

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: P332879-830

Luminaire Tested: **SA4XXRDIP-C350D810U830-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332879-830
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-C350D810U830-4F0-1E-UDD-A4
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 350 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 810 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

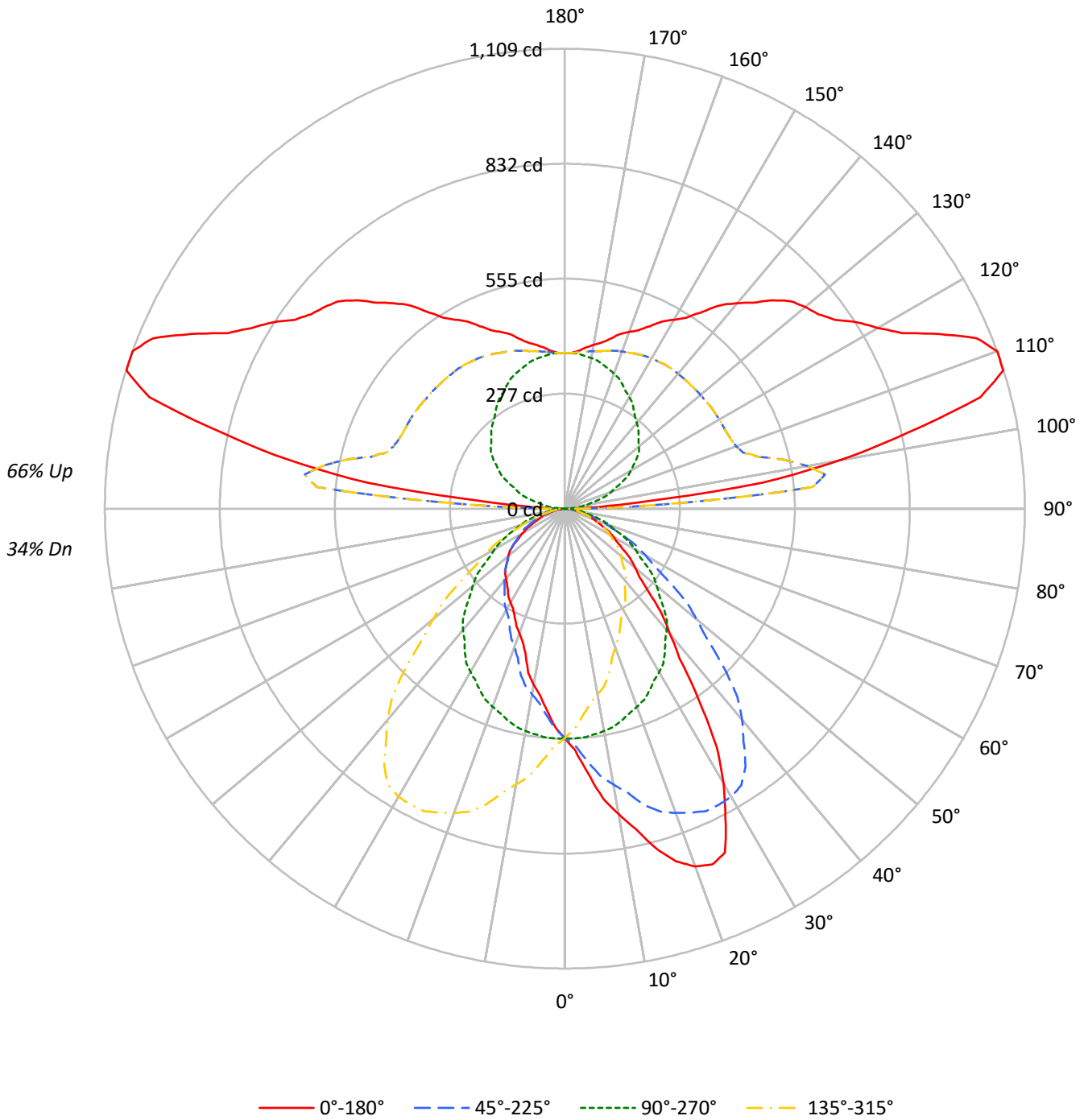
Lumens per Lamp: N/A
Luminaire Lumens: 4129.9 lumens
Efficiency: N/A
Efficacy: 132.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: Semi-Indirect

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	50	30	10	0	
RCR																						
0	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	34				
1	95	90	87	83	85	82	79	76	66	63	62	51	49	48	37	36	36	29				
2	86	79	73	69	78	72	67	63	58	54	51	45	43	41	33	32	30	25				
3	79	70	63	57	71	63	57	53	51	47	44	40	37	35	29	28	26	21				
4	72	62	54	49	65	56	50	45	46	41	37	36	32	30	26	24	23	19				
5	66	55	47	42	60	50	44	39	41	36	32	32	29	26	24	22	20	16				
6	61	49	42	36	55	45	38	33	37	32	28	29	26	23	22	19	18	14				
7	56	45	37	32	51	41	34	29	33	28	25	26	23	20	20	18	16	13				
8	52	40	33	28	47	37	30	26	30	25	22	24	21	18	18	16	14	12				
9	49	37	30	25	44	34	27	23	28	23	20	22	19	16	17	15	13	11				
10	45	34	27	22	41	31	25	21	26	21	18	20	17	15	16	13	12	10				

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



TEST NUMBER: P332879-830

CATALOG NUMBER: SA4XXRDIP-C350D810U830-4F0-1E-UDD-A4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.6	1.3
10°-20°	161.8	3.9
20°-30°	253.1	6.1
30°-40°	281.4	6.8
40°-50°	249.6	6.0
50°-60°	194.5	4.7
60°-70°	127.4	3.1
70°-80°	62.6	1.5
80°-90°	17.5	0.4
90°-100°	270.9	6.6
100°-110°	563.9	13.7
110°-120°	505.1	12.2
120°-130°	424.9	10.3
130°-140°	354.3	8.6
140°-150°	270.6	6.6
150°-160°	190.2	4.6
160°-170°	111.9	2.7
170°-180°	36.4	0.9
0°-30°	468.6	11.3
0°-40°	749.9	18.2
0°-60°	1194.1	28.9
0°-90°	1401.6	33.9
90°-120°	1340.0	32.4
90°-150°	2389.7	57.9
90°-180°	2728.0	66.1
0°-180°	4129.9	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	1	16	1	16	13
95°	180	24	180	24	180	279
105°	1037	86	1037	86	1037	1025
115°	996	152	996	152	996	988
125°	794	212	794	212	794	722
135°	710	251	710	251	710	548
145°	580	290	580	290	580	368
155°	486	329	486	329	486	227
165°	424	359	424	359	424	121
175°	382	374	382	374	382	37
180°	375	375	375	375	375	



TEST NUMBER: P332879-830

CATALOG NUMBER: SA4XXRDIP-C350D810U830-4F0-1E-UDD-A4

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°	7.0	6.9	7.2	7.0	7.1	6.9	6.9	7.1	6.6	7.0	6.6
90°	15.5	15.5	16.2	15.5	14.7	14.7	14.0	13.3	12.5	13.3	11.8
92.5°	56.7	56.7	59.3	63.2	71.9	86.7	109.0	144.8	194.7	233.8	204.6
95°	179.8	189.5	202.6	225.6	261.6	333.1	431.9	546.1	617.6	600.7	453.3
97.5°	480.7	496.0	518.1	562.5	615.4	692.3	764.4	806.8	775.9	632.6	424.2
100°	675.8	681.7	703.8	748.8	812.9	867.4	903.5	888.8	781.2	592.6	384.7
102.5°	845.6	850.4	873.6	906.3	945.6	968.3	957.8	884.7	737.0	542.4	358.2
105°	1037.0	1041.4	1051.7	1057.6	1056.1	1025.9	952.9	825.5	656.7	483.4	335.4
107.5°	1108.0	1106.1	1098.7	1081.9	1045.5	979.8	877.0	741.3	591.8	450.4	331.2
110°	1109.2	1102.6	1089.3	1058.3	1006.0	924.9	818.0	690.6	559.4	439.2	332.3



TEST NUMBER: P332879-830

CATALOG NUMBER: SA4XXRDIP-C350D810U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1074.4	1063.7	1045.1	1007.6	948.2	867.1	766.2	653.5	541.1	433.9	335.9
115°	995.7	989.8	966.2	922.0	863.7	793.0	706.8	616.1	524.0	431.1	342.7
117.5°	916.0	911.3	887.5	850.4	800.7	740.6	672.9	597.9	516.3	430.4	350.0
120°	871.1	863.0	843.9	811.4	769.4	717.1	658.2	589.6	512.2	430.4	355.2
122.5°	835.8	827.6	811.4	783.7	748.2	702.4	648.7	582.5	507.5	429.8	360.5
125°	794.5	790.0	776.1	754.7	725.2	684.7	633.9	570.4	499.6	429.0	368.5
127.5°	770.3	765.9	754.1	735.1	705.5	666.9	616.2	555.7	489.2	427.3	374.8
130°	756.2	751.8	740.0	721.5	691.3	652.2	602.1	543.9	482.8	426.7	379.6
132.5°	740.3	735.8	724.6	703.8	674.2	635.2	586.2	531.5	476.8	426.1	383.7
135°	710.5	706.1	694.3	673.6	644.1	607.3	562.3	514.4	468.0	425.3	389.8
137.5°	673.6	668.3	658.6	638.2	610.7	577.4	539.5	499.0	460.3	425.1	393.5
140°	647.1	641.2	630.8	614.6	588.9	557.9	524.7	490.1	456.2	424.5	396.5
142.5°	618.8	614.6	605.5	590.5	567.6	540.8	512.4	481.8	452.7	424.5	398.9
145°	580.0	576.4	568.9	556.5	538.0	517.4	495.3	470.2	446.6	423.0	400.2
147.5°	545.6	544.3	538.8	528.0	514.4	498.2	480.5	460.6	441.2	420.4	401.0
150°	526.2	525.5	521.0	511.5	499.6	486.4	471.6	454.7	437.1	418.6	401.0
152.5°	508.5	507.7	505.1	497.3	487.3	476.4	462.8	448.3	432.3	415.7	399.7
155°	485.7	485.7	483.4	477.6	470.2	461.4	450.3	438.5	425.3	411.2	397.9
157.5°	465.6	465.6	464.3	459.9	454.3	447.2	437.9	428.0	418.0	406.7	396.1
160°	453.3	453.3	452.5	448.1	443.7	437.8	429.7	421.6	412.7	403.1	394.3
162.5°	441.5	442.1	441.3	436.9	433.7	428.4	422.0	415.1	408.0	399.6	392.6
165°	423.8	424.5	425.3	422.3	419.3	415.7	410.5	406.0	400.2	394.3	389.2
167.5°	409.7	410.4	410.5	408.6	407.1	404.9	400.8	397.4	393.1	389.0	385.6
170°	401.0	401.0	401.6	401.0	399.4	397.3	394.3	392.1	388.4	385.4	383.2
172.5°	392.1	393.2	394.0	393.2	392.4	390.8	389.0	387.4	384.3	381.9	380.9
175°	381.7	383.2	384.7	383.2	383.2	383.2	381.7	381.1	379.6	378.1	378.1
177.5°	375.7	376.9	378.1	377.5	378.1	377.5	377.5	376.9	376.3	375.7	375.7
180°	375.1	375.1	375.1	375.1	375.1	375.1	375.1	375.1	375.1	375.1	375.1



TEST NUMBER: P332879-830

CATALOG NUMBER: SA4XXRDIP-C350D810U830-4F0-1E-UDD-A4

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°	6.3	6.1	5.7	5.7	5.7	6.2	6.3	6.2	5.9	5.8	5.5
90°	10.3	10.3	5.9	5.9	5.2	4.4	2.2	0.8	2.2	4.4	5.2
92.5°	148.8	91.7	54.2	38.9	28.2	19.1	12.3	8.4	12.3	19.1	28.2
95°	277.1	156.3	92.1	61.2	43.5	33.9	26.5	24.3	26.5	33.9	43.5
97.5°	249.1	149.3	99.9	74.0	58.8	50.0	43.6	43.6	43.6	50.0	58.8
100°	234.4	151.1	107.6	84.0	70.0	61.2	56.0	56.0	56.0	61.2	70.0
102.5°	230.3	156.9	117.6	95.2	81.8	73.5	69.0	67.8	69.0	73.5	81.8
105°	232.1	171.0	135.6	114.2	100.9	92.1	88.4	86.2	88.4	92.1	100.9
107.5°	243.1	187.4	155.0	133.8	121.1	111.7	108.0	106.6	108.0	111.7	121.1
110°	251.3	199.7	167.3	147.4	134.1	125.3	121.6	120.2	121.6	125.3	134.1



TEST NUMBER: P332879-830

CATALOG NUMBER: SA4XXRDIP-C350D810U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	260.1	211.5	180.3	160.3	147.1	138.8	134.6	133.1	134.6	138.8	147.1
115°	274.2	230.0	200.5	180.6	166.5	159.2	154.0	151.8	154.0	159.2	166.5
117.5°	288.4	247.8	219.8	199.2	186.1	178.0	173.3	171.3	173.3	178.0	186.1
120°	298.5	260.1	232.1	211.5	199.0	190.9	185.7	184.3	185.7	190.9	199.0
122.5°	307.9	271.9	243.9	223.9	210.2	202.6	197.6	196.0	197.6	202.6	210.2
125°	322.1	288.1	261.6	241.0	227.0	218.9	214.4	211.5	214.4	218.9	227.0
127.5°	334.3	303.2	277.6	256.7	242.1	232.9	227.6	225.3	227.6	232.9	242.1
130°	342.0	313.2	288.1	266.8	252.8	241.8	235.8	232.9	235.8	241.8	252.8
132.5°	349.6	321.5	296.4	276.3	261.1	250.6	242.9	240.5	242.9	250.6	261.1
135°	359.7	333.1	308.8	289.6	274.2	261.6	254.3	251.3	254.3	261.6	274.2
137.5°	366.7	342.0	319.2	301.0	284.9	273.0	264.9	262.1	264.9	273.0	284.9
140°	371.5	347.9	325.7	308.0	292.6	280.0	271.9	269.8	271.9	280.0	292.6
142.5°	374.9	353.2	331.7	314.5	299.6	287.8	280.2	278.0	280.2	287.8	299.6
145°	378.8	358.9	339.8	323.6	309.5	299.3	291.8	289.6	291.8	299.3	309.5
147.5°	382.2	364.9	346.9	332.2	320.6	310.0	303.5	302.7	303.5	310.0	320.6
150°	384.0	367.8	351.6	337.5	326.5	317.6	311.8	311.0	311.8	317.6	326.5
152.5°	385.1	370.1	355.7	342.9	333.0	324.7	318.9	318.7	318.9	324.7	333.0
155°	386.2	373.6	361.1	350.1	342.0	334.6	330.2	329.4	330.2	334.6	342.0
157.5°	386.2	376.2	365.5	356.8	349.8	344.0	339.9	339.9	339.9	344.0	349.8
160°	386.2	377.3	368.5	360.4	354.5	349.3	346.4	346.4	346.4	349.3	354.5
162.5°	386.2	378.5	370.2	363.9	358.6	354.0	351.7	352.3	351.7	354.0	358.6
165°	384.7	378.8	372.2	367.8	364.1	360.4	358.9	358.9	358.9	360.4	364.1
167.5°	383.0	378.7	373.8	370.4	368.3	365.5	364.9	365.5	364.9	365.5	368.3
170°	381.7	378.1	374.4	372.2	370.7	368.5	367.8	368.5	367.8	368.5	370.7
172.5°	380.6	377.5	374.9	373.3	372.5	370.9	370.7	371.5	370.7	370.9	372.5
175°	378.8	376.6	375.1	375.1	374.4	373.6	373.6	374.4	373.6	373.6	374.4
177.5°	376.9	375.7	375.1	375.1	375.1	374.6	375.1	375.7	375.1	374.6	375.1
180°	375.1	375.1	375.1	375.1	375.1	375.1	375.1	375.1	375.1	375.1	375.1



TEST NUMBER: P332879-830

CATALOG NUMBER: SA4XXRDIP-C350D810U830-4F0-1E-UDD-A4

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°	5.7	5.5	6.3	6.0	6.5	6.8	6.4	6.6	6.9	6.7	6.7
90°	5.9	5.9	10.3	10.3	11.8	13.3	12.5	13.3	14.0	14.7	14.7
92.5°	38.9	54.2	91.7	148.8	204.6	233.8	194.7	144.8	109.0	86.7	71.9
95°	61.2	92.1	156.3	277.1	453.3	600.7	617.6	546.1	431.9	333.1	261.6
97.5°	74.0	99.9	149.3	249.1	424.2	632.6	775.9	806.8	764.4	692.3	615.4
100°	84.0	107.6	151.1	234.4	384.7	592.6	781.2	888.8	903.5	867.4	812.9
102.5°	95.2	117.6	156.9	230.3	358.2	542.4	737.0	884.7	957.8	968.3	945.6
105°	114.2	135.6	171.0	232.1	335.4	483.4	656.7	825.5	952.9	1025.9	1056.1
107.5°	133.8	155.0	187.4	243.1	331.2	450.4	591.8	741.3	877.0	979.8	1045.5
110°	147.4	167.3	199.7	251.3	332.3	439.2	559.4	690.6	818.0	924.9	1006.0



TEST NUMBER: P332879-830

CATALOG NUMBER: SA4XXRDIP-C350D810U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	160.3	180.3	211.5	260.1	335.9	433.9	541.1	653.5	766.2	867.1	948.2
115°	180.6	200.5	230.0	274.2	342.7	431.1	524.0	616.1	706.8	793.0	863.7
117.5°	199.2	219.8	247.8	288.4	350.0	430.4	516.3	597.9	672.9	740.6	800.7
120°	211.5	232.1	260.1	298.5	355.2	430.4	512.2	589.6	658.2	717.1	769.4
122.5°	223.9	243.9	271.9	307.9	360.5	429.8	507.5	582.5	648.7	702.4	748.2
125°	241.0	261.6	288.1	322.1	368.5	429.0	499.6	570.4	633.9	684.7	725.2
127.5°	256.7	277.6	303.2	334.3	374.8	427.3	489.2	555.7	616.2	666.9	705.5
130°	266.8	288.1	313.2	342.0	379.6	426.7	482.8	543.9	602.1	652.2	691.3
132.5°	276.3	296.4	321.5	349.6	383.7	426.1	476.8	531.5	586.2	635.2	674.2
135°	289.6	308.8	333.1	359.7	389.8	425.3	468.0	514.4	562.3	607.3	644.1
137.5°	301.0	319.2	342.0	366.7	393.5	425.1	460.3	499.0	539.5	577.4	610.7
140°	308.0	325.7	347.9	371.5	396.5	424.5	456.2	490.1	524.7	557.9	588.9
142.5°	314.5	331.7	353.2	374.9	398.9	424.5	452.7	481.8	512.4	540.8	567.6
145°	323.6	339.8	358.9	378.8	400.2	423.0	446.6	470.2	495.3	517.4	538.0
147.5°	332.2	346.9	364.9	382.2	401.0	420.4	441.2	460.6	480.5	498.2	514.4
150°	337.5	351.6	367.8	384.0	401.0	418.6	437.1	454.7	471.6	486.4	499.6
152.5°	342.9	355.7	370.1	385.1	399.7	415.7	432.3	448.3	462.8	476.4	487.3
155°	350.1	361.1	373.6	386.2	397.9	411.2	425.3	438.5	450.3	461.4	470.2
157.5°	356.8	365.5	376.2	386.2	396.1	406.7	418.0	428.0	437.9	447.2	454.3
160°	360.4	368.5	377.3	386.2	394.3	403.1	412.7	421.6	429.7	437.8	443.7
162.5°	363.9	370.2	378.5	386.2	392.6	399.6	408.0	415.1	422.0	428.4	433.7
165°	367.8	372.2	378.8	384.7	389.2	394.3	400.2	406.0	410.5	415.7	419.3
167.5°	370.4	373.8	378.7	383.0	385.6	389.0	393.1	397.4	400.8	404.9	407.1
170°	372.2	374.4	378.1	381.7	383.2	385.4	388.4	392.1	394.3	397.3	399.4
172.5°	373.3	374.9	377.5	380.6	380.9	381.9	384.3	387.4	389.0	390.8	392.4
175°	375.1	375.1	376.6	378.8	378.1	378.1	379.6	381.1	381.7	383.2	383.2
177.5°	375.1	375.1	375.7	376.9	375.7	375.7	376.3	376.9	377.5	377.5	378.1
180°	375.1	375.1	375.1	375.1	375.1	375.1	375.1	375.1	375.1	375.1	375.1



TEST NUMBER: P332879-830

CATALOG NUMBER: SA4XXRDIP-C350D810U830-4F0-1E-UDD-A4

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	7.2	6.9	7.0	6.9	7.2	7.2	6.7	6.7	6.9	6.6
90°	15.5	16.2	15.5	15.5	15.5	16.2	15.5	14.7	14.7	14.0	13.3
92.5°	63.2	59.3	56.7	56.7	56.7	59.3	63.2	71.9	86.7	109.0	144.8
95°	225.6	202.6	189.5	179.8	189.5	202.6	225.6	261.6	333.1	431.9	546.1
97.5°	562.5	518.1	496.0	480.7	496.0	518.1	562.5	615.4	692.3	764.4	806.8
100°	748.8	703.8	681.7	675.8	681.7	703.8	748.8	812.9	867.4	903.5	888.8
102.5°	906.3	873.6	850.4	845.6	850.4	873.6	906.3	945.6	968.3	957.8	884.7
105°	1057.6	1051.7	1041.4	1037.0	1041.4	1051.7	1057.6	1056.1	1025.9	952.9	825.5
107.5°	1081.9	1098.7	1106.1	1108.0	1106.1	1098.7	1081.9	1045.5	979.8	877.0	741.3
110°	1058.3	1089.3	1102.6	1109.2	1102.6	1089.3	1058.3	1006.0	924.9	818.0	690.6



TEST NUMBER: P332879-830

CATALOG NUMBER: SA4XXRDIP-C350D810U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1007.6	1045.1	1063.7	1074.4	1063.7	1045.1	1007.6	948.2	867.1	766.2	653.5
115°	922.0	966.2	989.8	995.7	989.8	966.2	922.0	863.7	793.0	706.8	616.1
117.5°	850.4	887.5	911.3	916.0	911.3	887.5	850.4	800.7	740.6	672.9	597.9
120°	811.4	843.9	863.0	871.1	863.0	843.9	811.4	769.4	717.1	658.2	589.6
122.5°	783.7	811.4	827.6	835.8	827.6	811.4	783.7	748.2	702.4	648.7	582.5
125°	754.7	776.1	790.0	794.5	790.0	776.1	754.7	725.2	684.7	633.9	570.4
127.5°	735.1	754.1	765.9	770.3	765.9	754.1	735.1	705.5	666.9	616.2	555.7
130°	721.5	740.0	751.8	756.2	751.8	740.0	721.5	691.3	652.2	602.1	543.9
132.5°	703.8	724.6	735.8	740.3	735.8	724.6	703.8	674.2	635.2	586.2	531.5
135°	673.6	694.3	706.1	710.5	706.1	694.3	673.6	644.1	607.3	562.3	514.4
137.5°	638.2	658.6	668.3	673.6	668.3	658.6	638.2	610.7	577.4	539.5	499.0
140°	614.6	630.8	641.2	647.1	641.2	630.8	614.6	588.9	557.9	524.7	490.1
142.5°	590.5	605.5	614.6	618.8	614.6	605.5	590.5	567.6	540.8	512.4	481.8
145°	556.5	568.9	576.4	580.0	576.4	568.9	556.5	538.0	517.4	495.3	470.2
147.5°	528.0	538.8	544.3	545.6	544.3	538.8	528.0	514.4	498.2	480.5	460.6
150°	511.5	521.0	525.5	526.2	525.5	521.0	511.5	499.6	486.4	471.6	454.7
152.5°	497.3	505.1	507.7	508.5	507.7	505.1	497.3	487.3	476.4	462.8	448.3
155°	477.6	483.4	485.7	485.7	485.7	483.4	477.6	470.2	461.4	450.3	438.5
157.5°	459.9	464.3	465.6	465.6	465.6	464.3	459.9	454.3	447.2	437.9	428.0
160°	448.1	452.5	453.3	453.3	453.3	452.5	448.1	443.7	437.8	429.7	421.6
162.5°	436.9	441.3	442.1	441.5	442.1	441.3	436.9	433.7	428.4	422.0	415.1
165°	422.3	425.3	424.5	423.8	424.5	425.3	422.3	419.3	415.7	410.5	406.0
167.5°	408.6	410.5	410.4	409.7	410.4	410.5	408.6	407.1	404.9	400.8	397.4
170°	401.0	401.6	401.0	401.0	401.0	401.6	401.0	399.4	397.3	394.3	392.1
172.5°	393.2	394.0	393.2	392.1	393.2	394.0	393.2	392.4	390.8	389.0	387.4
175°	383.2	384.7	383.2	381.7	383.2	384.7	383.2	383.2	383.2	381.7	381.1
177.5°	377.5	378.1	376.9	375.7	376.9	378.1	377.5	378.1	377.5	377.5	376.9
180°	375.1	375.1	375.1	375.1	375.1	375.1	375.1	375.1	375.1	375.1	375.1



TEST NUMBER: P332879-830

CATALOG NUMBER: SA4XXRDIP-C350D810U830-4F0-1E-UDD-A4

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	6.8	6.5	6.0	6.3	5.5	5.7	5.5	5.8	5.9	6.2
90°	12.5	13.3	11.8	10.3	10.3	5.9	5.9	5.2	4.4	2.2	0.8
92.5°	194.7	233.8	204.6	148.8	91.7	54.2	38.9	28.2	19.1	12.3	8.4
95°	617.6	600.7	453.3	277.1	156.3	92.1	61.2	43.5	33.9	26.5	24.3
97.5°	775.9	632.6	424.2	249.1	149.3	99.9	74.0	58.8	50.0	43.6	43.6
100°	781.2	592.6	384.7	234.4	151.1	107.6	84.0	70.0	61.2	56.0	56.0
102.5°	737.0	542.4	358.2	230.3	156.9	117.6	95.2	81.8	73.5	69.0	67.8
105°	656.7	483.4	335.4	232.1	171.0	135.6	114.2	100.9	92.1	88.4	86.2
107.5°	591.8	450.4	331.2	243.1	187.4	155.0	133.8	121.1	111.7	108.0	106.6
110°	559.4	439.2	332.3	251.3	199.7	167.3	147.4	134.1	125.3	121.6	120.2



TEST NUMBER: P332879-830

CATALOG NUMBER: SA4XXRDIP-C350D810U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	541.1	433.9	335.9	260.1	211.5	180.3	160.3	147.1	138.8	134.6	133.1
115°	524.0	431.1	342.7	274.2	230.0	200.5	180.6	166.5	159.2	154.0	151.8
117.5°	516.3	430.4	350.0	288.4	247.8	219.8	199.2	186.1	178.0	173.3	171.3
120°	512.2	430.4	355.2	298.5	260.1	232.1	211.5	199.0	190.9	185.7	184.3
122.5°	507.5	429.8	360.5	307.9	271.9	243.9	223.9	210.2	202.6	197.6	196.0
125°	499.6	429.0	368.5	322.1	288.1	261.6	241.0	227.0	218.9	214.4	211.5
127.5°	489.2	427.3	374.8	334.3	303.2	277.6	256.7	242.1	232.9	227.6	225.3
130°	482.8	426.7	379.6	342.0	313.2	288.1	266.8	252.8	241.8	235.8	232.9
132.5°	476.8	426.1	383.7	349.6	321.5	296.4	276.3	261.1	250.6	242.9	240.5
135°	468.0	425.3	389.8	359.7	333.1	308.8	289.6	274.2	261.6	254.3	251.3
137.5°	460.3	425.1	393.5	366.7	342.0	319.2	301.0	284.9	273.0	264.9	262.1
140°	456.2	424.5	396.5	371.5	347.9	325.7	308.0	292.6	280.0	271.9	269.8
142.5°	452.7	424.5	398.9	374.9	353.2	331.7	314.5	299.6	287.8	280.2	278.0
145°	446.6	423.0	400.2	378.8	358.9	339.8	323.6	309.5	299.3	291.8	289.6
147.5°	441.2	420.4	401.0	382.2	364.9	346.9	332.2	320.6	310.0	303.5	302.7
150°	437.1	418.6	401.0	384.0	367.8	351.6	337.5	326.5	317.6	311.8	311.0
152.5°	432.3	415.7	399.7	385.1	370.1	355.7	342.9	333.0	324.7	318.9	318.7
155°	425.3	411.2	397.9	386.2	373.6	361.1	350.1	342.0	334.6	330.2	329.4
157.5°	418.0	406.7	396.1	386.2	376.2	365.5	356.8	349.8	344.0	339.9	339.9
160°	412.7	403.1	394.3	386.2	377.3	368.5	360.4	354.5	349.3	346.4	346.4
162.5°	408.0	399.6	392.6	386.2	378.5	370.2	363.9	358.6	354.0	351.7	352.3
165°	400.2	394.3	389.2	384.7	378.8	372.2	367.8	364.1	360.4	358.9	358.9
167.5°	393.1	389.0	385.6	383.0	378.7	373.8	370.4	368.3	365.5	364.9	365.5
170°	388.4	385.4	383.2	381.7	378.1	374.4	372.2	370.7	368.5	367.8	368.5
172.5°	384.3	381.9	380.9	380.6	377.5	374.9	373.3	372.5	370.9	370.7	371.5
175°	379.6	378.1	378.1	378.8	376.6	375.1	375.1	374.4	373.6	373.6	374.4
177.5°	376.3	375.7	375.7	376.9	375.7	375.1	375.1	375.1	374.6	375.1	375.7
180°	375.1	375.1	375.1	375.1	375.1	375.1	375.1	375.1	375.1	375.1	375.1



TEST NUMBER: P332879-830

CATALOG NUMBER: SA4XXRDIP-C350D810U830-4F0-1E-UDD-A4

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°	6.3	6.2	5.7	5.7	5.7	6.1	6.3	6.6	7.0	6.6	7.1
90°	2.2	4.4	5.2	5.9	5.9	10.3	10.3	11.8	13.3	12.5	13.3
92.5°	12.3	19.1	28.2	38.9	54.2	91.7	148.8	204.6	233.8	194.7	144.8
95°	26.5	33.9	43.5	61.2	92.1	156.3	277.1	453.3	600.7	617.6	546.1
97.5°	43.6	50.0	58.8	74.0	99.9	149.3	249.1	424.2	632.6	775.9	806.8
100°	56.0	61.2	70.0	84.0	107.6	151.1	234.4	384.7	592.6	781.2	888.8
102.5°	69.0	73.5	81.8	95.2	117.6	156.9	230.3	358.2	542.4	737.0	884.7
105°	88.4	92.1	100.9	114.2	135.6	171.0	232.1	335.4	483.4	656.7	825.5
107.5°	108.0	111.7	121.1	133.8	155.0	187.4	243.1	331.2	450.4	591.8	741.3
110°	121.6	125.3	134.1	147.4	167.3	199.7	251.3	332.3	439.2	559.4	690.6



TEST NUMBER: P332879-830

CATALOG NUMBER: SA4XXRDIP-C350D810U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	134.6	138.8	147.1	160.3	180.3	211.5	260.1	335.9	433.9	541.1	653.5
115°	154.0	159.2	166.5	180.6	200.5	230.0	274.2	342.7	431.1	524.0	616.1
117.5°	173.3	178.0	186.1	199.2	219.8	247.8	288.4	350.0	430.4	516.3	597.9
120°	185.7	190.9	199.0	211.5	232.1	260.1	298.5	355.2	430.4	512.2	589.6
122.5°	197.6	202.6	210.2	223.9	243.9	271.9	307.9	360.5	429.8	507.5	582.5
125°	214.4	218.9	227.0	241.0	261.6	288.1	322.1	368.5	429.0	499.6	570.4
127.5°	227.6	232.9	242.1	256.7	277.6	303.2	334.3	374.8	427.3	489.2	555.7
130°	235.8	241.8	252.8	266.8	288.1	313.2	342.0	379.6	426.7	482.8	543.9
132.5°	242.9	250.6	261.1	276.3	296.4	321.5	349.6	383.7	426.1	476.8	531.5
135°	254.3	261.6	274.2	289.6	308.8	333.1	359.7	389.8	425.3	468.0	514.4
137.5°	264.9	273.0	284.9	301.0	319.2	342.0	366.7	393.5	425.1	460.3	499.0
140°	271.9	280.0	292.6	308.0	325.7	347.9	371.5	396.5	424.5	456.2	490.1
142.5°	280.2	287.8	299.6	314.5	331.7	353.2	374.9	398.9	424.5	452.7	481.8
145°	291.8	299.3	309.5	323.6	339.8	358.9	378.8	400.2	423.0	446.6	470.2
147.5°	303.5	310.0	320.6	332.2	346.9	364.9	382.2	401.0	420.4	441.2	460.6
150°	311.8	317.6	326.5	337.5	351.6	367.8	384.0	401.0	418.6	437.1	454.7
152.5°	318.9	324.7	333.0	342.9	355.7	370.1	385.1	399.7	415.7	432.3	448.3
155°	330.2	334.6	342.0	350.1	361.1	373.6	386.2	397.9	411.2	425.3	438.5
157.5°	339.9	344.0	349.8	356.8	365.5	376.2	386.2	396.1	406.7	418.0	428.0
160°	346.4	349.3	354.5	360.4	368.5	377.3	386.2	394.3	403.1	412.7	421.6
162.5°	351.7	354.0	358.6	363.9	370.2	378.5	386.2	392.6	399.6	408.0	415.1
165°	358.9	360.4	364.1	367.8	372.2	378.8	384.7	389.2	394.3	400.2	406.0
167.5°	364.9	365.5	368.3	370.4	373.8	378.7	383.0	385.6	389.0	393.1	397.4
170°	367.8	368.5	370.7	372.2	374.4	378.1	381.7	383.2	385.4	388.4	392.1
172.5°	370.7	370.9	372.5	373.3	374.9	377.5	380.6	380.9	381.9	384.3	387.4
175°	373.6	373.6	374.4	375.1	375.1	376.6	378.8	378.1	378.1	379.6	381.1
177.5°	375.1	374.6	375.1	375.1	375.1	375.7	376.9	375.7	375.7	376.3	376.9
180°	375.1	375.1	375.1	375.1	375.1	375.1	375.1	375.1	375.1	375.1	375.1



TEST NUMBER: P332879-830

CATALOG NUMBER: SA4XXRDIP-C350D810U830-4F0-1E-UDD-A4

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	7.1	7.0	7.2	6.9	7.0
90°	14.0	14.7	14.7	15.5	16.2	15.5	15.5
92.5°	109.0	86.7	71.9	63.2	59.3	56.7	56.7
95°	431.9	333.1	261.6	225.6	202.6	189.5	179.8
97.5°	764.4	692.3	615.4	562.5	518.1	496.0	480.7
100°	903.5	867.4	812.9	748.8	703.8	681.7	675.8
102.5°	957.8	968.3	945.6	906.3	873.6	850.4	845.6
105°	952.9	1025.9	1056.1	1057.6	1051.7	1041.4	1037.0
107.5°	877.0	979.8	1045.5	1081.9	1098.7	1106.1	1108.0
110°	818.0	924.9	1006.0	1058.3	1089.3	1102.6	1109.2



TEST NUMBER: P332879-830

CATALOG NUMBER: SA4XXRDIP-C350D810U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	766.2	867.1	948.2	1007.6	1045.1	1063.7	1074.4
115°	706.8	793.0	863.7	922.0	966.2	989.8	995.7
117.5°	672.9	740.6	800.7	850.4	887.5	911.3	916.0
120°	658.2	717.1	769.4	811.4	843.9	863.0	871.1
122.5°	648.7	702.4	748.2	783.7	811.4	827.6	835.8
125°	633.9	684.7	725.2	754.7	776.1	790.0	794.5
127.5°	616.2	666.9	705.5	735.1	754.1	765.9	770.3
130°	602.1	652.2	691.3	721.5	740.0	751.8	756.2
132.5°	586.2	635.2	674.2	703.8	724.6	735.8	740.3
135°	562.3	607.3	644.1	673.6	694.3	706.1	710.5
137.5°	539.5	577.4	610.7	638.2	658.6	668.3	673.6
140°	524.7	557.9	588.9	614.6	630.8	641.2	647.1
142.5°	512.4	540.8	567.6	590.5	605.5	614.6	618.8
145°	495.3	517.4	538.0	556.5	568.9	576.4	580.0
147.5°	480.5	498.2	514.4	528.0	538.8	544.3	545.6
150°	471.6	486.4	499.6	511.5	521.0	525.5	526.2
152.5°	462.8	476.4	487.3	497.3	505.1	507.7	508.5
155°	450.3	461.4	470.2	477.6	483.4	485.7	485.7
157.5°	437.9	447.2	454.3	459.9	464.3	465.6	465.6
160°	429.7	437.8	443.7	448.1	452.5	453.3	453.3
162.5°	422.0	428.4	433.7	436.9	441.3	442.1	441.5
165°	410.5	415.7	419.3	422.3	425.3	424.5	423.8
167.5°	400.8	404.9	407.1	408.6	410.5	410.4	409.7
170°	394.3	397.3	399.4	401.0	401.6	401.0	401.0
172.5°	389.0	390.8	392.4	393.2	394.0	393.2	392.1
175°	381.7	383.2	383.2	383.2	384.7	383.2	381.7
177.5°	377.5	377.5	378.1	377.5	378.1	376.9	375.7
180°	375.1	375.1	375.1	375.1	375.1	375.1	375.1

(END OF REPORT)