

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

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P332878-935

Luminaire Tested: **SA4XXRDIP-C350D810U935-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332878-935
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-C350D810U935-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 350 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 810 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

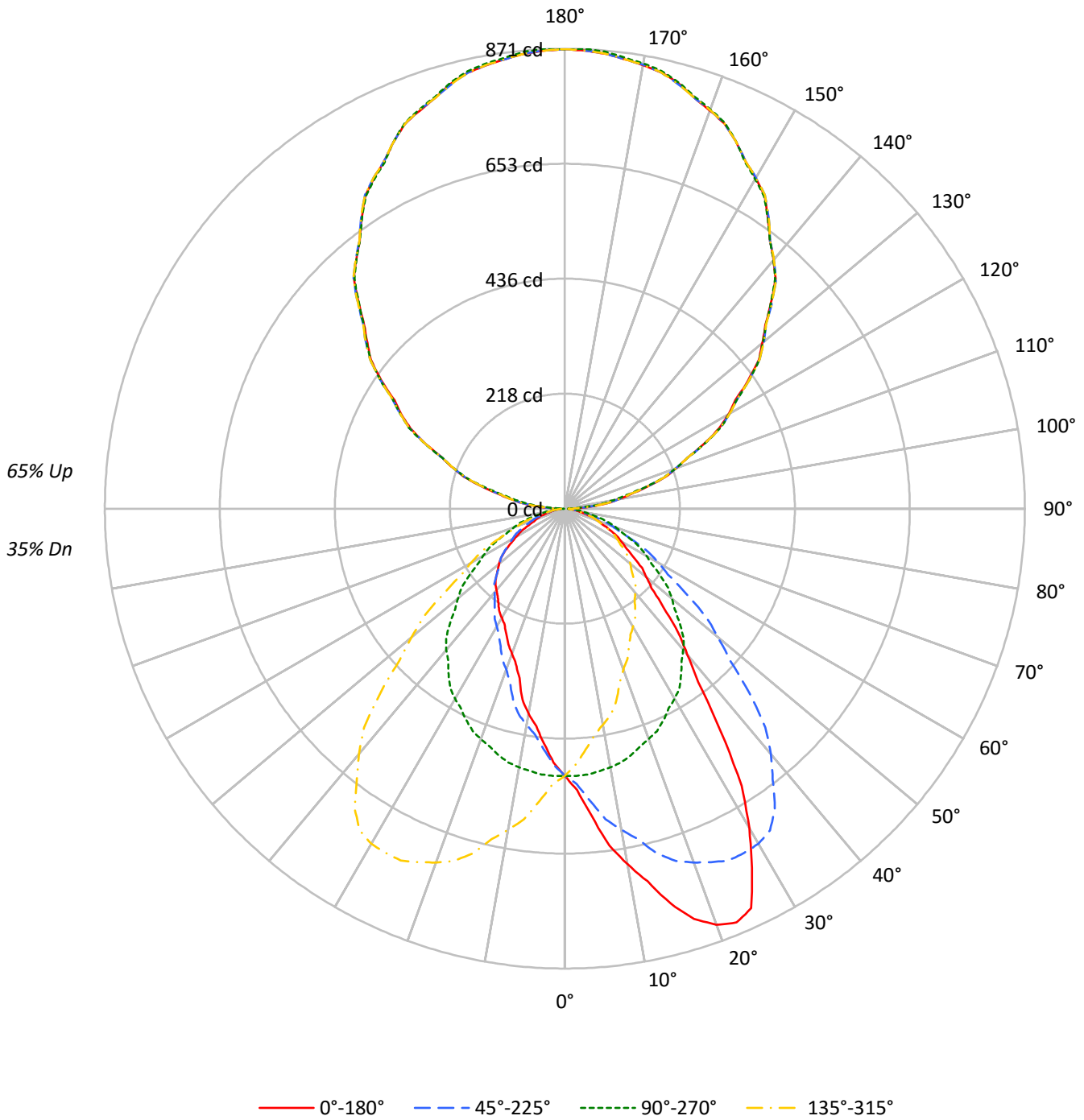
Lumens per Lamp: N/A
Luminaire Lumens: 3695.7 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: Semi-Indirect

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



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4083	4083	4083	4083
5°	4736	4095	3620	4095
10°	5603	4077	3231	4077
15°	6471	4040	2776	4040
20°	7205	3988	2510	3988
25°	7439	3937	2331	3937
30°	6511	3875	2222	3875
35°	5069	3783	2157	3783
40°	3801	3678	2121	3678
45°	3001	3511	2103	3511
50°	2533	3317	2042	3317
55°	2208	3103	1932	3103
60°	1986	2882	1711	2882
65°	1752	2644	1473	2644
70°	1577	2396	1327	2396
75°	1323	2121	1129	2121
80°	1116	1808	1060	1808
85°	945	1417	945	1417



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.0	1.3
10°-20°	147.8	4.0
20°-30°	231.2	6.3
30°-40°	257.0	7.0
40°-50°	228.0	6.2
50°-60°	177.7	4.8
60°-70°	116.3	3.1
70°-80°	57.2	1.5
80°-90°	16.7	0.5
90°-100°	57.4	1.6
100°-110°	170.1	4.6
110°-120°	288.6	7.8
120°-130°	380.6	10.3
130°-140°	427.4	11.6
140°-150°	420.0	11.4
150°-160°	353.3	9.6
160°-170°	235.0	6.4
170°-180°	82.3	2.2
0°-30°	428.0	11.6
0°-40°	685.0	18.5
0°-60°	1090.8	29.5
0°-90°	1281.0	34.7
90°-120°	516.1	14.0
90°-150°	1744.1	47.2
90°-180°	2415.0	65.3
0°-180°	3695.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	506	506	506	506	506	
5°	584	505	447	505	584	59
15°	774	483	332	483	774	220
25°	835	442	262	442	835	370
35°	514	384	219	384	514	322
45°	263	308	184	308	263	208
55°	157	220	137	220	157	143
65°	92	138	77	138	92	92
75°	42	68	36	68	42	47
85°	10	15	10	15	10	12
90°	20	2	20	2	20	11
95°	53	40	53	40	53	55
105°	164	157	164	157	164	173
115°	291	294	291	294	291	287
125°	424	427	424	427	424	378
135°	552	551	552	551	552	426
145°	670	670	670	670	670	420
155°	767	767	767	767	767	353
165°	833	835	833	835	833	235
175°	865	869	865	869	865	82
180°	870	870	870	870	870	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8
2.5°	533.5	534.9	533.5	533.3	531.7	531.2	530.5	528.4	524.5	522.2	522.7
5°	584.4	589.5	586.7	586.3	581.8	577.3	574.5	567.9	560.9	556.3	552.4
7.5°	643.3	646.3	644.5	641.6	634.4	630.3	623.6	615.1	602.6	593.1	584.4
10°	683.5	685.9	685.1	679.8	674.5	663.7	657.5	645.6	629.8	617.4	605.8
12.5°	722.9	725.5	718.3	718.6	708.5	700.0	690.3	675.2	657.1	641.1	626.5
15°	774.3	771.0	771.0	767.0	755.8	744.0	734.0	718.1	695.3	676.1	655.9
17.5°	814.6	815.7	814.1	804.4	795.7	783.4	765.1	746.6	725.4	699.6	679.1
20°	838.7	838.7	836.9	830.3	819.0	805.9	786.2	765.9	739.1	713.2	690.0
22.5°	848.5	849.1	847.0	841.6	831.4	818.6	801.8	781.3	753.5	724.4	695.7
25°	835.1	839.0	839.3	837.9	834.8	827.1	812.6	791.7	766.8	735.2	704.2
27.5°	766.6	771.5	775.8	782.9	792.3	797.1	797.8	787.1	765.4	735.0	703.9
30°	698.5	702.6	715.8	733.1	746.6	758.8	769.5	772.3	760.1	732.8	700.0
32.5°	622.8	628.4	641.7	660.3	682.7	703.4	727.2	739.3	739.0	722.6	692.3
35°	514.3	518.4	530.6	550.2	577.0	607.9	645.6	674.9	694.8	693.4	674.9
37.5°	414.8	419.4	431.7	448.0	474.1	512.1	548.6	589.1	625.9	646.7	640.5
40°	360.7	360.8	372.9	389.6	414.1	447.3	487.0	531.8	573.0	606.7	613.1
42.5°	318.0	318.0	326.0	344.0	361.5	392.8	430.8	475.3	523.5	562.3	579.5
45°	262.9	264.7	271.2	282.0	295.8	322.4	352.8	394.1	448.1	494.1	522.9
47.5°	222.6	225.3	229.5	238.2	249.3	266.9	292.1	329.2	373.2	423.8	464.7
50°	201.7	202.2	207.4	212.3	221.9	236.0	258.0	289.0	329.3	378.0	423.4
52.5°	183.8	183.7	186.9	193.1	200.9	211.8	229.6	257.8	293.6	337.3	384.2
55°	156.9	157.9	160.4	165.2	171.2	178.9	193.0	214.1	242.3	279.6	322.2
57.5°	136.5	137.0	138.9	140.9	146.4	152.1	162.6	177.3	201.0	231.5	271.2
60°	123.0	123.3	123.9	126.9	131.2	136.6	143.7	156.1	176.1	204.0	235.4
62.5°	110.0	110.4	111.3	113.6	116.9	120.5	128.0	138.0	154.5	178.4	206.6
65°	91.7	91.9	93.3	94.1	96.8	100.0	105.6	112.3	123.7	143.7	165.1
67.5°	76.6	76.6	76.7	77.8	79.6	81.8	85.1	90.5	99.1	111.3	130.2
70°	66.8	66.8	67.2	67.8	68.9	70.7	72.6	76.6	82.9	92.9	107.4
72.5°	57.7	57.9	58.3	58.4	58.9	60.4	61.8	64.4	69.1	76.6	88.3
75°	42.4	43.0	44.0	44.9	45.9	45.6	47.1	48.7	50.1	54.6	61.3
77.5°	31.5	31.3	31.3	32.0	32.1	32.4	33.4	34.6	35.7	37.8	40.2
80°	24.0	24.0	24.6	24.9	24.6	24.9	25.9	26.5	26.9	27.7	30.0
82.5°	18.2	18.5	18.3	18.5	18.6	18.9	19.7	19.8	20.2	20.6	21.4
85°	10.2	10.4	10.6	10.2	10.2	10.2	10.6	10.8	11.2	11.0	11.5
87.5°	7.7	7.4	7.5	7.4	7.6	7.2	7.2	7.4	6.9	6.9	6.6
90°	20.2	19.9	19.6	19.3	19.0	18.4	17.5	16.6	15.7	14.8	13.6
92.5°	29.9	29.7	29.5	29.4	29.2	28.8	28.2	27.7	27.2	26.7	25.8
95°	53.2	53.2	53.2	53.2	53.2	53.0	52.5	52.1	51.6	51.1	50.1
97.5°	83.3	83.3	83.3	83.3	83.3	83.1	82.5	82.0	81.5	80.9	79.6
100°	104.4	104.4	104.4	104.4	104.4	104.2	103.9	103.6	103.3	103.0	101.6
102.5°	128.0	127.9	127.8	127.7	127.5	127.3	126.8	126.5	126.1	125.6	124.4
105°	164.3	163.8	163.3	162.9	162.5	162.0	161.5	161.1	160.7	160.2	159.6
107.5°	199.5	199.6	199.6	199.6	199.7	199.4	199.0	198.6	198.2	197.8	197.7
110°	224.8	224.4	223.9	223.5	223.0	222.9	223.3	223.5	223.9	224.1	224.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	250.6	250.6	250.5	250.4	250.3	250.3	250.4	250.4	250.5	250.6	250.8
115°	290.8	290.9	291.1	291.3	291.4	291.5	291.7	291.8	292.0	292.1	292.4
117.5°	329.0	329.3	329.6	329.9	330.2	330.6	331.1	331.7	332.2	332.7	332.9
120°	358.1	357.8	357.5	357.2	356.9	357.1	357.8	358.6	359.4	360.2	360.6
122.5°	382.4	382.9	383.4	383.9	384.5	385.0	385.6	386.0	386.5	387.0	387.3
125°	424.0	424.4	424.6	425.0	425.2	425.6	425.9	426.2	426.5	426.8	426.9
127.5°	462.7	463.0	463.2	463.4	463.6	463.9	464.3	464.5	464.9	465.1	465.4
130°	488.0	488.6	489.2	489.8	490.4	490.9	491.1	491.5	491.7	492.1	492.1
132.5°	515.0	515.1	515.4	515.7	515.9	516.2	516.4	516.8	517.0	517.4	517.5
135°	552.0	552.4	552.8	553.3	553.7	554.1	554.4	554.7	555.0	555.3	555.3
137.5°	590.9	590.7	590.6	590.6	590.5	590.6	591.1	591.4	591.9	592.2	591.9
140°	614.6	614.7	614.8	615.0	615.2	615.3	615.4	615.6	615.8	615.9	615.9
142.5°	638.3	638.3	638.3	638.3	638.3	638.4	638.4	638.4	638.5	638.5	638.6
145°	670.5	670.9	671.3	671.8	672.2	672.5	672.7	672.8	673.0	673.1	673.0
147.5°	703.0	703.2	703.3	703.4	703.6	703.7	703.9	704.0	704.1	704.2	704.3
150°	722.9	723.1	723.2	723.4	723.5	723.6	723.6	723.6	723.6	723.6	723.6
152.5°	741.2	741.7	742.0	742.4	742.8	742.8	742.4	742.1	741.8	741.4	741.2
155°	766.7	767.2	767.8	768.4	769.0	769.0	768.4	767.8	767.2	766.7	766.8
157.5°	789.5	790.0	790.5	791.0	791.4	791.5	791.1	790.6	790.1	789.7	789.7
160°	802.4	803.1	803.8	804.6	805.4	805.5	805.0	804.6	804.2	803.7	803.8
162.5°	815.8	816.6	817.3	818.0	818.8	818.8	817.9	817.2	816.4	815.5	815.7
165°	833.4	833.9	834.5	835.1	835.7	835.6	834.7	833.8	832.8	832.0	832.2
167.5°	845.8	846.8	847.7	848.6	849.5	849.5	848.7	847.7	846.9	845.9	845.9
170°	852.8	853.9	855.0	856.0	857.0	857.1	856.2	855.3	854.4	853.5	853.3
172.5°	858.8	859.8	860.8	861.9	863.0	863.0	861.9	860.9	859.9	858.9	858.8
175°	865.0	866.0	867.0	868.1	869.2	869.2	868.1	867.0	866.0	865.0	865.1
177.5°	868.1	869.2	870.1	871.1	872.0	872.1	871.2	870.4	869.5	868.7	868.7
180°	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8
2.5°	521.1	518.8	517.6	515.1	512.0	510.3	508.9	506.7	503.9	501.0	498.9
5°	547.5	542.6	536.5	529.2	522.7	516.3	510.8	505.3	499.0	492.5	486.0
7.5°	574.6	565.1	554.7	542.6	531.0	520.3	510.5	501.2	490.6	481.0	472.4
10°	593.6	580.6	566.1	550.8	535.5	522.3	509.2	497.4	484.4	472.8	463.0
12.5°	608.9	593.6	576.2	557.2	538.7	522.7	507.7	492.3	477.5	464.9	451.9
15°	634.3	613.4	590.0	567.1	543.3	521.4	501.3	483.4	466.4	448.7	436.3
17.5°	651.9	626.9	598.4	571.0	542.9	517.1	493.9	472.5	453.0	434.9	420.1
20°	662.3	634.7	603.1	572.0	540.4	512.9	487.8	464.2	444.0	424.5	409.1
22.5°	668.1	637.7	603.1	570.5	537.8	508.0	480.5	455.9	433.9	414.3	397.4
25°	670.0	637.4	602.2	564.6	528.8	497.2	468.6	442.0	417.5	398.0	380.0
27.5°	667.4	629.0	592.9	554.4	517.4	484.1	454.2	426.1	401.7	380.6	362.2
30°	663.5	622.3	583.6	543.6	506.2	474.2	442.6	415.7	390.2	368.4	349.9
32.5°	655.0	614.2	572.5	531.6	493.6	460.6	430.7	403.6	378.7	356.4	336.7
35°	638.2	596.8	551.6	509.6	472.3	438.1	410.0	383.9	360.1	336.2	315.5
37.5°	616.0	573.9	528.8	482.8	445.5	413.2	387.4	362.9	339.7	317.9	294.9
40°	595.2	556.7	510.2	464.6	426.3	395.1	371.3	349.0	325.6	304.0	281.0
42.5°	570.0	537.2	490.2	444.4	406.6	376.5	354.3	332.6	311.3	290.3	266.3
45°	527.8	502.9	458.9	414.9	376.8	347.0	326.7	307.5	288.8	268.8	246.2
47.5°	479.4	462.6	424.6	379.5	344.3	317.5	297.8	282.1	266.3	246.3	226.5
50°	445.8	435.1	398.4	357.2	323.6	298.9	278.8	264.1	250.8	231.7	214.0
52.5°	410.0	404.2	373.2	333.9	301.4	277.2	260.0	246.8	233.4	217.5	201.0
55°	355.3	358.4	332.2	298.1	267.5	247.2	231.5	220.5	209.1	195.6	182.8
57.5°	299.5	310.7	293.1	263.2	234.5	215.7	203.9	194.7	185.0	173.9	162.9
60°	266.1	275.5	265.5	239.2	214.1	196.7	185.6	178.5	168.9	158.8	150.4
62.5°	233.5	243.6	237.6	216.4	193.1	178.1	168.3	161.7	154.5	145.7	137.0
65°	192.6	199.1	196.2	181.6	165.1	152.2	143.3	138.4	131.8	125.4	117.6
67.5°	147.5	160.1	158.4	150.6	136.4	126.3	120.5	116.1	110.2	105.4	100.1
70°	121.2	132.9	132.7	126.3	118.6	109.3	105.1	101.5	96.2	91.5	87.2
72.5°	99.3	109.9	111.5	106.6	101.3	94.2	90.3	87.8	82.7	79.5	75.9
75°	69.5	77.2	79.3	79.3	76.8	73.2	69.7	68.0	64.4	61.6	59.5
77.5°	45.5	50.5	53.6	54.3	54.8	53.5	50.6	49.5	46.7	45.7	43.7
80°	32.2	35.5	39.1	40.4	41.3	41.0	39.8	38.9	36.2	35.2	34.4
82.5°	22.2	24.0	27.0	29.8	29.4	30.6	29.4	28.8	26.8	26.4	25.7
85°	11.6	11.8	12.2	14.0	15.1	15.5	15.7	15.3	14.6	14.6	13.3
87.5°	6.4	6.0	6.1	5.8	5.6	5.9	6.1	5.9	5.8	5.6	5.4
90°	12.4	11.2	10.0	8.6	7.0	5.3	3.7	2.0	3.7	5.3	7.0
92.5°	25.0	24.1	23.3	22.0	20.1	18.2	16.3	14.4	16.3	18.2	20.1
95°	49.1	48.0	47.0	45.8	44.4	43.0	41.8	40.4	41.8	43.0	44.4
97.5°	78.4	77.2	76.0	74.8	73.8	72.7	71.6	70.5	71.6	72.7	73.8
100°	100.3	98.9	97.6	96.6	96.0	95.4	94.8	94.3	94.8	95.4	96.0
102.5°	123.1	121.9	120.7	119.9	119.8	119.5	119.2	119.0	119.2	119.5	119.8
105°	159.0	158.4	157.8	157.5	157.3	157.1	157.0	156.9	157.0	157.1	157.3
107.5°	197.6	197.5	197.4	197.3	197.1	196.9	196.7	196.6	196.7	196.9	197.1
110°	224.5	224.6	224.7	224.6	224.4	224.0	223.8	223.5	223.8	224.0	224.4



TEST NUMBER: P332878-935

CATALOG NUMBER: SA4XXRDIP-C350D810U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	251.1	251.3	251.6	251.8	251.7	251.6	251.5	251.5	251.5	251.6	251.7
115°	292.7	293.0	293.3	293.5	293.5	293.5	293.5	293.5	293.5	293.5	293.5
117.5°	333.0	333.3	333.5	333.6	333.4	333.3	333.2	333.0	333.2	333.3	333.4
120°	361.0	361.4	361.9	361.9	361.3	360.7	360.1	359.5	360.1	360.7	361.3
122.5°	387.4	387.7	387.9	387.9	387.6	387.4	387.1	386.9	387.1	387.4	387.6
125°	427.1	427.2	427.3	427.4	427.4	427.4	427.4	427.4	427.4	427.4	427.4
127.5°	465.6	465.8	466.1	466.0	465.5	465.1	464.6	464.2	464.6	465.1	465.5
130°	492.1	492.1	492.1	491.8	491.4	490.9	490.5	490.0	490.5	490.9	491.4
132.5°	517.6	517.7	517.8	517.7	517.4	517.1	516.8	516.4	516.8	517.1	517.4
135°	555.3	555.3	555.3	554.9	554.0	553.1	552.2	551.3	552.2	553.1	554.0
137.5°	591.8	591.5	591.2	590.9	590.5	590.0	589.7	589.3	589.7	590.0	590.5
140°	615.9	615.9	615.9	615.8	615.4	615.2	614.8	614.6	614.8	615.2	615.4
142.5°	638.8	638.9	639.0	638.9	638.6	638.3	638.0	637.7	638.0	638.3	638.6
145°	672.8	672.7	672.5	672.2	671.6	671.0	670.4	669.8	670.4	671.0	671.6
147.5°	704.5	704.6	704.7	704.4	703.7	702.9	702.2	701.5	702.2	702.9	703.7
150°	723.6	723.6	723.6	723.3	722.7	722.1	721.5	720.9	721.5	722.1	722.7
152.5°	741.1	741.0	740.9	740.6	740.3	739.9	739.6	739.3	739.6	739.9	740.3
155°	767.0	767.2	767.2	767.3	767.3	767.3	767.3	767.3	767.3	767.3	767.3
157.5°	789.8	789.8	789.8	790.0	790.2	790.5	790.7	791.1	790.7	790.5	790.2
160°	804.0	804.2	804.3	804.4	804.6	804.8	804.9	805.0	804.9	804.8	804.6
162.5°	815.9	816.0	816.1	816.4	816.8	817.2	817.6	817.9	817.6	817.2	816.8
165°	832.6	832.8	833.2	833.5	834.0	834.5	834.9	835.3	834.9	834.5	834.0
167.5°	845.9	845.8	845.8	846.2	846.8	847.4	848.0	848.7	848.0	847.4	846.8
170°	853.3	853.1	852.9	853.3	853.9	854.7	855.5	856.2	855.5	854.7	853.9
172.5°	858.8	858.8	858.8	859.1	859.7	860.3	861.0	861.6	861.0	860.3	859.7
175°	865.2	865.4	865.6	866.0	866.8	867.5	868.2	869.0	868.2	867.5	866.8
177.5°	868.7	868.7	868.7	869.0	869.6	870.2	870.8	871.4	870.8	870.2	869.6
180°	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3



TEST NUMBER: P332878-935

CATALOG NUMBER: SA4XXRDIP-C350D810U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8
2.5°	496.6	495.0	492.9	490.4	487.5	484.9	483.7	484.7	485.3	483.9	483.7
5°	481.5	476.4	472.3	466.2	461.3	457.3	454.4	453.1	453.6	450.3	449.5
7.5°	464.5	458.5	451.8	444.5	437.8	431.8	428.7	427.0	423.4	422.0	419.5
10°	453.6	445.5	438.9	430.3	422.6	415.5	412.0	409.1	405.7	404.1	400.6
12.5°	442.4	432.9	425.7	416.8	408.9	400.4	397.0	391.8	386.3	382.9	378.4
15°	426.5	415.1	406.3	395.7	386.3	376.6	367.8	358.0	354.4	346.6	342.2
17.5°	407.9	396.4	385.6	371.3	356.9	344.7	335.4	326.0	320.4	315.5	313.1
20°	395.7	385.1	370.1	353.5	337.4	324.0	316.4	310.3	304.2	300.7	298.3
22.5°	384.2	370.6	353.1	335.3	319.2	308.7	302.3	296.0	291.0	287.7	284.5
25°	364.7	347.0	328.5	308.1	297.1	287.9	281.0	275.9	272.9	268.5	266.9
27.5°	344.8	323.3	302.9	289.2	277.8	269.3	263.3	259.5	255.6	252.9	250.7
30°	329.5	307.7	289.4	276.3	264.7	257.8	252.9	248.4	245.3	243.1	241.5
32.5°	314.4	292.6	277.2	263.1	253.9	247.2	241.9	238.6	236.2	233.3	232.3
35°	292.4	273.0	259.6	246.9	237.6	231.5	227.4	223.9	221.9	221.1	220.5
37.5°	271.3	255.5	241.0	230.7	222.3	217.5	212.7	210.9	209.6	208.1	208.8
40°	258.0	243.1	230.2	219.3	212.5	207.2	204.4	202.3	201.1	201.1	201.1
42.5°	246.4	231.9	219.3	209.5	202.8	198.3	195.1	193.4	193.0	192.8	193.8
45°	228.4	215.0	202.3	194.2	188.5	184.0	182.2	180.7	180.7	181.6	181.8
47.5°	210.6	198.0	187.9	178.7	173.5	170.7	169.1	168.4	168.5	169.3	170.2
50°	199.7	187.3	177.3	169.1	164.3	161.6	160.1	159.7	160.1	160.1	161.6
52.5°	187.8	176.7	166.9	160.0	154.5	152.0	151.2	150.6	150.8	151.5	152.1
55°	170.4	160.4	151.0	144.5	140.4	138.8	136.9	137.2	136.7	137.2	137.2
57.5°	152.8	143.9	135.2	130.0	126.4	124.1	122.1	122.6	122.0	121.9	121.6
60°	141.6	131.8	124.9	120.2	116.1	114.1	112.3	112.7	112.1	111.7	110.8
62.5°	129.4	121.2	114.6	110.1	106.9	104.5	102.6	102.3	100.8	99.4	97.6
65°	111.7	105.0	99.0	94.8	91.7	89.9	88.4	87.2	84.1	80.9	79.3
67.5°	94.5	89.5	84.0	80.4	77.9	75.6	72.8	70.8	67.9	66.1	65.1
70°	83.3	78.7	74.0	70.5	67.8	65.6	62.6	61.1	59.1	58.3	57.3
72.5°	72.8	68.4	64.1	60.9	58.1	56.3	53.9	52.5	51.6	51.2	50.3
75°	56.7	53.2	49.9	47.1	44.9	43.6	42.6	41.6	41.2	39.3	38.3
77.5°	41.3	39.0	37.0	35.0	33.4	32.5	30.6	29.4	28.8	27.9	27.6
80°	32.2	30.6	28.5	27.3	25.1	24.3	23.4	23.2	23.0	22.8	22.6
82.5°	24.2	22.6	20.6	19.8	19.2	18.7	18.3	18.0	17.8	17.9	17.9
85°	12.2	11.5	11.5	11.2	11.0	10.8	10.6	10.6	10.4	10.6	10.4
87.5°	5.8	5.9	6.1	6.0	6.5	6.7	6.7	6.9	7.2	7.1	7.2
90°	8.6	10.0	11.2	12.4	13.6	14.8	15.7	16.6	17.5	18.4	19.0
92.5°	22.0	23.3	24.1	25.0	25.8	26.7	27.2	27.7	28.2	28.8	29.2
95°	45.8	47.0	48.0	49.1	50.1	51.1	51.6	52.1	52.5	53.0	53.2
97.5°	74.8	76.0	77.2	78.4	79.6	80.9	81.5	82.0	82.5	83.1	83.3
100°	96.6	97.6	98.9	100.3	101.6	103.0	103.3	103.6	103.9	104.2	104.4
102.5°	119.9	120.7	121.9	123.1	124.4	125.6	126.1	126.5	126.8	127.3	127.5
105°	157.5	157.8	158.4	159.0	159.6	160.2	160.7	161.1	161.5	162.0	162.5
107.5°	197.3	197.4	197.5	197.6	197.7	197.8	198.2	198.6	199.0	199.4	199.7
110°	224.6	224.7	224.6	224.5	224.3	224.1	223.9	223.5	223.3	222.9	223.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	251.8	251.6	251.3	251.1	250.8	250.6	250.5	250.4	250.4	250.3	250.3
115°	293.5	293.3	293.0	292.7	292.4	292.1	292.0	291.8	291.7	291.5	291.4
117.5°	333.6	333.5	333.3	333.0	332.9	332.7	332.2	331.7	331.1	330.6	330.2
120°	361.9	361.9	361.4	361.0	360.6	360.2	359.4	358.6	357.8	357.1	356.9
122.5°	387.9	387.9	387.7	387.4	387.3	387.0	386.5	386.0	385.6	385.0	384.5
125°	427.4	427.3	427.2	427.1	426.9	426.8	426.5	426.2	425.9	425.6	425.2
127.5°	466.0	466.1	465.8	465.6	465.4	465.1	464.9	464.5	464.3	463.9	463.6
130°	491.8	492.1	492.1	492.1	492.1	492.1	491.7	491.5	491.1	490.9	490.4
132.5°	517.7	517.8	517.7	517.6	517.5	517.4	517.0	516.8	516.4	516.2	515.9
135°	554.9	555.3	555.3	555.3	555.3	555.3	555.0	554.7	554.4	554.1	553.7
137.5°	590.9	591.2	591.5	591.8	591.9	592.2	591.9	591.4	591.1	590.6	590.5
140°	615.8	615.9	615.9	615.9	615.9	615.9	615.8	615.6	615.4	615.3	615.2
142.5°	638.9	639.0	638.9	638.8	638.6	638.5	638.5	638.4	638.4	638.4	638.3
145°	672.2	672.5	672.7	672.8	673.0	673.1	673.0	672.8	672.7	672.5	672.2
147.5°	704.4	704.7	704.6	704.5	704.3	704.2	704.1	704.0	703.9	703.7	703.6
150°	723.3	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.5
152.5°	740.6	740.9	741.0	741.1	741.2	741.4	741.8	742.1	742.4	742.8	742.8
155°	767.3	767.2	767.2	767.0	766.8	766.7	767.2	767.8	768.4	769.0	769.0
157.5°	790.0	789.8	789.8	789.8	789.7	789.7	790.1	790.6	791.1	791.5	791.4
160°	804.4	804.3	804.2	804.0	803.8	803.7	804.2	804.6	805.0	805.5	805.4
162.5°	816.4	816.1	816.0	815.9	815.7	815.5	816.4	817.2	817.9	818.8	818.8
165°	833.5	833.2	832.8	832.6	832.2	832.0	832.8	833.8	834.7	835.6	835.7
167.5°	846.2	845.8	845.8	845.9	845.9	845.9	846.9	847.7	848.7	849.5	849.5
170°	853.3	852.9	853.1	853.3	853.3	853.5	854.4	855.3	856.2	857.1	857.0
172.5°	859.1	858.8	858.8	858.8	858.8	858.9	859.9	860.9	861.9	863.0	863.0
175°	866.0	865.6	865.4	865.2	865.1	865.0	866.0	867.0	868.1	869.2	869.2
177.5°	869.0	868.7	868.7	868.7	868.7	868.7	869.5	870.4	871.2	872.1	872.0
180°	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8
2.5°	482.8	483.1	482.0	481.6	482.0	483.1	482.8	483.7	483.9	485.3	484.7
5°	447.9	447.5	446.4	446.7	446.4	447.5	447.9	449.5	450.3	453.6	453.1
7.5°	418.0	416.5	416.9	415.3	416.9	416.5	418.0	419.5	422.0	423.4	427.0
10°	399.8	397.5	395.7	394.1	395.7	397.5	399.8	400.6	404.1	405.7	409.1
12.5°	374.9	372.9	370.5	370.9	370.5	372.9	374.9	378.4	382.9	386.3	391.8
15°	339.5	336.4	331.6	332.2	331.6	336.4	339.5	342.2	346.6	354.4	358.0
17.5°	309.5	309.5	307.3	307.9	307.3	309.5	309.5	313.1	315.5	320.4	326.0
20°	294.0	292.7	292.8	292.2	292.8	292.7	294.0	298.3	300.7	304.2	310.3
22.5°	283.3	281.5	280.1	278.9	280.1	281.5	283.3	284.5	287.7	291.0	296.0
25°	265.1	263.9	262.1	261.7	262.1	263.9	265.1	266.9	268.5	272.9	275.9
27.5°	249.1	248.9	248.1	247.2	248.1	248.9	249.1	250.7	252.9	255.6	259.5
30°	239.9	239.4	239.0	238.4	239.0	239.4	239.9	241.5	243.1	245.3	248.4
32.5°	231.5	231.3	230.8	230.9	230.8	231.3	231.5	232.3	233.3	236.2	238.6
35°	219.6	219.5	219.0	218.9	219.0	219.5	219.6	220.5	221.1	221.9	223.9
37.5°	208.6	209.1	208.9	208.8	208.9	209.1	208.6	208.8	208.1	209.6	210.9
40°	201.0	201.1	201.6	201.3	201.6	201.1	201.0	201.1	201.1	201.1	202.3
42.5°	194.6	194.6	195.2	194.5	195.2	194.6	194.6	193.8	192.8	193.0	193.4
45°	183.2	184.4	184.2	184.2	184.2	184.4	183.2	181.8	181.6	180.7	180.7
47.5°	170.7	171.9	172.1	172.0	172.1	171.9	170.7	170.2	169.3	168.5	168.4
50°	162.6	162.2	162.8	162.6	162.8	162.2	162.6	161.6	160.1	160.1	159.7
52.5°	152.7	152.7	152.7	152.5	152.7	152.7	152.7	152.1	151.5	150.8	150.6
55°	137.3	137.6	137.2	137.3	137.2	137.6	137.3	137.2	137.2	136.7	137.2
57.5°	120.7	119.8	120.1	119.7	120.1	119.8	120.7	121.6	121.9	122.0	122.6
60°	108.8	107.2	106.8	106.0	106.8	107.2	108.8	110.8	111.7	112.1	112.7
62.5°	95.5	94.3	92.9	93.6	92.9	94.3	95.5	97.6	99.4	100.8	102.3
65°	77.7	76.8	76.2	77.1	76.2	76.8	77.7	79.3	80.9	84.1	87.2
67.5°	64.2	63.8	63.8	63.5	63.8	63.8	64.2	65.1	66.1	67.9	70.8
70°	57.3	56.7	56.7	56.2	56.7	56.7	57.3	57.3	58.3	59.1	61.1
72.5°	50.1	49.5	49.7	49.4	49.7	49.5	50.1	50.3	51.2	51.6	52.5
75°	37.1	36.1	36.1	36.2	36.1	36.1	37.1	38.3	39.3	41.2	41.6
77.5°	27.6	27.5	27.7	27.4	27.7	27.5	27.6	27.6	27.9	28.8	29.4
80°	22.6	22.4	22.2	22.8	22.2	22.4	22.6	22.6	22.8	23.0	23.2
82.5°	17.6	17.6	17.5	18.3	17.5	17.6	17.6	17.9	17.9	17.8	18.0
85°	10.6	10.2	10.6	10.2	10.6	10.2	10.6	10.4	10.6	10.4	10.6
87.5°	7.6	7.5	7.4	7.7	7.4	7.5	7.6	7.2	7.1	7.2	6.9
90°	19.3	19.6	19.9	20.2	19.9	19.6	19.3	19.0	18.4	17.5	16.6
92.5°	29.4	29.5	29.7	29.9	29.7	29.5	29.4	29.2	28.8	28.2	27.7
95°	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.0	52.5	52.1
97.5°	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.1	82.5	82.0
100°	104.4	104.4	104.4	104.4	104.4	104.4	104.4	104.4	104.2	103.9	103.6
102.5°	127.7	127.8	127.9	128.0	127.9	127.8	127.7	127.5	127.3	126.8	126.5
105°	162.9	163.3	163.8	164.3	163.8	163.3	162.9	162.5	162.0	161.5	161.1
107.5°	199.6	199.6	199.6	199.5	199.6	199.6	199.6	199.7	199.4	199.0	198.6
110°	223.5	223.9	224.4	224.8	224.4	223.9	223.5	223.0	222.9	223.3	223.5



TEST NUMBER: P332878-935

CATALOG NUMBER: SA4XXRDIP-C350D810U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	250.4	250.5	250.6	250.6	250.6	250.5	250.4	250.3	250.3	250.4	250.4
115°	291.3	291.1	290.9	290.8	290.9	291.1	291.3	291.4	291.5	291.7	291.8
117.5°	329.9	329.6	329.3	329.0	329.3	329.6	329.9	330.2	330.6	331.1	331.7
120°	357.2	357.5	357.8	358.1	357.8	357.5	357.2	356.9	357.1	357.8	358.6
122.5°	383.9	383.4	382.9	382.4	382.9	383.4	383.9	384.5	385.0	385.6	386.0
125°	425.0	424.6	424.4	424.0	424.4	424.6	425.0	425.2	425.6	425.9	426.2
127.5°	463.4	463.2	463.0	462.7	463.0	463.2	463.4	463.6	463.9	464.3	464.5
130°	489.8	489.2	488.6	488.0	488.6	489.2	489.8	490.4	490.9	491.1	491.5
132.5°	515.7	515.4	515.1	515.0	515.1	515.4	515.7	515.9	516.2	516.4	516.8
135°	553.3	552.8	552.4	552.0	552.4	552.8	553.3	553.7	554.1	554.4	554.7
137.5°	590.6	590.6	590.7	590.9	590.7	590.6	590.6	590.5	590.6	591.1	591.4
140°	615.0	614.8	614.7	614.6	614.7	614.8	615.0	615.2	615.3	615.4	615.6
142.5°	638.3	638.3	638.3	638.3	638.3	638.3	638.3	638.3	638.4	638.4	638.4
145°	671.8	671.3	670.9	670.5	670.9	671.3	671.8	672.2	672.5	672.7	672.8
147.5°	703.4	703.3	703.2	703.0	703.2	703.3	703.4	703.6	703.7	703.9	704.0
150°	723.4	723.2	723.1	722.9	723.1	723.2	723.4	723.5	723.6	723.6	723.6
152.5°	742.4	742.0	741.7	741.2	741.7	742.0	742.4	742.8	742.8	742.4	742.1
155°	768.4	767.8	767.2	766.7	767.2	767.8	768.4	769.0	769.0	768.4	767.8
157.5°	791.0	790.5	790.0	789.5	790.0	790.5	791.0	791.4	791.5	791.1	790.6
160°	804.6	803.8	803.1	802.4	803.1	803.8	804.6	805.4	805.5	805.0	804.6
162.5°	818.0	817.3	816.6	815.8	816.6	817.3	818.0	818.8	818.8	817.9	817.2
165°	835.1	834.5	833.9	833.4	833.9	834.5	835.1	835.7	835.6	834.7	833.8
167.5°	848.6	847.7	846.8	845.8	846.8	847.7	848.6	849.5	849.5	848.7	847.7
170°	856.0	855.0	853.9	852.8	853.9	855.0	856.0	857.0	857.1	856.2	855.3
172.5°	861.9	860.8	859.8	858.8	859.8	860.8	861.9	863.0	863.0	861.9	860.9
175°	868.1	867.0	866.0	865.0	866.0	867.0	868.1	869.2	869.2	868.1	867.0
177.5°	871.1	870.1	869.2	868.1	869.2	870.1	871.1	872.0	872.1	871.2	870.4
180°	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3



TEST NUMBER: P332878-935

CATALOG NUMBER: SA4XXRDIP-C350D810U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8
2.5°	483.7	484.9	487.5	490.4	492.9	495.0	496.6	498.9	501.0	503.9	506.7
5°	454.4	457.3	461.3	466.2	472.3	476.4	481.5	486.0	492.5	499.0	505.3
7.5°	428.7	431.8	437.8	444.5	451.8	458.5	464.5	472.4	481.0	490.6	501.2
10°	412.0	415.5	422.6	430.3	438.9	445.5	453.6	463.0	472.8	484.4	497.4
12.5°	397.0	400.4	408.9	416.8	425.7	432.9	442.4	451.9	464.9	477.5	492.3
15°	367.8	376.6	386.3	395.7	406.3	415.1	426.5	436.3	448.7	466.4	483.4
17.5°	335.4	344.7	356.9	371.3	385.6	396.4	407.9	420.1	434.9	453.0	472.5
20°	316.4	324.0	337.4	353.5	370.1	385.1	395.7	409.1	424.5	444.0	464.2
22.5°	302.3	308.7	319.2	335.3	353.1	370.6	384.2	397.4	414.3	433.9	455.9
25°	281.0	287.9	297.1	308.1	328.5	347.0	364.7	380.0	398.0	417.5	442.0
27.5°	263.3	269.3	277.8	289.2	302.9	323.3	344.8	362.2	380.6	401.7	426.1
30°	252.9	257.8	264.7	276.3	289.4	307.7	329.5	349.9	368.4	390.2	415.7
32.5°	241.9	247.2	253.9	263.1	277.2	292.6	314.4	336.7	356.4	378.7	403.6
35°	227.4	231.5	237.6	246.9	259.6	273.0	292.4	315.5	336.2	360.1	383.9
37.5°	212.7	217.5	222.3	230.7	241.0	255.5	271.3	294.9	317.9	339.7	362.9
40°	204.4	207.2	212.5	219.3	230.2	243.1	258.0	281.0	304.0	325.6	349.0
42.5°	195.1	198.3	202.8	209.5	219.3	231.9	246.4	266.3	290.3	311.3	332.6
45°	182.2	184.0	188.5	194.2	202.3	215.0	228.4	246.2	268.8	288.8	307.5
47.5°	169.1	170.7	173.5	178.7	187.9	198.0	210.6	226.5	246.3	266.3	282.1
50°	160.1	161.6	164.3	169.1	177.3	187.3	199.7	214.0	231.7	250.8	264.1
52.5°	151.2	152.0	154.5	160.0	166.9	176.7	187.8	201.0	217.5	233.4	246.8
55°	136.9	138.8	140.4	144.5	151.0	160.4	170.4	182.8	195.6	209.1	220.5
57.5°	122.1	124.1	126.4	130.0	135.2	143.9	152.8	162.9	173.9	185.0	194.7
60°	112.3	114.1	116.1	120.2	124.9	131.8	141.6	150.4	158.8	168.9	178.5
62.5°	102.6	104.5	106.9	110.1	114.6	121.2	129.4	137.0	145.7	154.5	161.7
65°	88.4	89.9	91.7	94.8	99.0	105.0	111.7	117.6	125.4	131.8	138.4
67.5°	72.8	75.6	77.9	80.4	84.0	89.5	94.5	100.1	105.4	110.2	116.1
70°	62.6	65.6	67.8	70.5	74.0	78.7	83.3	87.2	91.5	96.2	101.5
72.5°	53.9	56.3	58.1	60.9	64.1	68.4	72.8	75.9	79.5	82.7	87.8
75°	42.6	43.6	44.9	47.1	49.9	53.2	56.7	59.5	61.6	64.4	68.0
77.5°	30.6	32.5	33.4	35.0	37.0	39.0	41.3	43.7	45.7	46.7	49.5
80°	23.4	24.3	25.1	27.3	28.5	30.6	32.2	34.4	35.2	36.2	38.9
82.5°	18.3	18.7	19.2	19.8	20.6	22.6	24.2	25.7	26.4	26.8	28.8
85°	10.6	10.8	11.0	11.2	11.5	11.5	12.2	13.3	14.6	14.6	15.3
87.5°	6.7	6.7	6.5	6.0	6.1	5.9	5.8	5.4	5.6	5.8	5.9
90°	15.7	14.8	13.6	12.4	11.2	10.0	8.6	7.0	5.3	3.7	2.0
92.5°	27.2	26.7	25.8	25.0	24.1	23.3	22.0	20.1	18.2	16.3	14.4
95°	51.6	51.1	50.1	49.1	48.0	47.0	45.8	44.4	43.0	41.8	40.4
97.5°	81.5	80.9	79.6	78.4	77.2	76.0	74.8	73.8	72.7	71.6	70.5
100°	103.3	103.0	101.6	100.3	98.9	97.6	96.6	96.0	95.4	94.8	94.3
102.5°	126.1	125.6	124.4	123.1	121.9	120.7	119.9	119.8	119.5	119.2	119.0
105°	160.7	160.2	159.6	159.0	158.4	157.8	157.5	157.3	157.1	157.0	156.9
107.5°	198.2	197.8	197.7	197.6	197.5	197.4	197.3	197.1	196.9	196.7	196.6
110°	223.9	224.1	224.3	224.5	224.6	224.7	224.6	224.4	224.0	223.8	223.5



TEST NUMBER: P332878-935

CATALOG NUMBER: SA4XXRDIP-C350D810U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	250.5	250.6	250.8	251.1	251.3	251.6	251.8	251.7	251.6	251.5	251.5
115°	292.0	292.1	292.4	292.7	293.0	293.3	293.5	293.5	293.5	293.5	293.5
117.5°	332.2	332.7	332.9	333.0	333.3	333.5	333.6	333.4	333.3	333.2	333.0
120°	359.4	360.2	360.6	361.0	361.4	361.9	361.9	361.3	360.7	360.1	359.5
122.5°	386.5	387.0	387.3	387.4	387.7	387.9	387.9	387.6	387.4	387.1	386.9
125°	426.5	426.8	426.9	427.1	427.2	427.3	427.4	427.4	427.4	427.4	427.4
127.5°	464.9	465.1	465.4	465.6	465.8	466.1	466.0	465.5	465.1	464.6	464.2
130°	491.7	492.1	492.1	492.1	492.1	492.1	491.8	491.4	490.9	490.5	490.0
132.5°	517.0	517.4	517.5	517.6	517.7	517.8	517.7	517.4	517.1	516.8	516.4
135°	555.0	555.3	555.3	555.3	555.3	555.3	554.9	554.0	553.1	552.2	551.3
137.5°	591.9	592.2	591.9	591.8	591.5	591.2	590.9	590.5	590.0	589.7	589.3
140°	615.8	615.9	615.9	615.9	615.9	615.9	615.8	615.4	615.2	614.8	614.6
142.5°	638.5	638.5	638.6	638.8	638.9	639.0	638.9	638.6	638.3	638.0	637.7
145°	673.0	673.1	673.0	672.8	672.7	672.5	672.2	671.6	671.0	670.4	669.8
147.5°	704.1	704.2	704.3	704.5	704.6	704.7	704.4	703.7	702.9	702.2	701.5
150°	723.6	723.6	723.6	723.6	723.6	723.6	723.3	722.7	722.1	721.5	720.9
152.5°	741.8	741.4	741.2	741.1	741.0	740.9	740.6	740.3	739.9	739.6	739.3
155°	767.2	766.7	766.8	767.0	767.2	767.2	767.3	767.3	767.3	767.3	767.3
157.5°	790.1	789.7	789.7	789.8	789.8	789.8	790.0	790.2	790.5	790.7	791.1
160°	804.2	803.7	803.8	804.0	804.2	804.3	804.4	804.6	804.8	804.9	805.0
162.5°	816.4	815.5	815.7	815.9	816.0	816.1	816.4	816.8	817.2	817.6	817.9
165°	832.8	832.0	832.2	832.6	832.8	833.2	833.5	834.0	834.5	834.9	835.3
167.5°	846.9	845.9	845.9	845.9	845.8	845.8	846.2	846.8	847.4	848.0	848.7
170°	854.4	853.5	853.3	853.3	853.1	852.9	853.3	853.9	854.7	855.5	856.2
172.5°	859.9	858.9	858.8	858.8	858.8	858.8	859.1	859.7	860.3	861.0	861.6
175°	866.0	865.0	865.1	865.2	865.4	865.6	866.0	866.8	867.5	868.2	869.0
177.5°	869.5	868.7	868.7	868.7	868.7	868.7	869.0	869.6	870.2	870.8	871.4
180°	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3



TEST NUMBER: P332878-935

CATALOG NUMBER: SA4XXRDIP-C350D810U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8
2.5°	508.9	510.3	512.0	515.1	517.6	518.8	521.1	522.7	522.2	524.5	528.4
5°	510.8	516.3	522.7	529.2	536.5	542.6	547.5	552.4	556.3	560.9	567.9
7.5°	510.5	520.3	531.0	542.6	554.7	565.1	574.6	584.4	593.1	602.6	615.1
10°	509.2	522.3	535.5	550.8	566.1	580.6	593.6	605.8	617.4	629.8	645.6
12.5°	507.7	522.7	538.7	557.2	576.2	593.6	608.9	626.5	641.1	657.1	675.2
15°	501.3	521.4	543.3	567.1	590.0	613.4	634.3	655.9	676.1	695.3	718.1
17.5°	493.9	517.1	542.9	571.0	598.4	626.9	651.9	679.1	699.6	725.4	746.6
20°	487.8	512.9	540.4	572.0	603.1	634.7	662.3	690.0	713.2	739.1	765.9
22.5°	480.5	508.0	537.8	570.5	603.1	637.7	668.1	695.7	724.4	753.5	781.3
25°	468.6	497.2	528.8	564.6	602.2	637.4	670.0	704.2	735.2	766.8	791.7
27.5°	454.2	484.1	517.4	554.4	592.9	629.0	667.4	703.9	735.0	765.4	787.1
30°	442.6	474.2	506.2	543.6	583.6	622.3	663.5	700.0	732.8	760.1	772.3
32.5°	430.7	460.6	493.6	531.6	572.5	614.2	655.0	692.3	722.6	739.0	739.3
35°	410.0	438.1	472.3	509.6	551.6	596.8	638.2	674.9	693.4	694.8	674.9
37.5°	387.4	413.2	445.5	482.8	528.8	573.9	616.0	640.5	646.7	625.9	589.1
40°	371.3	395.1	426.3	464.6	510.2	556.7	595.2	613.1	606.7	573.0	531.8
42.5°	354.3	376.5	406.6	444.4	490.2	537.2	570.0	579.5	562.3	523.5	475.3
45°	326.7	347.0	376.8	414.9	458.9	502.9	527.8	522.9	494.1	448.1	394.1
47.5°	297.8	317.5	344.3	379.5	424.6	462.6	479.4	464.7	423.8	373.2	329.2
50°	278.8	298.9	323.6	357.2	398.4	435.1	445.8	423.4	378.0	329.3	289.0
52.5°	260.0	277.2	301.4	333.9	373.2	404.2	410.0	384.2	337.3	293.6	257.8
55°	231.5	247.2	267.5	298.1	332.2	358.4	355.3	322.2	279.6	242.3	214.1
57.5°	203.9	215.7	234.5	263.2	293.1	310.7	299.5	271.2	231.5	201.0	177.3
60°	185.6	196.7	214.1	239.2	265.5	275.5	266.1	235.4	204.0	176.1	156.1
62.5°	168.3	178.1	193.1	216.4	237.6	243.6	233.5	206.6	178.4	154.5	138.0
65°	143.3	152.2	165.1	181.6	196.2	199.1	192.6	165.1	143.7	123.7	112.3
67.5°	120.5	126.3	136.4	150.6	158.4	160.1	147.5	130.2	111.3	99.1	90.5
70°	105.1	109.3	118.6	126.3	132.7	132.9	121.2	107.4	92.9	82.9	76.6
72.5°	90.3	94.2	101.3	106.6	111.5	109.9	99.3	88.3	76.6	69.1	64.4
75°	69.7	73.2	76.8	79.3	79.3	77.2	69.5	61.3	54.6	50.1	48.7
77.5°	50.6	53.5	54.8	54.3	53.6	50.5	45.5	40.2	37.8	35.7	34.6
80°	39.8	41.0	41.3	40.4	39.1	35.5	32.2	30.0	27.7	26.9	26.5
82.5°	29.4	30.6	29.4	29.8	27.0	24.0	22.2	21.4	20.6	20.2	19.8
85°	15.7	15.5	15.1	14.0	12.2	11.8	11.6	11.5	11.0	11.2	10.8
87.5°	6.1	5.9	5.6	5.8	6.1	6.0	6.4	6.6	6.9	6.9	7.4
90°	3.7	5.3	7.0	8.6	10.0	11.2	12.4	13.6	14.8	15.7	16.6
92.5°	16.3	18.2	20.1	22.0	23.3	24.1	25.0	25.8	26.7	27.2	27.7
95°	41.8	43.0	44.4	45.8	47.0	48.0	49.1	50.1	51.1	51.6	52.1
97.5°	71.6	72.7	73.8	74.8	76.0	77.2	78.4	79.6	80.9	81.5	82.0
100°	94.8	95.4	96.0	96.6	97.6	98.9	100.3	101.6	103.0	103.3	103.6
102.5°	119.2	119.5	119.8	119.9	120.7	121.9	123.1	124.4	125.6	126.1	126.5
105°	157.0	157.1	157.3	157.5	157.8	158.4	159.0	159.6	160.2	160.7	161.1
107.5°	196.7	196.9	197.1	197.3	197.4	197.5	197.6	197.7	197.8	198.2	198.6
110°	223.8	224.0	224.4	224.6	224.7	224.6	224.5	224.3	224.1	223.9	223.5



TEST NUMBER: P332878-935

CATALOG NUMBER: SA4XXRDIP-C350D810U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	251.5	251.6	251.7	251.8	251.6	251.3	251.1	250.8	250.6	250.5	250.4
115°	293.5	293.5	293.5	293.5	293.3	293.0	292.7	292.4	292.1	292.0	291.8
117.5°	333.2	333.3	333.4	333.6	333.5	333.3	333.0	332.9	332.7	332.2	331.7
120°	360.1	360.7	361.3	361.9	361.9	361.4	361.0	360.6	360.2	359.4	358.6
122.5°	387.1	387.4	387.6	387.9	387.9	387.7	387.4	387.3	387.0	386.5	386.0
125°	427.4	427.4	427.4	427.4	427.3	427.2	427.1	426.9	426.8	426.5	426.2
127.5°	464.6	465.1	465.5	466.0	466.1	465.8	465.6	465.4	465.1	464.9	464.5
130°	490.5	490.9	491.4	491.8	492.1	492.1	492.1	492.1	492.1	491.7	491.5
132.5°	516.8	517.1	517.4	517.7	517.8	517.7	517.6	517.5	517.4	517.0	516.8
135°	552.2	553.1	554.0	554.9	555.3	555.3	555.3	555.3	555.3	555.0	554.7
137.5°	589.7	590.0	590.5	590.9	591.2	591.5	591.8	591.9	592.2	591.9	591.4
140°	614.8	615.2	615.4	615.8	615.9	615.9	615.9	615.9	615.9	615.8	615.6
142.5°	638.0	638.3	638.6	638.9	639.0	638.9	638.8	638.6	638.5	638.5	638.4
145°	670.4	671.0	671.6	672.2	672.5	672.7	672.8	673.0	673.1	673.0	672.8
147.5°	702.2	702.9	703.7	704.4	704.7	704.6	704.5	704.3	704.2	704.1	704.0
150°	721.5	722.1	722.7	723.3	723.6	723.6	723.6	723.6	723.6	723.6	723.6
152.5°	739.6	739.9	740.3	740.6	740.9	741.0	741.1	741.2	741.4	741.8	742.1
155°	767.3	767.3	767.3	767.3	767.2	767.2	767.0	766.8	766.7	767.2	767.8
157.5°	790.7	790.5	790.2	790.0	789.8	789.8	789.8	789.7	789.7	790.1	790.6
160°	804.9	804.8	804.6	804.4	804.3	804.2	804.0	803.8	803.7	804.2	804.6
162.5°	817.6	817.2	816.8	816.4	816.1	816.0	815.9	815.7	815.5	816.4	817.2
165°	834.9	834.5	834.0	833.5	833.2	832.8	832.6	832.2	832.0	832.8	833.8
167.5°	848.0	847.4	846.8	846.2	845.8	845.8	845.9	845.9	845.9	846.9	847.7
170°	855.5	854.7	853.9	853.3	852.9	853.1	853.3	853.3	853.5	854.4	855.3
172.5°	861.0	860.3	859.7	859.1	858.8	858.8	858.8	858.8	858.9	859.9	860.9
175°	868.2	867.5	866.8	866.0	865.6	865.4	865.2	865.1	865.0	866.0	867.0
177.5°	870.8	870.2	869.6	869.0	868.7	868.7	868.7	868.7	868.7	869.5	870.4
180°	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	505.8	505.8	505.8	505.8	505.8	505.8	505.8
2.5°	530.5	531.2	531.7	533.3	533.5	534.9	533.5
5°	574.5	577.3	581.8	586.3	586.7	589.5	584.4
7.5°	623.6	630.3	634.4	641.6	644.5	646.3	643.3
10°	657.5	663.7	674.5	679.8	685.1	685.9	683.5
12.5°	690.3	700.0	708.5	718.6	718.3	725.5	722.9
15°	734.0	744.0	755.8	767.0	771.0	771.0	774.3
17.5°	765.1	783.4	795.7	804.4	814.1	815.7	814.6
20°	786.2	805.9	819.0	830.3	836.9	838.7	838.7
22.5°	801.8	818.6	831.4	841.6	847.0	849.1	848.5
25°	812.6	827.1	834.8	837.9	839.3	839.0	835.1
27.5°	797.8	797.1	792.3	782.9	775.8	771.5	766.6
30°	769.5	758.8	746.6	733.1	715.8	702.6	698.5
32.5°	727.2	703.4	682.7	660.3	641.7	628.4	622.8
35°	645.6	607.9	577.0	550.2	530.6	518.4	514.3
37.5°	548.6	512.1	474.1	448.0	431.7	419.4	414.8
40°	487.0	447.3	414.1	389.6	372.9	360.8	360.7
42.5°	430.8	392.8	361.5	344.0	326.0	318.0	318.0
45°	352.8	322.4	295.8	282.0	271.2	264.7	262.9
47.5°	292.1	266.9	249.3	238.2	229.5	225.3	222.6
50°	258.0	236.0	221.9	212.3	207.4	202.2	201.7
52.5°	229.6	211.8	200.9	193.1	186.9	183.7	183.8
55°	193.0	178.9	171.2	165.2	160.4	157.9	156.9
57.5°	162.6	152.1	146.4	140.9	138.9	137.0	136.5
60°	143.7	136.6	131.2	126.9	123.9	123.3	123.0
62.5°	128.0	120.5	116.9	113.6	111.3	110.4	110.0
65°	105.6	100.0	96.8	94.1	93.3	91.9	91.7
67.5°	85.1	81.8	79.6	77.8	76.7	76.6	76.6
70°	72.6	70.7	68.9	67.8	67.2	66.8	66.8
72.5°	61.8	60.4	58.9	58.4	58.3	57.9	57.7
75°	47.1	45.6	45.9	44.9	44.0	43.0	42.4
77.5°	33.4	32.4	32.1	32.0	31.3	31.3	31.5
80°	25.9	24.9	24.6	24.9	24.6	24.0	24.0
82.5°	19.7	18.9	18.6	18.5	18.3	18.5	18.2
85°	10.6	10.2	10.2	10.2	10.6	10.4	10.2
87.5°	7.2	7.2	7.6	7.4	7.5	7.4	7.7
90°	17.5	18.4	19.0	19.3	19.6	19.9	20.2
92.5°	28.2	28.8	29.2	29.4	29.5	29.7	29.9
95°	52.5	53.0	53.2	53.2	53.2	53.2	53.2
97.5°	82.5	83.1	83.3	83.3	83.3	83.3	83.3
100°	103.9	104.2	104.4	104.4	104.4	104.4	104.4
102.5°	126.8	127.3	127.5	127.7	127.8	127.9	128.0
105°	161.5	162.0	162.5	162.9	163.3	163.8	164.3
107.5°	199.0	199.4	199.7	199.6	199.6	199.6	199.5
110°	223.3	222.9	223.0	223.5	223.9	224.4	224.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	250.4	250.3	250.3	250.4	250.5	250.6	250.6
115°	291.7	291.5	291.4	291.3	291.1	290.9	290.8
117.5°	331.1	330.6	330.2	329.9	329.6	329.3	329.0
120°	357.8	357.1	356.9	357.2	357.5	357.8	358.1
122.5°	385.6	385.0	384.5	383.9	383.4	382.9	382.4
125°	425.9	425.6	425.2	425.0	424.6	424.4	424.0
127.5°	464.3	463.9	463.6	463.4	463.2	463.0	462.7
130°	491.1	490.9	490.4	489.8	489.2	488.6	488.0
132.5°	516.4	516.2	515.9	515.7	515.4	515.1	515.0
135°	554.4	554.1	553.7	553.3	552.8	552.4	552.0
137.5°	591.1	590.6	590.5	590.6	590.6	590.7	590.9
140°	615.4	615.3	615.2	615.0	614.8	614.7	614.6
142.5°	638.4	638.4	638.3	638.3	638.3	638.3	638.3
145°	672.7	672.5	672.2	671.8	671.3	670.9	670.5
147.5°	703.9	703.7	703.6	703.4	703.3	703.2	703.0
150°	723.6	723.6	723.5	723.4	723.2	723.1	722.9
152.5°	742.4	742.8	742.8	742.4	742.0	741.7	741.2
155°	768.4	769.0	769.0	768.4	767.8	767.2	766.7
157.5°	791.1	791.5	791.4	791.0	790.5	790.0	789.5
160°	805.0	805.5	805.4	804.6	803.8	803.1	802.4
162.5°	817.9	818.8	818.8	818.0	817.3	816.6	815.8
165°	834.7	835.6	835.7	835.1	834.5	833.9	833.4
167.5°	848.7	849.5	849.5	848.6	847.7	846.8	845.8
170°	856.2	857.1	857.0	856.0	855.0	853.9	852.8
172.5°	861.9	863.0	863.0	861.9	860.8	859.8	858.8
175°	868.1	869.2	869.2	868.1	867.0	866.0	865.0
177.5°	871.2	872.1	872.0	871.1	870.1	869.2	868.1
180°	870.3	870.3	870.3	870.3	870.3	870.3	870.3

(END OF REPORT)