

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: P332891

Luminaire Tested: **SA4XXRDIP-C350D1205U835-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332891
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-C350D1205U835-4F0-1E-UDD-A4
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 350 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1205 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5789.7 lumens
Efficiency: N/A
Efficacy: 137.2 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

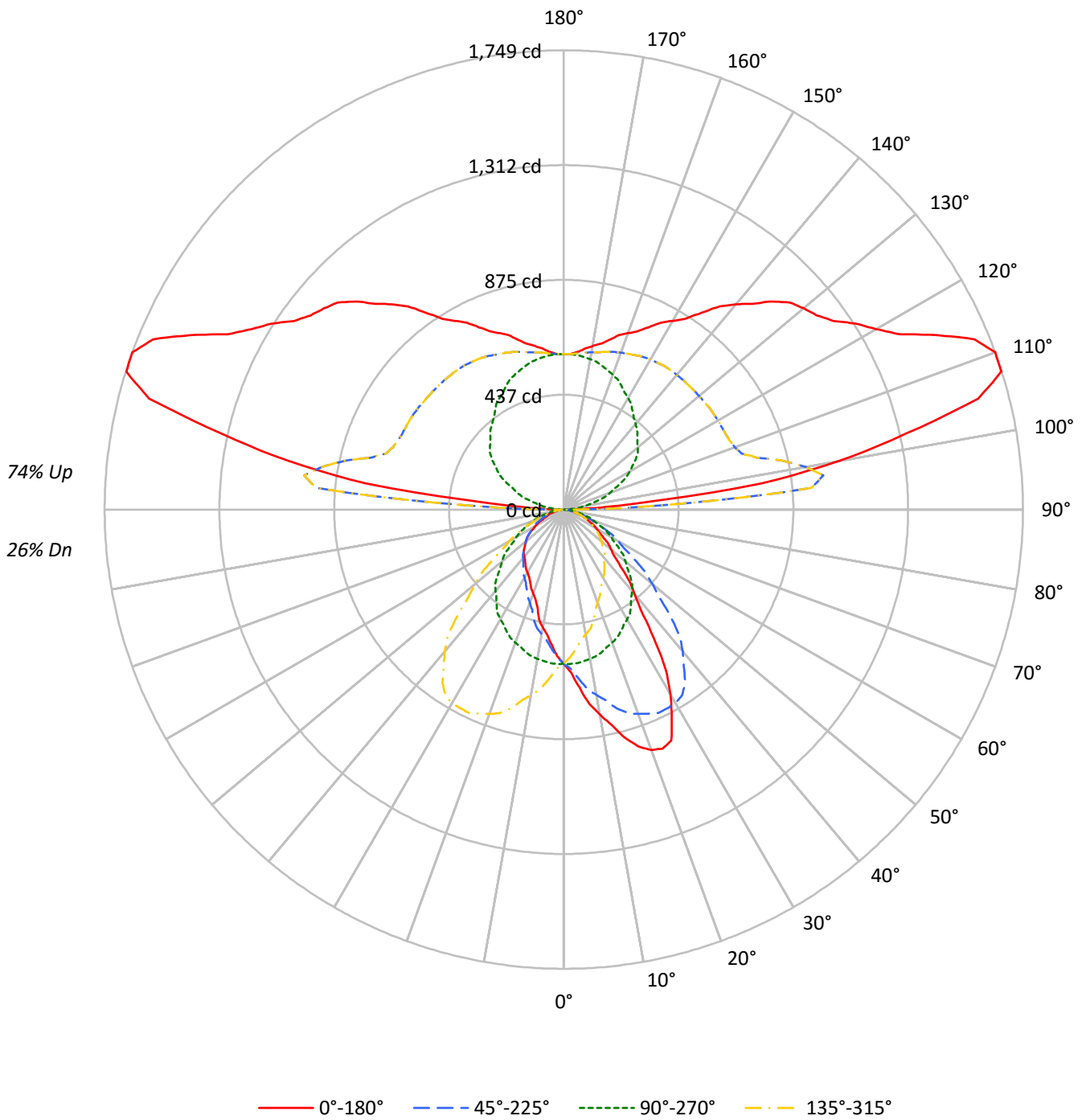
Input Watts (W): 42.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	101	101	101	90	90	90	90	70	70	70	51	51	51	34	34	34	26
1	93	88	85	82	82	79	76	73	61	59	58	45	44	43	30	30	29	22
2	84	77	72	67	75	69	65	60	54	51	48	40	38	36	27	26	25	19
3	77	68	61	56	69	61	55	51	48	44	41	35	33	31	24	22	21	16
4	71	60	53	47	63	54	48	43	42	38	35	32	29	26	22	20	18	14
5	65	54	46	40	57	48	42	37	38	33	30	28	25	23	19	18	16	12
6	60	48	40	35	53	43	37	32	34	29	26	26	22	20	18	16	14	11
7	55	43	36	30	49	39	33	28	31	26	23	23	20	18	16	14	13	10
8	51	39	32	27	45	35	29	25	28	23	20	21	18	16	15	13	11	9
9	47	36	29	24	42	32	26	22	26	21	18	19	16	14	14	12	10	8
10	44	33	26	21	39	29	23	19	24	19	16	18	15	13	13	11	9	7

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	1.0
10°-20°	171.7	3.0
20°-30°	268.5	4.6
30°-40°	298.5	5.2
40°-50°	264.9	4.6
50°-60°	206.4	3.6
60°-70°	135.1	2.3
70°-80°	66.4	1.1
80°-90°	19.7	0.3
90°-100°	427.2	7.4
100°-110°	889.1	15.4
110°-120°	796.4	13.8
120°-130°	669.9	11.6
130°-140°	558.5	9.6
140°-150°	426.7	7.4
150°-160°	299.9	5.2
160°-170°	176.4	3.0
170°-180°	57.4	1.0
0°-30°	497.1	8.6
0°-40°	795.6	13.7
0°-60°	1266.9	21.9
0°-90°	1488.1	25.7
90°-120°	2112.7	36.5
90°-150°	3767.8	65.1
90°-180°	4302.0	74.3
0°-180°	5789.7	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	1	24	1	24	20
95°	284	38	284	38	284	440
105°	1635	136	1635	136	1635	1616
115°	1570	239	1570	239	1570	1558
125°	1253	334	1253	334	1253	1138
135°	1120	396	1120	396	1120	865
145°	914	457	914	457	914	580
155°	766	519	766	519	766	357
165°	668	566	668	566	668	191
175°	602	590	602	590	602	59
180°	592	592	592	592	592	



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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°	9.0	8.9	9.3	9.0	9.0	8.8	8.8	8.9	8.3	8.7	8.3
90°	24.4	24.4	25.6	24.4	23.2	23.2	22.1	20.9	19.8	20.9	18.6
92.5°	89.5	89.5	93.4	99.7	113.4	136.7	171.7	228.2	307.0	368.6	322.6
95°	283.5	298.6	319.6	355.6	412.5	525.2	680.9	861.0	973.8	947.0	714.6
97.5°	757.9	782.0	816.9	886.8	970.3	1091.6	1205.2	1272.2	1223.4	997.5	668.8
100°	1065.6	1074.9	1109.7	1180.6	1281.7	1367.7	1424.6	1401.4	1231.7	934.2	606.6
102.5°	1333.3	1340.7	1377.4	1428.8	1490.8	1526.6	1510.1	1394.9	1162.0	855.2	564.7
105°	1634.9	1641.9	1658.2	1667.5	1665.1	1617.5	1502.5	1301.4	1035.3	762.3	528.7
107.5°	1747.0	1743.9	1732.3	1705.8	1648.4	1544.8	1382.8	1168.7	933.1	710.2	522.2
110°	1748.8	1738.4	1717.4	1668.6	1586.1	1458.3	1289.8	1088.8	882.0	692.6	524.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1694.0	1677.0	1647.7	1588.7	1495.0	1367.2	1208.0	1030.2	853.1	684.2	529.6
115°	1569.9	1560.6	1523.4	1453.7	1361.9	1250.3	1114.4	971.4	826.2	679.8	540.3
117.5°	1444.1	1436.9	1399.3	1340.7	1262.4	1167.8	1060.9	942.6	814.1	678.6	551.7
120°	1373.5	1360.7	1330.5	1279.4	1213.1	1130.6	1037.7	929.6	807.6	678.6	560.1
122.5°	1317.7	1304.9	1279.4	1235.7	1179.7	1107.4	1022.8	918.4	800.2	677.7	568.5
125°	1252.6	1245.7	1223.6	1189.9	1143.4	1079.5	999.3	899.4	787.8	676.3	581.0
127.5°	1214.5	1207.6	1189.0	1159.0	1112.3	1051.6	971.7	876.1	771.3	673.7	591.0
130°	1192.2	1185.2	1166.6	1137.6	1090.0	1028.4	949.4	857.6	761.1	672.8	598.4
132.5°	1167.1	1160.1	1142.5	1109.7	1063.0	1001.4	924.3	838.0	751.8	671.9	604.9
135°	1120.2	1113.2	1094.6	1062.1	1015.6	957.5	886.6	811.1	737.9	670.5	614.7
137.5°	1062.1	1053.7	1038.4	1006.3	962.8	910.3	850.6	786.7	725.8	670.2	620.5
140°	1020.2	1010.9	994.7	969.1	928.4	879.6	827.3	772.7	719.3	669.3	625.2
142.5°	975.6	969.1	954.7	931.0	895.0	852.7	807.8	759.7	713.7	669.3	628.9
145°	914.5	908.7	897.1	877.3	848.3	815.7	780.9	741.4	704.2	667.0	631.0
147.5°	860.3	858.3	849.4	832.5	811.1	785.5	757.6	726.3	695.6	662.8	632.1
150°	829.7	828.5	821.5	806.4	787.8	766.9	743.7	717.0	689.1	660.0	632.1
152.5°	801.8	800.6	796.4	784.1	768.3	751.1	729.7	706.7	681.6	655.4	630.3
155°	765.8	765.8	762.3	753.0	741.4	727.4	710.0	691.4	670.5	648.4	627.5
157.5°	734.2	734.2	732.1	725.1	716.3	705.1	690.5	674.9	659.1	641.2	624.5
160°	714.6	714.6	713.5	706.5	699.5	690.2	677.4	664.7	650.7	635.6	621.7
162.5°	696.0	697.0	695.8	688.8	683.7	675.4	665.4	654.4	643.3	630.0	618.9
165°	668.2	669.3	670.5	665.8	661.2	655.4	647.2	640.3	631.0	621.7	613.5
167.5°	646.1	647.0	647.2	644.2	641.9	638.4	631.9	626.6	619.8	613.3	608.0
170°	632.1	632.1	633.3	632.1	629.8	626.3	621.7	618.2	612.4	607.7	604.2
172.5°	618.2	620.0	621.2	620.0	618.6	616.1	613.3	610.7	605.9	602.1	600.5
175°	601.9	604.2	606.6	604.2	604.2	604.2	601.9	600.8	598.4	596.1	596.1
177.5°	592.4	594.2	596.1	595.2	596.1	595.2	595.2	594.2	593.3	592.4	592.4
180°	591.5	591.5	591.5	591.5	591.5	591.5	591.5	591.5	591.5	591.5	591.5



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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°	7.8	7.6	6.6	6.6	6.5	7.1	6.9	6.7	6.6	6.7	6.4
90°	16.3	16.3	9.3	9.3	8.1	7.0	3.5	1.2	3.5	7.0	8.1
92.5°	234.7	144.6	85.5	61.4	44.4	30.2	19.3	13.2	19.3	30.2	44.4
95°	436.9	246.3	145.3	96.4	68.6	53.5	41.8	38.3	41.8	53.5	68.6
97.5°	392.8	235.4	157.6	116.7	92.7	78.8	68.8	68.8	68.8	78.8	92.7
100°	369.5	238.2	169.7	132.5	110.4	96.4	88.3	88.3	88.3	96.4	110.4
102.5°	363.0	247.5	185.5	150.1	129.0	116.0	108.8	106.9	108.8	116.0	129.0
105°	366.0	269.6	213.8	180.1	159.2	145.3	139.4	136.0	139.4	145.3	159.2
107.5°	383.2	295.4	244.3	211.0	191.0	176.2	170.3	168.0	170.3	176.2	191.0
110°	396.2	314.9	263.8	232.4	211.5	197.5	191.7	189.4	191.7	197.5	211.5



TEST NUMBER: P332891

CATALOG NUMBER: SA4XXRDIP-C350D1205U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	410.2	333.5	284.2	252.9	231.9	218.9	212.2	209.9	212.2	218.9	231.9
115°	432.3	362.5	316.1	284.7	262.6	251.0	242.9	239.4	242.9	251.0	262.6
117.5°	454.8	390.7	346.5	314.0	293.3	280.5	273.3	270.0	273.3	280.5	293.3
120°	470.6	410.2	366.0	333.5	313.7	301.0	292.8	290.5	292.8	301.0	313.7
122.5°	485.5	428.8	384.6	353.0	331.4	319.6	311.4	309.1	311.4	319.6	331.4
125°	507.8	454.3	412.5	380.0	357.9	345.1	338.1	333.5	338.1	345.1	357.9
127.5°	527.1	478.0	437.6	404.8	381.8	367.2	358.8	355.1	358.8	367.2	381.8
130°	539.2	493.9	454.3	420.6	398.6	381.1	371.8	367.2	371.8	381.1	398.6
132.5°	551.3	506.9	467.4	435.5	411.6	395.1	383.0	379.3	383.0	395.1	411.6
135°	567.1	525.2	486.9	456.7	432.3	412.5	400.9	396.2	400.9	412.5	432.3
137.5°	578.2	539.2	503.4	474.6	449.2	430.4	417.6	413.2	417.6	430.4	449.2
140°	585.6	548.5	513.6	485.7	461.3	441.6	428.8	425.3	428.8	441.6	461.3
142.5°	591.2	556.8	522.9	495.9	472.5	453.6	441.8	438.3	441.8	453.6	472.5
145°	597.3	565.9	535.7	510.1	488.0	471.8	460.2	456.7	460.2	471.8	488.0
147.5°	602.6	575.2	546.8	523.8	505.5	488.7	478.5	477.3	478.5	488.7	505.5
150°	605.4	579.8	554.3	532.2	514.8	500.8	491.5	490.4	491.5	500.8	514.8
152.5°	607.3	583.6	560.8	540.6	525.0	512.0	502.7	502.4	502.7	512.0	525.0
155°	608.9	589.1	569.4	552.0	539.2	527.5	520.6	519.4	520.6	527.5	539.2
157.5°	608.9	593.1	576.4	562.6	551.5	542.4	535.9	535.9	535.9	542.4	551.5
160°	608.9	594.9	581.0	568.2	558.9	550.8	546.1	546.1	546.1	550.8	558.9
162.5°	608.9	596.8	583.8	573.8	565.4	558.2	554.5	555.4	554.5	558.2	565.4
165°	606.6	597.3	586.8	579.8	574.0	568.2	565.9	565.9	565.9	568.2	574.0
167.5°	603.8	597.0	589.4	584.0	580.8	576.4	575.2	576.4	575.2	576.4	580.8
170°	601.9	596.1	590.3	586.8	584.5	581.0	579.8	581.0	579.8	581.0	584.5
172.5°	600.1	595.2	591.2	588.7	587.3	584.7	584.5	585.6	584.5	584.7	587.3
175°	597.3	593.8	591.5	591.5	590.3	589.1	589.1	590.3	589.1	589.1	590.3
177.5°	594.2	592.4	591.5	591.5	591.5	590.5	591.5	592.4	591.5	590.5	591.5
180°	591.5	591.5	591.5	591.5	591.5	591.5	591.5	591.5	591.5	591.5	591.5



TEST NUMBER: P332891

CATALOG NUMBER: SA4XXRDIP-C350D1205U835-4F0-1E-UDD-A4

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°	6.6	6.4	7.8	7.4	8.1	8.5	8.1	8.3	8.8	8.6	8.6
90°	9.3	9.3	16.3	16.3	18.6	20.9	19.8	20.9	22.1	23.2	23.2
92.5°	61.4	85.5	144.6	234.7	322.6	368.6	307.0	228.2	171.7	136.7	113.4
95°	96.4	145.3	246.3	436.9	714.6	947.0	973.8	861.0	680.9	525.2	412.5
97.5°	116.7	157.6	235.4	392.8	668.8	997.5	1223.4	1272.2	1205.2	1091.6	970.3
100°	132.5	169.7	238.2	369.5	606.6	934.2	1231.7	1401.4	1424.6	1367.7	1281.7
102.5°	150.1	185.5	247.5	363.0	564.7	855.2	1162.0	1394.9	1510.1	1526.6	1490.8
105°	180.1	213.8	269.6	366.0	528.7	762.3	1035.3	1301.4	1502.5	1617.5	1665.1
107.5°	211.0	244.3	295.4	383.2	522.2	710.2	933.1	1168.7	1382.8	1544.8	1648.4
110°	232.4	263.8	314.9	396.2	524.1	692.6	882.0	1088.8	1289.8	1458.3	1586.1



TEST NUMBER: P332891

CATALOG NUMBER: SA4XXRDIP-C350D1205U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	252.9	284.2	333.5	410.2	529.6	684.2	853.1	1030.2	1208.0	1367.2	1495.0
115°	284.7	316.1	362.5	432.3	540.3	679.8	826.2	971.4	1114.4	1250.3	1361.9
117.5°	314.0	346.5	390.7	454.8	551.7	678.6	814.1	942.6	1060.9	1167.8	1262.4
120°	333.5	366.0	410.2	470.6	560.1	678.6	807.6	929.6	1037.7	1130.6	1213.1
122.5°	353.0	384.6	428.8	485.5	568.5	677.7	800.2	918.4	1022.8	1107.4	1179.7
125°	380.0	412.5	454.3	507.8	581.0	676.3	787.8	899.4	999.3	1079.5	1143.4
127.5°	404.8	437.6	478.0	527.1	591.0	673.7	771.3	876.1	971.7	1051.6	1112.3
130°	420.6	454.3	493.9	539.2	598.4	672.8	761.1	857.6	949.4	1028.4	1090.0
132.5°	435.5	467.4	506.9	551.3	604.9	671.9	751.8	838.0	924.3	1001.4	1063.0
135°	456.7	486.9	525.2	567.1	614.7	670.5	737.9	811.1	886.6	957.5	1015.6
137.5°	474.6	503.4	539.2	578.2	620.5	670.2	725.8	786.7	850.6	910.3	962.8
140°	485.7	513.6	548.5	585.6	625.2	669.3	719.3	772.7	827.3	879.6	928.4
142.5°	495.9	522.9	556.8	591.2	628.9	669.3	713.7	759.7	807.8	852.7	895.0
145°	510.1	535.7	565.9	597.3	631.0	667.0	704.2	741.4	780.9	815.7	848.3
147.5°	523.8	546.8	575.2	602.6	632.1	662.8	695.6	726.3	757.6	785.5	811.1
150°	532.2	554.3	579.8	605.4	632.1	660.0	689.1	717.0	743.7	766.9	787.8
152.5°	540.6	560.8	583.6	607.3	630.3	655.4	681.6	706.7	729.7	751.1	768.3
155°	552.0	569.4	589.1	608.9	627.5	648.4	670.5	691.4	710.0	727.4	741.4
157.5°	562.6	576.4	593.1	608.9	624.5	641.2	659.1	674.9	690.5	705.1	716.3
160°	568.2	581.0	594.9	608.9	621.7	635.6	650.7	664.7	677.4	690.2	699.5
162.5°	573.8	583.8	596.8	608.9	618.9	630.0	643.3	654.4	665.4	675.4	683.7
165°	579.8	586.8	597.3	606.6	613.5	621.7	631.0	640.3	647.2	655.4	661.2
167.5°	584.0	589.4	597.0	603.8	608.0	613.3	619.8	626.6	631.9	638.4	641.9
170°	586.8	590.3	596.1	601.9	604.2	607.7	612.4	618.2	621.7	626.3	629.8
172.5°	588.7	591.2	595.2	600.1	600.5	602.1	605.9	610.7	613.3	616.1	618.6
175°	591.5	591.5	593.8	597.3	596.1	596.1	598.4	600.8	601.9	604.2	604.2
177.5°	591.5	591.5	592.4	594.2	592.4	592.4	593.3	594.2	595.2	595.2	596.1
180°	591.5	591.5	591.5	591.5	591.5	591.5	591.5	591.5	591.5	591.5	591.5



TEST NUMBER: P332891

CATALOG NUMBER: SA4XXRDIP-C350D1205U835-4F0-1E-UDD-A4

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°	9.2	9.3	8.9	9.0	8.9	9.3	9.2	8.6	8.6	8.8	8.3
90°	24.4	25.6	24.4	24.4	24.4	25.6	24.4	23.2	23.2	22.1	20.9
92.5°	99.7	93.4	89.5	89.5	89.5	93.4	99.7	113.4	136.7	171.7	228.2
95°	355.6	319.6	298.6	283.5	298.6	319.6	355.6	412.5	525.2	680.9	861.0
97.5°	886.8	816.9	782.0	757.9	782.0	816.9	886.8	970.3	1091.6	1205.2	1272.2
100°	1180.6	1109.7	1074.9	1065.6	1074.9	1109.7	1180.6	1281.7	1367.7	1424.6	1401.4
102.5°	1428.8	1377.4	1340.7	1333.3	1340.7	1377.4	1428.8	1490.8	1526.6	1510.1	1394.9
105°	1667.5	1658.2	1641.9	1634.9	1641.9	1658.2	1667.5	1665.1	1617.5	1502.5	1301.4
107.5°	1705.8	1732.3	1743.9	1747.0	1743.9	1732.3	1705.8	1648.4	1544.8	1382.8	1168.7
110°	1668.6	1717.4	1738.4	1748.8	1738.4	1717.4	1668.6	1586.1	1458.3	1289.8	1088.8



TEST NUMBER: P332891

CATALOG NUMBER: SA4XXRDIP-C350D1205U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1588.7	1647.7	1677.0	1694.0	1677.0	1647.7	1588.7	1495.0	1367.2	1208.0	1030.2
115°	1453.7	1523.4	1560.6	1569.9	1560.6	1523.4	1453.7	1361.9	1250.3	1114.4	971.4
117.5°	1340.7	1399.3	1436.9	1444.1	1436.9	1399.3	1340.7	1262.4	1167.8	1060.9	942.6
120°	1279.4	1330.5	1360.7	1373.5	1360.7	1330.5	1279.4	1213.1	1130.6	1037.7	929.6
122.5°	1235.7	1279.4	1304.9	1317.7	1304.9	1279.4	1235.7	1179.7	1107.4	1022.8	918.4
125°	1189.9	1223.6	1245.7	1252.6	1245.7	1223.6	1189.9	1143.4	1079.5	999.3	899.4
127.5°	1159.0	1189.0	1207.6	1214.5	1207.6	1189.0	1159.0	1112.3	1051.6	971.7	876.1
130°	1137.6	1166.6	1185.2	1192.2	1185.2	1166.6	1137.6	1090.0	1028.4	949.4	857.6
132.5°	1109.7	1142.5	1160.1	1167.1	1160.1	1142.5	1109.7	1063.0	1001.4	924.3	838.0
135°	1062.1	1094.6	1113.2	1120.2	1113.2	1094.6	1062.1	1015.6	957.5	886.6	811.1
137.5°	1006.3	1038.4	1053.7	1062.1	1053.7	1038.4	1006.3	962.8	910.3	850.6	786.7
140°	969.1	994.7	1010.9	1020.2	1010.9	994.7	969.1	928.4	879.6	827.3	772.7
142.5°	931.0	954.7	969.1	975.6	969.1	954.7	931.0	895.0	852.7	807.8	759.7
145°	877.3	897.1	908.7	914.5	908.7	897.1	877.3	848.3	815.7	780.9	741.4
147.5°	832.5	849.4	858.3	860.3	858.3	849.4	832.5	811.1	785.5	757.6	726.3
150°	806.4	821.5	828.5	829.7	828.5	821.5	806.4	787.8	766.9	743.7	717.0
152.5°	784.1	796.4	800.6	801.8	800.6	796.4	784.1	768.3	751.1	729.7	706.7
155°	753.0	762.3	765.8	765.8	765.8	762.3	753.0	741.4	727.4	710.0	691.4
157.5°	725.1	732.1	734.2	734.2	734.2	732.1	725.1	716.3	705.1	690.5	674.9
160°	706.5	713.5	714.6	714.6	714.6	713.5	706.5	699.5	690.2	677.4	664.7
162.5°	688.8	695.8	697.0	696.0	697.0	695.8	688.8	683.7	675.4	665.4	654.4
165°	665.8	670.5	669.3	668.2	669.3	670.5	665.8	661.2	655.4	647.2	640.3
167.5°	644.2	647.2	647.0	646.1	647.0	647.2	644.2	641.9	638.4	631.9	626.6
170°	632.1	633.3	632.1	632.1	632.1	633.3	632.1	629.8	626.3	621.7	618.2
172.5°	620.0	621.2	620.0	618.2	620.0	621.2	620.0	618.6	616.1	613.3	610.7
175°	604.2	606.6	604.2	601.9	604.2	606.6	604.2	604.2	604.2	601.9	600.8
177.5°	595.2	596.1	594.2	592.4	594.2	596.1	595.2	596.1	595.2	595.2	594.2
180°	591.5	591.5	591.5	591.5	591.5	591.5	591.5	591.5	591.5	591.5	591.5



TEST NUMBER: P332891

CATALOG NUMBER: SA4XXRDIP-C350D1205U835-4F0-1E-UDD-A4

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°	8.1	8.5	8.1	7.4	7.8	6.4	6.6	6.4	6.7	6.6	6.7
90°	19.8	20.9	18.6	16.3	16.3	9.3	9.3	8.1	7.0	3.5	1.2
92.5°	307.0	368.6	322.6	234.7	144.6	85.5	61.4	44.4	30.2	19.3	13.2
95°	973.8	947.0	714.6	436.9	246.3	145.3	96.4	68.6	53.5	41.8	38.3
97.5°	1223.4	997.5	668.8	392.8	235.4	157.6	116.7	92.7	78.8	68.8	68.8
100°	1231.7	934.2	606.6	369.5	238.2	169.7	132.5	110.4	96.4	88.3	88.3
102.5°	1162.0	855.2	564.7	363.0	247.5	185.5	150.1	129.0	116.0	108.8	106.9
105°	1035.3	762.3	528.7	366.0	269.6	213.8	180.1	159.2	145.3	139.4	136.0
107.5°	933.1	710.2	522.2	383.2	295.4	244.3	211.0	191.0	176.2	170.3	168.0
110°	882.0	692.6	524.1	396.2	314.9	263.8	232.4	211.5	197.5	191.7	189.4



TEST NUMBER: P332891

CATALOG NUMBER: SA4XXRDIP-C350D1205U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	853.1	684.2	529.6	410.2	333.5	284.2	252.9	231.9	218.9	212.2	209.9
115°	826.2	679.8	540.3	432.3	362.5	316.1	284.7	262.6	251.0	242.9	239.4
117.5°	814.1	678.6	551.7	454.8	390.7	346.5	314.0	293.3	280.5	273.3	270.0
120°	807.6	678.6	560.1	470.6	410.2	366.0	333.5	313.7	301.0	292.8	290.5
122.5°	800.2	677.7	568.5	485.5	428.8	384.6	353.0	331.4	319.6	311.4	309.1
125°	787.8	676.3	581.0	507.8	454.3	412.5	380.0	357.9	345.1	338.1	333.5
127.5°	771.3	673.7	591.0	527.1	478.0	437.6	404.8	381.8	367.2	358.8	355.1
130°	761.1	672.8	598.4	539.2	493.9	454.3	420.6	398.6	381.1	371.8	367.2
132.5°	751.8	671.9	604.9	551.3	506.9	467.4	435.5	411.6	395.1	383.0	379.3
135°	737.9	670.5	614.7	567.1	525.2	486.9	456.7	432.3	412.5	400.9	396.2
137.5°	725.8	670.2	620.5	578.2	539.2	503.4	474.6	449.2	430.4	417.6	413.2
140°	719.3	669.3	625.2	585.6	548.5	513.6	485.7	461.3	441.6	428.8	425.3
142.5°	713.7	669.3	628.9	591.2	556.8	522.9	495.9	472.5	453.6	441.8	438.3
145°	704.2	667.0	631.0	597.3	565.9	535.7	510.1	488.0	471.8	460.2	456.7
147.5°	695.6	662.8	632.1	602.6	575.2	546.8	523.8	505.5	488.7	478.5	477.3
150°	689.1	660.0	632.1	605.4	579.8	554.3	532.2	514.8	500.8	491.5	490.4
152.5°	681.6	655.4	630.3	607.3	583.6	560.8	540.6	525.0	512.0	502.7	502.4
155°	670.5	648.4	627.5	608.9	589.1	569.4	552.0	539.2	527.5	520.6	519.4
157.5°	659.1	641.2	624.5	608.9	593.1	576.4	562.6	551.5	542.4	535.9	535.9
160°	650.7	635.6	621.7	608.9	594.9	581.0	568.2	558.9	550.8	546.1	546.1
162.5°	643.3	630.0	618.9	608.9	596.8	583.8	573.8	565.4	558.2	554.5	555.4
165°	631.0	621.7	613.5	606.6	597.3	586.8	579.8	574.0	568.2	565.9	565.9
167.5°	619.8	613.3	608.0	603.8	597.0	589.4	584.0	580.8	576.4	575.2	576.4
170°	612.4	607.7	604.2	601.9	596.1	590.3	586.8	584.5	581.0	579.8	581.0
172.5°	605.9	602.1	600.5	600.1	595.2	591.2	588.7	587.3	584.7	584.5	585.6
175°	598.4	596.1	596.1	597.3	593.8	591.5	591.5	590.3	589.1	589.1	590.3
177.5°	593.3	592.4	592.4	594.2	592.4	591.5	591.5	591.5	590.5	591.5	592.4
180°	591.5	591.5	591.5	591.5	591.5	591.5	591.5	591.5	591.5	591.5	591.5



TEST NUMBER: P332891

CATALOG NUMBER: SA4XXRDIP-C350D1205U835-4F0-1E-UDD-A4

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°	6.9	7.1	6.5	6.6	6.6	7.6	7.8	8.3	8.7	8.3	8.9
90°	3.5	7.0	8.1	9.3	9.3	16.3	16.3	18.6	20.9	19.8	20.9
92.5°	19.3	30.2	44.4	61.4	85.5	144.6	234.7	322.6	368.6	307.0	228.2
95°	41.8	53.5	68.6	96.4	145.3	246.3	436.9	714.6	947.0	973.8	861.0
97.5°	68.8	78.8	92.7	116.7	157.6	235.4	392.8	668.8	997.5	1223.4	1272.2
100°	88.3	96.4	110.4	132.5	169.7	238.2	369.5	606.6	934.2	1231.7	1401.4
102.5°	108.8	116.0	129.0	150.1	185.5	247.5	363.0	564.7	855.2	1162.0	1394.9
105°	139.4	145.3	159.2	180.1	213.8	269.6	366.0	528.7	762.3	1035.3	1301.4
107.5°	170.3	176.2	191.0	211.0	244.3	295.4	383.2	522.2	710.2	933.1	1168.7
110°	191.7	197.5	211.5	232.4	263.8	314.9	396.2	524.1	692.6	882.0	1088.8



TEST NUMBER: P332891

CATALOG NUMBER: SA4XXRDIP-C350D1205U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	212.2	218.9	231.9	252.9	284.2	333.5	410.2	529.6	684.2	853.1	1030.2
115°	242.9	251.0	262.6	284.7	316.1	362.5	432.3	540.3	679.8	826.2	971.4
117.5°	273.3	280.5	293.3	314.0	346.5	390.7	454.8	551.7	678.6	814.1	942.6
120°	292.8	301.0	313.7	333.5	366.0	410.2	470.6	560.1	678.6	807.6	929.6
122.5°	311.4	319.6	331.4	353.0	384.6	428.8	485.5	568.5	677.7	800.2	918.4
125°	338.1	345.1	357.9	380.0	412.5	454.3	507.8	581.0	676.3	787.8	899.4
127.5°	358.8	367.2	381.8	404.8	437.6	478.0	527.1	591.0	673.7	771.3	876.1
130°	371.8	381.1	398.6	420.6	454.3	493.9	539.2	598.4	672.8	761.1	857.6
132.5°	383.0	395.1	411.6	435.5	467.4	506.9	551.3	604.9	671.9	751.8	838.0
135°	400.9	412.5	432.3	456.7	486.9	525.2	567.1	614.7	670.5	737.9	811.1
137.5°	417.6	430.4	449.2	474.6	503.4	539.2	578.2	620.5	670.2	725.8	786.7
140°	428.8	441.6	461.3	485.7	513.6	548.5	585.6	625.2	669.3	719.3	772.7
142.5°	441.8	453.6	472.5	495.9	522.9	556.8	591.2	628.9	669.3	713.7	759.7
145°	460.2	471.8	488.0	510.1	535.7	565.9	597.3	631.0	667.0	704.2	741.4
147.5°	478.5	488.7	505.5	523.8	546.8	575.2	602.6	632.1	662.8	695.6	726.3
150°	491.5	500.8	514.8	532.2	554.3	579.8	605.4	632.1	660.0	689.1	717.0
152.5°	502.7	512.0	525.0	540.6	560.8	583.6	607.3	630.3	655.4	681.6	706.7
155°	520.6	527.5	539.2	552.0	569.4	589.1	608.9	627.5	648.4	670.5	691.4
157.5°	535.9	542.4	551.5	562.6	576.4	593.1	608.9	624.5	641.2	659.1	674.9
160°	546.1	550.8	558.9	568.2	581.0	594.9	608.9	621.7	635.6	650.7	664.7
162.5°	554.5	558.2	565.4	573.8	583.8	596.8	608.9	618.9	630.0	643.3	654.4
165°	565.9	568.2	574.0	579.8	586.8	597.3	606.6	613.5	621.7	631.0	640.3
167.5°	575.2	576.4	580.8	584.0	589.4	597.0	603.8	608.0	613.3	619.8	626.6
170°	579.8	581.0	584.5	586.8	590.3	596.1	601.9	604.2	607.7	612.4	618.2
172.5°	584.5	584.7	587.3	588.7	591.2	595.2	600.1	600.5	602.1	605.9	610.7
175°	589.1	589.1	590.3	591.5	591.5	593.8	597.3	596.1	596.1	598.4	600.8
177.5°	591.5	590.5	591.5	591.5	591.5	592.4	594.2	592.4	592.4	593.3	594.2
180°	591.5	591.5	591.5	591.5	591.5	591.5	591.5	591.5	591.5	591.5	591.5



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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°	8.8	8.8	9.0	9.0	9.3	8.9	9.0
90°	22.1	23.2	23.2	24.4	25.6	24.4	24.4
92.5°	171.7	136.7	113.4	99.7	93.4	89.5	89.5
95°	680.9	525.2	412.5	355.6	319.6	298.6	283.5
97.5°	1205.2	1091.6	970.3	886.8	816.9	782.0	757.9
100°	1424.6	1367.7	1281.7	1180.6	1109.7	1074.9	1065.6
102.5°	1510.1	1526.6	1490.8	1428.8	1377.4	1340.7	1333.3
105°	1502.5	1617.5	1665.1	1667.5	1658.2	1641.9	1634.9
107.5°	1382.8	1544.8	1648.4	1705.8	1732.3	1743.9	1747.0
110°	1289.8	1458.3	1586.1	1668.6	1717.4	1738.4	1748.8



TEST NUMBER: P332891

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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	1208.0	1367.2	1495.0	1588.7	1647.7	1677.0	1694.0
115°	1114.4	1250.3	1361.9	1453.7	1523.4	1560.6	1569.9
117.5°	1060.9	1167.8	1262.4	1340.7	1399.3	1436.9	1444.1
120°	1037.7	1130.6	1213.1	1279.4	1330.5	1360.7	1373.5
122.5°	1022.8	1107.4	1179.7	1235.7	1279.4	1304.9	1317.7
125°	999.3	1079.5	1143.4	1189.9	1223.6	1245.7	1252.6
127.5°	971.7	1051.6	1112.3	1159.0	1189.0	1207.6	1214.5
130°	949.4	1028.4	1090.0	1137.6	1166.6	1185.2	1192.2
132.5°	924.3	1001.4	1063.0	1109.7	1142.5	1160.1	1167.1
135°	886.6	957.5	1015.6	1062.1	1094.6	1113.2	1120.2
137.5°	850.6	910.3	962.8	1006.3	1038.4	1053.7	1062.1
140°	827.3	879.6	928.4	969.1	994.7	1010.9	1020.2
142.5°	807.8	852.7	895.0	931.0	954.7	969.1	975.6
145°	780.9	815.7	848.3	877.3	897.1	908.7	914.5
147.5°	757.6	785.5	811.1	832.5	849.4	858.3	860.3
150°	743.7	766.9	787.8	806.4	821.5	828.5	829.7
152.5°	729.7	751.1	768.3	784.1	796.4	800.6	801.8
155°	710.0	727.4	741.4	753.0	762.3	765.8	765.8
157.5°	690.5	705.1	716.3	725.1	732.1	734.2	734.2
160°	677.4	690.2	699.5	706.5	713.5	714.6	714.6
162.5°	665.4	675.4	683.7	688.8	695.8	697.0	696.0
165°	647.2	655.4	661.2	665.8	670.5	669.3	668.2
167.5°	631.9	638.4	641.9	644.2	647.2	647.0	646.1
170°	621.7	626.3	629.8	632.1	633.3	632.1	632.1
172.5°	613.3	616.1	618.6	620.0	621.2	620.0	618.2
175°	601.9	604.2	604.2	604.2	606.6	604.2	601.9
177.5°	595.2	595.2	596.1	595.2	596.1	594.2	592.4
180°	591.5	591.5	591.5	591.5	591.5	591.5	591.5

(END OF REPORT)