

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P332872-830

Luminaire Tested: **SA4XXRDIP-C350D590U830-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332872-830
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-C350D590U830-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 350 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 590 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

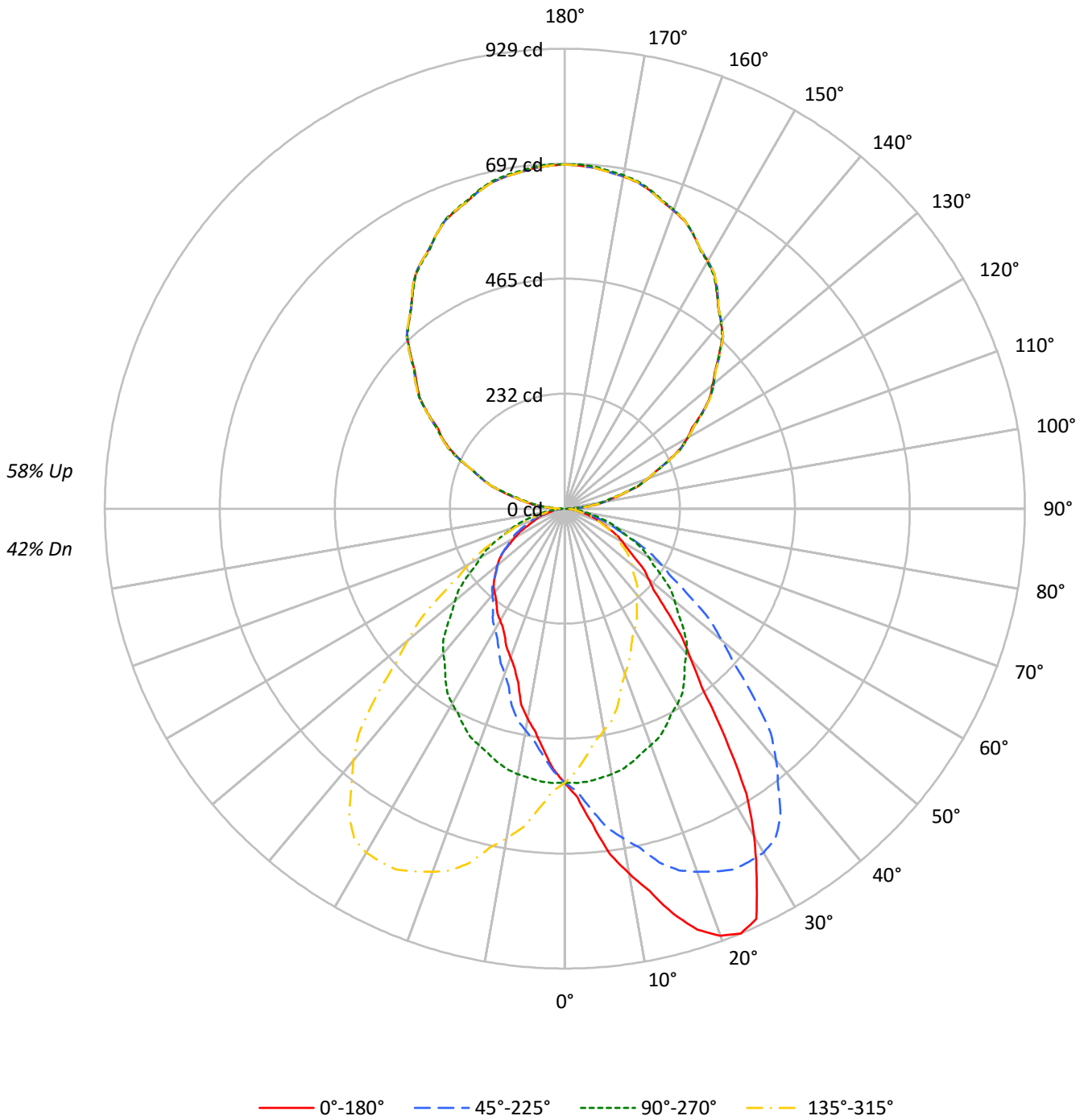
Lumens per Lamp: N/A
Luminaire Lumens: 3330.1 lumens
Efficiency: N/A
Efficacy: 130.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 25.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49	42				
1	96	92	89	85	88	84	81	78	70	68	66	56	55	53	44	43	42	36				
2	88	81	75	70	80	74	69	65	62	58	55	50	47	45	39	37	36	31				
3	81	71	64	59	73	66	60	55	55	50	46	44	41	39	35	33	31	27				
4	74	63	56	50	67	58	52	47	49	44	40	40	36	33	31	29	27	23				
5	68	57	49	43	62	52	45	40	44	38	35	36	32	29	28	26	24	20				
6	63	51	43	37	57	47	40	35	39	34	30	32	29	26	26	23	21	18				
7	58	46	38	33	53	42	36	31	36	31	27	29	26	23	24	21	19	16				
8	54	42	34	29	49	39	32	27	33	27	24	27	23	20	22	19	17	14				
9	50	38	31	26	46	35	29	24	30	25	21	25	21	18	20	17	15	13				
10	47	35	28	23	43	32	26	22	28	23	19	23	19	16	19	16	14	12				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4469	4469	4469	4469
5°	5185	4483	3963	4483
10°	6133	4464	3536	4464
15°	7084	4422	3039	4422
20°	7887	4365	2748	4365
25°	8143	4309	2551	4309
30°	7128	4242	2433	4242
35°	5549	4142	2361	4142
40°	4161	4027	2323	4027
45°	3286	3843	2302	3843
50°	2773	3631	2236	3631
55°	2417	3398	2115	3398
60°	2175	3155	1873	3155
65°	1918	2894	1612	2894
70°	1725	2622	1452	2622
75°	1447	2324	1238	2324
80°	1223	1980	1162	1980
85°	1028	1556	1028	1556



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.6	1.6
10°-20°	161.8	4.9
20°-30°	253.1	7.6
30°-40°	281.4	8.4
40°-50°	249.6	7.5
50°-60°	194.5	5.8
60°-70°	127.4	3.8
70°-80°	62.6	1.9
80°-90°	17.5	0.5
90°-100°	45.8	1.4
100°-110°	135.8	4.1
110°-120°	230.5	6.9
120°-130°	304.0	9.1
130°-140°	341.4	10.3
140°-150°	335.4	10.1
150°-160°	282.1	8.5
160°-170°	187.7	5.6
170°-180°	65.7	2.0
0°-30°	468.6	14.1
0°-40°	749.9	22.5
0°-60°	1194.1	35.9
0°-90°	1401.6	42.1
90°-120°	412.2	12.4
90°-150°	1392.9	41.8
90°-180°	1928.0	57.9
0°-180°	3330.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	554	554	554	554	554	
5°	640	553	489	553	640	65
15°	848	529	364	529	848	241
25°	914	484	286	484	914	406
35°	563	420	240	420	563	353
45°	288	337	202	337	288	228
55°	172	241	150	241	172	156
65°	100	152	84	152	100	101
75°	46	74	40	74	46	51
85°	11	17	11	17	11	13
90°	16	2	16	2	16	9
95°	42	32	42	32	42	44
105°	131	125	131	125	131	138
115°	232	234	232	234	232	230
125°	339	341	339	341	339	302
135°	441	440	441	440	441	340
145°	536	535	536	535	536	335
155°	612	613	612	613	612	282
165°	666	667	666	667	666	187
175°	691	694	691	694	691	66
180°	695	695	695	695	695	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6
2.5°	584.0	585.6	584.0	583.8	582.0	581.5	580.8	578.4	574.2	571.7	572.2
5°	639.8	645.4	642.2	641.8	636.9	632.0	628.9	621.7	614.1	609.0	604.7
7.5°	704.3	707.5	705.5	702.4	694.5	689.9	682.7	673.4	659.7	649.3	639.8
10°	748.2	750.8	750.0	744.1	738.4	726.5	719.8	706.7	689.5	675.9	663.2
12.5°	791.4	794.2	786.4	786.6	775.6	766.3	755.7	739.1	719.3	701.8	685.9
15°	847.6	844.0	844.0	839.6	827.4	814.5	803.5	786.1	761.1	740.2	718.0
17.5°	891.7	893.0	891.2	880.6	871.0	857.6	837.5	817.3	794.1	765.9	743.4
20°	918.1	918.1	916.2	909.0	896.5	882.2	860.6	838.5	809.1	780.7	755.4
22.5°	928.9	929.5	927.2	921.3	910.1	896.2	877.7	855.3	824.9	793.1	761.6
25°	914.2	918.4	918.8	917.3	913.9	905.4	889.6	866.7	839.4	804.8	770.9
27.5°	839.2	844.6	849.3	857.1	867.3	872.6	873.4	861.7	837.9	804.6	770.5
30°	764.7	769.1	783.6	802.6	817.3	830.7	842.4	845.5	832.1	802.2	766.3
32.5°	681.8	688.0	702.5	722.8	747.3	770.1	796.1	809.4	809.0	791.1	757.9
35°	563.0	567.5	580.9	602.3	631.7	665.4	706.7	738.8	760.6	759.1	738.8
37.5°	454.1	459.1	472.6	490.4	519.0	560.6	600.6	644.9	685.2	707.9	701.2
40°	394.8	395.0	408.2	426.5	453.3	489.7	533.1	582.2	627.3	664.1	671.2
42.5°	348.1	348.1	356.8	376.5	395.8	430.0	471.6	520.3	573.1	615.6	634.4
45°	287.8	289.7	296.9	308.7	323.9	352.9	386.2	431.4	490.5	540.9	572.4
47.5°	243.6	246.7	251.2	260.8	272.9	292.2	319.7	360.4	408.5	463.9	508.7
50°	220.8	221.3	227.1	232.4	242.9	258.4	282.4	316.3	360.5	413.8	463.5
52.5°	201.2	201.1	204.6	211.4	219.9	231.9	251.4	282.2	321.4	369.2	420.6
55°	171.7	172.9	175.6	180.9	187.4	195.9	211.2	234.4	265.2	306.0	352.7
57.5°	149.4	150.0	152.0	154.3	160.2	166.5	178.0	194.1	220.0	253.4	296.9
60°	134.7	135.0	135.6	138.9	143.6	149.5	157.3	170.9	192.7	223.3	257.7
62.5°	120.5	120.8	121.9	124.3	128.0	132.0	140.2	151.1	169.2	195.3	226.2
65°	100.4	100.6	102.2	103.0	105.9	109.5	115.6	122.9	135.4	157.3	180.7
67.5°	83.9	83.9	84.0	85.2	87.2	89.5	93.1	99.1	108.5	121.9	142.5
70°	73.1	73.1	73.6	74.3	75.4	77.4	79.5	83.9	90.8	101.7	117.5
72.5°	63.2	63.3	63.8	63.9	64.5	66.2	67.7	70.5	75.6	83.9	96.7
75°	46.4	47.0	48.2	49.1	50.2	50.0	51.6	53.3	54.9	59.8	67.1
77.5°	34.5	34.2	34.3	35.1	35.2	35.4	36.6	37.9	39.1	41.4	44.0
80°	26.3	26.3	27.0	27.2	27.0	27.2	28.4	29.0	29.4	30.3	32.8
82.5°	19.9	20.3	20.1	20.3	20.4	20.6	21.6	21.7	22.1	22.5	23.5
85°	11.1	11.4	11.6	11.1	11.1	11.1	11.6	11.8	12.3	12.1	12.5
87.5°	7.2	6.9	7.1	7.0	7.2	6.9	6.9	7.1	6.6	6.7	6.5
90°	16.1	15.9	15.6	15.5	15.2	14.7	13.9	13.3	12.5	11.8	10.8
92.5°	23.8	23.8	23.6	23.5	23.3	23.0	22.6	22.1	21.7	21.3	20.6
95°	42.5	42.5	42.5	42.5	42.5	42.3	41.9	41.6	41.2	40.8	40.1
97.5°	66.5	66.5	66.5	66.5	66.5	66.4	65.9	65.5	65.0	64.7	63.6
100°	83.3	83.3	83.3	83.3	83.3	83.2	82.9	82.8	82.5	82.3	81.2
102.5°	102.3	102.2	102.1	102.0	101.9	101.6	101.3	100.9	100.7	100.3	99.3
105°	131.2	130.8	130.4	130.1	129.7	129.4	129.0	128.7	128.3	127.9	127.4
107.5°	159.4	159.4	159.4	159.4	159.5	159.3	158.9	158.6	158.3	158.0	157.9
110°	179.6	179.2	178.8	178.5	178.1	178.0	178.3	178.5	178.8	179.0	179.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	200.2	200.1	200.0	200.0	199.9	199.9	199.9	200.0	200.0	200.1	200.3
115°	232.2	232.3	232.4	232.6	232.7	232.8	233.0	233.1	233.2	233.3	233.6
117.5°	262.8	263.0	263.3	263.4	263.7	264.0	264.5	264.9	265.2	265.7	265.8
120°	286.0	285.8	285.5	285.3	285.0	285.2	285.8	286.4	287.0	287.6	287.9
122.5°	305.4	305.8	306.2	306.6	307.1	307.5	307.9	308.3	308.7	309.2	309.2
125°	338.7	338.9	339.1	339.4	339.6	339.9	340.1	340.4	340.5	340.8	340.9
127.5°	369.6	369.8	369.9	370.1	370.3	370.5	370.8	371.0	371.3	371.5	371.6
130°	389.7	390.2	390.7	391.2	391.6	392.0	392.3	392.5	392.8	392.9	392.9
132.5°	411.2	411.4	411.6	411.8	412.0	412.3	412.5	412.7	412.9	413.2	413.3
135°	440.8	441.2	441.5	441.9	442.2	442.5	442.8	443.0	443.3	443.5	443.5
137.5°	471.9	471.8	471.7	471.6	471.6	471.7	472.0	472.3	472.7	473.0	472.8
140°	490.8	491.0	491.1	491.2	491.3	491.4	491.5	491.6	491.7	491.9	491.9
142.5°	509.7	509.7	509.8	509.8	509.8	509.8	509.9	509.9	509.9	509.9	510.0
145°	535.5	535.7	536.1	536.5	536.9	537.1	537.2	537.3	537.4	537.5	537.4
147.5°	561.5	561.6	561.7	561.8	561.9	562.0	562.1	562.2	562.3	562.4	562.5
150°	577.4	577.5	577.6	577.7	577.9	577.9	577.9	577.9	577.9	577.9	577.9
152.5°	592.0	592.3	592.6	593.0	593.2	593.2	593.0	592.7	592.4	592.1	592.0
155°	612.3	612.7	613.2	613.7	614.3	614.3	613.7	613.2	612.7	612.3	612.5
157.5°	630.5	630.8	631.3	631.7	632.1	632.2	631.8	631.4	631.0	630.7	630.7
160°	640.8	641.4	642.0	642.6	643.2	643.3	642.9	642.6	642.2	641.9	642.0
162.5°	651.6	652.1	652.7	653.4	653.9	653.9	653.3	652.6	652.0	651.3	651.5
165°	665.5	666.0	666.5	666.9	667.4	667.3	666.6	665.9	665.2	664.5	664.7
167.5°	675.5	676.3	677.0	677.8	678.4	678.5	677.8	677.0	676.4	675.6	675.6
170°	681.1	681.9	682.8	683.6	684.5	684.5	683.8	683.1	682.4	681.6	681.6
172.5°	685.9	686.6	687.5	688.3	689.2	689.2	688.4	687.6	686.7	686.0	685.9
175°	690.8	691.6	692.5	693.3	694.1	694.1	693.3	692.5	691.6	690.8	690.9
177.5°	693.3	694.1	694.9	695.7	696.4	696.4	695.8	695.1	694.5	693.8	693.8
180°	695.1	695.1	695.1	695.1	695.1	695.1	695.1	695.1	695.1	695.1	695.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6
2.5°	570.4	568.0	566.7	563.8	560.4	558.6	557.0	554.7	551.7	548.5	546.2
5°	599.4	594.0	587.3	579.3	572.2	565.2	559.2	553.2	546.3	539.1	532.1
7.5°	629.1	618.6	607.2	594.0	581.3	569.6	558.8	548.7	537.1	526.6	517.2
10°	649.8	635.6	619.7	602.9	586.3	571.7	557.4	544.5	530.3	517.6	506.8
12.5°	666.6	649.8	630.7	609.9	589.7	572.2	555.8	538.9	522.7	509.0	494.6
15°	694.4	671.5	645.8	620.8	594.7	570.8	548.7	529.1	510.6	491.2	477.6
17.5°	713.6	686.3	655.1	625.1	594.3	566.1	540.6	517.3	495.9	476.1	459.9
20°	725.0	694.8	660.3	626.1	591.5	561.5	534.0	508.1	486.1	464.7	447.9
22.5°	731.4	698.0	660.3	624.5	588.7	556.1	526.0	499.1	475.0	453.6	435.1
25°	733.5	697.8	659.2	618.1	578.9	544.3	513.0	483.8	457.0	435.6	416.0
27.5°	730.6	688.5	649.0	606.9	566.4	530.0	497.2	466.5	439.7	416.7	396.5
30°	726.3	681.3	638.9	595.1	554.1	519.1	484.5	455.1	427.2	403.3	383.0
32.5°	717.0	672.3	626.7	581.9	540.4	504.3	471.5	441.9	414.5	390.1	368.5
35°	698.6	653.4	603.9	557.9	517.1	479.6	448.8	420.3	394.2	368.1	345.3
37.5°	674.4	628.2	578.9	528.6	487.7	452.3	424.1	397.3	371.8	348.0	322.8
40°	651.6	609.4	558.6	508.6	466.7	432.5	406.4	382.1	356.5	332.8	307.6
42.5°	624.0	588.1	536.6	486.4	445.1	412.2	387.9	364.1	340.7	317.8	291.5
45°	577.8	550.5	502.4	454.2	412.5	379.8	357.6	336.6	316.1	294.3	269.5
47.5°	524.8	506.4	464.9	415.5	376.9	347.6	326.0	308.9	291.5	269.7	248.0
50°	488.0	476.3	436.1	391.1	354.2	327.3	305.2	289.1	274.6	253.6	234.2
52.5°	448.8	442.5	408.6	365.5	330.0	303.5	284.6	270.2	255.5	238.1	220.0
55°	389.0	392.4	363.6	326.3	292.8	270.6	253.4	241.4	228.8	214.1	200.1
57.5°	327.9	340.2	320.8	288.1	256.7	236.1	223.2	213.1	202.6	190.4	178.3
60°	291.3	301.6	290.7	261.8	234.4	215.3	203.2	195.4	184.9	173.8	164.7
62.5°	255.6	266.6	260.1	236.9	211.4	194.9	184.3	177.0	169.2	159.5	150.0
65°	210.8	217.9	214.8	198.8	180.7	166.6	156.8	151.5	144.3	137.2	128.8
67.5°	161.5	175.2	173.4	164.9	149.3	138.3	131.9	127.1	120.6	115.4	109.6
70°	132.7	145.4	145.2	138.3	129.8	119.6	115.1	111.1	105.3	100.2	95.5
72.5°	108.7	120.3	122.1	116.7	110.9	103.1	98.9	96.1	90.5	87.0	83.1
75°	76.1	84.5	86.8	86.8	84.1	80.1	76.3	74.5	70.5	67.4	65.1
77.5°	49.9	55.2	58.7	59.5	59.9	58.5	55.4	54.2	51.1	50.0	47.9
80°	35.3	38.8	42.8	44.2	45.2	44.9	43.5	42.6	39.7	38.5	37.7
82.5°	24.3	26.3	29.6	32.6	32.2	33.5	32.2	31.6	29.3	28.9	28.1
85°	12.7	12.9	13.4	15.4	16.5	17.0	17.2	16.8	16.0	16.0	14.5
87.5°	6.2	5.9	6.0	5.8	5.7	6.2	6.5	6.4	6.1	5.8	5.6
90°	9.9	9.0	8.0	6.9	5.6	4.2	2.9	1.6	2.9	4.2	5.6
92.5°	20.0	19.3	18.6	17.5	16.0	14.5	13.0	11.5	13.0	14.5	16.0
95°	39.2	38.4	37.5	36.6	35.4	34.4	33.4	32.2	33.4	34.4	35.4
97.5°	62.7	61.6	60.7	59.8	58.9	58.1	57.2	56.4	57.2	58.1	58.9
100°	80.1	79.0	77.9	77.2	76.7	76.3	75.8	75.2	75.8	76.3	76.7
102.5°	98.3	97.4	96.4	95.8	95.6	95.4	95.2	95.0	95.2	95.4	95.6
105°	127.0	126.5	126.0	125.7	125.6	125.5	125.4	125.3	125.4	125.5	125.6
107.5°	157.8	157.7	157.7	157.6	157.4	157.2	157.1	156.9	157.1	157.2	157.4
110°	179.3	179.4	179.5	179.5	179.2	179.0	178.7	178.5	178.7	179.0	179.2



TEST NUMBER: P332872-830

CATALOG NUMBER: SA4XXRDIP-C350D590U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	200.5	200.8	201.0	201.0	201.0	201.0	200.9	200.9	200.9	201.0	201.0
115°	233.8	234.0	234.2	234.4	234.4	234.4	234.4	234.4	234.4	234.4	234.4
117.5°	266.0	266.2	266.4	266.4	266.3	266.2	266.1	266.0	266.1	266.2	266.3
120°	288.3	288.7	289.1	289.0	288.5	288.0	287.6	287.1	287.6	288.0	288.5
122.5°	309.4	309.6	309.8	309.7	309.5	309.3	309.2	309.0	309.2	309.3	309.5
125°	341.1	341.2	341.3	341.4	341.4	341.4	341.4	341.4	341.4	341.4	341.4
127.5°	371.8	372.0	372.2	372.1	371.8	371.5	371.1	370.7	371.1	371.5	371.8
130°	392.9	392.9	392.9	392.8	392.5	392.1	391.7	391.3	391.7	392.1	392.5
132.5°	413.4	413.5	413.6	413.5	413.2	412.9	412.7	412.5	412.7	412.9	413.2
135°	443.5	443.5	443.5	443.2	442.4	441.7	441.0	440.3	441.0	441.7	442.4
137.5°	472.6	472.4	472.2	471.9	471.6	471.3	470.9	470.6	470.9	471.3	471.6
140°	491.9	491.9	491.9	491.7	491.5	491.3	491.1	490.8	491.1	491.3	491.5
142.5°	510.1	510.2	510.3	510.3	510.0	509.8	509.5	509.3	509.5	509.8	510.0
145°	537.3	537.2	537.1	536.8	536.3	535.8	535.4	534.9	535.4	535.8	536.3
147.5°	562.6	562.7	562.8	562.6	561.9	561.4	560.8	560.2	560.8	561.4	561.9
150°	577.9	577.9	577.9	577.7	577.2	576.7	576.3	575.7	576.3	576.7	577.2
152.5°	591.9	591.8	591.7	591.5	591.3	591.0	590.7	590.4	590.7	591.0	591.3
155°	612.6	612.7	612.7	612.8	612.8	612.8	612.8	612.8	612.8	612.8	612.8
157.5°	630.7	630.7	630.7	630.9	631.1	631.3	631.5	631.8	631.5	631.3	631.1
160°	642.2	642.2	642.3	642.4	642.6	642.7	642.8	642.9	642.8	642.7	642.6
162.5°	651.6	651.7	651.8	652.1	652.3	652.6	653.0	653.3	653.0	652.6	652.3
165°	665.0	665.2	665.4	665.7	666.1	666.4	666.8	667.1	666.8	666.4	666.1
167.5°	675.6	675.5	675.5	675.8	676.3	676.7	677.3	677.8	677.3	676.7	676.3
170°	681.4	681.3	681.2	681.4	682.0	682.6	683.2	683.8	683.2	682.6	682.0
172.5°	685.9	685.9	685.9	686.1	686.6	687.1	687.6	688.1	687.6	687.1	686.6
175°	691.1	691.2	691.3	691.6	692.2	692.9	693.4	694.0	693.4	692.9	692.2
177.5°	693.8	693.8	693.8	694.0	694.6	695.0	695.5	696.0	695.5	695.0	694.6
180°	695.1	695.1	695.1	695.1	695.1	695.1	695.1	695.1	695.1	695.1	695.1



TEST NUMBER: P332872-830

CATALOG NUMBER: SA4XXRDIP-C350D590U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6
2.5°	543.7	541.9	539.6	536.9	533.7	530.8	529.5	530.7	531.2	529.7	529.5
5°	527.1	521.5	517.1	510.4	505.0	500.6	497.5	496.1	496.5	492.9	492.1
7.5°	508.5	501.9	494.6	486.6	479.3	472.7	469.3	467.4	463.5	461.9	459.2
10°	496.5	487.7	480.5	471.1	462.6	454.9	451.0	447.9	444.1	442.3	438.6
12.5°	484.3	473.9	466.0	456.3	447.6	438.3	434.6	428.9	422.9	419.1	414.2
15°	466.8	454.4	444.8	433.2	422.9	412.3	402.7	391.9	388.0	379.5	374.6
17.5°	446.6	433.9	422.1	406.5	390.7	377.3	367.1	356.8	350.7	345.3	342.8
20°	433.2	421.6	405.1	387.0	369.4	354.7	346.4	339.7	333.0	329.2	326.6
22.5°	420.6	405.7	386.5	367.0	349.4	337.9	330.9	324.0	318.6	315.0	311.4
25°	399.3	379.8	359.6	337.2	325.3	315.2	307.6	302.0	298.7	294.0	292.2
27.5°	377.5	353.9	331.6	316.6	304.1	294.8	288.2	284.1	279.8	276.8	274.5
30°	360.7	336.9	316.8	302.5	289.7	282.2	276.8	271.9	268.5	266.1	264.4
32.5°	344.1	320.3	303.4	288.0	278.0	270.6	264.9	261.2	258.5	255.4	254.3
35°	320.1	298.9	284.2	270.3	260.1	253.4	248.9	245.2	242.9	242.0	241.4
37.5°	297.0	279.7	263.8	252.5	243.4	238.1	232.8	230.9	229.4	227.8	228.6
40°	282.4	266.1	252.0	240.1	232.6	226.9	223.8	221.5	220.2	220.2	220.2
42.5°	269.8	253.8	240.1	229.3	222.0	217.1	213.6	211.7	211.2	211.0	212.2
45°	250.1	235.4	221.5	212.5	206.3	201.4	199.4	197.8	197.8	198.8	199.0
47.5°	230.5	216.8	205.7	195.7	189.9	186.9	185.1	184.4	184.5	185.3	186.3
50°	218.6	205.0	194.1	185.1	179.8	176.9	175.3	174.8	175.3	175.3	176.9
52.5°	205.6	193.4	182.7	175.1	169.1	166.4	165.5	164.9	165.1	165.9	166.5
55°	186.5	175.6	165.3	158.2	153.7	151.9	149.9	150.1	149.7	150.1	150.1
57.5°	167.3	157.5	148.0	142.3	138.4	135.8	133.7	134.2	133.6	133.5	133.1
60°	155.0	144.3	136.8	131.6	127.1	124.9	122.9	123.4	122.7	122.2	121.3
62.5°	141.7	132.7	125.5	120.6	117.0	114.4	112.4	112.0	110.4	108.9	106.9
65°	122.2	114.9	108.4	103.8	100.4	98.4	96.8	95.5	92.1	88.6	86.8
67.5°	103.4	98.0	92.0	88.0	85.3	82.8	79.7	77.5	74.4	72.4	71.3
70°	91.2	86.1	81.0	77.2	74.3	71.8	68.5	66.9	64.7	63.8	62.7
72.5°	79.6	74.8	70.1	66.6	63.6	61.6	59.0	57.5	56.5	56.1	55.0
75°	62.0	58.2	54.7	51.6	49.1	47.7	46.7	45.5	45.1	43.1	41.9
77.5°	45.2	42.7	40.5	38.3	36.6	35.6	33.5	32.2	31.5	30.5	30.3
80°	35.3	33.5	31.2	29.9	27.4	26.6	25.6	25.4	25.2	25.0	24.8
82.5°	26.5	24.7	22.5	21.7	21.0	20.5	20.0	19.7	19.5	19.6	19.6
85°	13.4	12.5	12.5	12.3	12.1	11.8	11.6	11.6	11.4	11.6	11.4
87.5°	5.8	5.8	6.0	5.9	6.3	6.5	6.4	6.6	6.9	6.7	6.8
90°	6.9	8.0	9.0	9.9	10.8	11.8	12.5	13.3	13.9	14.7	15.2
92.5°	17.5	18.6	19.3	20.0	20.6	21.3	21.7	22.1	22.6	23.0	23.3
95°	36.6	37.5	38.4	39.2	40.1	40.8	41.2	41.6	41.9	42.3	42.5
97.5°	59.8	60.7	61.6	62.7	63.6	64.7	65.0	65.5	65.9	66.4	66.5
100°	77.2	77.9	79.0	80.1	81.2	82.3	82.5	82.8	82.9	83.2	83.3
102.5°	95.8	96.4	97.4	98.3	99.3	100.3	100.7	100.9	101.3	101.6	101.9
105°	125.7	126.0	126.5	127.0	127.4	127.9	128.3	128.7	129.0	129.4	129.7
107.5°	157.6	157.7	157.7	157.8	157.9	158.0	158.3	158.6	158.9	159.3	159.5
110°	179.5	179.5	179.4	179.3	179.2	179.0	178.8	178.5	178.3	178.0	178.1



TEST NUMBER: P332872-830

CATALOG NUMBER: SA4XXRDIP-C350D590U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	201.0	201.0	200.8	200.5	200.3	200.1	200.0	200.0	199.9	199.9	199.9
115°	234.4	234.2	234.0	233.8	233.6	233.3	233.2	233.1	233.0	232.8	232.7
117.5°	266.4	266.4	266.2	266.0	265.8	265.7	265.2	264.9	264.5	264.0	263.7
120°	289.0	289.1	288.7	288.3	287.9	287.6	287.0	286.4	285.8	285.2	285.0
122.5°	309.7	309.8	309.6	309.4	309.2	309.2	308.7	308.3	307.9	307.5	307.1
125°	341.4	341.3	341.2	341.1	340.9	340.8	340.5	340.4	340.1	339.9	339.6
127.5°	372.1	372.2	372.0	371.8	371.6	371.5	371.3	371.0	370.8	370.5	370.3
130°	392.8	392.9	392.9	392.9	392.9	392.9	392.8	392.5	392.3	392.0	391.6
132.5°	413.5	413.6	413.5	413.4	413.3	413.2	412.9	412.7	412.5	412.3	412.0
135°	443.2	443.5	443.5	443.5	443.5	443.5	443.3	443.0	442.8	442.5	442.2
137.5°	471.9	472.2	472.4	472.6	472.8	473.0	472.7	472.3	472.0	471.7	471.6
140°	491.7	491.9	491.9	491.9	491.9	491.9	491.7	491.6	491.5	491.4	491.3
142.5°	510.3	510.3	510.2	510.1	510.0	509.9	509.9	509.9	509.9	509.8	509.8
145°	536.8	537.1	537.2	537.3	537.4	537.5	537.4	537.3	537.2	537.1	536.9
147.5°	562.6	562.8	562.7	562.6	562.5	562.4	562.3	562.2	562.1	562.0	561.9
150°	577.7	577.9	577.9	577.9	577.9	577.9	577.9	577.9	577.9	577.9	577.9
152.5°	591.5	591.7	591.8	591.9	592.0	592.1	592.4	592.7	593.0	593.2	593.2
155°	612.8	612.7	612.7	612.6	612.5	612.3	612.7	613.2	613.7	614.3	614.3
157.5°	630.9	630.7	630.7	630.7	630.7	630.7	631.0	631.4	631.8	632.2	632.1
160°	642.4	642.3	642.2	642.2	642.0	641.9	642.2	642.6	642.9	643.3	643.2
162.5°	652.1	651.8	651.7	651.6	651.5	651.3	652.0	652.6	653.3	653.9	653.9
165°	665.7	665.4	665.2	665.0	664.7	664.5	665.2	665.9	666.6	667.3	667.4
167.5°	675.8	675.5	675.5	675.6	675.6	675.6	676.4	677.0	677.8	678.5	678.4
170°	681.4	681.2	681.3	681.4	681.6	681.6	682.4	683.1	683.8	684.5	684.5
172.5°	686.1	685.9	685.9	685.9	685.9	686.0	686.7	687.6	688.4	689.2	689.2
175°	691.6	691.3	691.2	691.1	690.9	690.8	691.6	692.5	693.3	694.1	694.1
177.5°	694.0	693.8	693.8	693.8	693.8	693.8	694.5	695.1	695.8	696.4	696.4
180°	695.1	695.1	695.1	695.1	695.1	695.1	695.1	695.1	695.1	695.1	695.1



TEST NUMBER: P332872-830

CATALOG NUMBER: SA4XXRDIP-C350D590U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6
2.5°	528.5	528.9	527.6	527.3	527.6	528.9	528.5	529.5	529.7	531.2	530.7
5°	490.3	489.8	488.7	489.0	488.7	489.8	490.3	492.1	492.9	496.5	496.1
7.5°	457.6	455.9	456.4	454.6	456.4	455.9	457.6	459.2	461.9	463.5	467.4
10°	437.6	435.2	433.2	431.4	433.2	435.2	437.6	438.6	442.3	444.1	447.9
12.5°	410.4	408.2	405.6	406.0	405.6	408.2	410.4	414.2	419.1	422.9	428.9
15°	371.6	368.3	363.0	363.6	363.0	368.3	371.6	374.6	379.5	388.0	391.9
17.5°	338.8	338.8	336.4	337.1	336.4	338.8	338.8	342.8	345.3	350.7	356.8
20°	321.9	320.4	320.6	319.9	320.6	320.4	321.9	326.6	329.2	333.0	339.7
22.5°	310.1	308.2	306.6	305.3	306.6	308.2	310.1	311.4	315.0	318.6	324.0
25°	290.2	288.9	286.9	286.4	286.9	288.9	290.2	292.2	294.0	298.7	302.0
27.5°	272.7	272.5	271.6	270.6	271.6	272.5	272.7	274.5	276.8	279.8	284.1
30°	262.6	262.1	261.6	261.0	261.6	262.1	262.6	264.4	266.1	268.5	271.9
32.5°	253.4	253.2	252.7	252.8	252.7	253.2	253.4	254.3	255.4	258.5	261.2
35°	240.4	240.3	239.8	239.6	239.8	240.3	240.4	241.4	242.0	242.9	245.2
37.5°	228.4	228.9	228.7	228.6	228.7	228.9	228.4	228.6	227.8	229.4	230.9
40°	220.0	220.2	220.6	220.4	220.6	220.2	220.0	220.2	220.2	220.2	221.5
42.5°	213.0	213.0	213.7	212.9	213.7	213.0	213.0	212.2	211.0	211.2	211.7
45°	200.6	201.9	201.6	201.6	201.6	201.9	200.6	199.0	198.8	197.8	197.8
47.5°	186.9	188.1	188.4	188.3	188.4	188.1	186.9	186.3	185.3	184.5	184.4
50°	178.0	177.6	178.2	178.0	178.2	177.6	178.0	176.9	175.3	175.3	174.8
52.5°	167.1	167.2	167.2	166.9	167.2	167.2	167.1	166.5	165.9	165.1	164.9
55°	150.3	150.6	150.1	150.3	150.1	150.6	150.3	150.1	150.1	149.7	150.1
57.5°	132.1	131.1	131.5	131.0	131.5	131.1	132.1	133.1	133.5	133.6	134.2
60°	119.1	117.3	116.9	116.0	116.9	117.3	119.1	121.3	122.2	122.7	123.4
62.5°	104.5	103.2	101.7	102.5	101.7	103.2	104.5	106.9	108.9	110.4	112.0
65°	85.0	84.1	83.4	84.4	83.4	84.1	85.0	86.8	88.6	92.1	95.5
67.5°	70.3	69.8	69.8	69.5	69.8	69.8	70.3	71.3	72.4	74.4	77.5
70°	62.7	62.0	62.0	61.5	62.0	62.0	62.7	62.7	63.8	64.7	66.9
72.5°	54.9	54.2	54.4	54.1	54.4	54.2	54.9	55.0	56.1	56.5	57.5
75°	40.6	39.5	39.5	39.7	39.5	39.5	40.6	41.9	43.1	45.1	45.5
77.5°	30.3	30.1	30.3	30.0	30.3	30.1	30.3	30.3	30.5	31.5	32.2
80°	24.8	24.5	24.3	25.0	24.3	24.5	24.8	24.8	25.0	25.2	25.4
82.5°	19.2	19.2	19.1	20.0	19.1	19.2	19.2	19.6	19.6	19.5	19.7
85°	11.6	11.1	11.6	11.1	11.6	11.1	11.6	11.4	11.6	11.4	11.6
87.5°	7.2	7.1	6.9	7.2	6.9	7.1	7.2	6.8	6.7	6.9	6.6
90°	15.5	15.6	15.9	16.1	15.9	15.6	15.5	15.2	14.7	13.9	13.3
92.5°	23.5	23.6	23.8	23.8	23.8	23.6	23.5	23.3	23.0	22.6	22.1
95°	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.3	41.9	41.6
97.5°	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.4	65.9	65.5
100°	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.2	82.9	82.8
102.5°	102.0	102.1	102.2	102.3	102.2	102.1	102.0	101.9	101.6	101.3	100.9
105°	130.1	130.4	130.8	131.2	130.8	130.4	130.1	129.7	129.4	129.0	128.7
107.5°	159.4	159.4	159.4	159.4	159.4	159.4	159.4	159.5	159.3	158.9	158.6
110°	178.5	178.8	179.2	179.6	179.2	178.8	178.5	178.1	178.0	178.3	178.5



TEST NUMBER: P332872-830

CATALOG NUMBER: SA4XXRDIP-C350D590U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	200.0	200.0	200.1	200.2	200.1	200.0	200.0	199.9	199.9	199.9	200.0
115°	232.6	232.4	232.3	232.2	232.3	232.4	232.6	232.7	232.8	233.0	233.1
117.5°	263.4	263.3	263.0	262.8	263.0	263.3	263.4	263.7	264.0	264.5	264.9
120°	285.3	285.5	285.8	286.0	285.8	285.5	285.3	285.0	285.2	285.8	286.4
122.5°	306.6	306.2	305.8	305.4	305.8	306.2	306.6	307.1	307.5	307.9	308.3
125°	339.4	339.1	338.9	338.7	338.9	339.1	339.4	339.6	339.9	340.1	340.4
127.5°	370.1	369.9	369.8	369.6	369.8	369.9	370.1	370.3	370.5	370.8	371.0
130°	391.2	390.7	390.2	389.7	390.2	390.7	391.2	391.6	392.0	392.3	392.5
132.5°	411.8	411.6	411.4	411.2	411.4	411.6	411.8	412.0	412.3	412.5	412.7
135°	441.9	441.5	441.2	440.8	441.2	441.5	441.9	442.2	442.5	442.8	443.0
137.5°	471.6	471.7	471.8	471.9	471.8	471.7	471.6	471.6	471.7	472.0	472.3
140°	491.2	491.1	491.0	490.8	491.0	491.1	491.2	491.3	491.4	491.5	491.6
142.5°	509.8	509.8	509.7	509.7	509.7	509.8	509.8	509.8	509.8	509.9	509.9
145°	536.5	536.1	535.7	535.5	535.7	536.1	536.5	536.9	537.1	537.2	537.3
147.5°	561.8	561.7	561.6	561.5	561.6	561.7	561.8	561.9	562.0	562.1	562.2
150°	577.7	577.6	577.5	577.4	577.5	577.6	577.7	577.9	577.9	577.9	577.9
152.5°	593.0	592.6	592.3	592.0	592.3	592.6	593.0	593.2	593.2	593.0	592.7
155°	613.7	613.2	612.7	612.3	612.7	613.2	613.7	614.3	614.3	613.7	613.2
157.5°	631.7	631.3	630.8	630.5	630.8	631.3	631.7	632.1	632.2	631.8	631.4
160°	642.6	642.0	641.4	640.8	641.4	642.0	642.6	643.2	643.3	642.9	642.6
162.5°	653.4	652.7	652.1	651.6	652.1	652.7	653.4	653.9	653.9	653.3	652.6
165°	666.9	666.5	666.0	665.5	666.0	666.5	666.9	667.4	667.3	666.6	665.9
167.5°	677.8	677.0	676.3	675.5	676.3	677.0	677.8	678.4	678.5	677.8	677.0
170°	683.6	682.8	681.9	681.1	681.9	682.8	683.6	684.5	684.5	683.8	683.1
172.5°	688.3	687.5	686.6	685.9	686.6	687.5	688.3	689.2	689.2	688.4	687.6
175°	693.3	692.5	691.6	690.8	691.6	692.5	693.3	694.1	694.1	693.3	692.5
177.5°	695.7	694.9	694.1	693.3	694.1	694.9	695.7	696.4	696.4	695.8	695.1
180°	695.1	695.1	695.1	695.1	695.1	695.1	695.1	695.1	695.1	695.1	695.1



TEST NUMBER: P332872-830

CATALOG NUMBER: SA4XXRDIP-C350D590U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6
2.5°	529.5	530.8	533.7	536.9	539.6	541.9	543.7	546.2	548.5	551.7	554.7
5°	497.5	500.6	505.0	510.4	517.1	521.5	527.1	532.1	539.1	546.3	553.2
7.5°	469.3	472.7	479.3	486.6	494.6	501.9	508.5	517.2	526.6	537.1	548.7
10°	451.0	454.9	462.6	471.1	480.5	487.7	496.5	506.8	517.6	530.3	544.5
12.5°	434.6	438.3	447.6	456.3	466.0	473.9	484.3	494.6	509.0	522.7	538.9
15°	402.7	412.3	422.9	433.2	444.8	454.4	466.8	477.6	491.2	510.6	529.1
17.5°	367.1	377.3	390.7	406.5	422.1	433.9	446.6	459.9	476.1	495.9	517.3
20°	346.4	354.7	369.4	387.0	405.1	421.6	433.2	447.9	464.7	486.1	508.1
22.5°	330.9	337.9	349.4	367.0	386.5	405.7	420.6	435.1	453.6	475.0	499.1
25°	307.6	315.2	325.3	337.2	359.6	379.8	399.3	416.0	435.6	457.0	483.8
27.5°	288.2	294.8	304.1	316.6	331.6	353.9	377.5	396.5	416.7	439.7	466.5
30°	276.8	282.2	289.7	302.5	316.8	336.9	360.7	383.0	403.3	427.2	455.1
32.5°	264.9	270.6	278.0	288.0	303.4	320.3	344.1	368.5	390.1	414.5	441.9
35°	248.9	253.4	260.1	270.3	284.2	298.9	320.1	345.3	368.1	394.2	420.3
37.5°	232.8	238.1	243.4	252.5	263.8	279.7	297.0	322.8	348.0	371.8	397.3
40°	223.8	226.9	232.6	240.1	252.0	266.1	282.4	307.6	332.8	356.5	382.1
42.5°	213.6	217.1	222.0	229.3	240.1	253.8	269.8	291.5	317.8	340.7	364.1
45°	199.4	201.4	206.3	212.5	221.5	235.4	250.1	269.5	294.3	316.1	336.6
47.5°	185.1	186.9	189.9	195.7	205.7	216.8	230.5	248.0	269.7	291.5	308.9
50°	175.3	176.9	179.8	185.1	194.1	205.0	218.6	234.2	253.6	274.6	289.1
52.5°	165.5	166.4	169.1	175.1	182.7	193.4	205.6	220.0	238.1	255.5	270.2
55°	149.9	151.9	153.7	158.2	165.3	175.6	186.5	200.1	214.1	228.8	241.4
57.5°	133.7	135.8	138.4	142.3	148.0	157.5	167.3	178.3	190.4	202.6	213.1
60°	122.9	124.9	127.1	131.6	136.8	144.3	155.0	164.7	173.8	184.9	195.4
62.5°	112.4	114.4	117.0	120.6	125.5	132.7	141.7	150.0	159.5	169.2	177.0
65°	96.8	98.4	100.4	103.8	108.4	114.9	122.2	128.8	137.2	144.3	151.5
67.5°	79.7	82.8	85.3	88.0	92.0	98.0	103.4	109.6	115.4	120.6	127.1
70°	68.5	71.8	74.3	77.2	81.0	86.1	91.2	95.5	100.2	105.3	111.1
72.5°	59.0	61.6	63.6	66.6	70.1	74.8	79.6	83.1	87.0	90.5	96.1
75°	46.7	47.7	49.1	51.6	54.7	58.2	62.0	65.1	67.4	70.5	74.5
77.5°	33.5	35.6	36.6	38.3	40.5	42.7	45.2	47.9	50.0	51.1	54.2
80°	25.6	26.6	27.4	29.9	31.2	33.5	35.3	37.7	38.5	39.7	42.6
82.5°	20.0	20.5	21.0	21.7	22.5	24.7	26.5	28.1	28.9	29.3	31.6
85°	11.6	11.8	12.1	12.3	12.5	12.5	13.4	14.5	16.0	16.0	16.8
87.5°	6.4	6.5	6.3	5.9	6.0	5.8	5.8	5.6	5.8	6.1	6.4
90°	12.5	11.8	10.8	9.9	9.0	8.0	6.9	5.6	4.2	2.9	1.6
92.5°	21.7	21.3	20.6	20.0	19.3	18.6	17.5	16.0	14.5	13.0	11.5
95°	41.2	40.8	40.1	39.2	38.4	37.5	36.6	35.4	34.4	33.4	32.2
97.5°	65.0	64.7	63.6	62.7	61.6	60.7	59.8	58.9	58.1	57.2	56.4
100°	82.5	82.3	81.2	80.1	79.0	77.9	77.2	76.7	76.3	75.8	75.2
102.5°	100.7	100.3	99.3	98.3	97.4	96.4	95.8	95.6	95.4	95.2	95.0
105°	128.3	127.9	127.4	127.0	126.5	126.0	125.7	125.6	125.5	125.4	125.3
107.5°	158.3	158.0	157.9	157.8	157.7	157.7	157.6	157.4	157.2	157.1	156.9
110°	178.8	179.0	179.2	179.3	179.4	179.5	179.5	179.2	179.0	178.7	178.5



TEST NUMBER: P332872-830

CATALOG NUMBER: SA4XXRDIP-C350D590U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	200.0	200.1	200.3	200.5	200.8	201.0	201.0	201.0	201.0	200.9	200.9
115°	233.2	233.3	233.6	233.8	234.0	234.2	234.4	234.4	234.4	234.4	234.4
117.5°	265.2	265.7	265.8	266.0	266.2	266.4	266.4	266.3	266.2	266.1	266.0
120°	287.0	287.6	287.9	288.3	288.7	289.1	289.0	288.5	288.0	287.6	287.1
122.5°	308.7	309.2	309.2	309.4	309.6	309.8	309.7	309.5	309.3	309.2	309.0
125°	340.5	340.8	340.9	341.1	341.2	341.3	341.4	341.4	341.4	341.4	341.4
127.5°	371.3	371.5	371.6	371.8	372.0	372.2	372.1	371.8	371.5	371.1	370.7
130°	392.8	392.9	392.9	392.9	392.9	392.9	392.8	392.5	392.1	391.7	391.3
132.5°	412.9	413.2	413.3	413.4	413.5	413.6	413.5	413.2	412.9	412.7	412.5
135°	443.3	443.5	443.5	443.5	443.5	443.5	443.2	442.4	441.7	441.0	440.3
137.5°	472.7	473.0	472.8	472.6	472.4	472.2	471.9	471.6	471.3	470.9	470.6
140°	491.7	491.9	491.9	491.9	491.9	491.9	491.7	491.5	491.3	491.1	490.8
142.5°	509.9	509.9	510.0	510.1	510.2	510.3	510.3	510.0	509.8	509.5	509.3
145°	537.4	537.5	537.4	537.3	537.2	537.1	536.8	536.3	535.8	535.4	534.9
147.5°	562.3	562.4	562.5	562.6	562.7	562.8	562.6	561.9	561.4	560.8	560.2
150°	577.9	577.9	577.9	577.9	577.9	577.9	577.7	577.2	576.7	576.3	575.7
152.5°	592.4	592.1	592.0	591.9	591.8	591.7	591.5	591.3	591.0	590.7	590.4
155°	612.7	612.3	612.5	612.6	612.7	612.7	612.8	612.8	612.8	612.8	612.8
157.5°	631.0	630.7	630.7	630.7	630.7	630.7	630.9	631.1	631.3	631.5	631.8
160°	642.2	641.9	642.0	642.2	642.2	642.3	642.4	642.6	642.7	642.8	642.9
162.5°	652.0	651.3	651.5	651.6	651.7	651.8	652.1	652.3	652.6	653.0	653.3
165°	665.2	664.5	664.7	665.0	665.2	665.4	665.7	666.1	666.4	666.8	667.1
167.5°	676.4	675.6	675.6	675.6	675.5	675.5	675.8	676.3	676.7	677.3	677.8
170°	682.4	681.6	681.6	681.4	681.3	681.2	681.4	682.0	682.6	683.2	683.8
172.5°	686.7	686.0	685.9	685.9	685.9	685.9	686.1	686.6	687.1	687.6	688.1
175°	691.6	690.8	690.9	691.1	691.2	691.3	691.6	692.2	692.9	693.4	694.0
177.5°	694.5	693.8	693.8	693.8	693.8	693.8	694.0	694.6	695.0	695.5	696.0
180°	695.1	695.1	695.1	695.1	695.1	695.1	695.1	695.1	695.1	695.1	695.1



TEST NUMBER: P332872-830

CATALOG NUMBER: SA4XXRDIP-C350D590U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6
2.5°	557.0	558.6	560.4	563.8	566.7	568.0	570.4	572.2	571.7	574.2	578.4
5°	559.2	565.2	572.2	579.3	587.3	594.0	599.4	604.7	609.0	614.1	621.7
7.5°	558.8	569.6	581.3	594.0	607.2	618.6	629.1	639.8	649.3	659.7	673.4
10°	557.4	571.7	586.3	602.9	619.7	635.6	649.8	663.2	675.9	689.5	706.7
12.5°	555.8	572.2	589.7	609.9	630.7	649.8	666.6	685.9	701.8	719.3	739.1
15°	548.7	570.8	594.7	620.8	645.8	671.5	694.4	718.0	740.2	761.1	786.1
17.5°	540.6	566.1	594.3	625.1	655.1	686.3	713.6	743.4	765.9	794.1	817.3
20°	534.0	561.5	591.5	626.1	660.3	694.8	725.0	755.4	780.7	809.1	838.5
22.5°	526.0	556.1	588.7	624.5	660.3	698.0	731.4	761.6	793.1	824.9	855.3
25°	513.0	544.3	578.9	618.1	659.2	697.8	733.5	770.9	804.8	839.4	866.7
27.5°	497.2	530.0	566.4	606.9	649.0	688.5	730.6	770.5	804.6	837.9	861.7
30°	484.5	519.1	554.1	595.1	638.9	681.3	726.3	766.3	802.2	832.1	845.5
32.5°	471.5	504.3	540.4	581.9	626.7	672.3	717.0	757.9	791.1	809.0	809.4
35°	448.8	479.6	517.1	557.9	603.9	653.4	698.6	738.8	759.1	760.6	738.8
37.5°	424.1	452.3	487.7	528.6	578.9	628.2	674.4	701.2	707.9	685.2	644.9
40°	406.4	432.5	466.7	508.6	558.6	609.4	651.6	671.2	664.1	627.3	582.2
42.5°	387.9	412.2	445.1	486.4	536.6	588.1	624.0	634.4	615.6	573.1	520.3
45°	357.6	379.8	412.5	454.2	502.4	550.5	577.8	572.4	540.9	490.5	431.4
47.5°	326.0	347.6	376.9	415.5	464.9	506.4	524.8	508.7	463.9	408.5	360.4
50°	305.2	327.3	354.2	391.1	436.1	476.3	488.0	463.5	413.8	360.5	316.3
52.5°	284.6	303.5	330.0	365.5	408.6	442.5	448.8	420.6	369.2	321.4	282.2
55°	253.4	270.6	292.8	326.3	363.6	392.4	389.0	352.7	306.0	265.2	234.4
57.5°	223.2	236.1	256.7	288.1	320.8	340.2	327.9	296.9	253.4	220.0	194.1
60°	203.2	215.3	234.4	261.8	290.7	301.6	291.3	257.7	223.3	192.7	170.9
62.5°	184.3	194.9	211.4	236.9	260.1	266.6	255.6	226.2	195.3	169.2	151.1
65°	156.8	166.6	180.7	198.8	214.8	217.9	210.8	180.7	157.3	135.4	122.9
67.5°	131.9	138.3	149.3	164.9	173.4	175.2	161.5	142.5	121.9	108.5	99.1
70°	115.1	119.6	129.8	138.3	145.2	145.4	132.7	117.5	101.7	90.8	83.9
72.5°	98.9	103.1	110.9	116.7	122.1	120.3	108.7	96.7	83.9	75.6	70.5
75°	76.3	80.1	84.1	86.8	86.8	84.5	76.1	67.1	59.8	54.9	53.3
77.5°	55.4	58.5	59.9	59.5	58.7	55.2	49.9	44.0	41.4	39.1	37.9
80°	43.5	44.9	45.2	44.2	42.8	38.8	35.3	32.8	30.3	29.4	29.0
82.5°	32.2	33.5	32.2	32.6	29.6	26.3	24.3	23.5	22.5	22.1	21.7
85°	17.2	17.0	16.5	15.4	13.4	12.9	12.7	12.5	12.1	12.3	11.8
87.5°	6.5	6.2	5.7	5.8	6.0	5.9	6.2	6.5	6.7	6.6	7.1
90°	2.9	4.2	5.6	6.9	8.0	9.0	9.9	10.8	11.8	12.5	13.3
92.5°	13.0	14.5	16.0	17.5	18.6	19.3	20.0	20.6	21.3	21.7	22.1
95°	33.4	34.4	35.4	36.6	37.5	38.4	39.2	40.1	40.8	41.2	41.6
97.5°	57.2	58.1	58.9	59.8	60.7	61.6	62.7	63.6	64.7	65.0	65.5
100°	75.8	76.3	76.7	77.2	77.9	79.0	80.1	81.2	82.3	82.5	82.8
102.5°	95.2	95.4	95.6	95.8	96.4	97.4	98.3	99.3	100.3	100.7	100.9
105°	125.4	125.5	125.6	125.7	126.0	126.5	127.0	127.4	127.9	128.3	128.7
107.5°	157.1	157.2	157.4	157.6	157.7	157.7	157.8	157.9	158.0	158.3	158.6
110°	178.7	179.0	179.2	179.5	179.5	179.4	179.3	179.2	179.0	178.8	178.5



TEST NUMBER: P332872-830

CATALOG NUMBER: SA4XXRDIP-C350D590U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	200.9	201.0	201.0	201.0	201.0	200.8	200.5	200.3	200.1	200.0	200.0
115°	234.4	234.4	234.4	234.4	234.2	234.0	233.8	233.6	233.3	233.2	233.1
117.5°	266.1	266.2	266.3	266.4	266.4	266.2	266.0	265.8	265.7	265.2	264.9
120°	287.6	288.0	288.5	289.0	289.1	288.7	288.3	287.9	287.6	287.0	286.4
122.5°	309.2	309.3	309.5	309.7	309.8	309.6	309.4	309.2	309.2	308.7	308.3
125°	341.4	341.4	341.4	341.4	341.3	341.2	341.1	340.9	340.8	340.5	340.4
127.5°	371.1	371.5	371.8	372.1	372.2	372.0	371.8	371.6	371.5	371.3	371.0
130°	391.7	392.1	392.5	392.8	392.9	392.9	392.9	392.9	392.9	392.8	392.5
132.5°	412.7	412.9	413.2	413.5	413.6	413.5	413.4	413.3	413.2	412.9	412.7
135°	441.0	441.7	442.4	443.2	443.5	443.5	443.5	443.5	443.5	443.3	443.0
137.5°	470.9	471.3	471.6	471.9	472.2	472.4	472.6	472.8	473.0	472.7	472.3
140°	491.1	491.3	491.5	491.7	491.9	491.9	491.9	491.9	491.9	491.7	491.6
142.5°	509.5	509.8	510.0	510.3	510.3	510.2	510.1	510.0	509.9	509.9	509.9
145°	535.4	535.8	536.3	536.8	537.1	537.2	537.3	537.4	537.5	537.4	537.3
147.5°	560.8	561.4	561.9	562.6	562.8	562.7	562.6	562.5	562.4	562.3	562.2
150°	576.3	576.7	577.2	577.7	577.9	577.9	577.9	577.9	577.9	577.9	577.9
152.5°	590.7	591.0	591.3	591.5	591.7	591.8	591.9	592.0	592.1	592.4	592.7
155°	612.8	612.8	612.8	612.8	612.7	612.7	612.6	612.5	612.3	612.7	613.2
157.5°	631.5	631.3	631.1	630.9	630.7	630.7	630.7	630.7	630.7	631.0	631.4
160°	642.8	642.7	642.6	642.4	642.3	642.2	642.2	642.0	641.9	642.2	642.6
162.5°	653.0	652.6	652.3	652.1	651.8	651.7	651.6	651.5	651.3	652.0	652.6
165°	666.8	666.4	666.1	665.7	665.4	665.2	665.0	664.7	664.5	665.2	665.9
167.5°	677.3	676.7	676.3	675.8	675.5	675.5	675.6	675.6	675.6	676.4	677.0
170°	683.2	682.6	682.0	681.4	681.2	681.3	681.4	681.6	681.6	682.4	683.1
172.5°	687.6	687.1	686.6	686.1	685.9	685.9	685.9	685.9	686.0	686.7	687.6
175°	693.4	692.9	692.2	691.6	691.3	691.2	691.1	690.9	690.8	691.6	692.5
177.5°	695.5	695.0	694.6	694.0	693.8	693.8	693.8	693.8	693.8	694.5	695.1
180°	695.1	695.1	695.1	695.1	695.1	695.1	695.1	695.1	695.1	695.1	695.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	553.6	553.6	553.6	553.6	553.6	553.6	553.6
2.5°	580.8	581.5	582.0	583.8	584.0	585.6	584.0
5°	628.9	632.0	636.9	641.8	642.2	645.4	639.8
7.5°	682.7	689.9	694.5	702.4	705.5	707.5	704.3
10°	719.8	726.5	738.4	744.1	750.0	750.8	748.2
12.5°	755.7	766.3	775.6	786.6	786.4	794.2	791.4
15°	803.5	814.5	827.4	839.6	844.0	844.0	847.6
17.5°	837.5	857.6	871.0	880.6	891.2	893.0	891.7
20°	860.6	882.2	896.5	909.0	916.2	918.1	918.1
22.5°	877.7	896.2	910.1	921.3	927.2	929.5	928.9
25°	889.6	905.4	913.9	917.3	918.8	918.4	914.2
27.5°	873.4	872.6	867.3	857.1	849.3	844.6	839.2
30°	842.4	830.7	817.3	802.6	783.6	769.1	764.7
32.5°	796.1	770.1	747.3	722.8	702.5	688.0	681.8
35°	706.7	665.4	631.7	602.3	580.9	567.5	563.0
37.5°	600.6	560.6	519.0	490.4	472.6	459.1	454.1
40°	533.1	489.7	453.3	426.5	408.2	395.0	394.8
42.5°	471.6	430.0	395.8	376.5	356.8	348.1	348.1
45°	386.2	352.9	323.9	308.7	296.9	289.7	287.8
47.5°	319.7	292.2	272.9	260.8	251.2	246.7	243.6
50°	282.4	258.4	242.9	232.4	227.1	221.3	220.8
52.5°	251.4	231.9	219.9	211.4	204.6	201.1	201.2
55°	211.2	195.9	187.4	180.9	175.6	172.9	171.7
57.5°	178.0	166.5	160.2	154.3	152.0	150.0	149.4
60°	157.3	149.5	143.6	138.9	135.6	135.0	134.7
62.5°	140.2	132.0	128.0	124.3	121.9	120.8	120.5
65°	115.6	109.5	105.9	103.0	102.2	100.6	100.4
67.5°	93.1	89.5	87.2	85.2	84.0	83.9	83.9
70°	79.5	77.4	75.4	74.3	73.6	73.1	73.1
72.5°	67.7	66.2	64.5	63.9	63.8	63.3	63.2
75°	51.6	50.0	50.2	49.1	48.2	47.0	46.4
77.5°	36.6	35.4	35.2	35.1	34.3	34.2	34.5
80°	28.4	27.2	27.0	27.2	27.0	26.3	26.3
82.5°	21.6	20.6	20.4	20.3	20.1	20.3	19.9
85°	11.6	11.1	11.1	11.1	11.6	11.4	11.1
87.5°	6.9	6.9	7.2	7.0	7.1	6.9	7.2
90°	13.9	14.7	15.2	15.5	15.6	15.9	16.1
92.5°	22.6	23.0	23.3	23.5	23.6	23.8	23.8
95°	41.9	42.3	42.5	42.5	42.5	42.5	42.5
97.5°	65.9	66.4	66.5	66.5	66.5	66.5	66.5
100°	82.9	83.2	83.3	83.3	83.3	83.3	83.3
102.5°	101.3	101.6	101.9	102.0	102.1	102.2	102.3
105°	129.0	129.4	129.7	130.1	130.4	130.8	131.2
107.5°	158.9	159.3	159.5	159.4	159.4	159.4	159.4
110°	178.3	178.0	178.1	178.5	178.8	179.2	179.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	199.9	199.9	199.9	200.0	200.0	200.1	200.2
115°	233.0	232.8	232.7	232.6	232.4	232.3	232.2
117.5°	264.5	264.0	263.7	263.4	263.3	263.0	262.8
120°	285.8	285.2	285.0	285.3	285.5	285.8	286.0
122.5°	307.9	307.5	307.1	306.6	306.2	305.8	305.4
125°	340.1	339.9	339.6	339.4	339.1	338.9	338.7
127.5°	370.8	370.5	370.3	370.1	369.9	369.8	369.6
130°	392.3	392.0	391.6	391.2	390.7	390.2	389.7
132.5°	412.5	412.3	412.0	411.8	411.6	411.4	411.2
135°	442.8	442.5	442.2	441.9	441.5	441.2	440.8
137.5°	472.0	471.7	471.6	471.6	471.7	471.8	471.9
140°	491.5	491.4	491.3	491.2	491.1	491.0	490.8
142.5°	509.9	509.8	509.8	509.8	509.8	509.7	509.7
145°	537.2	537.1	536.9	536.5	536.1	535.7	535.5
147.5°	562.1	562.0	561.9	561.8	561.7	561.6	561.5
150°	577.9	577.9	577.9	577.7	577.6	577.5	577.4
152.5°	593.0	593.2	593.2	593.0	592.6	592.3	592.0
155°	613.7	614.3	614.3	613.7	613.2	612.7	612.3
157.5°	631.8	632.2	632.1	631.7	631.3	630.8	630.5
160°	642.9	643.3	643.2	642.6	642.0	641.4	640.8
162.5°	653.3	653.9	653.9	653.4	652.7	652.1	651.6
165°	666.6	667.3	667.4	666.9	666.5	666.0	665.5
167.5°	677.8	678.5	678.4	677.8	677.0	676.3	675.5
170°	683.8	684.5	684.5	683.6	682.8	681.9	681.1
172.5°	688.4	689.2	689.2	688.3	687.5	686.6	685.9
175°	693.3	694.1	694.1	693.3	692.5	691.6	690.8
177.5°	695.8	696.4	696.4	695.7	694.9	694.1	693.3
180°	695.1	695.1	695.1	695.1	695.1	695.1	695.1

(END OF REPORT)