80°-90°	19.4	0.5
90°-100°	66.7	1.6
100°-110°	197.5	4.6
110°-120°	335.2	7.8
120°-130°	442.0	10.3
130°-140°	496.4	11.6
140°-150°	487.8	11.4
150°-160°	410.3	9.6
160°-170°	273.0	6.4
170°-180°	95.6	2.2
0°-30°	497.1	11.6
0°-40°	795.6	18.5
0°-60°	1266.9	29.5
0°-90°	1487.8	34.7
90°-120°	599.4	14.0
90°-150°	2025.7	47.2
90°-180°	2805.0	65.3
0°-180°	4292.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	587	587	587	587	587	
5°	679	587	519	587	679	69
15°	899	561	386	561	899	256
25°	970	513	304	513	970	430
35°	597	446	254	446	597	374
45°	305	357	214	357	305	242
55°	182	256	160	256	182	166
65°	106	161	90	161	106	107
75°	49	79	42	79	49	54
85°	12	18	12	18	12	14
90°	24	2	24	2	24	12
95°	62	47	62	47	62	64
105°	191	182	191	182	191	201
115°	338	341	338	341	338	334
125°	492	496	492	496	492	439
135°	641	640	641	640	641	495
145°	779	778	779	778	779	487
155°	890	891	890	891	890	410
165°	968	970	968	970	968	273
175°	1005	1009	1005	1009	1005	95
180°	1011	1011	1011	1011	1011	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4
2.5°	619.6	621.3	619.6	619.4	617.5	616.9	616.2	613.7	609.2	606.5	607.1
5°	678.8	684.7	681.4	680.9	675.7	670.5	667.2	659.6	651.5	646.1	641.6
7.5°	747.2	750.6	748.5	745.2	736.8	732.0	724.3	714.4	699.9	688.9	678.8
10°	793.8	796.6	795.7	789.5	783.4	770.8	763.7	749.8	731.5	717.1	703.6
12.5°	839.6	842.6	834.3	834.6	822.9	813.0	801.8	784.2	763.2	744.6	727.7
15°	899.3	895.5	895.5	890.8	877.8	864.1	852.5	834.0	807.5	785.3	761.8
17.5°	946.1	947.4	945.5	934.3	924.1	909.9	888.6	867.1	842.5	812.6	788.7
20°	974.1	974.1	972.0	964.4	951.2	936.0	913.1	889.6	858.4	828.3	801.4
22.5°	985.5	986.2	983.7	977.5	965.6	950.8	931.2	907.4	875.2	841.4	808.0
25°	969.9	974.4	974.8	973.2	969.6	960.6	943.8	919.5	890.6	853.9	817.9
27.5°	890.4	896.1	901.1	909.3	920.2	925.8	926.6	914.2	889.0	853.7	817.5
30°	811.3	816.0	831.4	851.5	867.1	881.3	893.7	897.0	882.8	851.1	813.0
32.5°	723.4	729.9	745.3	766.9	792.9	817.0	844.6	858.7	858.3	839.3	804.1
35°	597.3	602.1	616.3	639.0	670.2	706.0	749.8	783.8	807.0	805.4	783.8
37.5°	481.8	487.1	501.4	520.3	550.6	594.8	637.2	684.2	727.0	751.1	743.9
40°	418.9	419.1	433.1	452.5	480.9	519.5	565.6	617.7	665.5	704.6	712.1
42.5°	369.3	369.3	378.6	399.5	419.9	456.2	500.3	552.0	608.0	653.1	673.1
45°	305.3	307.4	315.0	327.5	343.6	374.4	409.7	457.7	520.4	573.9	607.3
47.5°	258.5	261.7	266.5	276.7	289.5	310.0	339.2	382.4	433.4	492.2	539.7
50°	234.3	234.8	240.9	246.6	257.7	274.1	299.6	335.6	382.5	439.0	491.8
52.5°	213.5	213.4	217.1	224.3	233.3	246.0	266.7	299.4	341.0	391.7	446.2
55°	182.2	183.4	186.3	191.9	198.8	207.8	224.1	248.7	281.4	324.7	374.2
57.5°	158.5	159.1	161.3	163.7	170.0	176.6	188.8	205.9	233.4	268.9	315.0
60°	142.9	143.2	143.9	147.4	152.4	158.6	166.9	181.3	204.5	236.9	273.4
62.5°	127.8	128.2	129.3	131.9	135.8	140.0	148.7	160.3	179.5	207.2	240.0
65°	106.5	106.7	108.4	109.3	112.4	116.2	122.6	130.4	143.7	166.9	191.7
67.5°	89.0	89.0	89.1	90.4	92.5	95.0	98.8	105.1	115.1	129.3	151.2
70°	77.6	77.6	78.1	78.8	80.0	82.1	84.3	89.0	96.3	107.9	124.7
72.5°	67.0	67.2	67.7	67.8	68.4	70.2	71.8	74.8	80.2	89.0	102.6
75°	49.2	49.9	51.1	52.1	53.3	53.0	54.7	56.6	58.2	63.4	71.2
77.5°	36.6	36.3	36.4	37.2	37.3	37.6	38.8	40.2	41.5	43.9	46.7
80°	27.9	27.9	28.6	28.9	28.6	28.9	30.1	30.8	31.2	32.2	34.8
82.5°	21.1	21.5	21.3	21.5	21.6	21.9	22.9	23.0	23.5	23.9	24.9
85°	11.8	12.1	12.3	11.8	11.8	11.8	12.3	12.5	13.0	12.8	13.3
87.5°	8.9	8.6	8.7	8.6	8.8	8.4	8.4	8.6	8.0	8.0	7.7
90°	23.5	23.1	22.8	22.4	22.1	21.4	20.3	19.3	18.2	17.2	15.8
92.5°	34.7	34.5	34.3	34.1	33.9	33.5	32.8	32.2	31.6	31.0	30.0
95°	61.8	61.8	61.8	61.8	61.8	61.5	61.0	60.5	59.9	59.4	58.2
97.5°	96.8	96.8	96.8	96.8	96.8	96.5	95.8	95.2	94.6	94.0	92.5
100°	121.2	121.2	121.2	121.2	121.2	121.0	120.7	120.3	120.0	119.6	118.0
102.5°	148.7	148.6	148.4	148.3	148.1	147.8	147.3	146.9	146.4	145.9	144.5
105°	190.8	190.2	189.7	189.2	188.7	188.1	187.6	187.1	186.6	186.1	185.4
107.5°	231.7	231.8	231.8	231.8	231.9	231.6	231.1	230.7	230.2	229.7	229.6
110°	261.1	260.6	260.1	259.6	259.0	258.9	259.3	259.6	260.0	260.3	260.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	291.1	291.0	290.9	290.8	290.7	290.7	290.8	290.8	290.9	291.0	291.3
115°	337.7	337.9	338.1	338.3	338.4	338.6	338.8	338.9	339.1	339.3	339.6
117.5°	382.1	382.5	382.8	383.2	383.5	384.0	384.6	385.2	385.8	386.4	386.6
120°	415.9	415.6	415.2	414.9	414.5	414.8	415.6	416.5	417.4	418.3	418.8
122.5°	444.1	444.7	445.3	445.9	446.6	447.2	447.8	448.3	448.9	449.5	449.8
125°	492.5	492.9	493.2	493.6	493.9	494.3	494.6	495.0	495.3	495.7	495.8
127.5°	537.4	537.7	538.0	538.2	538.5	538.8	539.2	539.5	539.9	540.2	540.5
130°	566.8	567.5	568.2	568.9	569.6	570.1	570.4	570.8	571.1	571.5	571.5
132.5°	598.1	598.3	598.6	598.9	599.2	599.5	599.8	600.2	600.5	600.9	601.0
135°	641.1	641.6	642.1	642.6	643.1	643.6	643.9	644.3	644.6	645.0	645.0
137.5°	686.3	686.1	686.0	685.9	685.8	686.0	686.5	686.9	687.4	687.8	687.5
140°	713.8	713.9	714.1	714.3	714.5	714.6	714.8	715.0	715.2	715.3	715.3
142.5°	741.3	741.3	741.4	741.4	741.4	741.5	741.5	741.5	741.6	741.6	741.7
145°	778.7	779.2	779.7	780.2	780.7	781.1	781.3	781.4	781.6	781.8	781.6
147.5°	816.5	816.7	816.8	817.0	817.2	817.3	817.5	817.6	817.8	817.9	818.0
150°	839.6	839.8	840.0	840.2	840.3	840.4	840.4	840.4	840.4	840.4	840.4
152.5°	860.9	861.4	861.8	862.3	862.7	862.7	862.3	861.9	861.5	861.1	860.9
155°	890.5	891.1	891.8	892.5	893.2	893.2	892.5	891.8	891.1	890.5	890.6
157.5°	916.9	917.5	918.1	918.7	919.2	919.3	918.8	918.2	917.7	917.2	917.2
160°	931.9	932.8	933.6	934.5	935.4	935.5	935.0	934.5	934.0	933.5	933.6
162.5°	947.5	948.4	949.3	950.1	951.0	951.0	950.0	949.1	948.2	947.2	947.4
165°	967.9	968.5	969.2	969.9	970.6	970.5	969.4	968.4	967.3	966.3	966.6
167.5°	982.4	983.5	984.5	985.6	986.7	986.7	985.7	984.6	983.6	982.5	982.5
170°	990.5	991.7	993.0	994.2	995.4	995.5	994.4	993.4	992.3	991.3	991.1
172.5°	997.4	998.6	999.8	1001.1	1002.3	1002.3	1001.1	999.9	998.7	997.6	997.5
175°	1004.6	1005.8	1007.0	1008.2	1009.5	1009.5	1008.2	1007.0	1005.8	1004.6	1004.8
177.5°	1008.3	1009.5	1010.6	1011.7	1012.8	1012.9	1011.9	1010.9	1009.9	1009.0	1009.0
180°	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4
2.5°	605.2	602.6	601.2	598.2	594.6	592.7	591.0	588.5	585.3	581.9	579.5
5°	635.9	630.2	623.1	614.6	607.1	599.7	593.3	586.9	579.6	572.0	564.5
7.5°	667.4	656.3	644.2	630.2	616.7	604.3	592.9	582.1	569.8	558.7	548.7
10°	689.4	674.3	657.5	639.7	622.0	606.6	591.4	577.7	562.6	549.1	537.7
12.5°	707.2	689.4	669.2	647.1	625.7	607.1	589.7	571.8	554.6	540.0	524.8
15°	736.7	712.4	685.2	658.6	631.0	605.6	582.2	561.4	541.7	521.1	506.7
17.5°	757.1	728.1	695.0	663.2	630.5	600.6	573.6	548.8	526.1	505.1	487.9
20°	769.2	737.2	700.5	664.3	627.6	595.7	566.6	539.1	515.7	493.0	475.2
22.5°	776.0	740.6	700.5	662.6	624.6	590.0	558.1	529.5	504.0	481.2	461.6
25°	778.2	740.3	699.4	655.8	614.2	577.5	544.3	513.3	484.9	462.2	441.4
27.5°	775.1	730.5	688.6	643.9	600.9	562.3	527.5	494.9	466.5	442.1	420.7
30°	770.6	722.8	677.8	631.4	587.9	550.7	514.0	482.8	453.2	427.9	406.4
32.5°	760.7	713.3	664.9	617.4	573.3	535.0	500.2	468.8	439.8	413.9	391.0
35°	741.2	693.2	640.7	591.9	548.6	508.8	476.2	445.9	418.2	390.5	366.4
37.5°	715.5	666.5	614.2	560.8	517.4	479.9	450.0	421.5	394.5	369.2	342.5
40°	691.3	646.6	592.6	539.6	495.1	458.9	431.2	405.4	378.2	353.1	326.4
42.5°	662.0	623.9	569.3	516.1	472.2	437.3	411.5	386.3	361.5	337.2	309.3
45°	613.0	584.1	533.0	481.9	437.6	403.0	379.4	357.1	335.4	312.2	285.9
47.5°	556.8	537.3	493.2	440.8	399.9	368.8	345.9	327.7	309.3	286.1	263.1
50°	517.8	505.3	462.7	414.9	375.8	347.2	323.8	306.7	291.3	269.1	248.5
52.5°	476.2	469.5	433.5	387.8	350.1	322.0	302.0	286.7	271.1	252.6	233.4
55°	412.7	416.3	385.8	346.2	310.7	287.1	268.9	256.1	242.8	227.2	212.3
57.5°	347.9	360.9	340.4	305.7	272.4	250.5	236.8	226.1	214.9	202.0	189.2
60°	309.1	320.0	308.4	277.8	248.7	228.4	215.6	207.3	196.2	184.4	174.7
62.5°	271.2	282.9	276.0	251.3	224.3	206.8	195.5	187.8	179.5	169.2	159.1
65°	223.7	231.2	227.9	210.9	191.7	176.8	166.4	160.7	153.1	145.6	136.6
67.5°	171.3	185.9	184.0	174.9	158.4	146.7	139.9	134.9	128.0	122.4	116.3
70°	140.8	154.3	154.1	146.7	137.7	126.9	122.1	117.9	111.7	106.3	101.3
72.5°	115.3	127.6	129.5	123.8	117.7	109.4	104.9	102.0	96.0	92.3	88.2
75°	80.7	89.7	92.1	92.1	89.2	85.0	80.9	79.0	74.8	71.5	69.1
77.5°	52.9	58.6	62.3	63.1	63.6	62.1	58.8	57.5	54.2	53.1	50.8
80°	37.4	41.2	45.4	46.9	48.0	47.6	46.2	45.2	42.1	40.9	40.0
82.5°	25.8	27.9	31.4	34.6	34.2	35.5	34.2	33.5	31.1	30.7	29.8
85°	13.5	13.7	14.2	16.3	17.5	18.0	18.2	17.8	17.0	17.0	15.4
87.5°	7.4	7.0	7.1	6.7	6.5	6.9	7.1	6.9	6.7	6.5	6.3
90°	14.4	13.0	11.6	10.0	8.1	6.2	4.3	2.3	4.3	6.2	8.1
92.5°	29.0	28.0	27.1	25.5	23.3	21.1	18.9	16.7	18.9	21.1	23.3
95°	57.0	55.8	54.6	53.2	51.6	50.0	48.5	46.9	48.5	50.0	51.6
97.5°	91.1	89.7	88.3	86.9	85.7	84.4	83.2	81.9	83.2	84.4	85.7
100°	116.5	114.9	113.4	112.2	111.5	110.8	110.1	109.5	110.1	110.8	111.5
102.5°	143.0	141.6	140.2	139.3	139.1	138.8	138.5	138.2	138.5	138.8	139.1
105°	184.7	184.0	183.3	182.9	182.7	182.5	182.3	182.2	182.3	182.5	182.7
107.5°	229.5	229.4	229.3	229.1	228.9	228.7	228.5	228.3	228.5	228.7	228.9
110°	260.7	260.9	261.0	260.9	260.6	260.2	259.9	259.6	259.9	260.2	260.6



TEST NUMBER: P332878

CATALOG NUMBER: SA4XXRDIP-C350D810U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	291.6	291.9	292.2	292.4	292.3	292.2	292.1	292.1	292.1	292.2	292.3
115°	340.0	340.3	340.7	340.9	340.9	340.9	340.9	340.9	340.9	340.9	340.9
117.5°	386.8	387.1	387.3	387.4	387.2	387.1	387.0	386.8	387.0	387.1	387.2
120°	419.3	419.8	420.3	420.3	419.6	418.9	418.2	417.5	418.2	418.9	419.6
122.5°	450.0	450.3	450.5	450.5	450.2	449.9	449.6	449.4	449.6	449.9	450.2
125°	496.0	496.2	496.3	496.4	496.4	496.4	496.4	496.4	496.4	496.4	496.4
127.5°	540.8	541.0	541.3	541.2	540.7	540.2	539.6	539.1	539.6	540.2	540.7
130°	571.5	571.5	571.5	571.2	570.7	570.2	569.7	569.1	569.7	570.2	570.7
132.5°	601.2	601.3	601.4	601.3	600.9	600.6	600.2	599.8	600.2	600.6	600.9
135°	645.0	645.0	645.0	644.5	643.4	642.4	641.3	640.3	641.3	642.4	643.4
137.5°	687.3	687.0	686.7	686.3	685.8	685.3	684.9	684.4	684.9	685.3	685.8
140°	715.3	715.3	715.3	715.2	714.8	714.5	714.1	713.8	714.1	714.5	714.8
142.5°	741.9	742.0	742.2	742.1	741.7	741.4	741.0	740.7	741.0	741.4	741.7
145°	781.4	781.3	781.1	780.7	780.0	779.3	778.6	777.9	778.6	779.3	780.0
147.5°	818.2	818.3	818.5	818.1	817.3	816.4	815.6	814.8	815.6	816.4	817.3
150°	840.4	840.4	840.4	840.1	839.4	838.7	838.0	837.3	838.0	838.7	839.4
152.5°	860.8	860.6	860.5	860.2	859.8	859.4	859.0	858.6	859.0	859.4	859.8
155°	890.8	891.0	891.1	891.2	891.2	891.2	891.2	891.2	891.2	891.2	891.2
157.5°	917.3	917.3	917.3	917.5	917.8	918.1	918.4	918.8	918.4	918.1	917.8
160°	933.8	934.0	934.1	934.3	934.5	934.7	934.8	935.0	934.8	934.7	934.5
162.5°	947.6	947.7	947.9	948.2	948.7	949.1	949.6	950.0	949.6	949.1	948.7
165°	967.0	967.3	967.7	968.1	968.6	969.2	969.7	970.2	969.7	969.2	968.6
167.5°	982.5	982.4	982.4	982.8	983.5	984.2	984.9	985.7	984.9	984.2	983.5
170°	991.0	990.8	990.6	991.0	991.8	992.7	993.6	994.4	993.6	992.7	991.8
172.5°	997.5	997.5	997.4	997.8	998.5	999.2	1000.0	1000.7	1000.0	999.2	998.5
175°	1004.9	1005.1	1005.3	1005.8	1006.7	1007.5	1008.4	1009.3	1008.4	1007.5	1006.7
177.5°	1009.0	1009.0	1009.0	1009.3	1010.0	1010.7	1011.4	1012.1	1011.4	1010.7	1010.0
180°	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8



TEST NUMBER: P332878

CATALOG NUMBER: SA4XXRDIP-C350D810U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4
2.5°	576.8	574.9	572.5	569.6	566.2	563.2	561.8	563.0	563.6	562.0	561.8
5°	559.2	553.3	548.6	541.5	535.8	531.1	527.8	526.3	526.8	523.0	522.1
7.5°	539.5	532.5	524.7	516.3	508.5	501.5	497.9	495.9	491.8	490.1	487.2
10°	526.8	517.4	509.8	499.8	490.8	482.6	478.5	475.2	471.2	469.3	465.3
12.5°	513.8	502.8	494.4	484.1	474.9	465.0	461.1	455.0	448.7	444.7	439.5
15°	495.3	482.1	471.9	459.6	448.7	437.4	427.2	415.8	411.6	402.6	397.4
17.5°	473.8	460.4	447.8	431.3	414.5	400.3	389.5	378.6	372.1	366.4	363.7
20°	459.6	447.3	429.8	410.6	391.9	376.3	367.5	360.4	353.3	349.3	346.5
22.5°	446.2	430.4	410.1	389.4	370.7	358.5	351.1	343.8	338.0	334.2	330.4
25°	423.6	403.0	381.5	357.8	345.1	334.4	326.4	320.4	316.9	311.9	310.0
27.5°	400.5	375.5	351.8	335.9	322.6	312.8	305.8	301.4	296.9	293.7	291.2
30°	382.7	357.4	336.1	320.9	307.4	299.4	293.7	288.5	284.9	282.3	280.5
32.5°	365.1	339.8	321.9	305.6	294.9	287.1	281.0	277.1	274.3	271.0	269.8
35°	339.6	317.1	301.5	286.8	276.0	268.9	264.1	260.1	257.7	256.8	256.1
37.5°	315.1	296.7	279.9	267.9	258.2	252.6	247.0	245.0	243.4	241.7	242.5
40°	299.6	282.3	267.4	254.7	246.8	240.7	237.4	235.0	233.6	233.6	233.6
42.5°	286.2	269.3	254.7	243.3	235.5	230.3	226.6	224.6	224.1	223.9	225.1
45°	265.3	249.7	235.0	225.5	218.9	213.7	211.6	209.9	209.9	210.9	211.1
47.5°	244.6	230.0	218.2	207.6	201.5	198.3	196.4	195.6	195.7	196.6	197.7
50°	231.9	217.5	205.9	196.4	190.8	187.7	186.0	185.5	186.0	186.0	187.7
52.5°	218.1	205.2	193.8	185.8	179.4	176.5	175.6	174.9	175.2	176.0	176.7
55°	197.9	186.3	175.4	167.8	163.1	161.2	159.0	159.3	158.8	159.3	159.3
57.5°	177.5	167.1	157.0	151.0	146.8	144.1	141.8	142.4	141.7	141.6	141.2
60°	164.5	153.1	145.1	139.6	134.9	132.5	130.4	130.9	130.2	129.7	128.7
62.5°	150.3	140.8	133.1	127.9	124.1	121.4	119.2	118.8	117.1	115.5	113.4
65°	129.7	121.9	115.0	110.1	106.5	104.4	102.7	101.3	97.7	94.0	92.1
67.5°	109.7	104.0	97.6	93.4	90.5	87.8	84.6	82.2	78.9	76.8	75.6
70°	96.8	91.4	85.9	81.9	78.8	76.2	72.7	71.0	68.6	67.7	66.5
72.5°	84.5	79.4	74.4	70.7	67.5	65.4	62.6	61.0	59.9	59.5	58.4
75°	65.8	61.8	58.0	54.7	52.1	50.6	49.5	48.3	47.8	45.7	44.5
77.5°	48.0	45.3	43.0	40.6	38.8	37.8	35.5	34.2	33.4	32.4	32.1
80°	37.4	35.5	33.1	31.7	29.1	28.2	27.2	27.0	26.7	26.5	26.3
82.5°	28.1	26.2	23.9	23.0	22.3	21.7	21.2	20.9	20.7	20.8	20.8
85°	14.2	13.3	13.3	13.0	12.8	12.5	12.3	12.3	12.1	12.3	12.1
87.5°	6.7	6.9	7.1	7.0	7.5	7.8	7.8	8.0	8.4	8.2	8.4
90°	10.0	11.6	13.0	14.4	15.8	17.2	18.2	19.3	20.3	21.4	22.1
92.5°	25.5	27.1	28.0	29.0	30.0	31.0	31.6	32.2	32.8	33.5	33.9
95°	53.2	54.6	55.8	57.0	58.2	59.4	59.9	60.5	61.0	61.5	61.8
97.5°	86.9	88.3	89.7	91.1	92.5	94.0	94.6	95.2	95.8	96.5	96.8
100°	112.2	113.4	114.9	116.5	118.0	119.6	120.0	120.3	120.7	121.0	121.2
102.5°	139.3	140.2	141.6	143.0	144.5	145.9	146.4	146.9	147.3	147.8	148.1
105°	182.9	183.3	184.0	184.7	185.4	186.1	186.6	187.1	187.6	188.1	188.7
107.5°	229.1	229.3	229.4	229.5	229.6	229.7	230.2	230.7	231.1	231.6	231.9
110°	260.9	261.0	260.9	260.7	260.5	260.3	260.0	259.6	259.3	258.9	259.0



TEST NUMBER: P332878

CATALOG NUMBER: SA4XXRDIP-C350D810U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	292.4	292.2	291.9	291.6	291.3	291.0	290.9	290.8	290.8	290.7	290.7
115°	340.9	340.7	340.3	340.0	339.6	339.3	339.1	338.9	338.8	338.6	338.4
117.5°	387.4	387.3	387.1	386.8	386.6	386.4	385.8	385.2	384.6	384.0	383.5
120°	420.3	420.3	419.8	419.3	418.8	418.3	417.4	416.5	415.6	414.8	414.5
122.5°	450.5	450.5	450.3	450.0	449.8	449.5	448.9	448.3	447.8	447.2	446.6
125°	496.4	496.3	496.2	496.0	495.8	495.7	495.3	495.0	494.6	494.3	493.9
127.5°	541.2	541.3	541.0	540.8	540.5	540.2	539.9	539.5	539.2	538.8	538.5
130°	571.2	571.5	571.5	571.5	571.5	571.5	571.1	570.8	570.4	570.1	569.6
132.5°	601.3	601.4	601.3	601.2	601.0	600.9	600.5	600.2	599.8	599.5	599.2
135°	644.5	645.0	645.0	645.0	645.0	645.0	644.6	644.3	643.9	643.6	643.1
137.5°	686.3	686.7	687.0	687.3	687.5	687.8	687.4	686.9	686.5	686.0	685.8
140°	715.2	715.3	715.3	715.3	715.3	715.3	715.2	715.0	714.8	714.6	714.5
142.5°	742.1	742.2	742.0	741.9	741.7	741.6	741.6	741.5	741.5	741.5	741.4
145°	780.7	781.1	781.3	781.4	781.6	781.8	781.6	781.4	781.3	781.1	780.7
147.5°	818.1	818.5	818.3	818.2	818.0	817.9	817.8	817.6	817.5	817.3	817.2
150°	840.1	840.4	840.4	840.4	840.4	840.4	840.4	840.4	840.4	840.4	840.3
152.5°	860.2	860.5	860.6	860.8	860.9	861.1	861.5	861.9	862.3	862.7	862.7
155°	891.2	891.1	891.0	890.8	890.6	890.5	891.1	891.8	892.5	893.2	893.2
157.5°	917.5	917.3	917.3	917.3	917.2	917.2	917.7	918.2	918.8	919.3	919.2
160°	934.3	934.1	934.0	933.8	933.6	933.5	934.0	934.5	935.0	935.5	935.4
162.5°	948.2	947.9	947.7	947.6	947.4	947.2	948.2	949.1	950.0	951.0	951.0
165°	968.1	967.7	967.3	967.0	966.6	966.3	967.3	968.4	969.4	970.5	970.6
167.5°	982.8	982.4	982.4	982.5	982.5	982.5	983.6	984.6	985.7	986.7	986.7
170°	991.0	990.6	990.8	991.0	991.1	991.3	992.3	993.4	994.4	995.5	995.4
172.5°	997.8	997.4	997.5	997.5	997.5	997.6	998.7	999.9	1001.1	1002.3	1002.3
175°	1005.8	1005.3	1005.1	1004.9	1004.8	1004.6	1005.8	1007.0	1008.2	1009.5	1009.5
177.5°	1009.3	1009.0	1009.0	1009.0	1009.0	1009.0	1009.9	1010.9	1011.9	1012.9	1012.8
180°	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8



TEST NUMBER: P332878

CATALOG NUMBER: SA4XXRDIP-C350D810U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4
2.5°	560.7	561.1	559.8	559.4	559.8	561.1	560.7	561.8	562.0	563.6	563.0
5°	520.2	519.7	518.5	518.8	518.5	519.7	520.2	522.1	523.0	526.8	526.3
7.5°	485.5	483.7	484.2	482.3	484.2	483.7	485.5	487.2	490.1	491.8	495.9
10°	464.3	461.7	459.6	457.7	459.6	461.7	464.3	465.3	469.3	471.2	475.2
12.5°	435.4	433.1	430.3	430.8	430.3	433.1	435.4	439.5	444.7	448.7	455.0
15°	394.3	390.7	385.1	385.8	385.1	390.7	394.3	397.4	402.6	411.6	415.8
17.5°	359.5	359.5	356.9	357.6	356.9	359.5	359.5	363.7	366.4	372.1	378.6
20°	341.5	339.9	340.1	339.4	340.1	339.9	341.5	346.5	349.3	353.3	360.4
22.5°	329.0	327.0	325.3	323.9	325.3	327.0	329.0	330.4	334.2	338.0	343.8
25°	307.9	306.5	304.4	303.9	304.4	306.5	307.9	310.0	311.9	316.9	320.4
27.5°	289.3	289.1	288.2	287.1	288.2	289.1	289.3	291.2	293.7	296.9	301.4
30°	278.6	278.1	277.6	276.9	277.6	278.1	278.6	280.5	282.3	284.9	288.5
32.5°	268.9	268.6	268.1	268.2	268.1	268.6	268.9	269.8	271.0	274.3	277.1
35°	255.1	254.9	254.4	254.2	254.4	254.9	255.1	256.1	256.8	257.7	260.1
37.5°	242.3	242.9	242.6	242.5	242.6	242.9	242.3	242.5	241.7	243.4	245.0
40°	233.4	233.6	234.1	233.8	234.1	233.6	233.4	233.6	233.6	233.6	235.0
42.5°	226.0	226.0	226.7	225.9	226.7	226.0	226.0	225.1	223.9	224.1	224.6
45°	212.8	214.2	213.9	213.9	213.9	214.2	212.8	211.1	210.9	209.9	209.9
47.5°	198.3	199.6	199.9	199.8	199.9	199.6	198.3	197.7	196.6	195.7	195.6
50°	188.9	188.4	189.1	188.9	189.1	188.4	188.9	187.7	186.0	186.0	185.5
52.5°	177.3	177.4	177.4	177.1	177.4	177.4	177.3	176.7	176.0	175.2	174.9
55°	159.5	159.8	159.3	159.5	159.3	159.8	159.5	159.3	159.3	158.8	159.3
57.5°	140.2	139.1	139.5	139.0	139.5	139.1	140.2	141.2	141.6	141.7	142.4
60°	126.4	124.5	124.0	123.1	124.0	124.5	126.4	128.7	129.7	130.2	130.9
62.5°	110.9	109.5	107.9	108.7	107.9	109.5	110.9	113.4	115.5	117.1	118.8
65°	90.2	89.2	88.5	89.5	88.5	89.2	90.2	92.1	94.0	97.7	101.3
67.5°	74.6	74.1	74.1	73.7	74.1	74.1	74.6	75.6	76.8	78.9	82.2
70°	66.5	65.8	65.8	65.3	65.8	65.8	66.5	66.5	67.7	68.6	71.0
72.5°	58.2	57.5	57.7	57.4	57.7	57.5	58.2	58.4	59.5	59.9	61.0
75°	43.1	41.9	41.9	42.1	41.9	41.9	43.1	44.5	45.7	47.8	48.3
77.5°	32.1	31.9	32.2	31.8	32.2	31.9	32.1	32.1	32.4	33.4	34.2
80°	26.3	26.0	25.8	26.5	25.8	26.0	26.3	26.3	26.5	26.7	27.0
82.5°	20.4	20.4	20.3	21.2	20.3	20.4	20.4	20.8	20.8	20.7	20.9
85°	12.3	11.8	12.3	11.8	12.3	11.8	12.3	12.1	12.3	12.1	12.3
87.5°	8.8	8.7	8.6	8.9	8.6	8.7	8.8	8.4	8.2	8.4	8.0
90°	22.4	22.8	23.1	23.5	23.1	22.8	22.4	22.1	21.4	20.3	19.3
92.5°	34.1	34.3	34.5	34.7	34.5	34.3	34.1	33.9	33.5	32.8	32.2
95°	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.5	61.0	60.5
97.5°	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.5	95.8	95.2
100°	121.2	121.2	121.2	121.2	121.2	121.2	121.2	121.2	121.0	120.7	120.3
102.5°	148.3	148.4	148.6	148.7	148.6	148.4	148.3	148.1	147.8	147.3	146.9
105°	189.2	189.7	190.2	190.8	190.2	189.7	189.2	188.7	188.1	187.6	187.1
107.5°	231.8	231.8	231.8	231.7	231.8	231.8	231.8	231.9	231.6	231.1	230.7
110°	259.6	260.1	260.6	261.1	260.6	260.1	259.6	259.0	258.9	259.3	259.6



TEST NUMBER: P332878

CATALOG NUMBER: SA4XXRDIP-C350D810U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	290.8	290.9	291.0	291.1	291.0	290.9	290.8	290.7	290.7	290.8	290.8
115°	338.3	338.1	337.9	337.7	337.9	338.1	338.3	338.4	338.6	338.8	338.9
117.5°	383.2	382.8	382.5	382.1	382.5	382.8	383.2	383.5	384.0	384.6	385.2
120°	414.9	415.2	415.6	415.9	415.6	415.2	414.9	414.5	414.8	415.6	416.5
122.5°	445.9	445.3	444.7	444.1	444.7	445.3	445.9	446.6	447.2	447.8	448.3
125°	493.6	493.2	492.9	492.5	492.9	493.2	493.6	493.9	494.3	494.6	495.0
127.5°	538.2	538.0	537.7	537.4	537.7	538.0	538.2	538.5	538.8	539.2	539.5
130°	568.9	568.2	567.5	566.8	567.5	568.2	568.9	569.6	570.1	570.4	570.8
132.5°	598.9	598.6	598.3	598.1	598.3	598.6	598.9	599.2	599.5	599.8	600.2
135°	642.6	642.1	641.6	641.1	641.6	642.1	642.6	643.1	643.6	643.9	644.3
137.5°	685.9	686.0	686.1	686.3	686.1	686.0	685.9	685.8	686.0	686.5	686.9
140°	714.3	714.1	713.9	713.8	713.9	714.1	714.3	714.5	714.6	714.8	715.0
142.5°	741.4	741.4	741.3	741.3	741.3	741.4	741.4	741.4	741.5	741.5	741.5
145°	780.2	779.7	779.2	778.7	779.2	779.7	780.2	780.7	781.1	781.3	781.4
147.5°	817.0	816.8	816.7	816.5	816.7	816.8	817.0	817.2	817.3	817.5	817.6
150°	840.2	840.0	839.8	839.6	839.8	840.0	840.2	840.3	840.4	840.4	840.4
152.5°	862.3	861.8	861.4	860.9	861.4	861.8	862.3	862.7	862.7	862.3	861.9
155°	892.5	891.8	891.1	890.5	891.1	891.8	892.5	893.2	893.2	892.5	891.8
157.5°	918.7	918.1	917.5	916.9	917.5	918.1	918.7	919.2	919.3	918.8	918.2
160°	934.5	933.6	932.8	931.9	932.8	933.6	934.5	935.4	935.5	935.0	934.5
162.5°	950.1	949.3	948.4	947.5	948.4	949.3	950.1	951.0	951.0	950.0	949.1
165°	969.9	969.2	968.5	967.9	968.5	969.2	969.9	970.6	970.5	969.4	968.4
167.5°	985.6	984.5	983.5	982.4	983.5	984.5	985.6	986.7	986.7	985.7	984.6
170°	994.2	993.0	991.7	990.5	991.7	993.0	994.2	995.4	995.5	994.4	993.4
172.5°	1001.1	999.8	998.6	997.4	998.6	999.8	1001.1	1002.3	1002.3	1001.1	999.9
175°	1008.2	1007.0	1005.8	1004.6	1005.8	1007.0	1008.2	1009.5	1009.5	1008.2	1007.0
177.5°	1011.7	1010.6	1009.5	1008.3	1009.5	1010.6	1011.7	1012.8	1012.9	1011.9	1010.9
180°	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8



TEST NUMBER: P332878

CATALOG NUMBER: SA4XXRDIP-C350D810U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4
2.5°	561.8	563.2	566.2	569.6	572.5	574.9	576.8	579.5	581.9	585.3	588.5
5°	527.8	531.1	535.8	541.5	548.6	553.3	559.2	564.5	572.0	579.6	586.9
7.5°	497.9	501.5	508.5	516.3	524.7	532.5	539.5	548.7	558.7	569.8	582.1
10°	478.5	482.6	490.8	499.8	509.8	517.4	526.8	537.7	549.1	562.6	577.7
12.5°	461.1	465.0	474.9	484.1	494.4	502.8	513.8	524.8	540.0	554.6	571.8
15°	427.2	437.4	448.7	459.6	471.9	482.1	495.3	506.7	521.1	541.7	561.4
17.5°	389.5	400.3	414.5	431.3	447.8	460.4	473.8	487.9	505.1	526.1	548.8
20°	367.5	376.3	391.9	410.6	429.8	447.3	459.6	475.2	493.0	515.7	539.1
22.5°	351.1	358.5	370.7	389.4	410.1	430.4	446.2	461.6	481.2	504.0	529.5
25°	326.4	334.4	345.1	357.8	381.5	403.0	423.6	441.4	462.2	484.9	513.3
27.5°	305.8	312.8	322.6	335.9	351.8	375.5	400.5	420.7	442.1	466.5	494.9
30°	293.7	299.4	307.4	320.9	336.1	357.4	382.7	406.4	427.9	453.2	482.8
32.5°	281.0	287.1	294.9	305.6	321.9	339.8	365.1	391.0	413.9	439.8	468.8
35°	264.1	268.9	276.0	286.8	301.5	317.1	339.6	366.4	390.5	418.2	445.9
37.5°	247.0	252.6	258.2	267.9	279.9	296.7	315.1	342.5	369.2	394.5	421.5
40°	237.4	240.7	246.8	254.7	267.4	282.3	299.6	326.4	353.1	378.2	405.4
42.5°	226.6	230.3	235.5	243.3	254.7	269.3	286.2	309.3	337.2	361.5	386.3
45°	211.6	213.7	218.9	225.5	235.0	249.7	265.3	285.9	312.2	335.4	357.1
47.5°	196.4	198.3	201.5	207.6	218.2	230.0	244.6	263.1	286.1	309.3	327.7
50°	186.0	187.7	190.8	196.4	205.9	217.5	231.9	248.5	269.1	291.3	306.7
52.5°	175.6	176.5	179.4	185.8	193.8	205.2	218.1	233.4	252.6	271.1	286.7
55°	159.0	161.2	163.1	167.8	175.4	186.3	197.9	212.3	227.2	242.8	256.1
57.5°	141.8	144.1	146.8	151.0	157.0	167.1	177.5	189.2	202.0	214.9	226.1
60°	130.4	132.5	134.9	139.6	145.1	153.1	164.5	174.7	184.4	196.2	207.3
62.5°	119.2	121.4	124.1	127.9	133.1	140.8	150.3	159.1	169.2	179.5	187.8
65°	102.7	104.4	106.5	110.1	115.0	121.9	129.7	136.6	145.6	153.1	160.7
67.5°	84.6	87.8	90.5	93.4	97.6	104.0	109.7	116.3	122.4	128.0	134.9
70°	72.7	76.2	78.8	81.9	85.9	91.4	96.8	101.3	106.3	111.7	117.9
72.5°	62.6	65.4	67.5	70.7	74.4	79.4	84.5	88.2	92.3	96.0	102.0
75°	49.5	50.6	52.1	54.7	58.0	61.8	65.8	69.1	71.5	74.8	79.0
77.5°	35.5	37.8	38.8	40.6	43.0	45.3	48.0	50.8	53.1	54.2	57.5
80°	27.2	28.2	29.1	31.7	33.1	35.5	37.4	40.0	40.9	42.1	45.2
82.5°	21.2	21.7	22.3	23.0	23.9	26.2	28.1	29.8	30.7	31.1	33.5
85°	12.3	12.5	12.8	13.0	13.3	13.3	14.2	15.4	17.0	17.0	17.8
87.5°	7.8	7.8	7.5	7.0	7.1	6.9	6.7	6.3	6.5	6.7	6.9
90°	18.2	17.2	15.8	14.4	13.0	11.6	10.0	8.1	6.2	4.3	2.3
92.5°	31.6	31.0	30.0	29.0	28.0	27.1	25.5	23.3	21.1	18.9	16.7
95°	59.9	59.4	58.2	57.0	55.8	54.6	53.2	51.6	50.0	48.5	46.9
97.5°	94.6	94.0	92.5	91.1	89.7	88.3	86.9	85.7	84.4	83.2	81.9
100°	120.0	119.6	118.0	116.5	114.9	113.4	112.2	111.5	110.8	110.1	109.5
102.5°	146.4	145.9	144.5	143.0	141.6	140.2	139.3	139.1	138.8	138.5	138.2
105°	186.6	186.1	185.4	184.7	184.0	183.3	182.9	182.7	182.5	182.3	182.2
107.5°	230.2	229.7	229.6	229.5	229.4	229.3	229.1	228.9	228.7	228.5	228.3
110°	260.0	260.3	260.5	260.7	260.9	261.0	260.9	260.6	260.2	259.9	259.6



TEST NUMBER: P332878

CATALOG NUMBER: SA4XXRDIP-C350D810U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	290.9	291.0	291.3	291.6	291.9	292.2	292.4	292.3	292.2	292.1	292.1
115°	339.1	339.3	339.6	340.0	340.3	340.7	340.9	340.9	340.9	340.9	340.9
117.5°	385.8	386.4	386.6	386.8	387.1	387.3	387.4	387.2	387.1	387.0	386.8
120°	417.4	418.3	418.8	419.3	419.8	420.3	420.3	419.6	418.9	418.2	417.5
122.5°	448.9	449.5	449.8	450.0	450.3	450.5	450.5	450.2	449.9	449.6	449.4
125°	495.3	495.7	495.8	496.0	496.2	496.3	496.4	496.4	496.4	496.4	496.4
127.5°	539.9	540.2	540.5	540.8	541.0	541.3	541.2	540.7	540.2	539.6	539.1
130°	571.1	571.5	571.5	571.5	571.5	571.5	571.2	570.7	570.2	569.7	569.1
132.5°	600.5	600.9	601.0	601.2	601.3	601.4	601.3	600.9	600.6	600.2	599.8
135°	644.6	645.0	645.0	645.0	645.0	645.0	644.5	643.4	642.4	641.3	640.3
137.5°	687.4	687.8	687.5	687.3	687.0	686.7	686.3	685.8	685.3	684.9	684.4
140°	715.2	715.3	715.3	715.3	715.3	715.3	715.2	714.8	714.5	714.1	713.8
142.5°	741.6	741.6	741.7	741.9	742.0	742.2	742.1	741.7	741.4	741.0	740.7
145°	781.6	781.8	781.6	781.4	781.3	781.1	780.7	780.0	779.3	778.6	777.9
147.5°	817.8	817.9	818.0	818.2	818.3	818.5	818.1	817.3	816.4	815.6	814.8
150°	840.4	840.4	840.4	840.4	840.4	840.4	840.1	839.4	838.7	838.0	837.3
152.5°	861.5	861.1	860.9	860.8	860.6	860.5	860.2	859.8	859.4	859.0	858.6
155°	891.1	890.5	890.6	890.8	891.0	891.1	891.2	891.2	891.2	891.2	891.2
157.5°	917.7	917.2	917.2	917.3	917.3	917.3	917.5	917.8	918.1	918.4	918.8
160°	934.0	933.5	933.6	933.8	934.0	934.1	934.3	934.5	934.7	934.8	935.0
162.5°	948.2	947.2	947.4	947.6	947.7	947.9	948.2	948.7	949.1	949.6	950.0
165°	967.3	966.3	966.6	967.0	967.3	967.7	968.1	968.6	969.2	969.7	970.2
167.5°	983.6	982.5	982.5	982.5	982.4	982.4	982.8	983.5	984.2	984.9	985.7
170°	992.3	991.3	991.1	991.0	990.8	990.6	991.0	991.8	992.7	993.6	994.4
172.5°	998.7	997.6	997.5	997.5	997.5	997.4	997.8	998.5	999.2	1000.0	1000.7
175°	1005.8	1004.6	1004.8	1004.9	1005.1	1005.3	1005.8	1006.7	1007.5	1008.4	1009.3
177.5°	1009.9	1009.0	1009.0	1009.0	1009.0	1009.0	1009.3	1010.0	1010.7	1011.4	1012.1
180°	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8



TEST NUMBER: P332878

CATALOG NUMBER: SA4XXRDIP-C350D810U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4
2.5°	591.0	592.7	594.6	598.2	601.2	602.6	605.2	607.1	606.5	609.2	613.7
5°	593.3	599.7	607.1	614.6	623.1	630.2	635.9	641.6	646.1	651.5	659.6
7.5°	592.9	604.3	616.7	630.2	644.2	656.3	667.4	678.8	688.9	699.9	714.4
10°	591.4	606.6	622.0	639.7	657.5	674.3	689.4	703.6	717.1	731.5	749.8
12.5°	589.7	607.1	625.7	647.1	669.2	689.4	707.2	727.7	744.6	763.2	784.2
15°	582.2	605.6	631.0	658.6	685.2	712.4	736.7	761.8	785.3	807.5	834.0
17.5°	573.6	600.6	630.5	663.2	695.0	728.1	757.1	788.7	812.6	842.5	867.1
20°	566.6	595.7	627.6	664.3	700.5	737.2	769.2	801.4	828.3	858.4	889.6
22.5°	558.1	590.0	624.6	662.6	700.5	740.6	776.0	808.0	841.4	875.2	907.4
25°	544.3	577.5	614.2	655.8	699.4	740.3	778.2	817.9	853.9	890.6	919.5
27.5°	527.5	562.3	600.9	643.9	688.6	730.5	775.1	817.5	853.7	889.0	914.2
30°	514.0	550.7	587.9	631.4	677.8	722.8	770.6	813.0	851.1	882.8	897.0
32.5°	500.2	535.0	573.3	617.4	664.9	713.3	760.7	804.1	839.3	858.3	858.7
35°	476.2	508.8	548.6	591.9	640.7	693.2	741.2	783.8	805.4	807.0	783.8
37.5°	450.0	479.9	517.4	560.8	614.2	666.5	715.5	743.9	751.1	727.0	684.2
40°	431.2	458.9	495.1	539.6	592.6	646.6	691.3	712.1	704.6	665.5	617.7
42.5°	411.5	437.3	472.2	516.1	569.3	623.9	662.0	673.1	653.1	608.0	552.0
45°	379.4	403.0	437.6	481.9	533.0	584.1	613.0	607.3	573.9	520.4	457.7
47.5°	345.9	368.8	399.9	440.8	493.2	537.3	556.8	539.7	492.2	433.4	382.4
50°	323.8	347.2	375.8	414.9	462.7	505.3	517.8	491.8	439.0	382.5	335.6
52.5°	302.0	322.0	350.1	387.8	433.5	469.5	476.2	446.2	391.7	341.0	299.4
55°	268.9	287.1	310.7	346.2	385.8	416.3	412.7	374.2	324.7	281.4	248.7
57.5°	236.8	250.5	272.4	305.7	340.4	360.9	347.9	315.0	268.9	233.4	205.9
60°	215.6	228.4	248.7	277.8	308.4	320.0	309.1	273.4	236.9	204.5	181.3
62.5°	195.5	206.8	224.3	251.3	276.0	282.9	271.2	240.0	207.2	179.5	160.3
65°	166.4	176.8	191.7	210.9	227.9	231.2	223.7	191.7	166.9	143.7	130.4
67.5°	139.9	146.7	158.4	174.9	184.0	185.9	171.3	151.2	129.3	115.1	105.1
70°	122.1	126.9	137.7	146.7	154.1	154.3	140.8	124.7	107.9	96.3	89.0
72.5°	104.9	109.4	117.7	123.8	129.5	127.6	115.3	102.6	89.0	80.2	74.8
75°	80.9	85.0	89.2	92.1	92.1	89.7	80.7	71.2	63.4	58.2	56.6
77.5°	58.8	62.1	63.6	63.1	62.3	58.6	52.9	46.7	43.9	41.5	40.2
80°	46.2	47.6	48.0	46.9	45.4	41.2	37.4	34.8	32.2	31.2	30.8
82.5°	34.2	35.5	34.2	34.6	31.4	27.9	25.8	24.9	23.9	23.5	23.0
85°	18.2	18.0	17.5	16.3	14.2	13.7	13.5	13.3	12.8	13.0	12.5
87.5°	7.1	6.9	6.5	6.7	7.1	7.0	7.4	7.7	8.0	8.0	8.6
90°	4.3	6.2	8.1	10.0	11.6	13.0	14.4	15.8	17.2	18.2	19.3
92.5°	18.9	21.1	23.3	25.5	27.1	28.0	29.0	30.0	31.0	31.6	32.2
95°	48.5	50.0	51.6	53.2	54.6	55.8	57.0	58.2	59.4	59.9	60.5
97.5°	83.2	84.4	85.7	86.9	88.3	89.7	91.1	92.5	94.0	94.6	95.2
100°	110.1	110.8	111.5	112.2	113.4	114.9	116.5	118.0	119.6	120.0	120.3
102.5°	138.5	138.8	139.1	139.3	140.2	141.6	143.0	144.5	145.9	146.4	146.9
105°	182.3	182.5	182.7	182.9	183.3	184.0	184.7	185.4	186.1	186.6	187.1
107.5°	228.5	228.7	228.9	229.1	229.3	229.4	229.5	229.6	229.7	230.2	230.7
110°	259.9	260.2	260.6	260.9	261.0	260.9	260.7	260.5	260.3	260.0	259.6



TEST NUMBER: P332878

CATALOG NUMBER: SA4XXRDIP-C350D810U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	292.1	292.2	292.3	292.4	292.2	291.9	291.6	291.3	291.0	290.9	290.8
115°	340.9	340.9	340.9	340.9	340.7	340.3	340.0	339.6	339.3	339.1	338.9
117.5°	387.0	387.1	387.2	387.4	387.3	387.1	386.8	386.6	386.4	385.8	385.2
120°	418.2	418.9	419.6	420.3	420.3	419.8	419.3	418.8	418.3	417.4	416.5
122.5°	449.6	449.9	450.2	450.5	450.5	450.3	450.0	449.8	449.5	448.9	448.3
125°	496.4	496.4	496.4	496.4	496.3	496.2	496.0	495.8	495.7	495.3	495.0
127.5°	539.6	540.2	540.7	541.2	541.3	541.0	540.8	540.5	540.2	539.9	539.5
130°	569.7	570.2	570.7	571.2	571.5	571.5	571.5	571.5	571.5	571.1	570.8
132.5°	600.2	600.6	600.9	601.3	601.4	601.3	601.2	601.0	600.9	600.5	600.2
135°	641.3	642.4	643.4	644.5	645.0	645.0	645.0	645.0	645.0	644.6	644.3
137.5°	684.9	685.3	685.8	686.3	686.7	687.0	687.3	687.5	687.8	687.4	686.9
140°	714.1	714.5	714.8	715.2	715.3	715.3	715.3	715.3	715.3	715.2	715.0
142.5°	741.0	741.4	741.7	742.1	742.2	742.0	741.9	741.7	741.6	741.6	741.5
145°	778.6	779.3	780.0	780.7	781.1	781.3	781.4	781.6	781.8	781.6	781.4
147.5°	815.6	816.4	817.3	818.1	818.5	818.3	818.2	818.0	817.9	817.8	817.6
150°	838.0	838.7	839.4	840.1	840.4	840.4	840.4	840.4	840.4	840.4	840.4
152.5°	859.0	859.4	859.8	860.2	860.5	860.6	860.8	860.9	861.1	861.5	861.9
155°	891.2	891.2	891.2	891.2	891.1	891.0	890.8	890.6	890.5	891.1	891.8
157.5°	918.4	918.1	917.8	917.5	917.3	917.3	917.3	917.2	917.2	917.7	918.2
160°	934.8	934.7	934.5	934.3	934.1	934.0	933.8	933.6	933.5	934.0	934.5
162.5°	949.6	949.1	948.7	948.2	947.9	947.7	947.6	947.4	947.2	948.2	949.1
165°	969.7	969.2	968.6	968.1	967.7	967.3	967.0	966.6	966.3	967.3	968.4
167.5°	984.9	984.2	983.5	982.8	982.4	982.4	982.5	982.5	982.5	983.6	984.6
170°	993.6	992.7	991.8	991.0	990.6	990.8	991.0	991.1	991.3	992.3	993.4
172.5°	1000.0	999.2	998.5	997.8	997.4	997.5	997.5	997.5	997.6	998.7	999.9
175°	1008.4	1007.5	1006.7	1005.8	1005.3	1005.1	1004.9	1004.8	1004.6	1005.8	1007.0
177.5°	1011.4	1010.7	1010.0	1009.3	1009.0	1009.0	1009.0	1009.0	1009.0	1009.9	1010.9
180°	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	587.4	587.4	587.4	587.4	587.4	587.4	587.4
2.5°	616.2	616.9	617.5	619.4	619.6	621.3	619.6
5°	667.2	670.5	675.7	680.9	681.4	684.7	678.8
7.5°	724.3	732.0	736.8	745.2	748.5	750.6	747.2
10°	763.7	770.8	783.4	789.5	795.7	796.6	793.8
12.5°	801.8	813.0	822.9	834.6	834.3	842.6	839.6
15°	852.5	864.1	877.8	890.8	895.5	895.5	899.3
17.5°	888.6	909.9	924.1	934.3	945.5	947.4	946.1
20°	913.1	936.0	951.2	964.4	972.0	974.1	974.1
22.5°	931.2	950.8	965.6	977.5	983.7	986.2	985.5
25°	943.8	960.6	969.6	973.2	974.8	974.4	969.9
27.5°	926.6	925.8	920.2	909.3	901.1	896.1	890.4
30°	893.7	881.3	867.1	851.5	831.4	816.0	811.3
32.5°	844.6	817.0	792.9	766.9	745.3	729.9	723.4
35°	749.8	706.0	670.2	639.0	616.3	602.1	597.3
37.5°	637.2	594.8	550.6	520.3	501.4	487.1	481.8
40°	565.6	519.5	480.9	452.5	433.1	419.1	418.9
42.5°	500.3	456.2	419.9	399.5	378.6	369.3	369.3
45°	409.7	374.4	343.6	327.5	315.0	307.4	305.3
47.5°	339.2	310.0	289.5	276.7	266.5	261.7	258.5
50°	299.6	274.1	257.7	246.6	240.9	234.8	234.3
52.5°	266.7	246.0	233.3	224.3	217.1	213.4	213.5
55°	224.1	207.8	198.8	191.9	186.3	183.4	182.2
57.5°	188.8	176.6	170.0	163.7	161.3	159.1	158.5
60°	166.9	158.6	152.4	147.4	143.9	143.2	142.9
62.5°	148.7	140.0	135.8	131.9	129.3	128.2	127.8
65°	122.6	116.2	112.4	109.3	108.4	106.7	106.5
67.5°	98.8	95.0	92.5	90.4	89.1	89.0	89.0
70°	84.3	82.1	80.0	78.8	78.1	77.6	77.6
72.5°	71.8	70.2	68.4	67.8	67.7	67.2	67.0
75°	54.7	53.0	53.3	52.1	51.1	49.9	49.2
77.5°	38.8	37.6	37.3	37.2	36.4	36.3	36.6
80°	30.1	28.9	28.6	28.9	28.6	27.9	27.9
82.5°	22.9	21.9	21.6	21.5	21.3	21.5	21.1
85°	12.3	11.8	11.8	11.8	12.3	12.1	11.8
87.5°	8.4	8.4	8.8	8.6	8.7	8.6	8.9
90°	20.3	21.4	22.1	22.4	22.8	23.1	23.5
92.5°	32.8	33.5	33.9	34.1	34.3	34.5	34.7
95°	61.0	61.5	61.8	61.8	61.8	61.8	61.8
97.5°	95.8	96.5	96.8	96.8	96.8	96.8	96.8
100°	120.7	121.0	121.2	121.2	121.2	121.2	121.2
102.5°	147.3	147.8	148.1	148.3	148.4	148.6	148.7
105°	187.6	188.1	188.7	189.2	189.7	190.2	190.8
107.5°	231.1	231.6	231.9	231.8	231.8	231.8	231.7
110°	259.3	258.9	259.0	259.6	260.1	260.6	261.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	290.8	290.7	290.7	290.8	290.9	291.0	291.1
115°	338.8	338.6	338.4	338.3	338.1	337.9	337.7
117.5°	384.6	384.0	383.5	383.2	382.8	382.5	382.1
120°	415.6	414.8	414.5	414.9	415.2	415.6	415.9
122.5°	447.8	447.2	446.6	445.9	445.3	444.7	444.1
125°	494.6	494.3	493.9	493.6	493.2	492.9	492.5
127.5°	539.2	538.8	538.5	538.2	538.0	537.7	537.4
130°	570.4	570.1	569.6	568.9	568.2	567.5	566.8
132.5°	599.8	599.5	599.2	598.9	598.6	598.3	598.1
135°	643.9	643.6	643.1	642.6	642.1	641.6	641.1
137.5°	686.5	686.0	685.8	685.9	686.0	686.1	686.3
140°	714.8	714.6	714.5	714.3	714.1	713.9	713.8
142.5°	741.5	741.5	741.4	741.4	741.4	741.3	741.3
145°	781.3	781.1	780.7	780.2	779.7	779.2	778.7
147.5°	817.5	817.3	817.2	817.0	816.8	816.7	816.5
150°	840.4	840.4	840.3	840.2	840.0	839.8	839.6
152.5°	862.3	862.7	862.7	862.3	861.8	861.4	860.9
155°	892.5	893.2	893.2	892.5	891.8	891.1	890.5
157.5°	918.8	919.3	919.2	918.7	918.1	917.5	916.9
160°	935.0	935.5	935.4	934.5	933.6	932.8	931.9
162.5°	950.0	951.0	951.0	950.1	949.3	948.4	947.5
165°	969.4	970.5	970.6	969.9	969.2	968.5	967.9
167.5°	985.7	986.7	986.7	985.6	984.5	983.5	982.4
170°	994.4	995.5	995.4	994.2	993.0	991.7	990.5
172.5°	1001.1	1002.3	1002.3	1001.1	999.8	998.6	997.4
175°	1008.2	1009.5	1009.5	1008.2	1007.0	1005.8	1004.6
177.5°	1011.9	1012.9	1012.8	1011.7	1010.6	1009.5	1008.3
180°	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8

(END OF REPORT)