

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: P332509-927

Luminaire Tested: **SA4XXDIP-C350D810U927-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P332509-927  
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: SA4XXDIP-C350D810U927-4F0-1E-UDD-A1  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 350 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 810 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3472.8 lumens  
Efficiency: N/A  
Efficacy: 111.3 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41  
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')  
CIE Type: Semi-Indirect

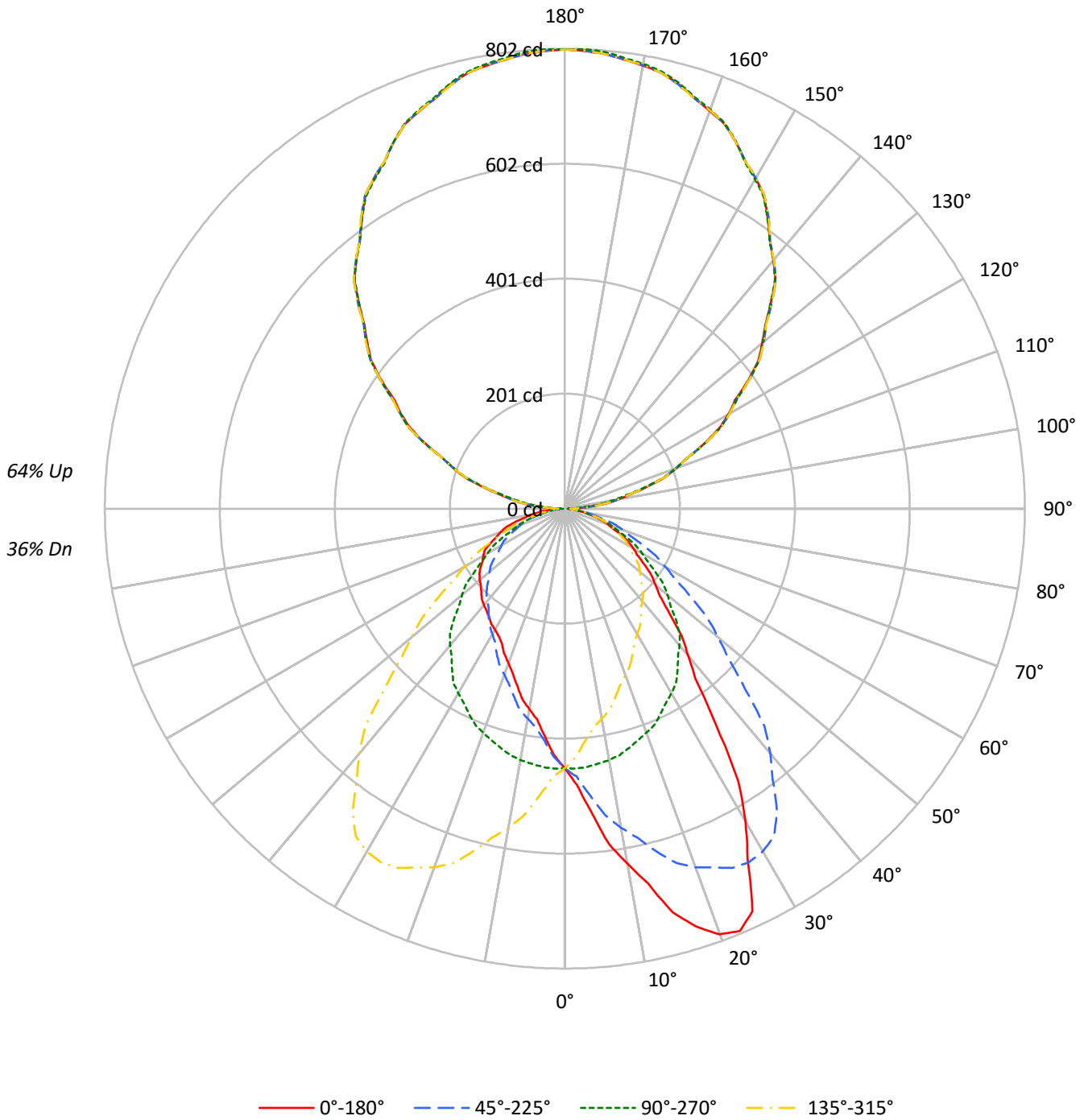
Input Watts (W): 31.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P332509-927

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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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	43	43	43	36				
1	95	91	87	83	86	82	79	76	66	64	62	52	50	49	38	38	37	31				
2	86	79	73	68	78	72	67	63	58	55	52	46	43	41	34	33	31	26				
3	79	70	63	57	71	63	57	53	52	47	44	41	38	35	30	28	27	22				
4	72	62	54	48	65	56	50	45	46	41	37	36	33	30	27	25	23	19				
5	66	55	47	41	60	50	43	38	41	36	32	32	29	26	25	22	20	17				
6	61	49	41	36	55	45	38	33	37	32	28	29	26	23	22	20	18	15				
7	56	44	37	31	51	41	34	29	33	28	25	27	23	20	20	18	16	13				
8	52	40	33	28	47	37	30	26	30	25	22	24	21	18	19	16	14	12				
9	49	37	29	25	44	34	27	23	28	23	19	22	19	16	17	15	13	11				
10	45	34	27	22	41	31	25	20	26	21	17	21	17	15	16	13	12	10				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	3654	3654	3654	3654
5°	4302	3663	3233	3663
10°	5151	3647	2911	3647
15°	6095	3611	2674	3611
20°	6787	3572	2461	3572
25°	6897	3517	2314	3517
30°	5868	3464	2269	3464
35°	4512	3377	2269	3377
40°	3517	3276	2312	3276
45°	2932	3123	2351	3123
50°	2581	2936	2430	2936
55°	2365	2712	2528	2712
60°	2215	2512	2645	2512
65°	2063	2288	2743	2288
70°	1886	2065	2804	2065
75°	1684	1818	2773	1818
80°	1409	1492	2687	1492
85°	1037	1074	2566	1074



TEST NUMBER: P332509-927

CATALOG NUMBER: SA4XXDIP-C350D810U927-4F0-1E-UDD-A1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.1	1.3
10°-20°	135.9	3.9
20°-30°	215.5	6.2
30°-40°	239.8	6.9
40°-50°	218.3	6.3
50°-60°	178.4	5.1
60°-70°	127.4	3.7
70°-80°	70.1	2.0
80°-90°	21.5	0.6
90°-100°	52.8	1.5
100°-110°	156.5	4.5
110°-120°	265.6	7.6
120°-130°	350.2	10.1
130°-140°	393.3	11.3
140°-150°	386.4	11.1
150°-160°	325.0	9.4
160°-170°	216.2	6.2
170°-180°	75.7	2.2
0°-30°	395.5	11.4
0°-40°	635.3	18.3
0°-60°	1032.1	29.7
0°-90°	1251.1	36.0
90°-120°	474.9	13.7
90°-150°	1604.7	46.2
90°-180°	2222.0	64.0
0°-180°	3472.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	453	453	453	453	453	
5°	531	452	399	452	531	54
15°	729	432	320	432	729	206
25°	774	395	260	395	774	341
35°	458	343	230	343	458	291
45°	257	274	206	274	257	202
55°	168	193	180	193	168	152
65°	108	120	144	120	108	107
75°	54	58	89	58	54	57
85°	11	12	28	12	11	14
90°	19	2	19	2	19	10
95°	49	37	49	37	49	51
105°	151	144	151	144	151	159
115°	268	270	268	270	268	264
125°	390	393	390	393	390	348
135°	508	507	508	507	508	392
145°	617	616	617	616	617	386
155°	705	706	705	706	705	325
165°	767	769	767	769	767	216
175°	796	800	796	800	796	76
180°	801	801	801	801	801	



TEST NUMBER: P332509-927

CATALOG NUMBER: SA4XXDIP-C350D810U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6
2.5°	481.6	481.6	480.1	479.7	478.7	477.4	477.1	474.6	469.8	467.5	467.0
5°	530.9	534.7	529.8	528.9	528.3	522.1	519.0	515.2	506.6	501.5	497.6
7.5°	589.8	590.2	588.0	586.4	581.5	576.2	568.1	559.4	549.1	538.5	530.4
10°	628.4	629.9	627.5	627.2	617.6	611.6	599.6	589.5	577.8	564.9	553.1
12.5°	669.2	667.2	665.9	657.9	656.1	645.2	631.2	620.8	602.9	588.0	572.3
15°	729.3	725.2	722.5	711.5	706.1	690.9	676.0	664.6	641.2	618.9	602.0
17.5°	764.5	768.7	762.6	758.0	744.0	733.3	718.2	694.2	675.9	648.2	626.9
20°	790.0	790.4	787.0	782.4	771.3	757.8	741.3	715.1	693.2	665.6	636.3
22.5°	796.9	797.0	795.6	791.2	782.8	771.9	755.3	733.3	706.8	676.8	647.5
25°	774.3	773.6	775.2	780.1	777.0	773.6	764.0	747.7	722.9	691.3	659.7
27.5°	690.1	695.4	704.9	716.8	728.4	737.2	739.7	736.3	721.0	695.0	661.9
30°	629.5	636.0	643.1	655.1	678.3	691.7	706.2	717.3	711.1	690.3	659.6
32.5°	563.0	564.6	575.1	588.7	610.1	635.6	658.9	681.4	688.8	677.9	652.2
35°	457.8	460.5	471.9	485.4	511.4	542.8	577.7	608.8	634.5	644.8	631.6
37.5°	373.6	381.1	389.2	403.7	426.7	454.9	491.1	531.4	569.7	595.3	599.7
40°	333.7	338.4	344.2	355.3	374.8	402.5	433.6	479.7	520.5	557.2	569.2
42.5°	302.2	305.0	308.6	318.5	333.4	361.0	389.4	430.0	470.8	514.8	534.9
45°	256.8	259.7	265.7	271.5	282.7	301.8	328.3	361.6	402.7	445.0	482.2
47.5°	224.1	225.9	229.4	235.7	245.3	257.9	279.3	307.2	345.2	386.4	426.0
50°	205.5	207.0	209.8	215.4	222.8	234.0	251.6	277.7	307.4	348.9	387.7
52.5°	190.8	191.4	193.5	197.3	203.1	212.5	227.0	248.6	276.3	313.2	351.9
55°	168.0	168.7	170.6	173.4	178.5	184.5	195.5	211.7	235.8	267.9	301.5
57.5°	149.2	149.8	151.3	152.4	156.6	161.4	170.0	181.5	199.8	227.0	257.0
60°	137.2	136.9	138.7	139.7	142.5	146.6	153.2	164.2	180.1	202.1	229.7
62.5°	125.6	125.0	126.6	127.9	129.4	132.9	138.3	146.9	159.9	179.7	203.6
65°	108.0	107.3	108.2	109.7	111.1	113.0	117.0	124.7	135.0	149.2	167.4
67.5°	90.4	91.2	91.3	92.1	92.9	95.5	98.2	103.6	110.9	122.3	137.7
70°	79.9	80.1	80.8	80.8	81.4	83.7	85.9	89.0	96.2	106.7	119.2
72.5°	69.4	70.2	69.9	70.4	70.9	72.4	74.0	77.1	83.1	90.9	101.6
75°	54.0	54.6	54.6	54.7	55.3	55.8	57.2	59.4	63.8	69.6	76.8
77.5°	39.4	39.5	39.7	40.4	40.4	41.3	42.2	44.0	46.2	50.1	54.7
80°	30.3	30.7	30.6	31.0	31.0	31.7	32.1	34.3	35.3	37.9	41.4
82.5°	22.3	22.7	22.6	23.1	23.4	23.6	24.1	25.0	26.0	28.3	29.7
85°	11.2	11.6	11.2	11.6	12.2	12.4	12.9	13.2	13.9	14.4	15.8
87.5°	7.1	7.4	7.4	7.4	7.7	7.8	7.7	7.4	7.8	7.8	8.2
90°	18.6	18.3	18.1	17.7	17.5	17.0	16.1	15.3	14.4	13.6	12.5
92.5°	27.5	27.3	27.2	27.0	26.9	26.5	26.0	25.5	25.0	24.6	23.8
95°	49.0	49.0	49.0	49.0	49.0	48.7	48.3	47.9	47.5	47.1	46.1
97.5°	76.7	76.7	76.7	76.7	76.7	76.4	75.9	75.4	74.9	74.5	73.3
100°	96.0	96.0	96.0	96.0	96.0	95.9	95.6	95.3	95.1	94.7	93.5
102.5°	117.8	117.7	117.6	117.5	117.3	117.1	116.7	116.4	116.0	115.6	114.5
105°	151.1	150.7	150.3	149.9	149.5	149.0	148.6	148.2	147.8	147.4	146.9
107.5°	183.5	183.6	183.6	183.6	183.7	183.5	183.1	182.8	182.4	182.0	181.9
110°	206.8	206.4	206.0	205.7	205.2	205.1	205.4	205.7	206.0	206.2	206.4



TEST NUMBER: P332509-927

CATALOG NUMBER: SA4XXDIP-C350D810U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	230.6	230.5	230.4	230.4	230.3	230.3	230.4	230.4	230.4	230.5	230.8
115°	267.5	267.7	267.8	268.0	268.1	268.2	268.4	268.5	268.6	268.8	269.0
117.5°	302.7	303.0	303.2	303.6	303.8	304.2	304.7	305.1	305.6	306.1	306.3
120°	329.5	329.2	328.9	328.7	328.4	328.6	329.2	329.9	330.7	331.4	331.8
122.5°	351.8	352.3	352.8	353.2	353.8	354.3	354.7	355.1	355.6	356.1	356.3
125°	390.1	390.5	390.7	391.0	391.3	391.6	391.8	392.1	392.4	392.7	392.8
127.5°	425.7	426.0	426.2	426.4	426.6	426.8	427.1	427.4	427.7	427.9	428.2
130°	449.0	449.6	450.1	450.7	451.2	451.6	451.9	452.2	452.4	452.7	452.7
132.5°	473.8	474.0	474.2	474.4	474.7	474.9	475.2	475.5	475.7	476.0	476.1
135°	507.9	508.3	508.7	509.1	509.5	509.8	510.1	510.4	510.6	511.0	511.0
137.5°	543.7	543.5	543.4	543.4	543.3	543.4	543.8	544.2	544.5	544.9	544.6
140°	565.5	565.5	565.7	565.9	566.0	566.1	566.3	566.4	566.6	566.6	566.6
142.5°	587.2	587.2	587.3	587.3	587.3	587.4	587.4	587.4	587.5	587.5	587.6
145°	616.9	617.3	617.7	618.1	618.5	618.8	618.9	619.0	619.2	619.3	619.2
147.5°	646.8	647.0	647.1	647.2	647.4	647.5	647.6	647.7	647.8	647.9	648.0
150°	665.1	665.3	665.4	665.6	665.7	665.7	665.7	665.7	665.7	665.7	665.7
152.5°	682.0	682.4	682.7	683.1	683.4	683.4	683.1	682.8	682.5	682.1	682.0
155°	705.4	705.9	706.5	707.0	707.6	707.6	707.0	706.5	705.9	705.4	705.5
157.5°	726.4	726.8	727.3	727.8	728.2	728.3	727.9	727.4	727.0	726.6	726.6
160°	738.2	738.9	739.6	740.3	741.0	741.1	740.7	740.3	739.9	739.5	739.6
162.5°	750.6	751.3	752.0	752.7	753.4	753.4	752.6	751.9	751.1	750.4	750.5
165°	766.8	767.2	767.8	768.3	768.9	768.8	767.9	767.1	766.3	765.5	765.7
167.5°	778.2	779.1	779.9	780.8	781.6	781.6	780.9	780.0	779.2	778.3	778.3
170°	784.7	785.6	786.6	787.6	788.5	788.6	787.7	787.0	786.1	785.3	785.1
172.5°	790.1	791.1	792.0	793.1	794.0	794.0	793.1	792.1	791.2	790.3	790.2
175°	795.8	796.8	797.7	798.7	799.7	799.7	798.7	797.7	796.8	795.8	796.0
177.5°	798.8	799.7	800.6	801.5	802.3	802.4	801.6	800.8	800.0	799.3	799.3
180°	800.7	800.7	800.7	800.7	800.7	800.7	800.7	800.7	800.7	800.7	800.7



TEST NUMBER: P332509-927

CATALOG NUMBER: SA4XXDIP-C350D810U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6
2.5°	467.1	465.0	463.5	462.3	459.1	457.1	455.6	453.5	451.1	448.5	445.4
5°	493.6	487.3	482.6	475.5	468.7	463.1	457.2	452.0	445.7	438.7	433.6
7.5°	521.5	512.0	499.9	489.3	477.4	467.1	458.0	448.5	438.7	429.1	420.4
10°	539.2	527.0	513.5	497.6	482.6	469.3	456.9	444.9	433.2	421.7	411.7
12.5°	558.3	543.0	523.1	504.5	487.7	469.8	455.0	440.2	426.2	414.0	402.4
15°	583.8	561.9	538.8	513.9	491.8	471.0	450.5	432.0	416.2	400.1	388.8
17.5°	599.5	572.4	546.1	520.0	493.2	466.9	444.9	423.5	403.8	387.8	373.6
20°	609.9	582.9	550.1	524.0	492.2	465.2	439.7	415.8	395.2	378.2	363.5
22.5°	618.9	587.7	554.8	520.5	488.9	460.2	432.3	408.4	387.3	369.3	355.3
25°	623.8	588.0	552.3	518.2	482.2	448.3	422.9	394.8	372.3	353.4	338.4
27.5°	624.3	586.0	545.7	507.8	470.6	439.0	407.1	381.9	358.6	338.6	324.2
30°	622.7	582.7	539.4	498.4	461.1	426.7	398.9	371.6	347.8	327.9	312.9
32.5°	617.3	575.8	531.3	487.8	449.2	415.6	387.0	360.9	337.7	318.1	302.4
35°	602.2	561.1	513.7	468.5	429.0	395.1	369.2	342.7	319.5	301.0	285.7
37.5°	578.5	541.4	493.1	446.4	407.5	373.4	347.8	323.9	302.9	284.1	268.5
40°	557.8	525.1	476.7	431.2	389.2	356.8	332.8	310.9	290.0	272.2	257.4
42.5°	533.9	505.5	460.9	412.6	372.1	339.5	316.2	296.4	276.9	260.4	245.6
45°	491.4	472.6	430.6	386.0	343.8	313.1	290.8	273.5	257.1	240.9	228.5
47.5°	442.5	433.2	397.8	355.5	315.4	285.1	265.8	249.9	235.4	221.7	210.8
50°	409.6	405.1	374.6	333.7	295.5	267.0	247.5	233.8	221.4	209.5	199.1
52.5°	377.2	377.1	349.5	312.1	276.7	249.3	229.9	217.1	206.4	196.7	187.4
55°	327.7	333.0	311.4	278.1	246.4	221.6	204.1	192.7	185.2	177.2	170.2
57.5°	282.3	291.0	273.1	243.8	217.3	194.6	179.4	170.8	162.8	157.9	152.8
60°	252.5	260.8	246.9	222.2	197.3	177.8	163.3	155.6	148.7	145.3	141.7
62.5°	226.2	233.5	223.2	200.3	178.6	159.9	147.7	140.3	135.6	132.0	129.6
65°	188.5	194.6	185.8	169.1	150.5	135.5	125.6	119.8	115.3	113.8	111.1
67.5°	152.3	158.0	153.2	139.0	124.1	112.7	105.0	99.4	96.7	95.5	93.6
70°	130.9	136.5	131.4	119.1	107.6	98.1	90.7	87.5	84.8	84.2	81.6
72.5°	112.7	116.5	111.5	101.8	92.1	84.0	78.3	74.9	73.5	72.5	71.1
75°	84.5	87.9	84.5	77.1	70.1	64.5	59.7	58.3	56.6	56.1	55.1
77.5°	59.8	62.7	60.2	55.5	50.3	45.9	43.3	41.7	41.3	40.3	40.8
80°	45.7	47.6	45.2	42.0	37.9	34.9	33.0	32.1	31.0	30.6	31.3
82.5°	32.9	33.7	32.4	30.3	27.3	25.3	24.0	22.9	22.7	22.7	22.7
85°	17.0	16.9	16.7	14.8	13.9	12.6	11.8	11.6	11.4	11.8	12.2
87.5°	8.0	7.9	7.5	6.7	5.9	5.1	4.8	4.3	4.8	5.1	5.6
90°	11.4	10.3	9.2	7.9	6.4	4.9	3.4	1.8	3.4	4.9	6.4
92.5°	23.0	22.2	21.5	20.2	18.5	16.7	15.0	13.2	15.0	16.7	18.5
95°	45.2	44.2	43.3	42.1	40.9	39.6	38.4	37.2	38.4	39.6	40.9
97.5°	72.2	71.1	69.9	68.8	67.9	66.9	65.9	64.9	65.9	66.9	67.9
100°	92.3	91.0	89.8	88.9	88.3	87.8	87.2	86.7	87.2	87.8	88.3
102.5°	113.3	112.2	111.1	110.4	110.2	110.0	109.7	109.5	109.7	110.0	110.2
105°	146.3	145.8	145.2	144.9	144.7	144.6	144.4	144.3	144.4	144.6	144.7
107.5°	181.8	181.7	181.6	181.5	181.3	181.2	181.0	180.9	181.0	181.2	181.3
110°	206.5	206.7	206.8	206.7	206.4	206.1	205.9	205.7	205.9	206.1	206.4





TEST NUMBER: P332509-927

CATALOG NUMBER: SA4XXDIP-C350D810U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	231.0	231.2	231.5	231.6	231.6	231.5	231.4	231.4	231.4	231.5	231.6
115°	269.3	269.6	269.9	270.1	270.1	270.1	270.1	270.1	270.1	270.1	270.1
117.5°	306.4	306.7	306.8	306.9	306.7	306.7	306.6	306.4	306.6	306.7	306.7
120°	332.2	332.6	333.0	333.0	332.4	331.8	331.3	330.7	331.3	331.8	332.4
122.5°	356.5	356.7	356.9	356.9	356.6	356.4	356.2	356.0	356.2	356.4	356.6
125°	392.9	393.1	393.2	393.2	393.2	393.2	393.2	393.2	393.2	393.2	393.2
127.5°	428.4	428.6	428.8	428.7	428.3	427.9	427.5	427.1	427.5	427.9	428.3
130°	452.7	452.7	452.7	452.5	452.1	451.7	451.3	450.8	451.3	451.7	452.1
132.5°	476.3	476.3	476.4	476.3	476.0	475.8	475.5	475.2	475.5	475.8	476.0
135°	511.0	511.0	511.0	510.6	509.7	508.9	508.0	507.2	508.0	508.9	509.7
137.5°	544.5	544.2	544.0	543.7	543.3	542.9	542.6	542.2	542.6	542.9	543.3
140°	566.6	566.6	566.6	566.6	566.3	566.0	565.7	565.5	565.7	566.0	566.3
142.5°	587.7	587.8	588.0	587.9	587.6	587.3	587.0	586.8	587.0	587.3	587.6
145°	619.0	618.9	618.8	618.5	617.9	617.3	616.8	616.2	616.8	617.3	617.9
147.5°	648.2	648.2	648.4	648.1	647.5	646.7	646.1	645.5	646.1	646.7	647.5
150°	665.7	665.7	665.7	665.5	665.0	664.4	663.8	663.3	663.8	664.4	665.0
152.5°	681.9	681.8	681.7	681.4	681.1	680.8	680.5	680.2	680.5	680.8	681.1
155°	705.7	705.8	705.9	706.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0
157.5°	726.7	726.7	726.7	726.8	727.1	727.3	727.5	727.9	727.5	727.3	727.1
160°	739.7	739.9	740.0	740.1	740.3	740.5	740.5	740.7	740.5	740.5	740.3
162.5°	750.7	750.8	750.9	751.1	751.5	751.9	752.3	752.6	752.3	751.9	751.5
165°	766.0	766.3	766.6	766.9	767.3	767.8	768.2	768.6	768.2	767.8	767.3
167.5°	778.3	778.2	778.2	778.6	779.1	779.7	780.2	780.9	780.2	779.7	779.1
170°	785.1	784.9	784.7	785.1	785.7	786.4	787.1	787.7	787.1	786.4	785.7
172.5°	790.2	790.2	790.1	790.4	791.0	791.5	792.2	792.7	792.2	791.5	791.0
175°	796.1	796.2	796.4	796.8	797.5	798.1	798.8	799.5	798.8	798.1	797.5
177.5°	799.3	799.3	799.3	799.5	800.1	800.7	801.2	801.8	801.2	800.7	800.1
180°	800.7	800.7	800.7	800.7	800.7	800.7	800.7	800.7	800.7	800.7	800.7



TEST NUMBER: P332509-927

CATALOG NUMBER: SA4XXDIP-C350D810U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6
2.5°	443.9	442.5	440.6	437.9	435.6	433.2	432.6	431.7	433.6	432.1	431.6
5°	429.4	425.4	420.3	414.5	411.1	406.3	405.4	403.5	401.6	401.4	399.5
7.5°	413.9	408.1	401.5	395.6	390.1	384.8	381.3	380.6	377.8	376.1	374.3
10°	404.0	396.9	389.2	383.6	377.2	371.6	367.7	365.4	363.5	361.5	359.6
12.5°	392.4	384.8	378.4	372.3	364.8	360.5	354.0	350.1	349.7	349.7	344.9
15°	378.7	371.2	361.5	352.8	348.7	340.5	336.9	332.4	329.6	326.8	324.6
17.5°	363.1	353.8	346.2	336.3	328.4	321.9	317.2	314.5	310.2	306.3	303.4
20°	353.4	343.5	335.4	324.9	316.3	308.2	304.3	300.6	297.4	294.0	290.8
22.5°	343.5	333.1	323.3	313.1	305.1	296.5	292.7	287.6	284.6	282.7	279.6
25°	327.9	316.6	305.4	295.6	287.4	279.9	274.9	270.9	267.5	266.0	264.0
27.5°	310.9	299.8	288.9	277.8	268.5	263.0	259.0	256.0	254.1	252.1	251.1
30°	300.2	288.5	276.9	266.6	258.0	252.5	248.8	246.8	245.3	244.3	243.4
32.5°	289.2	277.7	265.5	256.1	248.3	243.5	240.7	238.6	237.9	237.6	237.2
35°	271.6	260.1	248.8	240.3	233.1	231.2	228.7	227.6	227.2	228.5	229.1
37.5°	254.7	243.9	233.5	225.4	220.5	217.9	217.0	217.1	218.4	219.5	220.9
40°	243.8	233.2	223.5	216.3	211.8	210.2	209.8	210.7	212.2	213.6	215.1
42.5°	233.1	222.8	213.9	207.2	204.1	202.5	202.7	203.7	205.8	207.4	209.6
45°	216.6	207.9	199.3	193.8	191.2	191.6	191.6	193.3	195.4	197.8	200.3
47.5°	201.0	192.3	185.2	180.6	179.3	179.0	180.0	182.2	185.1	188.1	191.5
50°	190.5	182.2	176.0	171.9	170.4	171.0	172.5	174.5	178.1	181.9	185.4
52.5°	179.8	172.3	166.6	162.8	161.7	162.7	164.2	167.5	170.6	174.7	179.0
55°	163.3	156.9	152.4	149.6	149.2	149.8	151.5	155.0	159.5	164.6	168.7
57.5°	146.9	141.5	137.4	135.5	135.6	136.2	138.9	143.1	148.0	153.4	158.7
60°	135.7	130.9	127.5	126.0	126.2	127.3	130.7	134.6	140.6	145.8	151.5
62.5°	125.2	121.0	117.7	116.4	116.1	118.6	121.8	125.9	131.9	137.8	143.9
65°	108.4	105.0	102.3	101.6	102.2	104.1	108.2	113.6	118.7	124.8	131.3
67.5°	91.9	89.1	87.3	87.6	88.3	91.1	94.5	99.2	105.0	111.4	117.6
70°	81.4	78.7	77.2	77.4	78.6	81.9	84.9	89.6	95.8	102.3	107.6
72.5°	70.6	68.8	67.5	68.3	69.4	71.7	75.5	80.2	85.6	91.7	97.3
75°	54.2	54.2	53.5	54.0	55.7	57.9	60.8	65.6	71.1	76.0	80.4
77.5°	40.2	39.8	40.2	41.0	41.9	44.6	47.8	51.3	55.4	60.3	64.0
80°	30.7	31.0	31.8	33.0	33.4	35.4	38.8	42.0	45.2	49.3	52.8
82.5°	23.1	23.3	23.8	25.2	25.6	27.8	29.9	33.1	36.0	38.8	41.7
85°	12.6	12.6	13.5	14.1	15.0	16.5	17.8	19.7	22.3	24.2	27.0
87.5°	6.4	6.7	7.4	8.0	8.6	9.6	10.1	11.9	12.7	13.5	15.1
90°	7.9	9.2	10.3	11.4	12.5	13.6	14.4	15.3	16.1	17.0	17.5
92.5°	20.2	21.5	22.2	23.0	23.8	24.6	25.0	25.5	26.0	26.5	26.9
95°	42.1	43.3	44.2	45.2	46.1	47.1	47.5	47.9	48.3	48.7	49.0
97.5°	68.8	69.9	71.1	72.2	73.3	74.5	74.9	75.4	75.9	76.4	76.7
100°	88.9	89.8	91.0	92.3	93.5	94.7	95.1	95.3	95.6	95.9	96.0
102.5°	110.4	111.1	112.2	113.3	114.5	115.6	116.0	116.4	116.7	117.1	117.3
105°	144.9	145.2	145.8	146.3	146.9	147.4	147.8	148.2	148.6	149.0	149.5
107.5°	181.5	181.6	181.7	181.8	181.9	182.0	182.4	182.8	183.1	183.5	183.7
110°	206.7	206.8	206.7	206.5	206.4	206.2	206.0	205.7	205.4	205.1	205.2



TEST NUMBER: P332509-927

CATALOG NUMBER: SA4XXDIP-C350D810U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	231.6	231.5	231.2	231.0	230.8	230.5	230.4	230.4	230.4	230.3	230.3
115°	270.1	269.9	269.6	269.3	269.0	268.8	268.6	268.5	268.4	268.2	268.1
117.5°	306.9	306.8	306.7	306.4	306.3	306.1	305.6	305.1	304.7	304.2	303.8
120°	333.0	333.0	332.6	332.2	331.8	331.4	330.7	329.9	329.2	328.6	328.4
122.5°	356.9	356.9	356.7	356.5	356.3	356.1	355.6	355.1	354.7	354.3	353.8
125°	393.2	393.2	393.1	392.9	392.8	392.7	392.4	392.1	391.8	391.6	391.3
127.5°	428.7	428.8	428.6	428.4	428.2	427.9	427.7	427.4	427.1	426.8	426.6
130°	452.5	452.7	452.7	452.7	452.7	452.7	452.4	452.2	451.9	451.6	451.2
132.5°	476.3	476.4	476.3	476.3	476.1	476.0	475.7	475.5	475.2	474.9	474.7
135°	510.6	511.0	511.0	511.0	511.0	511.0	510.6	510.4	510.1	509.8	509.5
137.5°	543.7	544.0	544.2	544.5	544.6	544.9	544.5	544.2	543.8	543.4	543.3
140°	566.6	566.6	566.6	566.6	566.6	566.6	566.6	566.4	566.3	566.1	566.0
142.5°	587.9	588.0	587.8	587.7	587.6	587.5	587.5	587.4	587.4	587.4	587.3
145°	618.5	618.8	618.9	619.0	619.2	619.3	619.2	619.0	618.9	618.8	618.5
147.5°	648.1	648.4	648.2	648.2	648.0	647.9	647.8	647.7	647.6	647.5	647.4
150°	665.5	665.7	665.7	665.7	665.7	665.7	665.7	665.7	665.7	665.7	665.7
152.5°	681.4	681.7	681.8	681.9	682.0	682.1	682.5	682.8	683.1	683.4	683.4
155°	706.0	705.9	705.8	705.7	705.5	705.4	705.9	706.5	707.0	707.6	707.6
157.5°	726.8	726.7	726.7	726.7	726.6	726.6	727.0	727.4	727.9	728.3	728.2
160°	740.1	740.0	739.9	739.7	739.6	739.5	739.9	740.3	740.7	741.1	741.0
162.5°	751.1	750.9	750.8	750.7	750.5	750.4	751.1	751.9	752.6	753.4	753.4
165°	766.9	766.6	766.3	766.0	765.7	765.5	766.3	767.1	767.9	768.8	768.9
167.5°	778.6	778.2	778.2	778.3	778.3	778.3	779.2	780.0	780.9	781.6	781.6
170°	785.1	784.7	784.9	785.1	785.1	785.3	786.1	787.0	787.7	788.6	788.5
172.5°	790.4	790.1	790.2	790.2	790.2	790.3	791.2	792.1	793.1	794.0	794.0
175°	796.8	796.4	796.2	796.1	796.0	795.8	796.8	797.7	798.7	799.7	799.7
177.5°	799.5	799.3	799.3	799.3	799.3	799.3	800.0	800.8	801.6	802.4	802.3
180°	800.7	800.7	800.7	800.7	800.7	800.7	800.7	800.7	800.7	800.7	800.7



TEST NUMBER: P332509-927

CATALOG NUMBER: SA4XXDIP-C350D810U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6
2.5°	431.3	431.0	429.9	429.8	429.9	431.0	431.3	431.6	432.1	433.6	431.7
5°	398.4	397.4	396.9	398.9	396.9	397.4	398.4	399.5	401.4	401.6	403.5
7.5°	373.6	372.9	371.2	370.7	371.2	372.9	373.6	374.3	376.1	377.8	380.6
10°	357.7	357.0	355.5	355.1	355.5	357.0	357.7	359.6	361.5	363.5	365.4
12.5°	342.4	341.0	340.6	341.0	340.6	341.0	342.4	344.9	349.7	349.7	350.1
15°	322.1	321.3	319.2	319.9	319.2	321.3	322.1	324.6	326.8	329.6	332.4
17.5°	302.1	301.2	298.7	300.9	298.7	301.2	302.1	303.4	306.3	310.2	314.5
20°	289.5	288.0	286.7	286.5	286.7	288.0	289.5	290.8	294.0	297.4	300.6
22.5°	277.5	276.2	276.0	274.8	276.0	276.2	277.5	279.6	282.7	284.6	287.6
25°	262.4	261.2	260.8	259.8	260.8	261.2	262.4	264.0	266.0	267.5	270.9
27.5°	251.0	250.3	249.6	249.9	249.6	250.3	251.0	251.1	252.1	254.1	256.0
30°	243.9	243.8	243.4	243.4	243.4	243.8	243.9	243.4	244.3	245.3	246.8
32.5°	238.1	238.1	238.3	238.3	238.3	238.1	238.1	237.2	237.6	237.9	238.6
35°	229.9	230.4	230.8	230.2	230.8	230.4	229.9	229.1	228.5	227.2	227.6
37.5°	222.4	223.0	223.6	224.2	223.6	223.0	222.4	220.9	219.5	218.4	217.1
40°	216.7	218.0	218.4	219.4	218.4	218.0	216.7	215.1	213.6	212.2	210.7
42.5°	211.4	212.8	213.7	214.0	213.7	212.8	211.4	209.6	207.4	205.8	203.7
45°	203.0	204.5	205.9	205.9	205.9	204.5	203.0	200.3	197.8	195.4	193.3
47.5°	194.5	196.6	198.0	198.3	198.0	196.6	194.5	191.5	188.1	185.1	182.2
50°	188.6	191.2	192.6	193.5	192.6	191.2	188.6	185.4	181.9	178.1	174.5
52.5°	182.9	185.5	187.3	187.7	187.3	185.5	182.9	179.0	174.7	170.6	167.5
55°	173.0	176.8	178.9	179.6	178.9	176.8	173.0	168.7	164.6	159.5	155.0
57.5°	163.7	167.2	169.6	170.2	169.6	167.2	163.7	158.7	153.4	148.0	143.1
60°	156.5	160.3	163.3	163.8	163.3	160.3	156.5	151.5	145.8	140.6	134.6
62.5°	149.2	153.1	155.8	157.2	155.8	153.1	149.2	143.9	137.8	131.9	125.9
65°	136.5	140.5	143.1	143.6	143.1	140.5	136.5	131.3	124.8	118.7	113.6
67.5°	122.6	126.6	128.3	129.4	128.3	126.6	122.6	117.6	111.4	105.0	99.2
70°	112.9	116.1	118.0	118.8	118.0	116.1	112.9	107.6	102.3	95.8	89.6
72.5°	101.8	105.1	107.3	107.5	107.3	105.1	101.8	97.3	91.7	85.6	80.2
75°	84.8	87.8	88.9	88.9	88.9	87.8	84.8	80.4	76.0	71.1	65.6
77.5°	67.1	68.6	70.0	70.3	70.0	68.6	67.1	64.0	60.3	55.4	51.3
80°	55.7	56.6	57.8	57.8	57.8	56.6	55.7	52.8	49.3	45.2	42.0
82.5°	44.0	44.8	45.9	45.7	45.9	44.8	44.0	41.7	38.8	36.0	33.1
85°	26.6	28.3	28.1	27.7	28.1	28.3	26.6	27.0	24.2	22.3	19.7
87.5°	15.5	15.8	16.2	16.6	16.2	15.8	15.5	15.1	13.5	12.7	11.9
90°	17.7	18.1	18.3	18.6	18.3	18.1	17.7	17.5	17.0	16.1	15.3
92.5°	27.0	27.2	27.3	27.5	27.3	27.2	27.0	26.9	26.5	26.0	25.5
95°	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	48.7	48.3	47.9
97.5°	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.4	75.9	75.4
100°	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	95.9	95.6	95.3
102.5°	117.5	117.6	117.7	117.8	117.7	117.6	117.5	117.3	117.1	116.7	116.4
105°	149.9	150.3	150.7	151.1	150.7	150.3	149.9	149.5	149.0	148.6	148.2
107.5°	183.6	183.6	183.6	183.5	183.6	183.6	183.6	183.7	183.5	183.1	182.8
110°	205.7	206.0	206.4	206.8	206.4	206.0	205.7	205.2	205.1	205.4	205.7



TEST NUMBER: P332509-927

CATALOG NUMBER: SA4XXDIP-C350D810U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	230.4	230.4	230.5	230.6	230.5	230.4	230.4	230.3	230.3	230.4	230.4
115°	268.0	267.8	267.7	267.5	267.7	267.8	268.0	268.1	268.2	268.4	268.5
117.5°	303.6	303.2	303.0	302.7	303.0	303.2	303.6	303.8	304.2	304.7	305.1
120°	328.7	328.9	329.2	329.5	329.2	328.9	328.7	328.4	328.6	329.2	329.9
122.5°	353.2	352.8	352.3	351.8	352.3	352.8	353.2	353.8	354.3	354.7	355.1
125°	391.0	390.7	390.5	390.1	390.5	390.7	391.0	391.3	391.6	391.8	392.1
127.5°	426.4	426.2	426.0	425.7	426.0	426.2	426.4	426.6	426.8	427.1	427.4
130°	450.7	450.1	449.6	449.0	449.6	450.1	450.7	451.2	451.6	451.9	452.2
132.5°	474.4	474.2	474.0	473.8	474.0	474.2	474.4	474.7	474.9	475.2	475.5
135°	509.1	508.7	508.3	507.9	508.3	508.7	509.1	509.5	509.8	510.1	510.4
137.5°	543.4	543.4	543.5	543.7	543.5	543.4	543.4	543.3	543.4	543.8	544.2
140°	565.9	565.7	565.5	565.5	565.5	565.7	565.9	566.0	566.1	566.3	566.4
142.5°	587.3	587.3	587.2	587.2	587.2	587.3	587.3	587.3	587.4	587.4	587.4
145°	618.1	617.7	617.3	616.9	617.3	617.7	618.1	618.5	618.8	618.9	619.0
147.5°	647.2	647.1	647.0	646.8	647.0	647.1	647.2	647.4	647.5	647.6	647.7
150°	665.6	665.4	665.3	665.1	665.3	665.4	665.6	665.7	665.7	665.7	665.7
152.5°	683.1	682.7	682.4	682.0	682.4	682.7	683.1	683.4	683.4	683.1	682.8
155°	707.0	706.5	705.9	705.4	705.9	706.5	707.0	707.6	707.6	707.0	706.5
157.5°	727.8	727.3	726.8	726.4	726.8	727.3	727.8	728.2	728.3	727.9	727.4
160°	740.3	739.6	738.9	738.2	738.9	739.6	740.3	741.0	741.1	740.7	740.3
162.5°	752.7	752.0	751.3	750.6	751.3	752.0	752.7	753.4	753.4	752.6	751.9
165°	768.3	767.8	767.2	766.8	767.2	767.8	768.3	768.9	768.8	767.9	767.1
167.5°	780.8	779.9	779.1	778.2	779.1	779.9	780.8	781.6	781.6	780.9	780.0
170°	787.6	786.6	785.6	784.7	785.6	786.6	787.6	788.5	788.6	787.7	787.0
172.5°	793.1	792.0	791.1	790.1	791.1	792.0	793.1	794.0	794.0	793.1	792.1
175°	798.7	797.7	796.8	795.8	796.8	797.7	798.7	799.7	799.7	798.7	797.7
177.5°	801.5	800.6	799.7	798.8	799.7	800.6	801.5	802.3	802.4	801.6	800.8
180°	800.7	800.7	800.7	800.7	800.7	800.7	800.7	800.7	800.7	800.7	800.7



TEST NUMBER: P332509-927

CATALOG NUMBER: SA4XXDIP-C350D810U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6
2.5°	432.6	433.2	435.6	437.9	440.6	442.5	443.9	445.4	448.5	451.1	453.5
5°	405.4	406.3	411.1	414.5	420.3	425.4	429.4	433.6	438.7	445.7	452.0
7.5°	381.3	384.8	390.1	395.6	401.5	408.1	413.9	420.4	429.1	438.7	448.5
10°	367.7	371.6	377.2	383.6	389.2	396.9	404.0	411.7	421.7	433.2	444.9
12.5°	354.0	360.5	364.8	372.3	378.4	384.8	392.4	402.4	414.0	426.2	440.2
15°	336.9	340.5	348.7	352.8	361.5	371.2	378.7	388.8	400.1	416.2	432.0
17.5°	317.2	321.9	328.4	336.3	346.2	353.8	363.1	373.6	387.8	403.8	423.5
20°	304.3	308.2	316.3	324.9	335.4	343.5	353.4	363.5	378.2	395.2	415.8
22.5°	292.7	296.5	305.1	313.1	323.3	333.1	343.5	355.3	369.3	387.3	408.4
25°	274.9	279.9	287.4	295.6	305.4	316.6	327.9	338.4	353.4	372.3	394.8
27.5°	259.0	263.0	268.5	277.8	288.9	299.8	310.9	324.2	338.6	358.6	381.9
30°	248.8	252.5	258.0	266.6	276.9	288.5	300.2	312.9	327.9	347.8	371.6
32.5°	240.7	243.5	248.3	256.1	265.5	277.7	289.2	302.4	318.1	337.7	360.9
35°	228.7	231.2	233.1	240.3	248.8	260.1	271.6	285.7	301.0	319.5	342.7
37.5°	217.0	217.9	220.5	225.4	233.5	243.9	254.7	268.5	284.1	302.9	323.9
40°	209.8	210.2	211.8	216.3	223.5	233.2	243.8	257.4	272.2	290.0	310.9
42.5°	202.7	202.5	204.1	207.2	213.9	222.8	233.1	245.6	260.4	276.9	296.4
45°	191.6	191.6	191.2	193.8	199.3	207.9	216.6	228.5	240.9	257.1	273.5
47.5°	180.0	179.0	179.3	180.6	185.2	192.3	201.0	210.8	221.7	235.4	249.9
50°	172.5	171.0	170.4	171.9	176.0	182.2	190.5	199.1	209.5	221.4	233.8
52.5°	164.2	162.7	161.7	162.8	166.6	172.3	179.8	187.4	196.7	206.4	217.1
55°	151.5	149.8	149.2	149.6	152.4	156.9	163.3	170.2	177.2	185.2	192.7
57.5°	138.9	136.2	135.6	135.5	137.4	141.5	146.9	152.8	157.9	162.8	170.8
60°	130.7	127.3	126.2	126.0	127.5	130.9	135.7	141.7	145.3	148.7	155.6
62.5°	121.8	118.6	116.1	116.4	117.7	121.0	125.2	129.6	132.0	135.6	140.3
65°	108.2	104.1	102.2	101.6	102.3	105.0	108.4	111.1	113.8	115.3	119.8
67.5°	94.5	91.1	88.3	87.6	87.3	89.1	91.9	93.6	95.5	96.7	99.4
70°	84.9	81.9	78.6	77.4	77.2	78.7	81.4	81.6	84.2	84.8	87.5
72.5°	75.5	71.7	69.4	68.3	67.5	68.8	70.6	71.1	72.5	73.5	74.9
75°	60.8	57.9	55.7	54.0	53.5	54.2	54.2	55.1	56.1	56.6	58.3
77.5°	47.8	44.6	41.9	41.0	40.2	39.8	40.2	40.8	40.3	41.3	41.7
80°	38.8	35.4	33.4	33.0	31.8	31.0	30.7	31.3	30.6	31.0	32.1
82.5°	29.9	27.8	25.6	25.2	23.8	23.3	23.1	22.7	22.7	22.7	22.9
85°	17.8	16.5	15.0	14.1	13.5	12.6	12.6	12.2	11.8	11.4	11.6
87.5°	10.1	9.6	8.6	8.0	7.4	6.7	6.4	5.6	5.1	4.8	4.3
90°	14.4	13.6	12.5	11.4	10.3	9.2	7.9	6.4	4.9	3.4	1.8
92.5°	25.0	24.6	23.8	23.0	22.2	21.5	20.2	18.5	16.7	15.0	13.2
95°	47.5	47.1	46.1	45.2	44.2	43.3	42.1	40.9	39.6	38.4	37.2
97.5°	74.9	74.5	73.3	72.2	71.1	69.9	68.8	67.9	66.9	65.9	64.9
100°	95.1	94.7	93.5	92.3	91.0	89.8	88.9	88.3	87.8	87.2	86.7
102.5°	116.0	115.6	114.5	113.3	112.2	111.1	110.4	110.2	110.0	109.7	109.5
105°	147.8	147.4	146.9	146.3	145.8	145.2	144.9	144.7	144.6	144.4	144.3
107.5°	182.4	182.0	181.9	181.8	181.7	181.6	181.5	181.3	181.2	181.0	180.9
110°	206.0	206.2	206.4	206.5	206.7	206.8	206.7	206.4	206.1	205.9	205.7



TEST NUMBER: P332509-927

CATALOG NUMBER: SA4XXDIP-C350D810U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	230.4	230.5	230.8	231.0	231.2	231.5	231.6	231.6	231.5	231.4	231.4
115°	268.6	268.8	269.0	269.3	269.6	269.9	270.1	270.1	270.1	270.1	270.1
117.5°	305.6	306.1	306.3	306.4	306.7	306.8	306.9	306.7	306.7	306.6	306.4
120°	330.7	331.4	331.8	332.2	332.6	333.0	333.0	332.4	331.8	331.3	330.7
122.5°	355.6	356.1	356.3	356.5	356.7	356.9	356.9	356.6	356.4	356.2	356.0
125°	392.4	392.7	392.8	392.9	393.1	393.2	393.2	393.2	393.2	393.2	393.2
127.5°	427.7	427.9	428.2	428.4	428.6	428.8	428.7	428.3	427.9	427.5	427.1
130°	452.4	452.7	452.7	452.7	452.7	452.7	452.5	452.1	451.7	451.3	450.8
132.5°	475.7	476.0	476.1	476.3	476.3	476.4	476.3	476.0	475.8	475.5	475.2
135°	510.6	511.0	511.0	511.0	511.0	511.0	510.6	509.7	508.9	508.0	507.2
137.5°	544.5	544.9	544.6	544.5	544.2	544.0	543.7	543.3	542.9	542.6	542.2
140°	566.6	566.6	566.6	566.6	566.6	566.6	566.6	566.3	566.0	565.7	565.5
142.5°	587.5	587.5	587.6	587.7	587.8	588.0	587.9	587.6	587.3	587.0	586.8
145°	619.2	619.3	619.2	619.0	618.9	618.8	618.5	617.9	617.3	616.8	616.2
147.5°	647.8	647.9	648.0	648.2	648.2	648.4	648.1	647.5	646.7	646.1	645.5
150°	665.7	665.7	665.7	665.7	665.7	665.7	665.5	665.0	664.4	663.8	663.3
152.5°	682.5	682.1	682.0	681.9	681.8	681.7	681.4	681.1	680.8	680.5	680.2
155°	705.9	705.4	705.5	705.7	705.8	705.9	706.0	706.0	706.0	706.0	706.0
157.5°	727.0	726.6	726.6	726.7	726.7	726.7	726.8	727.1	727.3	727.5	727.9
160°	739.9	739.5	739.6	739.7	739.9	740.0	740.1	740.3	740.5	740.5	740.7
162.5°	751.1	750.4	750.5	750.7	750.8	750.9	751.1	751.5	751.9	752.3	752.6
165°	766.3	765.5	765.7	766.0	766.3	766.6	766.9	767.3	767.8	768.2	768.6
167.5°	779.2	778.3	778.3	778.3	778.2	778.2	778.6	779.1	779.7	780.2	780.9
170°	786.1	785.3	785.1	785.1	784.9	784.7	785.1	785.7	786.4	787.1	787.7
172.5°	791.2	790.3	790.2	790.2	790.2	790.1	790.4	791.0	791.5	792.2	792.7
175°	796.8	795.8	796.0	796.1	796.2	796.4	796.8	797.5	798.1	798.8	799.5
177.5°	800.0	799.3	799.3	799.3	799.3	799.3	799.5	800.1	800.7	801.2	801.8
180°	800.7	800.7	800.7	800.7	800.7	800.7	800.7	800.7	800.7	800.7	800.7



TEST NUMBER: P332509-927

CATALOG NUMBER: SA4XXDIP-C350D810U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6
2.5°	455.6	457.1	459.1	462.3	463.5	465.0	467.1	467.0	467.5	469.8	474.6
5°	457.2	463.1	468.7	475.5	482.6	487.3	493.6	497.6	501.5	506.6	515.2
7.5°	458.0	467.1	477.4	489.3	499.9	512.0	521.5	530.4	538.5	549.1	559.4
10°	456.9	469.3	482.6	497.6	513.5	527.0	539.2	553.1	564.9	577.8	589.5
12.5°	455.0	469.8	487.7	504.5	523.1	543.0	558.3	572.3	588.0	602.9	620.8
15°	450.5	471.0	491.8	513.9	538.8	561.9	583.8	602.0	618.9	641.2	664.6
17.5°	444.9	466.9	493.2	520.0	546.1	572.4	599.5	626.9	648.2	675.9	694.2
20°	439.7	465.2	492.2	524.0	550.1	582.9	609.9	636.3	665.6	693.2	715.1
22.5°	432.3	460.2	488.9	520.5	554.8	587.7	618.9	647.5	676.8	706.8	733.3
25°	422.9	448.3	482.2	518.2	552.3	588.0	623.8	659.7	691.3	722.9	747.7
27.5°	407.1	439.0	470.6	507.8	545.7	586.0	624.3	661.9	695.0	721.0	736.3
30°	398.9	426.7	461.1	498.4	539.4	582.7	622.7	659.6	690.3	711.1	717.3
32.5°	387.0	415.6	449.2	487.8	531.3	575.8	617.3	652.2	677.9	688.8	681.4
35°	369.2	395.1	429.0	468.5	513.7	561.1	602.2	631.6	644.8	634.5	608.8
37.5°	347.8	373.4	407.5	446.4	493.1	541.4	578.5	599.7	595.3	569.7	531.4
40°	332.8	356.8	389.2	431.2	476.7	525.1	557.8	569.2	557.2	520.5	479.7
42.5°	316.2	339.5	372.1	412.6	460.9	505.5	533.9	534.9	514.8	470.8	430.0
45°	290.8	313.1	343.8	386.0	430.6	472.6	491.4	482.2	445.0	402.7	361.6
47.5°	265.8	285.1	315.4	355.5	397.8	433.2	442.5	426.0	386.4	345.2	307.2
50°	247.5	267.0	295.5	333.7	374.6	405.1	409.6	387.7	348.9	307.4	277.7
52.5°	229.9	249.3	276.7	312.1	349.5	377.1	377.2	351.9	313.2	276.3	248.6
55°	204.1	221.6	246.4	278.1	311.4	333.0	327.7	301.5	267.9	235.8	211.7
57.5°	179.4	194.6	217.3	243.8	273.1	291.0	282.3	257.0	227.0	199.8	181.5
60°	163.3	177.8	197.3	222.2	246.9	260.8	252.5	229.7	202.1	180.1	164.2
62.5°	147.7	159.9	178.6	200.3	223.2	233.5	226.2	203.6	179.7	159.9	146.9
65°	125.6	135.5	150.5	169.1	185.8	194.6	188.5	167.4	149.2	135.0	124.7
67.5°	105.0	112.7	124.1	139.0	153.2	158.0	152.3	137.7	122.3	110.9	103.6
70°	90.7	98.1	107.6	119.1	131.4	136.5	130.9	119.2	106.7	96.2	89.0
72.5°	78.3	84.0	92.1	101.8	111.5	116.5	112.7	101.6	90.9	83.1	77.1
75°	59.7	64.5	70.1	77.1	84.5	87.9	84.5	76.8	69.6	63.8	59.4
77.5°	43.3	45.9	50.3	55.5	60.2	62.7	59.8	54.7	50.1	46.2	44.0
80°	33.0	34.9	37.9	42.0	45.2	47.6	45.7	41.4	37.9	35.3	34.3
82.5°	24.0	25.3	27.3	30.3	32.4	33.7	32.9	29.7	28.3	26.0	25.0
85°	11.8	12.6	13.9	14.8	16.7	16.9	17.0	15.8	14.4	13.9	13.2
87.5°	4.8	5.1	5.9	6.7	7.5	7.9	8.0	8.2	7.8	7.8	7.4
90°	3.4	4.9	6.4	7.9	9.2	10.3	11.4	12.5	13.6	14.4	15.3
92.5°	15.0	16.7	18.5	20.2	21.5	22.2	23.0	23.8	24.6	25.0	25.5
95°	38.4	39.6	40.9	42.1	43.3	44.2	45.2	46.1	47.1	47.5	47.9
97.5°	65.9	66.9	67.9	68.8	69.9	71.1	72.2	73.3	74.5	74.9	75.4
100°	87.2	87.8	88.3	88.9	89.8	91.0	92.3	93.5	94.7	95.1	95.3
102.5°	109.7	110.0	110.2	110.4	111.1	112.2	113.3	114.5	115.6	116.0	116.4
105°	144.4	144.6	144.7	144.9	145.2	145.8	146.3	146.9	147.4	147.8	148.2
107.5°	181.0	181.2	181.3	181.5	181.6	181.7	181.8	181.9	182.0	182.4	182.8
110°	205.9	206.1	206.4	206.7	206.8	206.7	206.5	206.4	206.2	206.0	205.7





TEST NUMBER: P332509-927

CATALOG NUMBER: SA4XXDIP-C350D810U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	231.4	231.5	231.6	231.6	231.5	231.2	231.0	230.8	230.5	230.4	230.4
115°	270.1	270.1	270.1	270.1	269.9	269.6	269.3	269.0	268.8	268.6	268.5
117.5°	306.6	306.7	306.7	306.9	306.8	306.7	306.4	306.3	306.1	305.6	305.1
120°	331.3	331.8	332.4	333.0	333.0	332.6	332.2	331.8	331.4	330.7	329.9
122.5°	356.2	356.4	356.6	356.9	356.9	356.7	356.5	356.3	356.1	355.6	355.1
125°	393.2	393.2	393.2	393.2	393.2	393.1	392.9	392.8	392.7	392.4	392.1
127.5°	427.5	427.9	428.3	428.7	428.8	428.6	428.4	428.2	427.9	427.7	427.4
130°	451.3	451.7	452.1	452.5	452.7	452.7	452.7	452.7	452.7	452.4	452.2
132.5°	475.5	475.8	476.0	476.3	476.4	476.3	476.3	476.1	476.0	475.7	475.5
135°	508.0	508.9	509.7	510.6	511.0	511.0	511.0	511.0	511.0	510.6	510.4
137.5°	542.6	542.9	543.3	543.7	544.0	544.2	544.5	544.6	544.9	544.5	544.2
140°	565.7	566.0	566.3	566.6	566.6	566.6	566.6	566.6	566.6	566.6	566.4
142.5°	587.0	587.3	587.6	587.9	588.0	587.8	587.7	587.6	587.5	587.5	587.4
145°	616.8	617.3	617.9	618.5	618.8	618.9	619.0	619.2	619.3	619.2	619.0
147.5°	646.1	646.7	647.5	648.1	648.4	648.2	648.2	648.0	647.9	647.8	647.7
150°	663.8	664.4	665.0	665.5	665.7	665.7	665.7	665.7	665.7	665.7	665.7
152.5°	680.5	680.8	681.1	681.4	681.7	681.8	681.9	682.0	682.1	682.5	682.8
155°	706.0	706.0	706.0	706.0	705.9	705.8	705.7	705.5	705.4	705.9	706.5
157.5°	727.5	727.3	727.1	726.8	726.7	726.7	726.7	726.6	726.6	727.0	727.4
160°	740.5	740.5	740.3	740.1	740.0	739.9	739.7	739.6	739.5	739.9	740.3
162.5°	752.3	751.9	751.5	751.1	750.9	750.8	750.7	750.5	750.4	751.1	751.9
165°	768.2	767.8	767.3	766.9	766.6	766.3	766.0	765.7	765.5	766.3	767.1
167.5°	780.2	779.7	779.1	778.6	778.2	778.2	778.3	778.3	778.3	779.2	780.0
170°	787.1	786.4	785.7	785.1	784.7	784.9	785.1	785.1	785.3	786.1	787.0
172.5°	792.2	791.5	791.0	790.4	790.1	790.2	790.2	790.2	790.3	791.2	792.1
175°	798.8	798.1	797.5	796.8	796.4	796.2	796.1	796.0	795.8	796.8	797.7
177.5°	801.2	800.7	800.1	799.5	799.3	799.3	799.3	799.3	799.3	800.0	800.8
180°	800.7	800.7	800.7	800.7	800.7	800.7	800.7	800.7	800.7	800.7	800.7



TEST NUMBER: P332509-927

CATALOG NUMBER: SA4XXDIP-C350D810U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	452.6	452.6	452.6	452.6	452.6	452.6	452.6
2.5°	477.1	477.4	478.7	479.7	480.1	481.6	481.6
5°	519.0	522.1	528.3	528.9	529.8	534.7	530.9
7.5°	568.1	576.2	581.5	586.4	588.0	590.2	589.8
10°	599.6	611.6	617.6	627.2	627.5	629.9	628.4
12.5°	631.2	645.2	656.1	657.9	665.9	667.2	669.2
15°	676.0	690.9	706.1	711.5	722.5	725.2	729.3
17.5°	718.2	733.3	744.0	758.0	762.6	768.7	764.5
20°	741.3	757.8	771.3	782.4	787.0	790.4	790.0
22.5°	755.3	771.9	782.8	791.2	795.6	797.0	796.9
25°	764.0	773.6	777.0	780.1	775.2	773.6	774.3
27.5°	739.7	737.2	728.4	716.8	704.9	695.4	690.1
30°	706.2	691.7	678.3	655.1	643.1	636.0	629.5
32.5°	658.9	635.6	610.1	588.7	575.1	564.6	563.0
35°	577.7	542.8	511.4	485.4	471.9	460.5	457.8
37.5°	491.1	454.9	426.7	403.7	389.2	381.1	373.6
40°	433.6	402.5	374.8	355.3	344.2	338.4	333.7
42.5°	389.4	361.0	333.4	318.5	308.6	305.0	302.2
45°	328.3	301.8	282.7	271.5	265.7	259.7	256.8
47.5°	279.3	257.9	245.3	235.7	229.4	225.9	224.1
50°	251.6	234.0	222.8	215.4	209.8	207.0	205.5
52.5°	227.0	212.5	203.1	197.3	193.5	191.4	190.8
55°	195.5	184.5	178.5	173.4	170.6	168.7	168.0
57.5°	170.0	161.4	156.6	152.4	151.3	149.8	149.2
60°	153.2	146.6	142.5	139.7	138.7	136.9	137.2
62.5°	138.3	132.9	129.4	127.9	126.6	125.0	125.6
65°	117.0	113.0	111.1	109.7	108.2	107.3	108.0
67.5°	98.2	95.5	92.9	92.1	91.3	91.2	90.4
70°	85.9	83.7	81.4	80.8	80.8	80.1	79.9
72.5°	74.0	72.4	70.9	70.4	69.9	70.2	69.4
75°	57.2	55.8	55.3	54.7	54.6	54.6	54.0
77.5°	42.2	41.3	40.4	40.4	39.7	39.5	39.4
80°	32.1	31.7	31.0	31.0	30.6	30.7	30.3
82.5°	24.1	23.6	23.4	23.1	22.6	22.7	22.3
85°	12.9	12.4	12.2	11.6	11.2	11.6	11.2
87.5°	7.7	7.8	7.7	7.4	7.4	7.4	7.1
90°	16.1	17.0	17.5	17.7	18.1	18.3	18.6
92.5°	26.0	26.5	26.9	27.0	27.2	27.3	27.5
95°	48.3	48.7	49.0	49.0	49.0	49.0	49.0
97.5°	75.9	76.4	76.7	76.7	76.7	76.7	76.7
100°	95.6	95.9	96.0	96.0	96.0	96.0	96.0
102.5°	116.7	117.1	117.3	117.5	117.6	117.7	117.8
105°	148.6	149.0	149.5	149.9	150.3	150.7	151.1
107.5°	183.1	183.5	183.7	183.6	183.6	183.6	183.5
110°	205.4	205.1	205.2	205.7	206.0	206.4	206.8



TEST NUMBER: P332509-927

CATALOG NUMBER: SA4XXDIP-C350D810U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	230.4	230.3	230.3	230.4	230.4	230.5	230.6
115°	268.4	268.2	268.1	268.0	267.8	267.7	267.5
117.5°	304.7	304.2	303.8	303.6	303.2	303.0	302.7
120°	329.2	328.6	328.4	328.7	328.9	329.2	329.5
122.5°	354.7	354.3	353.8	353.2	352.8	352.3	351.8
125°	391.8	391.6	391.3	391.0	390.7	390.5	390.1
127.5°	427.1	426.8	426.6	426.4	426.2	426.0	425.7
130°	451.9	451.6	451.2	450.7	450.1	449.6	449.0
132.5°	475.2	474.9	474.7	474.4	474.2	474.0	473.8
135°	510.1	509.8	509.5	509.1	508.7	508.3	507.9
137.5°	543.8	543.4	543.3	543.4	543.4	543.5	543.7
140°	566.3	566.1	566.0	565.9	565.7	565.5	565.5
142.5°	587.4	587.4	587.3	587.3	587.3	587.2	587.2
145°	618.9	618.8	618.5	618.1	617.7	617.3	616.9
147.5°	647.6	647.5	647.4	647.2	647.1	647.0	646.8
150°	665.7	665.7	665.7	665.6	665.4	665.3	665.1
152.5°	683.1	683.4	683.4	683.1	682.7	682.4	682.0
155°	707.0	707.6	707.6	707.0	706.5	705.9	705.4
157.5°	727.9	728.3	728.2	727.8	727.3	726.8	726.4
160°	740.7	741.1	741.0	740.3	739.6	738.9	738.2
162.5°	752.6	753.4	753.4	752.7	752.0	751.3	750.6
165°	767.9	768.8	768.9	768.3	767.8	767.2	766.8
167.5°	780.9	781.6	781.6	780.8	779.9	779.1	778.2
170°	787.7	788.6	788.5	787.6	786.6	785.6	784.7
172.5°	793.1	794.0	794.0	793.1	792.0	791.1	790.1
175°	798.7	799.7	799.7	798.7	797.7	796.8	795.8
177.5°	801.6	802.4	802.3	801.5	800.6	799.7	798.8
180°	800.7	800.7	800.7	800.7	800.7	800.7	800.7

(END OF REPORT)