

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: P332499-940

Luminaire Tested: **SA4XXDIP-C350D590U940-4F0-1E-UDD-A**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P332499-940  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA4XXDIP-C350D590U940-4F0-1E-UDD-A  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 350 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 590 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

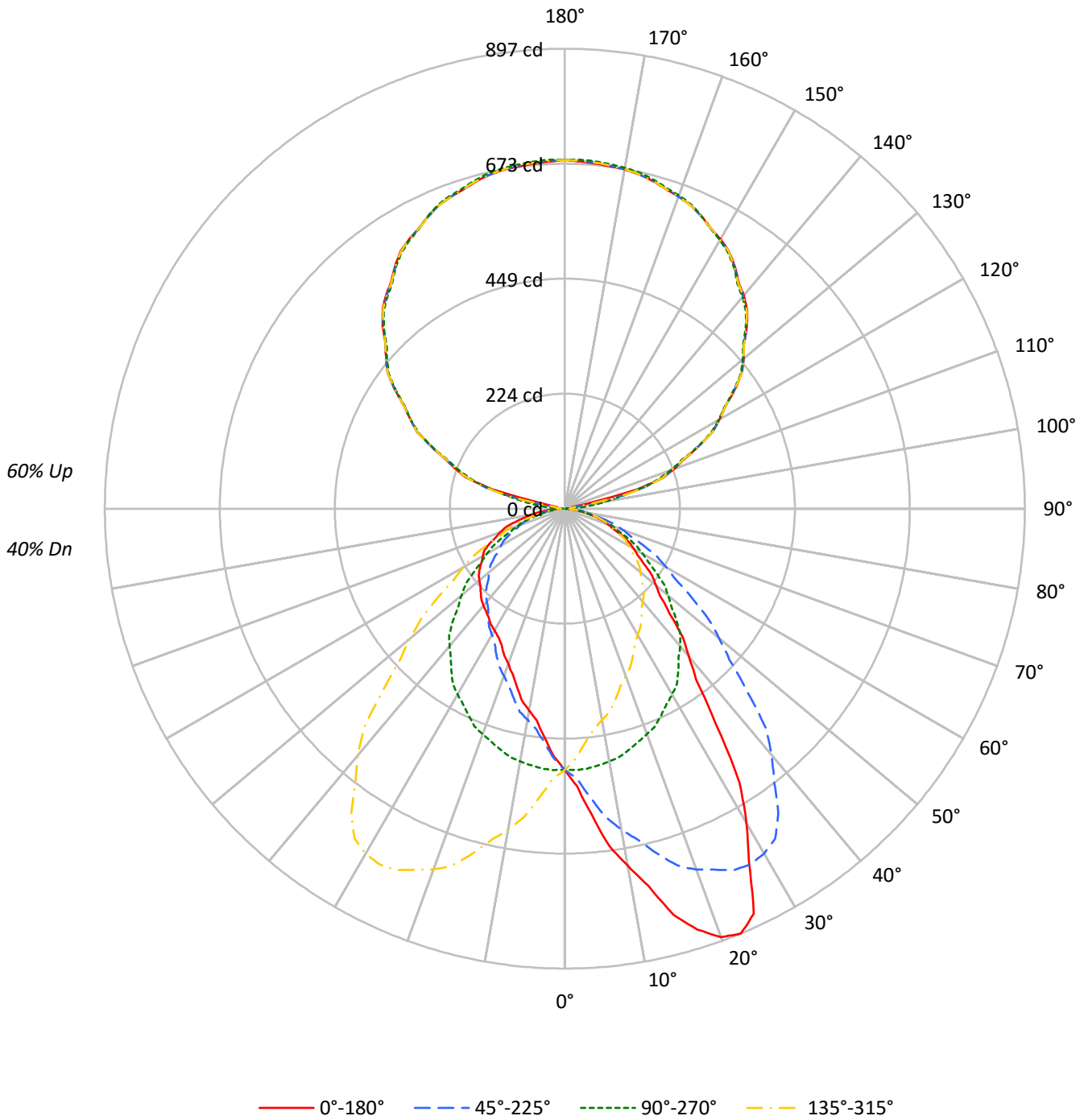
Lumens per Lamp: N/A  
Luminaire Lumens: 3511.2 lumens  
Efficiency: N/A  
Efficacy: 137.2 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41  
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')  
CIE Type: General Diffuse

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



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									20									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	50	30	10	50	30	10	50	30	10	0																
RCR	0	105	105	105	105	95	95	95	95	78	78	78	62	62	62	47	47	47	40	40	40	34	34	34	29	29	29	25	25																	
	1	96	92	88	84	87	83	80	77	68	66	64	55	53	52	42	41	40	34	34	34	29	29	29	25	25	25	21	21																	
	2	87	80	74	69	79	73	68	64	60	56	53	48	46	43	37	35	34	29	29	29	25	25	25	21	21	21	19	19																	
	3	80	71	63	58	72	65	58	53	53	49	45	43	40	37	33	31	29	25	25	25	21	21	21	19	19	19	15	15																	
	4	73	62	55	49	66	57	51	45	47	42	38	38	35	32	30	27	25	21	21	21	19	19	19	15	15	15	11	11																	
	5	67	56	48	42	61	51	44	39	42	37	33	34	31	28	27	24	22	19	19	19	15	15	15	11	11	11	7	7																	
	6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	22	19	16	16	16	12	12	12	8	8	8	4	4																	
	7	57	45	37	32	52	41	35	30	35	29	26	28	24	21	22	19	17	15	15	15	11	11	11	7	7	7	3	3																	
	8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	20	18	16	13	13	13	9	9	9	5	5	5	1	1																	
	9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12	12	12	8	8	8	4	4	4	0	0																	
	10	46	34	27	22	42	32	25	21	27	22	18	22	18	15	17	15	13	11	11	11	7	7	7	3	3	3	0	0																	

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

	0°	90°	180°	270°
0°	4112	4112	4112	4112
5°	4843	4123	3639	4123
10°	5799	4105	3277	4105
15°	6861	4064	3010	4064
20°	7640	4021	2770	4021
25°	7764	3958	2605	3958
30°	6605	3899	2553	3899
35°	5078	3802	2553	3802
40°	3959	3687	2602	3687
45°	3301	3515	2646	3515
50°	2905	3304	2735	3304
55°	2662	3054	2846	3054
60°	2493	2827	2977	2827
65°	2321	2575	3089	2575
70°	2122	2325	3158	2325
75°	1896	2046	3119	2046
80°	1590	1678	3022	1678
85°	1176	1213	2890	1213



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.6	1.4
10°-20°	153.0	4.4
20°-30°	242.6	6.9
30°-40°	270.0	7.7
40°-50°	245.7	7.0
50°-60°	200.8	5.7
60°-70°	143.4	4.1
70°-80°	78.9	2.2
80°-90°	23.5	0.7
90°-100°	23.3	0.7
100°-110°	148.3	4.2
110°-120°	283.7	8.1
120°-130°	360.1	10.3
130°-140°	385.3	11.0
140°-150°	360.3	10.3
150°-160°	290.6	8.3
160°-170°	187.4	5.3
170°-180°	64.6	1.8
0°-30°	445.2	12.7
0°-40°	715.2	20.4
0°-60°	1161.7	33.1
0°-90°	1407.6	40.1
90°-120°	455.3	13.0
90°-150°	1561.1	44.5
90°-180°	2104.0	59.9
0°-180°	3511.2	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	509	509	509	509	509	
5°	598	509	449	509	598	61
15°	821	486	360	486	821	232
25°	872	444	292	444	872	384
35°	515	386	259	386	515	327
45°	289	308	232	308	289	228
55°	189	217	202	217	189	171
65°	122	135	162	135	122	120
75°	61	66	100	66	61	65
85°	13	13	31	13	13	16
90°	15	2	15	2	15	7
95°	15	28	15	28	15	12
105°	145	153	145	153	145	126
115°	288	286	288	286	288	285
125°	405	402	405	402	405	361
135°	502	498	502	498	502	386
145°	578	575	578	575	578	361
155°	630	630	630	630	630	290
165°	662	665	662	665	662	187
175°	676	680	676	680	676	64
180°	680	680	680	680	680	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4
2.5°	542.2	542.1	540.4	540.0	538.9	537.3	537.0	534.2	528.9	526.3	525.7
5°	597.6	601.9	596.4	595.3	594.7	587.7	584.2	580.0	570.2	564.5	560.1
7.5°	663.9	664.3	661.9	660.0	654.6	648.5	639.4	629.7	618.1	606.2	597.1
10°	707.4	709.1	706.3	706.0	695.2	688.4	674.9	663.5	650.4	635.9	622.6
12.5°	753.3	751.0	749.6	740.6	738.5	726.2	710.5	698.8	678.6	661.8	644.2
15°	820.9	816.3	813.3	800.9	794.8	777.7	761.0	748.1	721.8	696.6	677.6
17.5°	860.6	865.2	858.4	853.3	837.5	825.5	808.4	781.4	760.8	729.6	705.6
20°	889.3	889.7	885.9	880.7	868.3	853.0	834.5	804.9	780.2	749.2	716.2
22.5°	897.1	897.2	895.5	890.6	881.2	868.9	850.2	825.5	795.6	761.9	728.9
25°	871.6	870.8	872.6	878.2	874.6	870.8	860.0	841.6	813.8	778.1	742.6
27.5°	776.9	782.7	793.4	806.9	819.9	829.8	832.6	828.8	811.6	782.3	745.1
30°	708.6	715.9	723.9	737.4	763.6	778.6	795.0	807.4	800.5	777.0	742.4
32.5°	633.7	635.5	647.4	662.7	686.7	715.5	741.6	767.0	775.3	763.0	734.1
35°	515.3	518.4	531.2	546.4	575.7	611.0	650.2	685.3	714.2	725.8	711.0
37.5°	420.5	429.0	438.1	454.4	480.3	512.0	552.8	598.2	641.2	670.1	675.0
40°	375.7	380.9	387.4	399.9	421.9	453.1	488.1	540.0	585.9	627.2	640.7
42.5°	340.2	343.3	347.3	358.6	375.2	406.4	438.4	484.0	529.9	579.4	602.1
45°	289.1	292.3	299.1	305.6	318.3	339.7	369.5	407.1	453.3	501.0	542.8
47.5°	252.3	254.2	258.2	265.3	276.1	290.3	314.4	345.8	388.6	435.0	479.5
50°	231.3	233.0	236.1	242.5	250.7	263.4	283.2	312.5	346.1	392.7	436.4
52.5°	214.7	215.4	217.8	222.0	228.6	239.2	255.6	279.8	311.0	352.6	396.1
55°	189.1	189.9	192.1	195.2	200.9	207.7	220.1	238.3	265.5	301.6	339.4
57.5°	168.0	168.6	170.3	171.6	176.3	181.7	191.4	204.3	224.9	255.6	289.3
60°	154.4	154.1	156.1	157.2	160.4	165.1	172.5	184.9	202.8	227.5	258.5
62.5°	141.3	140.7	142.5	143.9	145.7	149.6	155.7	165.4	180.0	202.3	229.2
65°	121.5	120.7	121.8	123.5	125.1	127.2	131.7	140.4	151.9	168.0	188.4
67.5°	101.7	102.6	102.8	103.6	104.6	107.5	110.5	116.6	124.8	137.7	155.0
70°	89.9	90.2	91.0	91.0	91.6	94.2	96.7	100.2	108.3	120.1	134.2
72.5°	78.1	79.0	78.6	79.3	79.8	81.5	83.3	86.8	93.5	102.4	114.3
75°	60.8	61.4	61.4	61.6	62.2	62.9	64.4	66.9	71.8	78.3	86.5
77.5°	44.3	44.4	44.7	45.5	45.5	46.5	47.5	49.6	52.0	56.4	61.5
80°	34.2	34.6	34.4	34.9	34.9	35.7	36.1	38.6	39.7	42.6	46.6
82.5°	25.1	25.5	25.4	26.0	26.4	26.6	27.1	28.2	29.2	31.8	33.4
85°	12.7	13.1	12.7	13.1	13.7	13.9	14.5	14.8	15.6	16.2	17.7
87.5°	6.8	7.2	7.2	7.3	7.6	7.7	7.7	7.4	7.9	7.9	8.5
90°	15.2	15.1	14.8	14.6	14.4	13.9	13.2	12.6	11.9	11.1	10.3
92.5°	14.0	14.0	13.9	13.9	13.8	13.5	12.8	12.1	11.5	10.8	9.9
95°	14.7	14.6	14.5	14.4	14.3	13.9	13.2	12.6	11.9	11.1	11.1
97.5°	14.3	14.1	14.0	13.9	13.8	13.7	13.6	13.6	13.5	13.5	26.0
100°	14.3	14.1	14.0	13.9	13.8	14.7	16.6	18.5	20.4	22.4	38.0
102.5°	14.6	14.6	14.6	14.6	14.5	24.9	45.7	66.3	87.1	107.8	109.9
105°	145.0	149.0	153.1	157.2	161.2	162.7	161.8	160.8	159.7	158.7	158.1
107.5°	202.1	201.6	201.2	200.7	200.3	199.8	199.4	198.9	198.4	197.9	197.1
110°	226.9	226.5	226.1	225.9	225.5	225.2	225.0	224.8	224.5	224.4	223.6



TEST NUMBER: P332499-940

CATALOG NUMBER: SA4XXDIP-C350D590U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	251.6	251.3	250.8	250.4	249.9	249.8	249.9	249.9	249.9	249.9	249.7
115°	287.9	287.9	287.9	287.9	287.9	287.8	287.6	287.3	287.1	286.9	287.0
117.5°	324.8	324.8	324.9	324.9	324.9	324.9	325.0	325.0	325.1	325.1	324.9
120°	347.9	348.1	348.4	348.6	348.8	348.8	348.6	348.4	348.1	347.9	348.0
122.5°	370.7	371.0	371.1	371.4	371.6	371.7	371.5	371.4	371.2	371.1	371.0
125°	404.9	404.7	404.7	404.6	404.5	404.2	403.9	403.5	403.2	402.9	403.1
127.5°	434.9	435.0	435.1	435.2	435.2	435.3	435.4	435.5	435.5	435.6	435.1
130°	455.2	455.2	455.2	455.2	455.2	455.2	455.0	455.0	454.9	454.8	454.4
132.5°	473.9	474.0	474.1	474.2	474.3	474.3	474.2	474.1	473.9	473.9	473.4
135°	502.0	501.9	501.6	501.3	501.1	500.9	500.7	500.4	500.2	500.0	499.5
137.5°	526.0	526.1	526.2	526.3	526.3	526.2	526.0	525.8	525.5	525.2	524.8
140°	542.7	542.6	542.5	542.4	542.2	542.1	541.7	541.4	541.0	540.7	540.5
142.5°	556.6	556.5	556.5	556.5	556.5	556.3	556.1	555.8	555.6	555.4	555.2
145°	577.8	577.7	577.4	577.1	576.9	576.8	576.7	576.5	576.4	576.3	576.3
147.5°	595.4	595.3	595.2	595.1	594.9	594.9	594.8	594.7	594.6	594.5	594.6
150°	606.8	606.7	606.6	606.5	606.4	606.3	606.3	606.3	606.3	606.3	606.5
152.5°	616.6	616.6	616.7	616.8	616.9	616.8	616.6	616.4	616.3	616.1	616.3
155°	629.7	630.1	630.4	630.7	631.1	631.0	630.5	630.1	629.6	629.2	629.5
157.5°	640.7	641.3	641.9	642.5	643.0	643.0	642.5	641.9	641.3	640.7	641.1
160°	648.0	648.7	649.3	650.1	650.8	650.8	650.1	649.3	648.7	648.0	648.1
162.5°	653.7	654.5	655.2	656.0	656.8	656.8	656.1	655.5	654.8	654.2	654.2
165°	661.7	662.8	663.8	664.8	665.8	665.9	664.9	664.1	663.2	662.3	662.3
167.5°	667.8	668.9	670.0	671.2	672.3	672.3	671.4	670.4	669.4	668.3	668.4
170°	671.5	672.5	673.7	674.8	675.9	676.1	675.1	674.2	673.3	672.4	672.3
172.5°	673.4	674.7	675.9	677.2	678.3	678.5	677.6	676.7	675.8	674.8	674.8
175°	676.0	677.3	678.7	680.1	681.4	681.6	680.6	679.6	678.5	677.5	677.4
177.5°	677.6	678.7	679.8	680.9	682.0	682.2	681.4	680.7	680.0	679.2	679.0
180°	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1



TEST NUMBER: P332499-940

CATALOG NUMBER: SA4XXDIP-C350D590U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4
2.5°	525.8	523.4	521.7	520.4	516.7	514.5	512.8	510.5	507.7	504.9	501.3
5°	555.6	548.5	543.2	535.2	527.6	521.3	514.7	508.8	501.7	493.8	488.1
7.5°	587.0	576.3	562.7	550.8	537.4	525.8	515.5	504.9	493.8	483.0	473.2
10°	607.0	593.3	578.0	560.1	543.2	528.2	514.3	500.8	487.7	474.7	463.4
12.5°	628.4	611.3	588.8	567.8	548.9	528.9	512.1	495.5	479.7	466.0	453.0
15°	657.2	632.5	606.5	578.5	553.6	530.1	507.1	486.2	468.5	450.3	437.7
17.5°	674.8	644.3	614.7	585.3	555.2	525.6	500.8	476.7	454.5	436.5	420.5
20°	686.5	656.1	619.2	589.9	554.0	523.6	494.9	468.1	444.9	425.7	409.2
22.5°	696.6	661.6	624.6	585.9	550.3	518.0	486.6	459.7	436.0	415.7	399.9
25°	702.1	661.8	621.7	583.3	542.8	504.6	476.1	444.4	419.1	397.8	380.9
27.5°	702.8	659.6	614.2	571.6	529.8	494.2	458.3	429.9	403.7	381.1	364.9
30°	700.9	655.9	607.2	561.0	519.0	480.4	449.1	418.3	391.5	369.1	352.2
32.5°	694.9	648.2	598.1	549.1	505.6	467.8	435.6	406.3	380.1	358.1	340.4
35°	677.9	631.6	578.3	527.4	482.9	444.7	415.5	385.8	359.6	338.8	321.6
37.5°	651.1	609.4	555.1	502.5	458.7	420.4	391.5	364.6	341.0	319.8	302.3
40°	627.9	591.1	536.6	485.4	438.1	401.6	374.6	349.9	326.5	306.4	289.7
42.5°	601.0	569.0	518.8	464.5	418.8	382.2	355.9	333.7	311.7	293.1	276.4
45°	553.1	532.0	484.7	434.5	387.0	352.4	327.3	307.9	289.4	271.2	257.3
47.5°	498.1	487.6	447.8	400.1	355.1	320.9	299.2	281.2	264.9	249.6	237.3
50°	461.1	456.0	421.7	375.7	332.6	300.5	278.6	263.1	249.2	235.8	224.1
52.5°	424.6	424.5	393.4	351.3	311.5	280.6	258.8	244.4	232.4	221.4	211.0
55°	368.9	374.8	350.5	313.0	277.3	249.4	229.8	217.0	208.5	199.5	191.6
57.5°	317.7	327.5	307.5	274.4	244.6	219.0	201.9	192.3	183.2	177.7	172.0
60°	284.3	293.6	277.9	250.1	222.0	200.1	183.8	175.1	167.4	163.5	159.5
62.5°	254.6	262.8	251.3	225.4	201.1	179.9	166.2	157.9	152.7	148.6	145.9
65°	212.1	219.1	209.1	190.4	169.4	152.6	141.4	134.8	129.8	128.1	125.1
67.5°	171.5	177.8	172.5	156.5	139.7	126.9	118.2	111.9	108.9	107.5	105.3
70°	147.3	153.6	147.9	134.0	121.1	110.4	102.1	98.5	95.4	94.8	91.8
72.5°	126.9	131.2	125.5	114.6	103.6	94.5	88.1	84.4	82.8	81.6	80.0
75°	95.1	99.0	95.1	86.8	78.9	72.6	67.1	65.6	63.8	63.1	62.1
77.5°	67.3	70.6	67.8	62.5	56.6	51.7	48.8	46.9	46.5	45.4	45.9
80°	51.5	53.6	50.8	47.3	42.6	39.2	37.2	36.1	34.9	34.4	35.2
82.5°	37.0	37.9	36.5	34.1	30.7	28.4	27.0	25.8	25.5	25.6	25.6
85°	19.2	19.0	18.8	16.7	15.6	14.2	13.3	13.1	12.8	13.3	13.7
87.5°	8.3	8.3	7.9	7.0	6.2	5.5	5.1	4.7	5.1	5.5	6.0
90°	9.4	8.5	7.6	6.5	5.3	4.0	2.8	1.5	2.8	4.0	5.3
92.5°	9.0	8.1	7.1	6.7	6.6	6.5	6.5	6.4	6.5	6.5	6.6
95°	11.0	10.9	10.7	12.6	16.4	20.3	24.2	28.0	24.2	20.3	16.4
97.5°	38.7	51.3	63.8	69.0	66.6	64.2	61.8	59.4	61.8	64.2	66.6
100°	53.6	69.2	84.8	91.6	89.5	87.5	85.4	83.4	85.4	87.5	89.5
102.5°	111.9	114.0	116.0	116.3	114.8	113.2	111.7	110.3	111.7	113.2	114.8
105°	157.6	157.0	156.4	155.8	155.2	154.4	153.8	153.1	153.8	154.4	155.2
107.5°	196.4	195.6	194.7	194.2	193.9	193.6	193.2	192.9	193.2	193.6	193.9
110°	222.9	222.3	221.6	221.1	220.8	220.4	220.1	219.7	220.1	220.4	220.8





TEST NUMBER: P332499-940

CATALOG NUMBER: SA4XXDIP-C350D590U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	249.3	249.0	248.7	248.3	247.6	247.0	246.4	245.8	246.4	247.0	247.6
115°	287.1	287.2	287.3	287.2	286.9	286.5	286.2	285.9	286.2	286.5	286.9
117.5°	324.7	324.4	324.1	323.8	323.3	322.9	322.4	322.0	322.4	322.9	323.3
120°	348.1	348.3	348.4	348.2	347.8	347.3	346.9	346.4	346.9	347.3	347.8
122.5°	370.8	370.7	370.5	370.2	370.0	369.7	369.4	369.2	369.4	369.7	370.0
125°	403.3	403.5	403.8	403.7	403.2	402.8	402.3	401.8	402.3	402.8	403.2
127.5°	434.5	434.1	433.5	433.2	433.1	433.0	432.8	432.7	432.8	433.0	433.1
130°	454.1	453.7	453.3	453.2	453.1	452.9	452.8	452.7	452.8	452.9	453.1
132.5°	473.0	472.6	472.2	471.8	471.6	471.4	471.2	471.0	471.2	471.4	471.6
135°	499.1	498.6	498.2	498.0	498.1	498.3	498.4	498.5	498.4	498.3	498.1
137.5°	524.2	523.7	523.3	523.0	522.9	522.9	522.8	522.8	522.8	522.9	522.9
140°	540.3	540.0	539.8	539.6	539.3	539.1	538.9	538.7	538.9	539.1	539.3
142.5°	555.1	554.9	554.8	554.6	554.1	553.8	553.3	552.9	553.3	553.8	554.1
145°	576.3	576.3	576.3	576.1	575.8	575.4	575.2	574.8	575.2	575.4	575.8
147.5°	594.8	594.9	594.9	594.7	594.1	593.4	592.8	592.2	592.8	593.4	594.1
150°	606.5	606.6	606.8	606.6	606.2	605.7	605.2	604.8	605.2	605.7	606.2
152.5°	616.5	616.7	616.9	616.8	616.4	616.1	615.7	615.4	615.7	616.1	616.4
155°	629.9	630.3	630.5	630.7	630.5	630.4	630.4	630.3	630.4	630.4	630.5
157.5°	641.5	641.9	642.2	642.5	642.6	642.6	642.7	642.7	642.7	642.6	642.6
160°	648.3	648.4	648.5	648.7	649.1	649.3	649.7	650.1	649.7	649.3	649.1
162.5°	654.3	654.4	654.6	654.9	655.3	655.7	656.1	656.6	656.1	655.7	655.3
165°	662.3	662.3	662.3	662.5	663.1	663.7	664.2	664.8	664.2	663.7	663.1
167.5°	668.5	668.6	668.6	669.0	669.6	670.1	670.7	671.3	670.7	670.1	669.6
170°	672.2	672.1	672.0	672.3	673.0	673.6	674.3	675.0	674.3	673.6	673.0
172.5°	674.7	674.6	674.4	674.8	675.4	676.1	676.7	677.4	676.7	676.1	675.4
175°	677.3	677.2	677.1	677.3	678.1	678.7	679.4	680.1	679.4	678.7	678.1
177.5°	678.9	678.7	678.5	678.8	679.4	680.0	680.6	681.3	680.6	680.0	679.4
180°	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1



TEST NUMBER: P332499-940

CATALOG NUMBER: SA4XXDIP-C350D590U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4
2.5°	499.6	498.1	496.0	492.9	490.4	487.7	487.0	486.0	488.0	486.3	485.8
5°	483.3	478.8	473.1	466.6	462.8	457.4	456.3	454.1	452.0	451.8	449.7
7.5°	465.9	459.4	451.9	445.3	439.2	433.1	429.2	428.4	425.3	423.4	421.3
10°	454.8	446.7	438.1	431.8	424.6	418.3	413.8	411.3	409.2	406.9	404.7
12.5°	441.7	433.1	426.0	419.1	410.6	405.8	398.5	394.1	393.7	393.7	388.3
15°	426.3	417.9	406.9	397.2	392.5	383.3	379.2	374.2	371.0	367.8	365.3
17.5°	408.8	398.2	389.7	378.5	369.7	362.3	357.0	354.0	349.2	344.7	341.5
20°	397.8	386.6	377.6	365.7	356.1	347.0	342.5	338.3	334.7	330.9	327.3
22.5°	386.6	375.0	363.9	352.4	343.4	333.8	329.5	323.8	320.4	318.3	314.7
25°	369.1	356.4	343.8	332.8	323.5	315.0	309.4	305.0	301.1	299.4	297.1
27.5°	350.0	337.4	325.2	312.7	302.2	296.0	291.5	288.2	286.0	283.7	282.7
30°	337.9	324.8	311.7	300.1	290.4	284.3	280.1	277.8	276.1	275.0	273.9
32.5°	325.6	312.6	298.9	288.3	279.6	274.1	270.9	268.6	267.8	267.4	267.0
35°	305.8	292.7	280.1	270.5	262.3	260.2	257.4	256.2	255.7	257.3	257.9
37.5°	286.7	274.6	262.9	253.7	248.3	245.2	244.2	244.3	245.8	247.1	248.6
40°	274.4	262.5	251.6	243.5	238.4	236.6	236.1	237.2	238.9	240.4	242.1
42.5°	262.3	250.7	240.8	233.3	229.7	227.9	228.2	229.3	231.7	233.4	235.9
45°	243.8	234.1	224.4	218.2	215.3	215.7	215.7	217.6	219.9	222.7	225.4
47.5°	226.2	216.4	208.5	203.3	201.8	201.4	202.6	205.1	208.4	211.8	215.6
50°	214.5	205.1	198.1	193.5	191.8	192.4	194.1	196.4	200.5	204.7	208.7
52.5°	202.4	193.9	187.5	183.2	182.0	183.2	184.9	188.5	192.1	196.6	201.4
55°	183.8	176.6	171.6	168.4	168.0	168.6	170.5	174.5	179.6	185.3	189.9
57.5°	165.3	159.3	154.6	152.5	152.7	153.3	156.4	161.1	166.6	172.6	178.6
60°	152.8	147.3	143.5	141.8	142.0	143.3	147.1	151.5	158.3	164.2	170.5
62.5°	141.0	136.2	132.5	131.0	130.7	133.5	137.1	141.7	148.5	155.1	161.9
65°	122.0	118.2	115.2	114.4	115.0	117.2	121.8	127.9	133.6	140.5	147.8
67.5°	103.4	100.3	98.3	98.6	99.4	102.5	106.4	111.6	118.2	125.4	132.4
70°	91.6	88.6	86.9	87.1	88.5	92.2	95.6	100.9	107.8	115.2	121.1
72.5°	79.5	77.5	76.0	76.9	78.1	80.7	85.0	90.2	96.4	103.3	109.5
75°	61.0	61.0	60.2	60.8	62.7	65.2	68.4	73.8	80.0	85.5	90.5
77.5°	45.2	44.8	45.3	46.1	47.2	50.2	53.9	57.8	62.3	67.9	72.1
80°	34.6	34.9	35.8	37.2	37.5	39.9	43.7	47.3	50.8	55.5	59.5
82.5°	26.0	26.2	26.8	28.4	28.8	31.3	33.7	37.3	40.6	43.7	47.0
85°	14.2	14.2	15.2	15.9	16.9	18.5	20.1	22.2	25.1	27.2	30.4
87.5°	6.7	7.0	7.8	8.3	9.0	10.0	10.5	12.5	13.3	14.3	15.9
90°	6.5	7.6	8.5	9.4	10.3	11.1	11.9	12.6	13.2	13.9	14.4
92.5°	6.7	7.1	8.1	9.0	9.9	10.8	11.5	12.1	12.8	13.5	13.8
95°	12.6	10.7	10.9	11.0	11.1	11.1	11.9	12.6	13.2	13.9	14.3
97.5°	69.0	63.8	51.3	38.7	26.0	13.5	13.5	13.6	13.6	13.7	13.8
100°	91.6	84.8	69.2	53.6	38.0	22.4	20.4	18.5	16.6	14.7	13.8
102.5°	116.3	116.0	114.0	111.9	109.9	107.8	87.1	66.3	45.7	24.9	14.5
105°	155.8	156.4	157.0	157.6	158.1	158.7	159.7	160.8	161.8	162.7	161.2
107.5°	194.2	194.7	195.6	196.4	197.1	197.9	198.4	198.9	199.4	199.8	200.3
110°	221.1	221.6	222.3	222.9	223.6	224.4	224.5	224.8	225.0	225.2	225.5



TEST NUMBER: P332499-940

CATALOG NUMBER: SA4XXDIP-C350D590U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	248.3	248.7	249.0	249.3	249.7	249.9	249.9	249.9	249.9	249.8	249.9
115°	287.2	287.3	287.2	287.1	287.0	286.9	287.1	287.3	287.6	287.8	287.9
117.5°	323.8	324.1	324.4	324.7	324.9	325.1	325.1	325.0	325.0	324.9	324.9
120°	348.2	348.4	348.3	348.1	348.0	347.9	348.1	348.4	348.6	348.8	348.8
122.5°	370.2	370.5	370.7	370.8	371.0	371.1	371.2	371.4	371.5	371.7	371.6
125°	403.7	403.8	403.5	403.3	403.1	402.9	403.2	403.5	403.9	404.2	404.5
127.5°	433.2	433.5	434.1	434.5	435.1	435.6	435.5	435.5	435.4	435.3	435.2
130°	453.2	453.3	453.7	454.1	454.4	454.8	454.9	455.0	455.0	455.2	455.2
132.5°	471.8	472.2	472.6	473.0	473.4	473.9	473.9	474.1	474.2	474.3	474.3
135°	498.0	498.2	498.6	499.1	499.5	500.0	500.2	500.4	500.7	500.9	501.1
137.5°	523.0	523.3	523.7	524.2	524.8	525.2	525.5	525.8	526.0	526.2	526.3
140°	539.6	539.8	540.0	540.3	540.5	540.7	541.0	541.4	541.7	542.1	542.2
142.5°	554.6	554.8	554.9	555.1	555.2	555.4	555.6	555.8	556.1	556.3	556.5
145°	576.1	576.3	576.3	576.3	576.3	576.3	576.4	576.5	576.7	576.8	576.9
147.5°	594.7	594.9	594.9	594.8	594.6	594.5	594.6	594.7	594.8	594.9	594.9
150°	606.6	606.8	606.6	606.5	606.5	606.3	606.3	606.3	606.3	606.3	606.4
152.5°	616.8	616.9	616.7	616.5	616.3	616.1	616.3	616.4	616.6	616.8	616.9
155°	630.7	630.5	630.3	629.9	629.5	629.2	629.6	630.1	630.5	631.0	631.1
157.5°	642.5	642.2	641.9	641.5	641.1	640.7	641.3	641.9	642.5	643.0	643.0
160°	648.7	648.5	648.4	648.3	648.1	648.0	648.7	649.3	650.1	650.8	650.8
162.5°	654.9	654.6	654.4	654.3	654.2	654.2	654.8	655.5	656.1	656.8	656.8
165°	662.5	662.3	662.3	662.3	662.3	662.3	663.2	664.1	664.9	665.9	665.8
167.5°	669.0	668.6	668.6	668.5	668.4	668.3	669.4	670.4	671.4	672.3	672.3
170°	672.3	672.0	672.1	672.2	672.3	672.4	673.3	674.2	675.1	676.1	675.9
172.5°	674.8	674.4	674.6	674.7	674.8	674.8	675.8	676.7	677.6	678.5	678.3
175°	677.3	677.1	677.2	677.3	677.4	677.5	678.5	679.6	680.6	681.6	681.4
177.5°	678.8	678.5	678.7	678.9	679.0	679.2	680.0	680.7	681.4	682.2	682.0
180°	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1



TEST NUMBER: P332499-940

CATALOG NUMBER: SA4XXDIP-C350D590U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4
2.5°	485.4	485.2	483.9	483.8	483.9	485.2	485.4	485.8	486.3	488.0	486.0
5°	448.4	447.4	446.7	449.1	446.7	447.4	448.4	449.7	451.8	452.0	454.1
7.5°	420.5	419.7	417.9	417.2	417.9	419.7	420.5	421.3	423.4	425.3	428.4
10°	402.7	401.8	400.1	399.7	400.1	401.8	402.7	404.7	406.9	409.2	411.3
12.5°	385.4	383.8	383.4	383.9	383.4	383.8	385.4	388.3	393.7	393.7	394.1
15°	362.6	361.7	359.4	360.1	359.4	361.7	362.6	365.3	367.8	371.0	374.2
17.5°	340.0	339.0	336.2	338.7	336.2	339.0	340.0	341.5	344.7	349.2	354.0
20°	325.8	324.1	322.7	322.4	322.7	324.1	325.8	327.3	330.9	334.7	338.3
22.5°	312.4	310.9	310.7	309.3	310.7	310.9	312.4	314.7	318.3	320.4	323.8
25°	295.4	294.0	293.6	292.5	293.6	294.0	295.4	297.1	299.4	301.1	305.0
27.5°	282.5	281.8	281.0	281.3	281.0	281.8	282.5	282.7	283.7	286.0	288.2
30°	274.6	274.4	273.9	273.9	273.9	274.4	274.6	273.9	275.0	276.1	277.8
32.5°	268.0	268.0	268.2	268.2	268.2	268.0	268.0	267.0	267.4	267.8	268.6
35°	258.8	259.4	259.8	259.1	259.8	259.4	258.8	257.9	257.3	255.7	256.2
37.5°	250.4	251.0	251.6	252.4	251.6	251.0	250.4	248.6	247.1	245.8	244.3
40°	244.0	245.4	245.8	246.9	245.8	245.4	244.0	242.1	240.4	238.9	237.2
42.5°	237.9	239.5	240.6	240.9	240.6	239.5	237.9	235.9	233.4	231.7	229.3
45°	228.5	230.2	231.8	231.8	231.8	230.2	228.5	225.4	222.7	219.9	217.6
47.5°	218.9	221.3	222.8	223.2	222.8	221.3	218.9	215.6	211.8	208.4	205.1
50°	212.3	215.3	216.8	217.8	216.8	215.3	212.3	208.7	204.7	200.5	196.4
52.5°	205.9	208.8	210.8	211.3	210.8	208.8	205.9	201.4	196.6	192.1	188.5
55°	194.7	199.0	201.3	202.2	201.3	199.0	194.7	189.9	185.3	179.6	174.5
57.5°	184.3	188.2	190.9	191.5	190.9	188.2	184.3	178.6	172.6	166.6	161.1
60°	176.2	180.5	183.8	184.4	183.8	180.5	176.2	170.5	164.2	158.3	151.5
62.5°	167.9	172.4	175.4	177.0	175.4	172.4	167.9	161.9	155.1	148.5	141.7
65°	153.6	158.1	161.0	161.7	161.0	158.1	153.6	147.8	140.5	133.6	127.9
67.5°	138.0	142.5	144.4	145.6	144.4	142.5	138.0	132.4	125.4	118.2	111.6
70°	127.1	130.6	132.8	133.8	132.8	130.6	127.1	121.1	115.2	107.8	100.9
72.5°	114.6	118.3	120.7	121.0	120.7	118.3	114.6	109.5	103.3	96.4	90.2
75°	95.4	98.8	100.0	100.0	100.0	98.8	95.4	90.5	85.5	80.0	73.8
77.5°	75.5	77.2	78.8	79.2	78.8	77.2	75.5	72.1	67.9	62.3	57.8
80°	62.7	63.8	65.0	65.0	65.0	63.8	62.7	59.5	55.5	50.8	47.3
82.5°	49.5	50.4	51.6	51.5	51.6	50.4	49.5	47.0	43.7	40.6	37.3
85°	30.0	31.8	31.7	31.2	31.7	31.8	30.0	30.4	27.2	25.1	22.2
87.5°	16.4	16.7	17.2	17.6	17.2	16.7	16.4	15.9	14.3	13.3	12.5
90°	14.6	14.8	15.1	15.2	15.1	14.8	14.6	14.4	13.9	13.2	12.6
92.5°	13.9	13.9	14.0	14.0	14.0	13.9	13.9	13.8	13.5	12.8	12.1
95°	14.4	14.5	14.6	14.7	14.6	14.5	14.4	14.3	13.9	13.2	12.6
97.5°	13.9	14.0	14.1	14.3	14.1	14.0	13.9	13.8	13.7	13.6	13.6
100°	13.9	14.0	14.1	14.3	14.1	14.0	13.9	13.8	14.7	16.6	18.5
102.5°	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.5	24.9	45.7	66.3
105°	157.2	153.1	149.0	145.0	149.0	153.1	157.2	161.2	162.7	161.8	160.8
107.5°	200.7	201.2	201.6	202.1	201.6	201.2	200.7	200.3	199.8	199.4	198.9
110°	225.9	226.1	226.5	226.9	226.5	226.1	225.9	225.5	225.2	225.0	224.8



TEST NUMBER: P332499-940

CATALOG NUMBER: SA4XXDIP-C350D590U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	250.4	250.8	251.3	251.6	251.3	250.8	250.4	249.9	249.8	249.9	249.9
115°	287.9	287.9	287.9	287.9	287.9	287.9	287.9	287.9	287.8	287.6	287.3
117.5°	324.9	324.9	324.8	324.8	324.8	324.9	324.9	324.9	324.9	325.0	325.0
120°	348.6	348.4	348.1	347.9	348.1	348.4	348.6	348.8	348.8	348.6	348.4
122.5°	371.4	371.1	371.0	370.7	371.0	371.1	371.4	371.6	371.7	371.5	371.4
125°	404.6	404.7	404.7	404.9	404.7	404.7	404.6	404.5	404.2	403.9	403.5
127.5°	435.2	435.1	435.0	434.9	435.0	435.1	435.2	435.2	435.3	435.4	435.5
130°	455.2	455.2	455.2	455.2	455.2	455.2	455.2	455.2	455.2	455.0	455.0
132.5°	474.2	474.1	474.0	473.9	474.0	474.1	474.2	474.3	474.3	474.2	474.1
135°	501.3	501.6	501.9	502.0	501.9	501.6	501.3	501.1	500.9	500.7	500.4
137.5°	526.3	526.2	526.1	526.0	526.1	526.2	526.3	526.3	526.2	526.0	525.8
140°	542.4	542.5	542.6	542.7	542.6	542.5	542.4	542.2	542.1	541.7	541.4
142.5°	556.5	556.5	556.5	556.6	556.5	556.5	556.5	556.5	556.3	556.1	555.8
145°	577.1	577.4	577.7	577.8	577.7	577.4	577.1	576.9	576.8	576.7	576.5
147.5°	595.1	595.2	595.3	595.4	595.3	595.2	595.1	594.9	594.9	594.8	594.7
150°	606.5	606.6	606.7	606.8	606.7	606.6	606.5	606.4	606.3	606.3	606.3
152.5°	616.8	616.7	616.6	616.6	616.6	616.7	616.8	616.9	616.8	616.6	616.4
155°	630.7	630.4	630.1	629.7	630.1	630.4	630.7	631.1	631.0	630.5	630.1
157.5°	642.5	641.9	641.3	640.7	641.3	641.9	642.5	643.0	643.0	642.5	641.9
160°	650.1	649.3	648.7	648.0	648.7	649.3	650.1	650.8	650.8	650.1	649.3
162.5°	656.0	655.2	654.5	653.7	654.5	655.2	656.0	656.8	656.8	656.1	655.5
165°	664.8	663.8	662.8	661.7	662.8	663.8	664.8	665.8	665.9	664.9	664.1
167.5°	671.2	670.0	668.9	667.8	668.9	670.0	671.2	672.3	672.3	671.4	670.4
170°	674.8	673.7	672.5	671.5	672.5	673.7	674.8	675.9	676.1	675.1	674.2
172.5°	677.2	675.9	674.7	673.4	674.7	675.9	677.2	678.3	678.5	677.6	676.7
175°	680.1	678.7	677.3	676.0	677.3	678.7	680.1	681.4	681.6	680.6	679.6
177.5°	680.9	679.8	678.7	677.6	678.7	679.8	680.9	682.0	682.2	681.4	680.7
180°	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1



TEST NUMBER: P332499-940

CATALOG NUMBER: SA4XXDIP-C350D590U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4
2.5°	487.0	487.7	490.4	492.9	496.0	498.1	499.6	501.3	504.9	507.7	510.5
5°	456.3	457.4	462.8	466.6	473.1	478.8	483.3	488.1	493.8	501.7	508.8
7.5°	429.2	433.1	439.2	445.3	451.9	459.4	465.9	473.2	483.0	493.8	504.9
10°	413.8	418.3	424.6	431.8	438.1	446.7	454.8	463.4	474.7	487.7	500.8
12.5°	398.5	405.8	410.6	419.1	426.0	433.1	441.7	453.0	466.0	479.7	495.5
15°	379.2	383.3	392.5	397.2	406.9	417.9	426.3	437.7	450.3	468.5	486.2
17.5°	357.0	362.3	369.7	378.5	389.7	398.2	408.8	420.5	436.5	454.5	476.7
20°	342.5	347.0	356.1	365.7	377.6	386.6	397.8	409.2	425.7	444.9	468.1
22.5°	329.5	333.8	343.4	352.4	363.9	375.0	386.6	399.9	415.7	436.0	459.7
25°	309.4	315.0	323.5	332.8	343.8	356.4	369.1	380.9	397.8	419.1	444.4
27.5°	291.5	296.0	302.2	312.7	325.2	337.4	350.0	364.9	381.1	403.7	429.9
30°	280.1	284.3	290.4	300.1	311.7	324.8	337.9	352.2	369.1	391.5	418.3
32.5°	270.9	274.1	279.6	288.3	298.9	312.6	325.6	340.4	358.1	380.1	406.3
35°	257.4	260.2	262.3	270.5	280.1	292.7	305.8	321.6	338.8	359.6	385.8
37.5°	244.2	245.2	248.3	253.7	262.9	274.6	286.7	302.3	319.8	341.0	364.6
40°	236.1	236.6	238.4	243.5	251.6	262.5	274.4	289.7	306.4	326.5	349.9
42.5°	228.2	227.9	229.7	233.3	240.8	250.7	262.3	276.4	293.1	311.7	333.7
45°	215.7	215.7	215.3	218.2	224.4	234.1	243.8	257.3	271.2	289.4	307.9
47.5°	202.6	201.4	201.8	203.3	208.5	216.4	226.2	237.3	249.6	264.9	281.2
50°	194.1	192.4	191.8	193.5	198.1	205.1	214.5	224.1	235.8	249.2	263.1
52.5°	184.9	183.2	182.0	183.2	187.5	193.9	202.4	211.0	221.4	232.4	244.4
55°	170.5	168.6	168.0	168.4	171.6	176.6	183.8	191.6	199.5	208.5	217.0
57.5°	156.4	153.3	152.7	152.5	154.6	159.3	165.3	172.0	177.7	183.2	192.3
60°	147.1	143.3	142.0	141.8	143.5	147.3	152.8	159.5	163.5	167.4	175.1
62.5°	137.1	133.5	130.7	131.0	132.5	136.2	141.0	145.9	148.6	152.7	157.9
65°	121.8	117.2	115.0	114.4	115.2	118.2	122.0	125.1	128.1	129.8	134.8
67.5°	106.4	102.5	99.4	98.6	98.3	100.3	103.4	105.3	107.5	108.9	111.9
70°	95.6	92.2	88.5	87.1	86.9	88.6	91.6	91.8	94.8	95.4	98.5
72.5°	85.0	80.7	78.1	76.9	76.0	77.5	79.5	80.0	81.6	82.8	84.4
75°	68.4	65.2	62.7	60.8	60.2	61.0	61.0	62.1	63.1	63.8	65.6
77.5°	53.9	50.2	47.2	46.1	45.3	44.8	45.2	45.9	45.4	46.5	46.9
80°	43.7	39.9	37.5	37.2	35.8	34.9	34.6	35.2	34.4	34.9	36.1
82.5°	33.7	31.3	28.8	28.4	26.8	26.2	26.0	25.6	25.6	25.5	25.8
85°	20.1	18.5	16.9	15.9	15.2	14.2	14.2	13.7	13.3	12.8	13.1
87.5°	10.5	10.0	9.0	8.3	7.8	7.0	6.7	6.0	5.5	5.1	4.7
90°	11.9	11.1	10.3	9.4	8.5	7.6	6.5	5.3	4.0	2.8	1.5
92.5°	11.5	10.8	9.9	9.0	8.1	7.1	6.7	6.6	6.5	6.5	6.4
95°	11.9	11.1	11.1	11.0	10.9	10.7	12.6	16.4	20.3	24.2	28.0
97.5°	13.5	13.5	26.0	38.7	51.3	63.8	69.0	66.6	64.2	61.8	59.4
100°	20.4	22.4	38.0	53.6	69.2	84.8	91.6	89.5	87.5	85.4	83.4
102.5°	87.1	107.8	109.9	111.9	114.0	116.0	116.3	114.8	113.2	111.7	110.3
105°	159.7	158.7	158.1	157.6	157.0	156.4	155.8	155.2	154.4	153.8	153.1
107.5°	198.4	197.9	197.1	196.4	195.6	194.7	194.2	193.9	193.6	193.2	192.9
110°	224.5	224.4	223.6	222.9	222.3	221.6	221.1	220.8	220.4	220.1	219.7



TEST NUMBER: P332499-940  
 CATALOG NUMBER: SA4XXDIP-C350D590U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	249.9	249.9	249.7	249.3	249.0	248.7	248.3	247.6	247.0	246.4	245.8
115°	287.1	286.9	287.0	287.1	287.2	287.3	287.2	286.9	286.5	286.2	285.9
117.5°	325.1	325.1	324.9	324.7	324.4	324.1	323.8	323.3	322.9	322.4	322.0
120°	348.1	347.9	348.0	348.1	348.3	348.4	348.2	347.8	347.3	346.9	346.4
122.5°	371.2	371.1	371.0	370.8	370.7	370.5	370.2	370.0	369.7	369.4	369.2
125°	403.2	402.9	403.1	403.3	403.5	403.8	403.7	403.2	402.8	402.3	401.8
127.5°	435.5	435.6	435.1	434.5	434.1	433.5	433.2	433.1	433.0	432.8	432.7
130°	454.9	454.8	454.4	454.1	453.7	453.3	453.2	453.1	452.9	452.8	452.7
132.5°	473.9	473.9	473.4	473.0	472.6	472.2	471.8	471.6	471.4	471.2	471.0
135°	500.2	500.0	499.5	499.1	498.6	498.2	498.0	498.1	498.3	498.4	498.5
137.5°	525.5	525.2	524.8	524.2	523.7	523.3	523.0	522.9	522.9	522.8	522.8
140°	541.0	540.7	540.5	540.3	540.0	539.8	539.6	539.3	539.1	538.9	538.7
142.5°	555.6	555.4	555.2	555.1	554.9	554.8	554.6	554.1	553.8	553.3	552.9
145°	576.4	576.3	576.3	576.3	576.3	576.3	576.1	575.8	575.4	575.2	574.8
147.5°	594.6	594.5	594.6	594.8	594.9	594.9	594.7	594.1	593.4	592.8	592.2
150°	606.3	606.3	606.5	606.5	606.6	606.8	606.6	606.2	605.7	605.2	604.8
152.5°	616.3	616.1	616.3	616.5	616.7	616.9	616.8	616.4	616.1	615.7	615.4
155°	629.6	629.2	629.5	629.9	630.3	630.5	630.7	630.5	630.4	630.4	630.3
157.5°	641.3	640.7	641.1	641.5	641.9	642.2	642.5	642.6	642.6	642.7	642.7
160°	648.7	648.0	648.1	648.3	648.4	648.5	648.7	649.1	649.3	649.7	650.1
162.5°	654.8	654.2	654.2	654.3	654.4	654.6	654.9	655.3	655.7	656.1	656.6
165°	663.2	662.3	662.3	662.3	662.3	662.3	662.5	663.1	663.7	664.2	664.8
167.5°	669.4	668.3	668.4	668.5	668.6	668.6	669.0	669.6	670.1	670.7	671.3
170°	673.3	672.4	672.3	672.2	672.1	672.0	672.3	673.0	673.6	674.3	675.0
172.5°	675.8	674.8	674.8	674.7	674.6	674.4	674.8	675.4	676.1	676.7	677.4
175°	678.5	677.5	677.4	677.3	677.2	677.1	677.3	678.1	678.7	679.4	680.1
177.5°	680.0	679.2	679.0	678.9	678.7	678.5	678.8	679.4	680.0	680.6	681.3
180°	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1



TEST NUMBER: P332499-940

CATALOG NUMBER: SA4XXDIP-C350D590U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4
2.5°	512.8	514.5	516.7	520.4	521.7	523.4	525.8	525.7	526.3	528.9	534.2
5°	514.7	521.3	527.6	535.2	543.2	548.5	555.6	560.1	564.5	570.2	580.0
7.5°	515.5	525.8	537.4	550.8	562.7	576.3	587.0	597.1	606.2	618.1	629.7
10°	514.3	528.2	543.2	560.1	578.0	593.3	607.0	622.6	635.9	650.4	663.5
12.5°	512.1	528.9	548.9	567.8	588.8	611.3	628.4	644.2	661.8	678.6	698.8
15°	507.1	530.1	553.6	578.5	606.5	632.5	657.2	677.6	696.6	721.8	748.1
17.5°	500.8	525.6	555.2	585.3	614.7	644.3	674.8	705.6	729.6	760.8	781.4
20°	494.9	523.6	554.0	589.9	619.2	656.1	686.5	716.2	749.2	780.2	804.9
22.5°	486.6	518.0	550.3	585.9	624.6	661.6	696.6	728.9	761.9	795.6	825.5
25°	476.1	504.6	542.8	583.3	621.7	661.8	702.1	742.6	778.1	813.8	841.6
27.5°	458.3	494.2	529.8	571.6	614.2	659.6	702.8	745.1	782.3	811.6	828.8
30°	449.1	480.4	519.0	561.0	607.2	655.9	700.9	742.4	777.0	800.5	807.4
32.5°	435.6	467.8	505.6	549.1	598.1	648.2	694.9	734.1	763.0	775.3	767.0
35°	415.5	444.7	482.9	527.4	578.3	631.6	677.9	711.0	725.8	714.2	685.3
37.5°	391.5	420.4	458.7	502.5	555.1	609.4	651.1	675.0	670.1	641.2	598.2
40°	374.6	401.6	438.1	485.4	536.6	591.1	627.9	640.7	627.2	585.9	540.0
42.5°	355.9	382.2	418.8	464.5	518.8	569.0	601.0	602.1	579.4	529.9	484.0
45°	327.3	352.4	387.0	434.5	484.7	532.0	553.1	542.8	501.0	453.3	407.1
47.5°	299.2	320.9	355.1	400.1	447.8	487.6	498.1	479.5	435.0	388.6	345.8
50°	278.6	300.5	332.6	375.7	421.7	456.0	461.1	436.4	392.7	346.1	312.5
52.5°	258.8	280.6	311.5	351.3	393.4	424.5	424.6	396.1	352.6	311.0	279.8
55°	229.8	249.4	277.3	313.0	350.5	374.8	368.9	339.4	301.6	265.5	238.3
57.5°	201.9	219.0	244.6	274.4	307.5	327.5	317.7	289.3	255.6	224.9	204.3
60°	183.8	200.1	222.0	250.1	277.9	293.6	284.3	258.5	227.5	202.8	184.9
62.5°	166.2	179.9	201.1	225.4	251.3	262.8	254.6	229.2	202.3	180.0	165.4
65°	141.4	152.6	169.4	190.4	209.1	219.1	212.1	188.4	168.0	151.9	140.4
67.5°	118.2	126.9	139.7	156.5	172.5	177.8	171.5	155.0	137.7	124.8	116.6
70°	102.1	110.4	121.1	134.0	147.9	153.6	147.3	134.2	120.1	108.3	100.2
72.5°	88.1	94.5	103.6	114.6	125.5	131.2	126.9	114.3	102.4	93.5	86.8
75°	67.1	72.6	78.9	86.8	95.1	99.0	95.1	86.5	78.3	71.8	66.9
77.5°	48.8	51.7	56.6	62.5	67.8	70.6	67.3	61.5	56.4	52.0	49.6
80°	37.2	39.2	42.6	47.3	50.8	53.6	51.5	46.6	42.6	39.7	38.6
82.5°	27.0	28.4	30.7	34.1	36.5	37.9	37.0	33.4	31.8	29.2	28.2
85°	13.3	14.2	15.6	16.7	18.8	19.0	19.2	17.7	16.2	15.6	14.8
87.5°	5.1	5.5	6.2	7.0	7.9	8.3	8.3	8.5	7.9	7.9	7.4
90°	2.8	4.0	5.3	6.5	7.6	8.5	9.4	10.3	11.1	11.9	12.6
92.5°	6.5	6.5	6.6	6.7	7.1	8.1	9.0	9.9	10.8	11.5	12.1
95°	24.2	20.3	16.4	12.6	10.7	10.9	11.0	11.1	11.1	11.9	12.6
97.5°	61.8	64.2	66.6	69.0	63.8	51.3	38.7	26.0	13.5	13.5	13.6
100°	85.4	87.5	89.5	91.6	84.8	69.2	53.6	38.0	22.4	20.4	18.5
102.5°	111.7	113.2	114.8	116.3	116.0	114.0	111.9	109.9	107.8	87.1	66.3
105°	153.8	154.4	155.2	155.8	156.4	157.0	157.6	158.1	158.7	159.7	160.8
107.5°	193.2	193.6	193.9	194.2	194.7	195.6	196.4	197.1	197.9	198.4	198.9
110°	220.1	220.4	220.8	221.1	221.6	222.3	222.9	223.6	224.4	224.5	224.8





TEST NUMBER: P332499-940

CATALOG NUMBER: SA4XXDIP-C350D590U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	246.4	247.0	247.6	248.3	248.7	249.0	249.3	249.7	249.9	249.9	249.9
115°	286.2	286.5	286.9	287.2	287.3	287.2	287.1	287.0	286.9	287.1	287.3
117.5°	322.4	322.9	323.3	323.8	324.1	324.4	324.7	324.9	325.1	325.1	325.0
120°	346.9	347.3	347.8	348.2	348.4	348.3	348.1	348.0	347.9	348.1	348.4
122.5°	369.4	369.7	370.0	370.2	370.5	370.7	370.8	371.0	371.1	371.2	371.4
125°	402.3	402.8	403.2	403.7	403.8	403.5	403.3	403.1	402.9	403.2	403.5
127.5°	432.8	433.0	433.1	433.2	433.5	434.1	434.5	435.1	435.6	435.5	435.5
130°	452.8	452.9	453.1	453.2	453.3	453.7	454.1	454.4	454.8	454.9	455.0
132.5°	471.2	471.4	471.6	471.8	472.2	472.6	473.0	473.4	473.9	473.9	474.1
135°	498.4	498.3	498.1	498.0	498.2	498.6	499.1	499.5	500.0	500.2	500.4
137.5°	522.8	522.9	522.9	523.0	523.3	523.7	524.2	524.8	525.2	525.5	525.8
140°	538.9	539.1	539.3	539.6	539.8	540.0	540.3	540.5	540.7	541.0	541.4
142.5°	553.3	553.8	554.1	554.6	554.8	554.9	555.1	555.2	555.4	555.6	555.8
145°	575.2	575.4	575.8	576.1	576.3	576.3	576.3	576.3	576.3	576.4	576.5
147.5°	592.8	593.4	594.1	594.7	594.9	594.9	594.8	594.6	594.5	594.6	594.7
150°	605.2	605.7	606.2	606.6	606.8	606.6	606.5	606.5	606.3	606.3	606.3
152.5°	615.7	616.1	616.4	616.8	616.9	616.7	616.5	616.3	616.1	616.3	616.4
155°	630.4	630.4	630.5	630.7	630.5	630.3	629.9	629.5	629.2	629.6	630.1
157.5°	642.7	642.6	642.6	642.5	642.2	641.9	641.5	641.1	640.7	641.3	641.9
160°	649.7	649.3	649.1	648.7	648.5	648.4	648.3	648.1	648.0	648.7	649.3
162.5°	656.1	655.7	655.3	654.9	654.6	654.4	654.3	654.2	654.2	654.8	655.5
165°	664.2	663.7	663.1	662.5	662.3	662.3	662.3	662.3	662.3	663.2	664.1
167.5°	670.7	670.1	669.6	669.0	668.6	668.6	668.5	668.4	668.3	669.4	670.4
170°	674.3	673.6	673.0	672.3	672.0	672.1	672.2	672.3	672.4	673.3	674.2
172.5°	676.7	676.1	675.4	674.8	674.4	674.6	674.7	674.8	674.8	675.8	676.7
175°	679.4	678.7	678.1	677.3	677.1	677.2	677.3	677.4	677.5	678.5	679.6
177.5°	680.6	680.0	679.4	678.8	678.5	678.7	678.9	679.0	679.2	680.0	680.7
180°	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1	680.1



TEST NUMBER: P332499-940  
 CATALOG NUMBER: SA4XXDIP-C350D590U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	509.4	509.4	509.4	509.4	509.4	509.4	509.4
2.5°	537.0	537.3	538.9	540.0	540.4	542.1	542.2
5°	584.2	587.7	594.7	595.3	596.4	601.9	597.6
7.5°	639.4	648.5	654.6	660.0	661.9	664.3	663.9
10°	674.9	688.4	695.2	706.0	706.3	709.1	707.4
12.5°	710.5	726.2	738.5	740.6	749.6	751.0	753.3
15°	761.0	777.7	794.8	800.9	813.3	816.3	820.9
17.5°	808.4	825.5	837.5	853.3	858.4	865.2	860.6
20°	834.5	853.0	868.3	880.7	885.9	889.7	889.3
22.5°	850.2	868.9	881.2	890.6	895.5	897.2	897.1
25°	860.0	870.8	874.6	878.2	872.6	870.8	871.6
27.5°	832.6	829.8	819.9	806.9	793.4	782.7	776.9
30°	795.0	778.6	763.6	737.4	723.9	715.9	708.6
32.5°	741.6	715.5	686.7	662.7	647.4	635.5	633.7
35°	650.2	611.0	575.7	546.4	531.2	518.4	515.3
37.5°	552.8	512.0	480.3	454.4	438.1	429.0	420.5
40°	488.1	453.1	421.9	399.9	387.4	380.9	375.7
42.5°	438.4	406.4	375.2	358.6	347.3	343.3	340.2
45°	369.5	339.7	318.3	305.6	299.1	292.3	289.1
47.5°	314.4	290.3	276.1	265.3	258.2	254.2	252.3
50°	283.2	263.4	250.7	242.5	236.1	233.0	231.3
52.5°	255.6	239.2	228.6	222.0	217.8	215.4	214.7
55°	220.1	207.7	200.9	195.2	192.1	189.9	189.1
57.5°	191.4	181.7	176.3	171.6	170.3	168.6	168.0
60°	172.5	165.1	160.4	157.2	156.1	154.1	154.4
62.5°	155.7	149.6	145.7	143.9	142.5	140.7	141.3
65°	131.7	127.2	125.1	123.5	121.8	120.7	121.5
67.5°	110.5	107.5	104.6	103.6	102.8	102.6	101.7
70°	96.7	94.2	91.6	91.0	91.0	90.2	89.9
72.5°	83.3	81.5	79.8	79.3	78.6	79.0	78.1
75°	64.4	62.9	62.2	61.6	61.4	61.4	60.8
77.5°	47.5	46.5	45.5	45.5	44.7	44.4	44.3
80°	36.1	35.7	34.9	34.9	34.4	34.6	34.2
82.5°	27.1	26.6	26.4	26.0	25.4	25.5	25.1
85°	14.5	13.9	13.7	13.1	12.7	13.1	12.7
87.5°	7.7	7.7	7.6	7.3	7.2	7.2	6.8
90°	13.2	13.9	14.4	14.6	14.8	15.1	15.2
92.5°	12.8	13.5	13.8	13.9	13.9	14.0	14.0
95°	13.2	13.9	14.3	14.4	14.5	14.6	14.7
97.5°	13.6	13.7	13.8	13.9	14.0	14.1	14.3
100°	16.6	14.7	13.8	13.9	14.0	14.1	14.3
102.5°	45.7	24.9	14.5	14.6	14.6	14.6	14.6
105°	161.8	162.7	161.2	157.2	153.1	149.0	145.0
107.5°	199.4	199.8	200.3	200.7	201.2	201.6	202.1
110°	225.0	225.2	225.5	225.9	226.1	226.5	226.9



TEST NUMBER: P332499-940

CATALOG NUMBER: SA4XXDIP-C350D590U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	249.9	249.8	249.9	250.4	250.8	251.3	251.6
115°	287.6	287.8	287.9	287.9	287.9	287.9	287.9
117.5°	325.0	324.9	324.9	324.9	324.9	324.8	324.8
120°	348.6	348.8	348.8	348.6	348.4	348.1	347.9
122.5°	371.5	371.7	371.6	371.4	371.1	371.0	370.7
125°	403.9	404.2	404.5	404.6	404.7	404.7	404.9
127.5°	435.4	435.3	435.2	435.2	435.1	435.0	434.9
130°	455.0	455.2	455.2	455.2	455.2	455.2	455.2
132.5°	474.2	474.3	474.3	474.2	474.1	474.0	473.9
135°	500.7	500.9	501.1	501.3	501.6	501.9	502.0
137.5°	526.0	526.2	526.3	526.3	526.2	526.1	526.0
140°	541.7	542.1	542.2	542.4	542.5	542.6	542.7
142.5°	556.1	556.3	556.5	556.5	556.5	556.5	556.6
145°	576.7	576.8	576.9	577.1	577.4	577.7	577.8
147.5°	594.8	594.9	594.9	595.1	595.2	595.3	595.4
150°	606.3	606.3	606.4	606.5	606.6	606.7	606.8
152.5°	616.6	616.8	616.9	616.8	616.7	616.6	616.6
155°	630.5	631.0	631.1	630.7	630.4	630.1	629.7
157.5°	642.5	643.0	643.0	642.5	641.9	641.3	640.7
160°	650.1	650.8	650.8	650.1	649.3	648.7	648.0
162.5°	656.1	656.8	656.8	656.0	655.2	654.5	653.7
165°	664.9	665.9	665.8	664.8	663.8	662.8	661.7
167.5°	671.4	672.3	672.3	671.2	670.0	668.9	667.8
170°	675.1	676.1	675.9	674.8	673.7	672.5	671.5
172.5°	677.6	678.5	678.3	677.2	675.9	674.7	673.4
175°	680.6	681.6	681.4	680.1	678.7	677.3	676.0
177.5°	681.4	682.2	682.0	680.9	679.8	678.7	677.6
180°	680.1	680.1	680.1	680.1	680.1	680.1	680.1

(END OF REPORT)