

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: P332873-940

Luminaire Tested: **SA4XXRDIP-C350D590U940-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P332873-940  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-18,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA4XXRDIP-C350D590U940-4F0-1E-UDD-A4  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 350 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 590 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

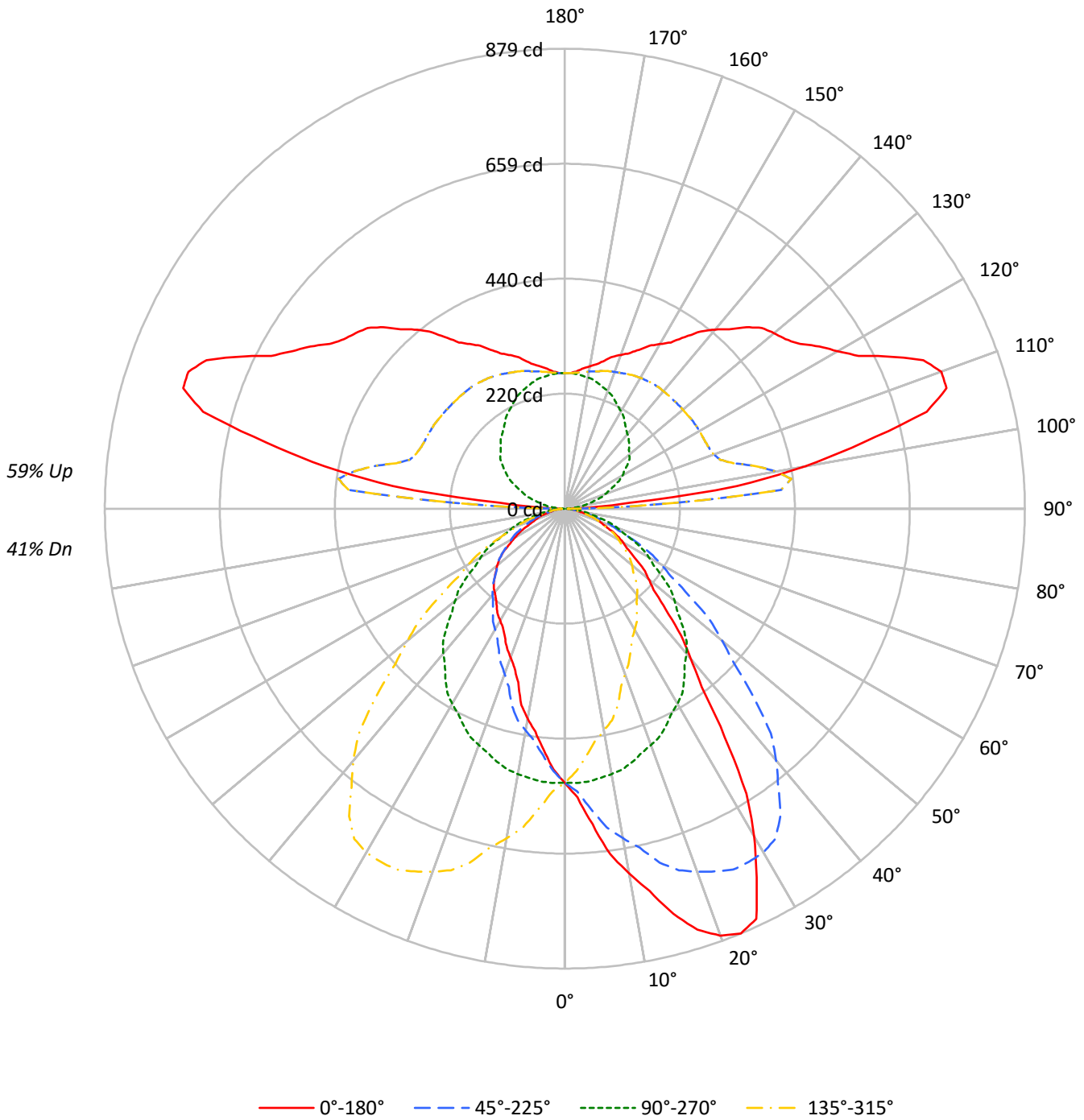
Lumens per Lamp: N/A  
Luminaire Lumens: 3208.5 lumens  
Efficiency: N/A  
Efficacy: 125.3 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39  
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')  
CIE Type: General Diffuse

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



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### Luminous Intensity Polar Plot





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

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	105	105	105	105	96	96	96	96	79	79	79	63	63	63	48	48	48	41				
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	36				
2	88	81	75	70	80	74	69	65	61	58	55	49	47	45	38	37	35	30				
3	80	71	64	59	73	65	59	54	54	50	46	44	41	38	34	32	31	26				
4	74	63	56	50	67	58	52	46	48	43	40	39	36	33	31	29	27	23				
5	68	56	49	43	62	52	45	40	43	38	34	35	32	29	28	25	23	20				
6	62	51	43	37	57	47	40	35	39	34	30	32	28	25	25	23	21	18				
7	58	46	38	33	53	42	35	31	36	30	27	29	25	22	23	21	18	16				
8	54	42	34	29	49	38	32	27	32	27	24	27	23	20	21	19	17	14				
9	50	38	31	26	45	35	29	24	30	25	21	25	21	18	20	17	15	13				
10	47	35	28	23	43	32	26	22	27	22	19	23	19	16	18	16	14	12				

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

	0°	90°	180°	270°
0°	4229	4229	4229	4229
5°	4905	4241	3749	4241
10°	5802	4223	3345	4223
15°	6702	4184	2875	4184
20°	7462	4130	2600	4130
25°	7704	4077	2414	4077
30°	6743	4013	2302	4013
35°	5249	3918	2234	3918
40°	3936	3810	2197	3810
45°	3108	3635	2177	3635
50°	2624	3435	2115	3435
55°	2287	3215	2001	3215
60°	2057	2985	1773	2985
65°	1815	2737	1524	2737
70°	1633	2481	1374	2481
75°	1369	2196	1170	2196
80°	1158	1874	1097	1874
85°	973	1473	973	1473



TEST NUMBER: P332873-940

CATALOG NUMBER: SA4XXRDIP-C350D590U940-4F0-1E-UDD-A4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.8	1.6
10°-20°	153.1	4.8
20°-30°	239.4	7.5
30°-40°	266.2	8.3
40°-50°	236.2	7.4
50°-60°	184.0	5.7
60°-70°	120.5	3.8
70°-80°	59.3	1.8
80°-90°	16.1	0.5
90°-100°	187.0	5.8
100°-110°	389.2	12.1
110°-120°	348.6	10.9
120°-130°	293.2	9.1
130°-140°	244.5	7.6
140°-150°	186.8	5.8
150°-160°	131.3	4.1
160°-170°	77.2	2.4
170°-180°	25.1	0.8
0°-30°	443.3	13.8
0°-40°	709.5	22.1
0°-60°	1129.7	35.2
0°-90°	1325.5	41.3
90°-120°	924.8	28.8
90°-150°	1649.4	51.4
90°-180°	1883.0	58.7
0°-180°	3208.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	524	524	524	524	524	
5°	605	523	463	523	605	61
15°	802	501	344	501	802	228
25°	865	458	271	458	865	384
35°	533	398	227	398	533	334
45°	272	318	191	318	272	216
55°	162	228	142	228	162	148
65°	95	143	80	143	95	96
75°	44	70	38	70	44	48
85°	10	16	10	16	10	12
90°	11	0	11	0	11	9
95°	124	17	124	17	124	193
105°	716	60	716	60	716	708
115°	687	105	687	105	687	682
125°	548	146	548	146	548	498
135°	490	173	490	173	490	379
145°	400	200	400	200	400	254
155°	335	227	335	227	335	156
165°	292	248	292	248	292	84
175°	264	258	264	258	264	26
180°	259	259	259	259	259	



TEST NUMBER: P332873-940

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8
2.5°	552.5	554.0	552.5	552.3	550.6	550.1	549.5	547.2	543.2	540.8	541.4
5°	605.3	610.6	607.6	607.2	602.5	597.9	594.9	588.2	580.9	576.1	572.1
7.5°	666.3	669.3	667.4	664.5	657.0	652.7	645.9	637.0	624.1	614.3	605.3
10°	707.8	710.3	709.5	704.0	698.6	687.3	681.0	668.6	652.3	639.4	627.4
12.5°	748.7	751.4	744.0	744.2	733.8	725.0	715.0	699.3	680.6	664.0	648.9
15°	801.9	798.5	798.5	794.3	782.7	770.5	760.2	743.7	720.1	700.3	679.3
17.5°	843.6	844.8	843.1	833.1	824.0	811.4	792.4	773.2	751.3	724.6	703.3
20°	868.6	868.6	866.7	860.0	848.2	834.6	814.2	793.3	765.4	738.6	714.6
22.5°	878.8	879.4	877.2	871.6	861.0	847.8	830.4	809.1	780.4	750.3	720.5
25°	864.9	868.9	869.2	867.8	864.6	856.6	841.6	819.9	794.2	761.4	729.3
27.5°	794.0	799.1	803.5	810.8	820.6	825.5	826.3	815.2	792.7	761.3	729.0
30°	723.4	727.6	741.4	759.3	773.2	785.9	796.9	799.9	787.2	758.9	725.0
32.5°	645.1	650.9	664.6	683.9	707.0	728.5	753.1	765.7	765.4	748.4	717.0
35°	532.6	536.9	549.6	569.8	597.6	629.5	668.6	698.9	719.6	718.2	698.9
37.5°	429.6	434.4	447.1	464.0	491.0	530.4	568.2	610.1	648.3	669.8	663.3
40°	373.5	373.7	386.2	403.5	428.8	463.2	504.4	550.8	593.4	628.3	635.0
42.5°	329.3	329.3	337.6	356.2	374.4	406.8	446.1	492.2	542.2	582.4	600.2
45°	272.2	274.1	280.9	292.0	306.4	333.9	365.3	408.1	464.0	511.8	541.5
47.5°	230.5	233.4	237.6	246.7	258.2	276.4	302.5	341.0	386.5	438.9	481.3
50°	208.9	209.4	214.8	219.9	229.8	244.4	267.2	299.3	341.1	391.5	438.5
52.5°	190.4	190.3	193.6	200.0	208.0	219.4	237.8	267.0	304.1	349.3	397.9
55°	162.5	163.5	166.1	171.1	177.3	185.3	199.8	221.8	250.9	289.5	333.7
57.5°	141.3	141.9	143.8	146.0	151.6	157.5	168.4	183.6	208.1	239.8	280.9
60°	127.4	127.7	128.3	131.4	135.9	141.4	148.8	161.7	182.4	211.2	243.8
62.5°	114.0	114.3	115.3	117.6	121.1	124.8	132.6	142.9	160.1	184.8	214.0
65°	95.0	95.1	96.7	97.5	100.2	103.6	109.3	116.3	128.1	148.8	170.9
67.5°	79.4	79.4	79.5	80.6	82.5	84.7	88.1	93.7	102.6	115.3	134.8
70°	69.2	69.2	69.6	70.3	71.3	73.2	75.2	79.4	85.9	96.2	111.2
72.5°	59.7	59.9	60.4	60.5	61.0	62.6	64.0	66.7	71.5	79.4	91.5
75°	43.9	44.5	45.6	46.5	47.5	47.3	48.8	50.5	51.9	56.5	63.5
77.5°	32.6	32.4	32.5	33.2	33.3	33.5	34.6	35.8	37.0	39.1	41.6
80°	24.9	24.9	25.5	25.8	25.5	25.8	26.8	27.5	27.8	28.7	31.0
82.5°	18.8	19.2	19.0	19.2	19.3	19.5	20.4	20.5	21.0	21.3	22.2
85°	10.5	10.8	11.0	10.5	10.5	10.5	11.0	11.1	11.6	11.4	11.9
87.5°	5.9	5.7	6.0	5.9	5.9	5.7	5.8	6.1	5.6	5.9	5.7
90°	10.7	10.7	11.1	10.7	10.2	10.2	9.6	9.2	8.6	9.2	8.1
92.5°	39.1	39.1	40.9	43.6	49.7	59.8	75.2	99.9	134.4	161.3	141.2
95°	124.1	130.7	139.9	155.7	180.6	229.9	298.1	376.9	426.2	414.6	312.8
97.5°	331.7	342.3	357.6	388.3	424.7	477.9	527.6	556.9	535.6	436.7	292.8
100°	466.5	470.6	485.8	516.8	561.1	598.7	623.7	613.5	539.2	408.9	265.6
102.5°	583.6	586.9	603.0	625.4	652.6	668.3	661.1	610.6	508.6	374.4	247.2
105°	715.7	718.7	725.9	730.0	729.0	708.1	657.7	569.7	453.3	333.7	231.5
107.5°	764.7	763.4	758.3	746.7	721.6	676.3	605.3	511.7	408.5	310.9	228.6
110°	765.5	761.0	751.8	730.5	694.4	638.4	564.6	476.6	386.1	303.2	229.4



TEST NUMBER: P332873-940

CATALOG NUMBER: SA4XXRDIP-C350D590U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	741.5	734.1	721.3	695.4	654.4	598.5	528.8	451.0	373.4	299.5	231.8
115°	687.2	683.1	666.9	636.3	596.2	547.3	487.9	425.3	361.7	297.6	236.6
117.5°	632.2	629.0	612.5	586.9	552.6	511.2	464.4	412.6	356.4	297.0	241.5
120°	601.3	595.7	582.5	560.1	531.0	494.9	454.2	407.0	353.6	297.0	245.2
122.5°	576.8	571.2	560.1	540.9	516.4	484.7	447.7	402.1	350.3	296.7	248.9
125°	548.3	545.3	535.7	520.8	500.5	472.5	437.5	393.7	344.9	296.0	254.3
127.5°	531.6	528.6	520.5	507.4	486.9	460.4	425.3	383.5	337.7	294.9	258.7
130°	521.9	518.9	510.7	498.0	477.2	450.1	415.6	375.4	333.1	294.5	262.0
132.5°	511.0	507.8	500.2	485.8	465.3	438.4	404.6	366.8	329.1	294.1	264.8
135°	490.4	487.3	479.2	464.9	444.6	419.1	388.2	355.1	323.0	293.5	269.1
137.5°	464.9	461.3	454.6	440.5	421.5	398.5	372.4	344.4	317.7	293.4	271.6
140°	446.7	442.6	435.4	424.3	406.4	385.0	362.2	338.2	314.9	293.0	273.7
142.5°	427.0	424.3	417.9	407.5	391.8	373.3	353.7	332.6	312.5	293.0	275.3
145°	400.3	397.8	392.7	384.1	371.3	357.1	341.8	324.5	308.3	291.9	276.3
147.5°	376.7	375.7	371.8	364.4	355.1	343.8	331.6	317.9	304.5	290.2	276.7
150°	363.2	362.7	359.6	353.0	344.9	335.7	325.6	313.9	301.7	288.9	276.7
152.5°	351.0	350.4	348.7	343.2	336.4	328.8	319.4	309.3	298.4	286.9	275.9
155°	335.2	335.2	333.7	329.7	324.5	318.4	310.8	302.6	293.5	283.8	274.6
157.5°	321.4	321.4	320.5	317.4	313.5	308.6	302.3	295.4	288.6	280.7	273.4
160°	312.8	312.8	312.4	309.2	306.2	302.1	296.6	291.0	284.9	278.2	272.2
162.5°	304.7	305.1	304.6	301.6	299.3	295.6	291.2	286.5	281.6	275.8	270.9
165°	292.5	293.0	293.5	291.5	289.4	286.9	283.3	280.3	276.3	272.2	268.6
167.5°	282.9	283.2	283.3	282.0	281.0	279.5	276.6	274.3	271.3	268.5	266.2
170°	276.7	276.7	277.2	276.7	275.7	274.2	272.2	270.6	268.0	266.0	264.5
172.5°	270.6	271.4	272.0	271.4	270.8	269.7	268.5	267.3	265.2	263.6	262.9
175°	263.5	264.5	265.6	264.5	264.5	264.5	263.5	263.0	262.0	260.9	260.9
177.5°	259.3	260.1	260.9	260.6	260.9	260.6	260.6	260.1	259.8	259.3	259.3
180°	259.0	259.0	259.0	259.0	259.0	259.0	259.0	259.0	259.0	259.0	259.0



TEST NUMBER: P332873-940

CATALOG NUMBER: SA4XXRDIP-C350D590U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8
2.5°	539.7	537.3	536.1	533.4	530.2	528.5	527.0	524.8	521.9	518.9	516.7
5°	567.0	562.0	555.6	548.0	541.4	534.8	529.1	523.3	516.8	510.1	503.4
7.5°	595.1	585.2	574.4	562.0	549.9	538.9	528.7	519.1	508.1	498.2	489.3
10°	614.7	601.3	586.3	570.4	554.6	540.9	527.4	515.1	501.7	489.6	479.5
12.5°	630.6	614.7	596.7	577.0	557.9	541.4	525.8	509.9	494.5	481.5	468.0
15°	656.9	635.3	611.0	587.3	562.7	540.0	519.2	500.6	483.0	464.7	451.8
17.5°	675.1	649.3	619.7	591.4	562.2	535.6	511.5	489.4	469.1	450.4	435.1
20°	685.9	657.4	624.6	592.4	559.6	531.2	505.2	480.7	459.9	439.6	423.7
22.5°	692.0	660.4	624.6	590.8	557.0	526.1	497.7	472.2	449.4	429.1	411.6
25°	693.9	660.1	623.7	584.8	547.7	515.0	485.4	457.7	432.4	412.1	393.6
27.5°	691.2	651.4	614.0	574.2	535.8	501.4	470.4	441.3	416.0	394.2	375.1
30°	687.2	644.5	604.4	563.0	524.2	491.1	458.3	430.5	404.1	381.6	362.4
32.5°	678.3	636.1	592.9	550.5	511.2	477.1	446.0	418.0	392.2	369.1	348.7
35°	660.9	618.1	571.3	527.8	489.2	453.7	424.6	397.6	372.9	348.2	326.7
37.5°	638.0	594.3	547.7	500.1	461.4	427.9	401.3	375.9	351.8	329.2	305.4
40°	616.4	576.6	528.4	481.2	441.5	409.2	384.5	361.5	337.2	314.9	291.1
42.5°	590.3	556.3	507.7	460.2	421.1	389.9	366.9	344.5	322.4	300.7	275.8
45°	546.6	520.8	475.3	429.7	390.2	359.4	338.3	318.4	299.1	278.4	254.9
47.5°	496.5	479.1	439.8	393.1	356.6	328.9	308.4	292.2	275.8	255.1	234.6
50°	461.7	450.6	412.6	370.0	335.1	309.6	288.7	273.5	259.8	240.0	221.6
52.5°	424.6	418.7	386.6	345.8	312.2	287.1	269.3	255.7	241.7	225.2	208.1
55°	368.0	371.2	344.0	308.7	277.1	256.0	239.8	228.4	216.5	202.6	189.3
57.5°	310.2	321.8	303.5	272.6	242.9	223.4	211.2	201.6	191.6	180.1	168.7
60°	275.6	285.3	275.0	247.7	221.8	203.7	192.3	184.9	175.0	164.4	155.8
62.5°	241.8	252.3	246.1	224.1	200.0	184.4	174.3	167.5	160.1	150.9	141.9
65°	199.5	206.2	203.2	188.1	170.9	157.7	148.4	143.3	136.5	129.8	121.8
67.5°	152.8	165.8	164.1	156.0	141.2	130.8	124.8	120.3	114.1	109.1	103.7
70°	125.6	137.6	137.4	130.8	122.8	113.2	108.9	105.1	99.6	94.8	90.3
72.5°	102.8	113.8	115.5	110.4	105.0	97.6	93.5	91.0	85.6	82.3	78.6
75°	72.0	80.0	82.1	82.1	79.5	75.8	72.1	70.4	66.7	63.8	61.6
77.5°	47.2	52.3	55.6	56.3	56.7	55.4	52.4	51.3	48.3	47.3	45.3
80°	33.3	36.7	40.5	41.8	42.8	42.4	41.2	40.3	37.5	36.5	35.7
82.5°	23.0	24.9	28.0	30.9	30.5	31.7	30.5	29.9	27.7	27.4	26.6
85°	12.0	12.2	12.7	14.5	15.6	16.1	16.2	15.9	15.2	15.2	13.7
87.5°	5.4	5.4	5.0	5.0	5.1	5.7	5.9	5.9	5.5	5.4	4.9
90°	7.1	7.1	4.1	4.1	3.6	3.0	1.5	0.5	1.5	3.0	3.6
92.5°	102.7	63.3	37.5	26.8	19.4	13.2	8.5	5.8	8.5	13.2	19.4
95°	191.3	107.8	63.6	42.2	30.1	23.4	18.3	16.8	18.3	23.4	30.1
97.5°	171.9	103.1	69.0	51.1	40.6	34.5	30.1	30.1	30.1	34.5	40.6
100°	161.8	104.2	74.3	58.0	48.3	42.2	38.7	38.7	38.7	42.2	48.3
102.5°	158.9	108.3	81.1	65.7	56.4	50.7	47.6	46.8	47.6	50.7	56.4
105°	160.2	118.0	93.6	78.8	69.7	63.6	61.1	59.5	61.1	63.6	69.7
107.5°	167.7	129.3	106.9	92.4	83.6	77.1	74.5	73.6	74.5	77.1	83.6
110°	173.4	137.9	115.5	101.7	92.6	86.5	83.9	82.9	83.9	86.5	92.6





TEST NUMBER: P332873-940

CATALOG NUMBER: SA4XXRDIP-C350D590U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	179.6	146.0	124.4	110.7	101.6	95.9	92.9	91.8	92.9	95.9	101.6
115°	189.2	158.7	138.4	124.7	114.9	109.9	106.3	104.8	106.3	109.9	114.9
117.5°	199.1	171.0	151.7	137.4	128.4	122.8	119.7	118.2	119.7	122.8	128.4
120°	206.0	179.6	160.2	146.0	137.3	131.7	128.2	127.2	128.2	131.7	137.3
122.5°	212.5	187.7	168.4	154.5	145.1	139.9	136.3	135.3	136.3	139.9	145.1
125°	222.3	198.9	180.6	166.3	156.7	151.1	148.0	146.0	148.0	151.1	156.7
127.5°	230.8	209.3	191.5	177.2	167.1	160.8	157.1	155.4	157.1	160.8	167.1
130°	236.0	216.2	198.9	184.1	174.5	166.8	162.7	160.8	162.7	166.8	174.5
132.5°	241.3	221.9	204.6	190.6	180.2	173.0	167.6	166.0	167.6	173.0	180.2
135°	248.3	229.9	213.1	199.9	189.2	180.6	175.5	173.4	175.5	180.6	189.2
137.5°	253.2	236.0	220.3	207.8	196.6	188.4	182.8	180.9	182.8	188.4	196.6
140°	256.4	240.1	224.8	212.6	202.0	193.3	187.7	186.2	187.7	193.3	202.0
142.5°	258.8	243.8	228.9	217.1	206.8	198.6	193.4	191.9	193.4	198.6	206.8
145°	261.4	247.7	234.5	223.3	213.7	206.5	201.4	199.9	201.4	206.5	213.7
147.5°	263.8	251.8	239.4	229.3	221.2	213.9	209.5	208.9	209.5	213.9	221.2
150°	265.0	253.9	242.6	233.0	225.3	219.3	215.2	214.6	215.2	219.3	225.3
152.5°	265.8	255.5	245.5	236.7	229.8	224.1	220.1	220.0	220.1	224.1	229.8
155°	266.5	257.9	249.2	241.7	236.0	231.0	227.9	227.4	227.9	231.0	236.0
157.5°	266.5	259.7	252.3	246.3	241.4	237.5	234.6	234.6	234.6	237.5	241.4
160°	266.5	260.5	254.3	248.7	244.7	241.1	239.1	239.1	239.1	241.1	244.7
162.5°	266.5	261.3	255.6	251.2	247.5	244.3	242.7	243.2	242.7	244.3	247.5
165°	265.6	261.4	256.9	253.9	251.3	248.7	247.7	247.7	247.7	248.7	251.3
167.5°	264.3	261.4	258.0	255.7	254.2	252.3	251.8	252.3	251.8	252.3	254.2
170°	263.5	260.9	258.4	256.9	255.8	254.3	253.9	254.3	253.9	254.3	255.8
172.5°	262.7	260.6	258.8	257.7	257.1	255.9	255.8	256.4	255.8	255.9	257.1
175°	261.4	259.9	259.0	259.0	258.4	257.9	257.9	258.4	257.9	257.9	258.4
177.5°	260.1	259.3	259.0	259.0	259.0	258.5	259.0	259.3	259.0	258.5	259.0
180°	259.0	259.0	259.0	259.0	259.0	259.0	259.0	259.0	259.0	259.0	259.0



TEST NUMBER: P332873-940

CATALOG NUMBER: SA4XXRDIP-C350D590U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8
2.5°	514.3	512.6	510.5	507.9	504.9	502.2	501.0	502.0	502.6	501.1	501.0
5°	498.6	493.4	489.2	482.9	477.8	473.6	470.6	469.3	469.8	466.4	465.6
7.5°	481.1	474.8	467.9	460.4	453.4	447.2	444.0	442.2	438.5	437.0	434.4
10°	469.8	461.4	454.6	445.7	437.7	430.3	426.7	423.7	420.2	418.5	414.9
12.5°	458.2	448.4	440.9	431.7	423.5	414.6	411.2	405.7	400.1	396.5	391.9
15°	441.7	429.9	420.8	409.8	400.1	390.0	380.9	370.8	367.0	359.0	354.4
17.5°	422.5	410.5	399.3	384.6	369.6	357.0	347.3	337.6	331.8	326.7	324.3
20°	409.8	398.9	383.3	366.1	349.5	335.6	327.7	321.4	315.0	311.5	309.0
22.5°	397.9	383.8	365.7	347.2	330.6	319.7	313.1	306.6	301.4	298.0	294.6
25°	377.7	359.4	340.2	319.1	307.7	298.2	291.1	285.7	282.6	278.1	276.4
27.5°	357.1	334.8	313.7	299.5	287.7	278.9	272.7	268.8	264.7	261.9	259.7
30°	341.3	318.7	299.7	286.1	274.1	267.0	261.9	257.3	254.0	251.7	250.1
32.5°	325.6	303.0	287.0	272.5	263.0	256.0	250.6	247.1	244.6	241.7	240.6
35°	302.8	282.8	268.9	255.7	246.1	239.8	235.5	231.9	229.8	229.0	228.4
37.5°	281.0	264.6	249.6	238.9	230.2	225.2	220.3	218.5	217.0	215.5	216.2
40°	267.2	251.7	238.4	227.1	220.1	214.6	211.7	209.6	208.3	208.3	208.3
42.5°	255.2	240.1	227.1	217.0	210.0	205.4	202.1	200.3	199.8	199.7	200.7
45°	236.6	222.7	209.6	201.1	195.2	190.6	188.7	187.2	187.2	188.1	188.2
47.5°	218.1	205.1	194.6	185.1	179.7	176.8	175.1	174.4	174.5	175.3	176.3
50°	206.8	193.9	183.6	175.1	170.1	167.4	165.9	165.4	165.9	165.9	167.4
52.5°	194.5	183.0	172.8	165.7	160.0	157.4	156.6	156.0	156.2	156.9	157.6
55°	176.5	166.1	156.4	149.6	145.4	143.7	141.8	142.0	141.6	142.0	142.0
57.5°	158.3	149.0	140.0	134.6	130.9	128.5	126.4	127.0	126.4	126.3	125.9
60°	146.7	136.5	129.4	124.5	120.3	118.2	116.3	116.7	116.1	115.7	114.8
62.5°	134.0	125.6	118.7	114.0	110.7	108.3	106.3	105.9	104.4	103.0	101.1
65°	115.7	108.7	102.5	98.2	95.0	93.1	91.6	90.3	87.1	83.8	82.1
67.5°	97.8	92.7	87.0	83.3	80.7	78.3	75.4	73.3	70.4	68.5	67.4
70°	86.3	81.5	76.6	73.0	70.3	67.9	64.8	63.3	61.2	60.4	59.3
72.5°	75.3	70.8	66.3	63.0	60.2	58.3	55.8	54.4	53.4	53.1	52.1
75°	58.7	55.1	51.7	48.8	46.5	45.1	44.1	43.1	42.6	40.8	39.7
77.5°	42.8	40.4	38.3	36.2	34.6	33.7	31.7	30.5	29.8	28.9	28.6
80°	33.3	31.7	29.5	28.3	25.9	25.1	24.3	24.1	23.8	23.6	23.5
82.5°	25.1	23.4	21.3	20.5	19.9	19.4	18.9	18.6	18.5	18.5	18.5
85°	12.7	11.9	11.9	11.6	11.4	11.1	11.0	11.0	10.8	11.0	10.8
87.5°	5.0	4.9	5.4	5.2	5.5	5.7	5.4	5.5	5.8	5.6	5.6
90°	4.1	4.1	7.1	7.1	8.1	9.2	8.6	9.2	9.6	10.2	10.2
92.5°	26.8	37.5	63.3	102.7	141.2	161.3	134.4	99.9	75.2	59.8	49.7
95°	42.2	63.6	107.8	191.3	312.8	414.6	426.2	376.9	298.1	229.9	180.6
97.5°	51.1	69.0	103.1	171.9	292.8	436.7	535.6	556.9	527.6	477.9	424.7
100°	58.0	74.3	104.2	161.8	265.6	408.9	539.2	613.5	623.7	598.7	561.1
102.5°	65.7	81.1	108.3	158.9	247.2	374.4	508.6	610.6	661.1	668.3	652.6
105°	78.8	93.6	118.0	160.2	231.5	333.7	453.3	569.7	657.7	708.1	729.0
107.5°	92.4	106.9	129.3	167.7	228.6	310.9	408.5	511.7	605.3	676.3	721.6
110°	101.7	115.5	137.9	173.4	229.4	303.2	386.1	476.6	564.6	638.4	694.4



TEST NUMBER: P332873-940

CATALOG NUMBER: SA4XXRDIP-C350D590U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	110.7	124.4	146.0	179.6	231.8	299.5	373.4	451.0	528.8	598.5	654.4
115°	124.7	138.4	158.7	189.2	236.6	297.6	361.7	425.3	487.9	547.3	596.2
117.5°	137.4	151.7	171.0	199.1	241.5	297.0	356.4	412.6	464.4	511.2	552.6
120°	146.0	160.2	179.6	206.0	245.2	297.0	353.6	407.0	454.2	494.9	531.0
122.5°	154.5	168.4	187.7	212.5	248.9	296.7	350.3	402.1	447.7	484.7	516.4
125°	166.3	180.6	198.9	222.3	254.3	296.0	344.9	393.7	437.5	472.5	500.5
127.5°	177.2	191.5	209.3	230.8	258.7	294.9	337.7	383.5	425.3	460.4	486.9
130°	184.1	198.9	216.2	236.0	262.0	294.5	333.1	375.4	415.6	450.1	477.2
132.5°	190.6	204.6	221.9	241.3	264.8	294.1	329.1	366.8	404.6	438.4	465.3
135°	199.9	213.1	229.9	248.3	269.1	293.5	323.0	355.1	388.2	419.1	444.6
137.5°	207.8	220.3	236.0	253.2	271.6	293.4	317.7	344.4	372.4	398.5	421.5
140°	212.6	224.8	240.1	256.4	273.7	293.0	314.9	338.2	362.2	385.0	406.4
142.5°	217.1	228.9	243.8	258.8	275.3	293.0	312.5	332.6	353.7	373.3	391.8
145°	223.3	234.5	247.7	261.4	276.3	291.9	308.3	324.5	341.8	357.1	371.3
147.5°	229.3	239.4	251.8	263.8	276.7	290.2	304.5	317.9	331.6	343.8	355.1
150°	233.0	242.6	253.9	265.0	276.7	288.9	301.7	313.9	325.6	335.7	344.9
152.5°	236.7	245.5	255.5	265.8	275.9	286.9	298.4	309.3	319.4	328.8	336.4
155°	241.7	249.2	257.9	266.5	274.6	283.8	293.5	302.6	310.8	318.4	324.5
157.5°	246.3	252.3	259.7	266.5	273.4	280.7	288.6	295.4	302.3	308.6	313.5
160°	248.7	254.3	260.5	266.5	272.2	278.2	284.9	291.0	296.6	302.1	306.2
162.5°	251.2	255.6	261.3	266.5	270.9	275.8	281.6	286.5	291.2	295.6	299.3
165°	253.9	256.9	261.4	265.6	268.6	272.2	276.3	280.3	283.3	286.9	289.4
167.5°	255.7	258.0	261.4	264.3	266.2	268.5	271.3	274.3	276.6	279.5	281.0
170°	256.9	258.4	260.9	263.5	264.5	266.0	268.0	270.6	272.2	274.2	275.7
172.5°	257.7	258.8	260.6	262.7	262.9	263.6	265.2	267.3	268.5	269.7	270.8
175°	259.0	259.0	259.9	261.4	260.9	260.9	262.0	263.0	263.5	264.5	264.5
177.5°	259.0	259.0	259.3	260.1	259.3	259.3	259.8	260.1	260.6	260.6	260.9
180°	259.0	259.0	259.0	259.0	259.0	259.0	259.0	259.0	259.0	259.0	259.0



TEST NUMBER: P332873-940

CATALOG NUMBER: SA4XXRDIP-C350D590U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8
2.5°	500.0	500.3	499.2	498.8	499.2	500.3	500.0	501.0	501.1	502.6	502.0
5°	463.9	463.4	462.4	462.6	462.4	463.4	463.9	465.6	466.4	469.8	469.3
7.5°	432.9	431.3	431.8	430.1	431.8	431.3	432.9	434.4	437.0	438.5	442.2
10°	414.0	411.7	409.8	408.1	409.8	411.7	414.0	414.9	418.5	420.2	423.7
12.5°	388.3	386.2	383.7	384.1	383.7	386.2	388.3	391.9	396.5	400.1	405.7
15°	351.6	348.4	343.4	344.0	343.4	348.4	351.6	354.4	359.0	367.0	370.8
17.5°	320.6	320.6	318.3	318.9	318.3	320.6	320.6	324.3	326.7	331.8	337.6
20°	304.5	303.1	303.3	302.6	303.3	303.1	304.5	309.0	311.5	315.0	321.4
22.5°	293.4	291.6	290.1	288.8	290.1	291.6	293.4	294.6	298.0	301.4	306.6
25°	274.6	273.3	271.4	271.0	271.4	273.3	274.6	276.4	278.1	282.6	285.7
27.5°	258.0	257.8	257.0	256.0	257.0	257.8	258.0	259.7	261.9	264.7	268.8
30°	248.4	248.0	247.5	246.9	247.5	248.0	248.4	250.1	251.7	254.0	257.3
32.5°	239.8	239.5	239.1	239.2	239.1	239.5	239.8	240.6	241.7	244.6	247.1
35°	227.5	227.3	226.9	226.7	226.9	227.3	227.5	228.4	229.0	229.8	231.9
37.5°	216.1	216.6	216.3	216.2	216.3	216.6	216.1	216.2	215.5	217.0	218.5
40°	208.1	208.3	208.7	208.5	208.7	208.3	208.1	208.3	208.3	208.3	209.6
42.5°	201.5	201.5	202.2	201.4	202.2	201.5	201.5	200.7	199.7	199.8	200.3
45°	189.8	191.0	190.7	190.7	190.7	191.0	189.8	188.2	188.1	187.2	187.2
47.5°	176.8	178.0	178.3	178.2	178.3	178.0	176.8	176.3	175.3	174.5	174.4
50°	168.4	168.0	168.6	168.4	168.6	168.0	168.4	167.4	165.9	165.9	165.4
52.5°	158.1	158.2	158.2	157.9	158.2	158.2	158.1	157.6	156.9	156.2	156.0
55°	142.2	142.5	142.0	142.2	142.0	142.5	142.2	142.0	142.0	141.6	142.0
57.5°	125.0	124.0	124.4	123.9	124.4	124.0	125.0	125.9	126.3	126.4	127.0
60°	112.7	111.0	110.6	109.8	110.6	111.0	112.7	114.8	115.7	116.1	116.7
62.5°	98.9	97.6	96.2	96.9	96.2	97.6	98.9	101.1	103.0	104.4	105.9
65°	80.4	79.5	78.9	79.8	78.9	79.5	80.4	82.1	83.8	87.1	90.3
67.5°	66.5	66.1	66.1	65.7	66.1	66.1	66.5	67.4	68.5	70.4	73.3
70°	59.3	58.7	58.7	58.2	58.7	58.7	59.3	59.3	60.4	61.2	63.3
72.5°	51.9	51.3	51.5	51.2	51.5	51.3	51.9	52.1	53.1	53.4	54.4
75°	38.4	37.4	37.4	37.5	37.4	37.4	38.4	39.7	40.8	42.6	43.1
77.5°	28.6	28.4	28.7	28.4	28.7	28.4	28.6	28.6	28.9	29.8	30.5
80°	23.5	23.2	23.0	23.6	23.0	23.2	23.5	23.5	23.6	23.8	24.1
82.5°	18.2	18.2	18.1	18.9	18.1	18.2	18.2	18.5	18.5	18.5	18.6
85°	11.0	10.5	11.0	10.5	11.0	10.5	11.0	10.8	11.0	10.8	11.0
87.5°	6.1	6.0	5.7	5.9	5.7	6.0	6.1	5.6	5.6	5.8	5.5
90°	10.7	11.1	10.7	10.7	10.7	11.1	10.7	10.2	10.2	9.6	9.2
92.5°	43.6	40.9	39.1	39.1	39.1	40.9	43.6	49.7	59.8	75.2	99.9
95°	155.7	139.9	130.7	124.1	130.7	139.9	155.7	180.6	229.9	298.1	376.9
97.5°	388.3	357.6	342.3	331.7	342.3	357.6	388.3	424.7	477.9	527.6	556.9
100°	516.8	485.8	470.6	466.5	470.6	485.8	516.8	561.1	598.7	623.7	613.5
102.5°	625.4	603.0	586.9	583.6	586.9	603.0	625.4	652.6	668.3	661.1	610.6
105°	730.0	725.9	718.7	715.7	718.7	725.9	730.0	729.0	708.1	657.7	569.7
107.5°	746.7	758.3	763.4	764.7	763.4	758.3	746.7	721.6	676.3	605.3	511.7
110°	730.5	751.8	761.0	765.5	761.0	751.8	730.5	694.4	638.4	564.6	476.6



TEST NUMBER: P332873-940

CATALOG NUMBER: SA4XXRDIP-C350D590U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	695.4	721.3	734.1	741.5	734.1	721.3	695.4	654.4	598.5	528.8	451.0
115°	636.3	666.9	683.1	687.2	683.1	666.9	636.3	596.2	547.3	487.9	425.3
117.5°	586.9	612.5	629.0	632.2	629.0	612.5	586.9	552.6	511.2	464.4	412.6
120°	560.1	582.5	595.7	601.3	595.7	582.5	560.1	531.0	494.9	454.2	407.0
122.5°	540.9	560.1	571.2	576.8	571.2	560.1	540.9	516.4	484.7	447.7	402.1
125°	520.8	535.7	545.3	548.3	545.3	535.7	520.8	500.5	472.5	437.5	393.7
127.5°	507.4	520.5	528.6	531.6	528.6	520.5	507.4	486.9	460.4	425.3	383.5
130°	498.0	510.7	518.9	521.9	518.9	510.7	498.0	477.2	450.1	415.6	375.4
132.5°	485.8	500.2	507.8	511.0	507.8	500.2	485.8	465.3	438.4	404.6	366.8
135°	464.9	479.2	487.3	490.4	487.3	479.2	464.9	444.6	419.1	388.2	355.1
137.5°	440.5	454.6	461.3	464.9	461.3	454.6	440.5	421.5	398.5	372.4	344.4
140°	424.3	435.4	442.6	446.7	442.6	435.4	424.3	406.4	385.0	362.2	338.2
142.5°	407.5	417.9	424.3	427.0	424.3	417.9	407.5	391.8	373.3	353.7	332.6
145°	384.1	392.7	397.8	400.3	397.8	392.7	384.1	371.3	357.1	341.8	324.5
147.5°	364.4	371.8	375.7	376.7	375.7	371.8	364.4	355.1	343.8	331.6	317.9
150°	353.0	359.6	362.7	363.2	362.7	359.6	353.0	344.9	335.7	325.6	313.9
152.5°	343.2	348.7	350.4	351.0	350.4	348.7	343.2	336.4	328.8	319.4	309.3
155°	329.7	333.7	335.2	335.2	335.2	333.7	329.7	324.5	318.4	310.8	302.6
157.5°	317.4	320.5	321.4	321.4	321.4	320.5	317.4	313.5	308.6	302.3	295.4
160°	309.2	312.4	312.8	312.8	312.8	312.4	309.2	306.2	302.1	296.6	291.0
162.5°	301.6	304.6	305.1	304.7	305.1	304.6	301.6	299.3	295.6	291.2	286.5
165°	291.5	293.5	293.0	292.5	293.0	293.5	291.5	289.4	286.9	283.3	280.3
167.5°	282.0	283.3	283.2	282.9	283.2	283.3	282.0	281.0	279.5	276.6	274.3
170°	276.7	277.2	276.7	276.7	276.7	277.2	276.7	275.7	274.2	272.2	270.6
172.5°	271.4	272.0	271.4	270.6	271.4	272.0	271.4	270.8	269.7	268.5	267.3
175°	264.5	265.6	264.5	263.5	264.5	265.6	264.5	264.5	264.5	263.5	263.0
177.5°	260.6	260.9	260.1	259.3	260.1	260.9	260.6	260.9	260.6	260.6	260.1
180°	259.0	259.0	259.0	259.0	259.0	259.0	259.0	259.0	259.0	259.0	259.0



TEST NUMBER: P332873-940

CATALOG NUMBER: SA4XXRDIP-C350D590U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8
2.5°	501.0	502.2	504.9	507.9	510.5	512.6	514.3	516.7	518.9	521.9	524.8
5°	470.6	473.6	477.8	482.9	489.2	493.4	498.6	503.4	510.1	516.8	523.3
7.5°	444.0	447.2	453.4	460.4	467.9	474.8	481.1	489.3	498.2	508.1	519.1
10°	426.7	430.3	437.7	445.7	454.6	461.4	469.8	479.5	489.6	501.7	515.1
12.5°	411.2	414.6	423.5	431.7	440.9	448.4	458.2	468.0	481.5	494.5	509.9
15°	380.9	390.0	400.1	409.8	420.8	429.9	441.7	451.8	464.7	483.0	500.6
17.5°	347.3	357.0	369.6	384.6	399.3	410.5	422.5	435.1	450.4	469.1	489.4
20°	327.7	335.6	349.5	366.1	383.3	398.9	409.8	423.7	439.6	459.9	480.7
22.5°	313.1	319.7	330.6	347.2	365.7	383.8	397.9	411.6	429.1	449.4	472.2
25°	291.1	298.2	307.7	319.1	340.2	359.4	377.7	393.6	412.1	432.4	457.7
27.5°	272.7	278.9	287.7	299.5	313.7	334.8	357.1	375.1	394.2	416.0	441.3
30°	261.9	267.0	274.1	286.1	299.7	318.7	341.3	362.4	381.6	404.1	430.5
32.5°	250.6	256.0	263.0	272.5	287.0	303.0	325.6	348.7	369.1	392.2	418.0
35°	235.5	239.8	246.1	255.7	268.9	282.8	302.8	326.7	348.2	372.9	397.6
37.5°	220.3	225.2	230.2	238.9	249.6	264.6	281.0	305.4	329.2	351.8	375.9
40°	211.7	214.6	220.1	227.1	238.4	251.7	267.2	291.1	314.9	337.2	361.5
42.5°	202.1	205.4	210.0	217.0	227.1	240.1	255.2	275.8	300.7	322.4	344.5
45°	188.7	190.6	195.2	201.1	209.6	222.7	236.6	254.9	278.4	299.1	318.4
47.5°	175.1	176.8	179.7	185.1	194.6	205.1	218.1	234.6	255.1	275.8	292.2
50°	165.9	167.4	170.1	175.1	183.6	193.9	206.8	221.6	240.0	259.8	273.5
52.5°	156.6	157.4	160.0	165.7	172.8	183.0	194.5	208.1	225.2	241.7	255.7
55°	141.8	143.7	145.4	149.6	156.4	166.1	176.5	189.3	202.6	216.5	228.4
57.5°	126.4	128.5	130.9	134.6	140.0	149.0	158.3	168.7	180.1	191.6	201.6
60°	116.3	118.2	120.3	124.5	129.4	136.5	146.7	155.8	164.4	175.0	184.9
62.5°	106.3	108.3	110.7	114.0	118.7	125.6	134.0	141.9	150.9	160.1	167.5
65°	91.6	93.1	95.0	98.2	102.5	108.7	115.7	121.8	129.8	136.5	143.3
67.5°	75.4	78.3	80.7	83.3	87.0	92.7	97.8	103.7	109.1	114.1	120.3
70°	64.8	67.9	70.3	73.0	76.6	81.5	86.3	90.3	94.8	99.6	105.1
72.5°	55.8	58.3	60.2	63.0	66.3	70.8	75.3	78.6	82.3	85.6	91.0
75°	44.1	45.1	46.5	48.8	51.7	55.1	58.7	61.6	63.8	66.7	70.4
77.5°	31.7	33.7	34.6	36.2	38.3	40.4	42.8	45.3	47.3	48.3	51.3
80°	24.3	25.1	25.9	28.3	29.5	31.7	33.3	35.7	36.5	37.5	40.3
82.5°	18.9	19.4	19.9	20.5	21.3	23.4	25.1	26.6	27.4	27.7	29.9
85°	11.0	11.1	11.4	11.6	11.9	11.9	12.7	13.7	15.2	15.2	15.9
87.5°	5.4	5.7	5.5	5.2	5.4	4.9	5.0	4.9	5.4	5.5	5.9
90°	8.6	9.2	8.1	7.1	7.1	4.1	4.1	3.6	3.0	1.5	0.5
92.5°	134.4	161.3	141.2	102.7	63.3	37.5	26.8	19.4	13.2	8.5	5.8
95°	426.2	414.6	312.8	191.3	107.8	63.6	42.2	30.1	23.4	18.3	16.8
97.5°	535.6	436.7	292.8	171.9	103.1	69.0	51.1	40.6	34.5	30.1	30.1
100°	539.2	408.9	265.6	161.8	104.2	74.3	58.0	48.3	42.2	38.7	38.7
102.5°	508.6	374.4	247.2	158.9	108.3	81.1	65.7	56.4	50.7	47.6	46.8
105°	453.3	333.7	231.5	160.2	118.0	93.6	78.8	69.7	63.6	61.1	59.5
107.5°	408.5	310.9	228.6	167.7	129.3	106.9	92.4	83.6	77.1	74.5	73.6
110°	386.1	303.2	229.4	173.4	137.9	115.5	101.7	92.6	86.5	83.9	82.9



TEST NUMBER: P332873-940

CATALOG NUMBER: SA4XXRDIP-C350D590U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	373.4	299.5	231.8	179.6	146.0	124.4	110.7	101.6	95.9	92.9	91.8
115°	361.7	297.6	236.6	189.2	158.7	138.4	124.7	114.9	109.9	106.3	104.8
117.5°	356.4	297.0	241.5	199.1	171.0	151.7	137.4	128.4	122.8	119.7	118.2
120°	353.6	297.0	245.2	206.0	179.6	160.2	146.0	137.3	131.7	128.2	127.2
122.5°	350.3	296.7	248.9	212.5	187.7	168.4	154.5	145.1	139.9	136.3	135.3
125°	344.9	296.0	254.3	222.3	198.9	180.6	166.3	156.7	151.1	148.0	146.0
127.5°	337.7	294.9	258.7	230.8	209.3	191.5	177.2	167.1	160.8	157.1	155.4
130°	333.1	294.5	262.0	236.0	216.2	198.9	184.1	174.5	166.8	162.7	160.8
132.5°	329.1	294.1	264.8	241.3	221.9	204.6	190.6	180.2	173.0	167.6	166.0
135°	323.0	293.5	269.1	248.3	229.9	213.1	199.9	189.2	180.6	175.5	173.4
137.5°	317.7	293.4	271.6	253.2	236.0	220.3	207.8	196.6	188.4	182.8	180.9
140°	314.9	293.0	273.7	256.4	240.1	224.8	212.6	202.0	193.3	187.7	186.2
142.5°	312.5	293.0	275.3	258.8	243.8	228.9	217.1	206.8	198.6	193.4	191.9
145°	308.3	291.9	276.3	261.4	247.7	234.5	223.3	213.7	206.5	201.4	199.9
147.5°	304.5	290.2	276.7	263.8	251.8	239.4	229.3	221.2	213.9	209.5	208.9
150°	301.7	288.9	276.7	265.0	253.9	242.6	233.0	225.3	219.3	215.2	214.6
152.5°	298.4	286.9	275.9	265.8	255.5	245.5	236.7	229.8	224.1	220.1	220.0
155°	293.5	283.8	274.6	266.5	257.9	249.2	241.7	236.0	231.0	227.9	227.4
157.5°	288.6	280.7	273.4	266.5	259.7	252.3	246.3	241.4	237.5	234.6	234.6
160°	284.9	278.2	272.2	266.5	260.5	254.3	248.7	244.7	241.1	239.1	239.1
162.5°	281.6	275.8	270.9	266.5	261.3	255.6	251.2	247.5	244.3	242.7	243.2
165°	276.3	272.2	268.6	265.6	261.4	256.9	253.9	251.3	248.7	247.7	247.7
167.5°	271.3	268.5	266.2	264.3	261.4	258.0	255.7	254.2	252.3	251.8	252.3
170°	268.0	266.0	264.5	263.5	260.9	258.4	256.9	255.8	254.3	253.9	254.3
172.5°	265.2	263.6	262.9	262.7	260.6	258.8	257.7	257.1	255.9	255.8	256.4
175°	262.0	260.9	260.9	261.4	259.9	259.0	259.0	258.4	257.9	257.9	258.4
177.5°	259.8	259.3	259.3	260.1	259.3	259.0	259.0	259.0	258.5	259.0	259.3
180°	259.0	259.0	259.0	259.0	259.0	259.0	259.0	259.0	259.0	259.0	259.0



TEST NUMBER: P332873-940

CATALOG NUMBER: SA4XXRDIP-C350D590U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8	523.8
2.5°	527.0	528.5	530.2	533.4	536.1	537.3	539.7	541.4	540.8	543.2	547.2
5°	529.1	534.8	541.4	548.0	555.6	562.0	567.0	572.1	576.1	580.9	588.2
7.5°	528.7	538.9	549.9	562.0	574.4	585.2	595.1	605.3	614.3	624.1	637.0
10°	527.4	540.9	554.6	570.4	586.3	601.3	614.7	627.4	639.4	652.3	668.6
12.5°	525.8	541.4	557.9	577.0	596.7	614.7	630.6	648.9	664.0	680.6	699.3
15°	519.2	540.0	562.7	587.3	611.0	635.3	656.9	679.3	700.3	720.1	743.7
17.5°	511.5	535.6	562.2	591.4	619.7	649.3	675.1	703.3	724.6	751.3	773.2
20°	505.2	531.2	559.6	592.4	624.6	657.4	685.9	714.6	738.6	765.4	793.3
22.5°	497.7	526.1	557.0	590.8	624.6	660.4	692.0	720.5	750.3	780.4	809.1
25°	485.4	515.0	547.7	584.8	623.7	660.1	693.9	729.3	761.4	794.2	819.9
27.5°	470.4	501.4	535.8	574.2	614.0	651.4	691.2	729.0	761.3	792.7	815.2
30°	458.3	491.1	524.2	563.0	604.4	644.5	687.2	725.0	758.9	787.2	799.9
32.5°	446.0	477.1	511.2	550.5	592.9	636.1	678.3	717.0	748.4	765.4	765.7
35°	424.6	453.7	489.2	527.8	571.3	618.1	660.9	698.9	718.2	719.6	698.9
37.5°	401.3	427.9	461.4	500.1	547.7	594.3	638.0	663.3	669.8	648.3	610.1
40°	384.5	409.2	441.5	481.2	528.4	576.6	616.4	635.0	628.3	593.4	550.8
42.5°	366.9	389.9	421.1	460.2	507.7	556.3	590.3	600.2	582.4	542.2	492.2
45°	338.3	359.4	390.2	429.7	475.3	520.8	546.6	541.5	511.8	464.0	408.1
47.5°	308.4	328.9	356.6	393.1	439.8	479.1	496.5	481.3	438.9	386.5	341.0
50°	288.7	309.6	335.1	370.0	412.6	450.6	461.7	438.5	391.5	341.1	299.3
52.5°	269.3	287.1	312.2	345.8	386.6	418.7	424.6	397.9	349.3	304.1	267.0
55°	239.8	256.0	277.1	308.7	344.0	371.2	368.0	333.7	289.5	250.9	221.8
57.5°	211.2	223.4	242.9	272.6	303.5	321.8	310.2	280.9	239.8	208.1	183.6
60°	192.3	203.7	221.8	247.7	275.0	285.3	275.6	243.8	211.2	182.4	161.7
62.5°	174.3	184.4	200.0	224.1	246.1	252.3	241.8	214.0	184.8	160.1	142.9
65°	148.4	157.7	170.9	188.1	203.2	206.2	199.5	170.9	148.8	128.1	116.3
67.5°	124.8	130.8	141.2	156.0	164.1	165.8	152.8	134.8	115.3	102.6	93.7
70°	108.9	113.2	122.8	130.8	137.4	137.6	125.6	111.2	96.2	85.9	79.4
72.5°	93.5	97.6	105.0	110.4	115.5	113.8	102.8	91.5	79.4	71.5	66.7
75°	72.1	75.8	79.5	82.1	82.1	80.0	72.0	63.5	56.5	51.9	50.5
77.5°	52.4	55.4	56.7	56.3	55.6	52.3	47.2	41.6	39.1	37.0	35.8
80°	41.2	42.4	42.8	41.8	40.5	36.7	33.3	31.0	28.7	27.8	27.5
82.5°	30.5	31.7	30.5	30.9	28.0	24.9	23.0	22.2	21.3	21.0	20.5
85°	16.2	16.1	15.6	14.5	12.7	12.2	12.0	11.9	11.4	11.6	11.1
87.5°	5.9	5.7	5.1	5.0	5.0	5.4	5.4	5.7	5.9	5.6	6.1
90°	1.5	3.0	3.6	4.1	4.1	7.1	7.1	8.1	9.2	8.6	9.2
92.5°	8.5	13.2	19.4	26.8	37.5	63.3	102.7	141.2	161.3	134.4	99.9
95°	18.3	23.4	30.1	42.2	63.6	107.8	191.3	312.8	414.6	426.2	376.9
97.5°	30.1	34.5	40.6	51.1	69.0	103.1	171.9	292.8	436.7	535.6	556.9
100°	38.7	42.2	48.3	58.0	74.3	104.2	161.8	265.6	408.9	539.2	613.5
102.5°	47.6	50.7	56.4	65.7	81.1	108.3	158.9	247.2	374.4	508.6	610.6
105°	61.1	63.6	69.7	78.8	93.6	118.0	160.2	231.5	333.7	453.3	569.7
107.5°	74.5	77.1	83.6	92.4	106.9	129.3	167.7	228.6	310.9	408.5	511.7
110°	83.9	86.5	92.6	101.7	115.5	137.9	173.4	229.4	303.2	386.1	476.6





TEST NUMBER: P332873-940

CATALOG NUMBER: SA4XXRDIP-C350D590U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	92.9	95.9	101.6	110.7	124.4	146.0	179.6	231.8	299.5	373.4	451.0
115°	106.3	109.9	114.9	124.7	138.4	158.7	189.2	236.6	297.6	361.7	425.3
117.5°	119.7	122.8	128.4	137.4	151.7	171.0	199.1	241.5	297.0	356.4	412.6
120°	128.2	131.7	137.3	146.0	160.2	179.6	206.0	245.2	297.0	353.6	407.0
122.5°	136.3	139.9	145.1	154.5	168.4	187.7	212.5	248.9	296.7	350.3	402.1
125°	148.0	151.1	156.7	166.3	180.6	198.9	222.3	254.3	296.0	344.9	393.7
127.5°	157.1	160.8	167.1	177.2	191.5	209.3	230.8	258.7	294.9	337.7	383.5
130°	162.7	166.8	174.5	184.1	198.9	216.2	236.0	262.0	294.5	333.1	375.4
132.5°	167.6	173.0	180.2	190.6	204.6	221.9	241.3	264.8	294.1	329.1	366.8
135°	175.5	180.6	189.2	199.9	213.1	229.9	248.3	269.1	293.5	323.0	355.1
137.5°	182.8	188.4	196.6	207.8	220.3	236.0	253.2	271.6	293.4	317.7	344.4
140°	187.7	193.3	202.0	212.6	224.8	240.1	256.4	273.7	293.0	314.9	338.2
142.5°	193.4	198.6	206.8	217.1	228.9	243.8	258.8	275.3	293.0	312.5	332.6
145°	201.4	206.5	213.7	223.3	234.5	247.7	261.4	276.3	291.9	308.3	324.5
147.5°	209.5	213.9	221.2	229.3	239.4	251.8	263.8	276.7	290.2	304.5	317.9
150°	215.2	219.3	225.3	233.0	242.6	253.9	265.0	276.7	288.9	301.7	313.9
152.5°	220.1	224.1	229.8	236.7	245.5	255.5	265.8	275.9	286.9	298.4	309.3
155°	227.9	231.0	236.0	241.7	249.2	257.9	266.5	274.6	283.8	293.5	302.6
157.5°	234.6	237.5	241.4	246.3	252.3	259.7	266.5	273.4	280.7	288.6	295.4
160°	239.1	241.1	244.7	248.7	254.3	260.5	266.5	272.2	278.2	284.9	291.0
162.5°	242.7	244.3	247.5	251.2	255.6	261.3	266.5	270.9	275.8	281.6	286.5
165°	247.7	248.7	251.3	253.9	256.9	261.4	265.6	268.6	272.2	276.3	280.3
167.5°	251.8	252.3	254.2	255.7	258.0	261.4	264.3	266.2	268.5	271.3	274.3
170°	253.9	254.3	255.8	256.9	258.4	260.9	263.5	264.5	266.0	268.0	270.6
172.5°	255.8	255.9	257.1	257.7	258.8	260.6	262.7	262.9	263.6	265.2	267.3
175°	257.9	257.9	258.4	259.0	259.0	259.9	261.4	260.9	260.9	262.0	263.0
177.5°	259.0	258.5	259.0	259.0	259.0	259.3	260.1	259.3	259.3	259.8	260.1
180°	259.0	259.0	259.0	259.0	259.0	259.0	259.0	259.0	259.0	259.0	259.0



TEST NUMBER: P332873-940

CATALOG NUMBER: SA4XXRDIP-C350D590U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	523.8	523.8	523.8	523.8	523.8	523.8	523.8
2.5°	549.5	550.1	550.6	552.3	552.5	554.0	552.5
5°	594.9	597.9	602.5	607.2	607.6	610.6	605.3
7.5°	645.9	652.7	657.0	664.5	667.4	669.3	666.3
10°	681.0	687.3	698.6	704.0	709.5	710.3	707.8
12.5°	715.0	725.0	733.8	744.2	744.0	751.4	748.7
15°	760.2	770.5	782.7	794.3	798.5	798.5	801.9
17.5°	792.4	811.4	824.0	833.1	843.1	844.8	843.6
20°	814.2	834.6	848.2	860.0	866.7	868.6	868.6
22.5°	830.4	847.8	861.0	871.6	877.2	879.4	878.8
25°	841.6	856.6	864.6	867.8	869.2	868.9	864.9
27.5°	826.3	825.5	820.6	810.8	803.5	799.1	794.0
30°	796.9	785.9	773.2	759.3	741.4	727.6	723.4
32.5°	753.1	728.5	707.0	683.9	664.6	650.9	645.1
35°	668.6	629.5	597.6	569.8	549.6	536.9	532.6
37.5°	568.2	530.4	491.0	464.0	447.1	434.4	429.6
40°	504.4	463.2	428.8	403.5	386.2	373.7	373.5
42.5°	446.1	406.8	374.4	356.2	337.6	329.3	329.3
45°	365.3	333.9	306.4	292.0	280.9	274.1	272.2
47.5°	302.5	276.4	258.2	246.7	237.6	233.4	230.5
50°	267.2	244.4	229.8	219.9	214.8	209.4	208.9
52.5°	237.8	219.4	208.0	200.0	193.6	190.3	190.4
55°	199.8	185.3	177.3	171.1	166.1	163.5	162.5
57.5°	168.4	157.5	151.6	146.0	143.8	141.9	141.3
60°	148.8	141.4	135.9	131.4	128.3	127.7	127.4
62.5°	132.6	124.8	121.1	117.6	115.3	114.3	114.0
65°	109.3	103.6	100.2	97.5	96.7	95.1	95.0
67.5°	88.1	84.7	82.5	80.6	79.5	79.4	79.4
70°	75.2	73.2	71.3	70.3	69.6	69.2	69.2
72.5°	64.0	62.6	61.0	60.5	60.4	59.9	59.7
75°	48.8	47.3	47.5	46.5	45.6	44.5	43.9
77.5°	34.6	33.5	33.3	33.2	32.5	32.4	32.6
80°	26.8	25.8	25.5	25.8	25.5	24.9	24.9
82.5°	20.4	19.5	19.3	19.2	19.0	19.2	18.8
85°	11.0	10.5	10.5	10.5	11.0	10.8	10.5
87.5°	5.8	5.7	5.9	5.9	6.0	5.7	5.9
90°	9.6	10.2	10.2	10.7	11.1	10.7	10.7
92.5°	75.2	59.8	49.7	43.6	40.9	39.1	39.1
95°	298.1	229.9	180.6	155.7	139.9	130.7	124.1
97.5°	527.6	477.9	424.7	388.3	357.6	342.3	331.7
100°	623.7	598.7	561.1	516.8	485.8	470.6	466.5
102.5°	661.1	668.3	652.6	625.4	603.0	586.9	583.6
105°	657.7	708.1	729.0	730.0	725.9	718.7	715.7
107.5°	605.3	676.3	721.6	746.7	758.3	763.4	764.7
110°	564.6	638.4	694.4	730.5	751.8	761.0	765.5



TEST NUMBER: P332873-940

CATALOG NUMBER: SA4XXRDIP-C350D590U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	528.8	598.5	654.4	695.4	721.3	734.1	741.5
115°	487.9	547.3	596.2	636.3	666.9	683.1	687.2
117.5°	464.4	511.2	552.6	586.9	612.5	629.0	632.2
120°	454.2	494.9	531.0	560.1	582.5	595.7	601.3
122.5°	447.7	484.7	516.4	540.9	560.1	571.2	576.8
125°	437.5	472.5	500.5	520.8	535.7	545.3	548.3
127.5°	425.3	460.4	486.9	507.4	520.5	528.6	531.6
130°	415.6	450.1	477.2	498.0	510.7	518.9	521.9
132.5°	404.6	438.4	465.3	485.8	500.2	507.8	511.0
135°	388.2	419.1	444.6	464.9	479.2	487.3	490.4
137.5°	372.4	398.5	421.5	440.5	454.6	461.3	464.9
140°	362.2	385.0	406.4	424.3	435.4	442.6	446.7
142.5°	353.7	373.3	391.8	407.5	417.9	424.3	427.0
145°	341.8	357.1	371.3	384.1	392.7	397.8	400.3
147.5°	331.6	343.8	355.1	364.4	371.8	375.7	376.7
150°	325.6	335.7	344.9	353.0	359.6	362.7	363.2
152.5°	319.4	328.8	336.4	343.2	348.7	350.4	351.0
155°	310.8	318.4	324.5	329.7	333.7	335.2	335.2
157.5°	302.3	308.6	313.5	317.4	320.5	321.4	321.4
160°	296.6	302.1	306.2	309.2	312.4	312.8	312.8
162.5°	291.2	295.6	299.3	301.6	304.6	305.1	304.7
165°	283.3	286.9	289.4	291.5	293.5	293.0	292.5
167.5°	276.6	279.5	281.0	282.0	283.3	283.2	282.9
170°	272.2	274.2	275.7	276.7	277.2	276.7	276.7
172.5°	268.5	269.7	270.8	271.4	272.0	271.4	270.6
175°	263.5	264.5	264.5	264.5	265.6	264.5	263.5
177.5°	260.6	260.6	260.9	260.6	260.9	260.1	259.3
180°	259.0	259.0	259.0	259.0	259.0	259.0	259.0

(END OF REPORT)