

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: P332872

Luminaire Tested: **S124RDIP-S350D590U835-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332872  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S124RDIP-S350D590U835-4F0-1E-UDD-A1  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 350 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 590 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3533.1 lumens  
Efficiency: N/A  
Efficacy: 138.0 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

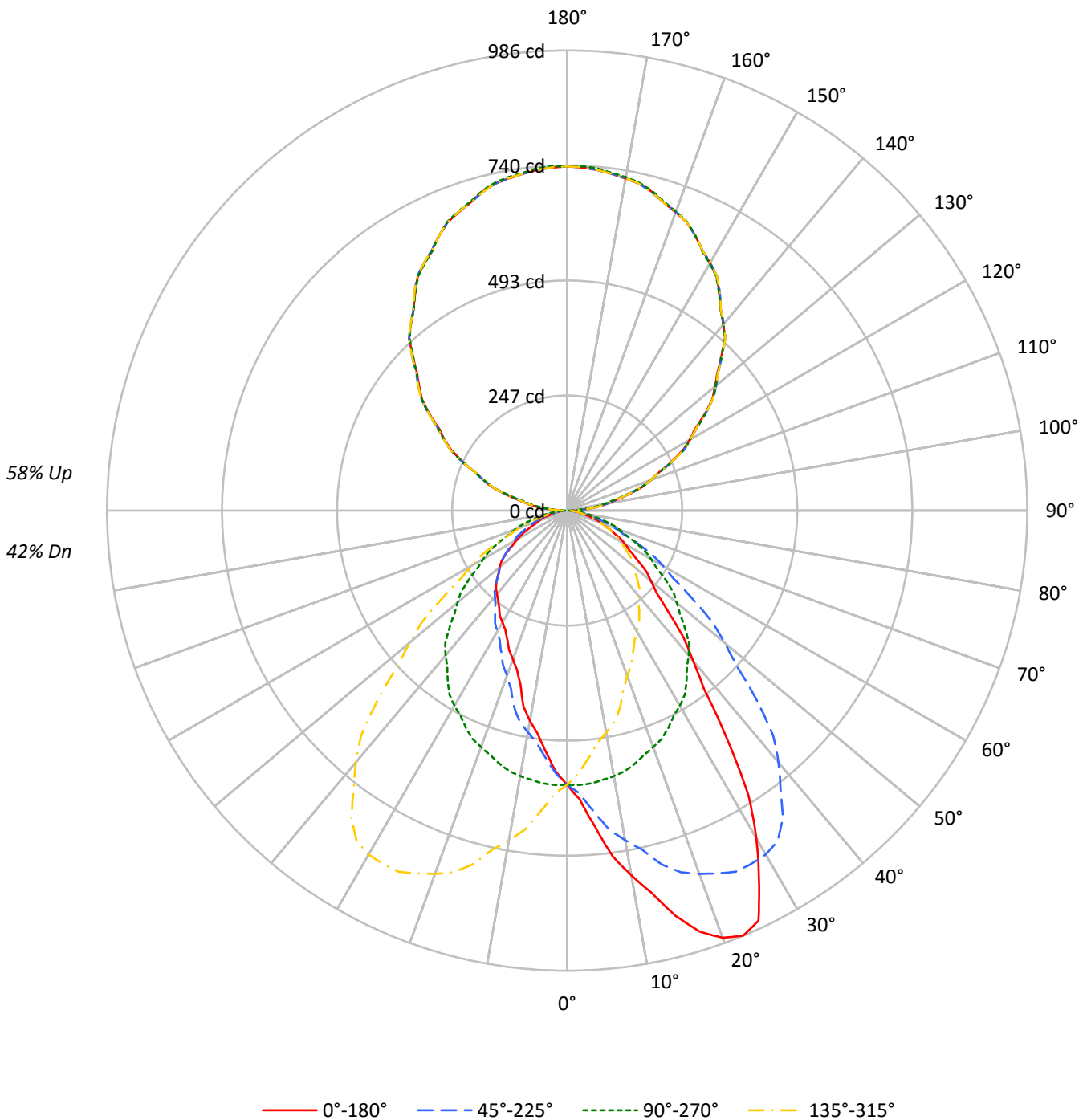
Input Watts (W): 25.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	49	49	49	42																												
1	96	92	89	85	88	84	81	78	70	68	66	56	55	53	44	43	42	36																												
2	88	81	75	70	80	74	69	65	62	58	55	50	47	45	39	37	36	31																												
3	81	71	64	59	73	66	60	55	55	50	46	44	41	39	35	33	31	27																												
4	74	63	56	50	67	58	52	47	49	44	40	40	36	33	31	29	27	23																												
5	68	57	49	43	62	52	45	40	44	38	35	36	32	29	28	26	24	20																												
6	63	51	43	37	57	47	40	35	39	34	30	32	29	26	26	23	21	18																												
7	58	46	38	33	53	42	36	31	36	31	27	29	26	23	24	21	19	16																												
8	54	42	34	29	49	39	32	27	33	27	24	27	23	20	22	19	17	14																												
9	50	38	31	26	46	35	29	24	30	25	21	25	21	18	20	17	15	13																												
10	47	35	28	23	43	32	26	22	28	23	19	23	19	16	19	16	14	12																												

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

	0°	90°	180°	270°
0°	4742	4742	4742	4742
5°	5501	4756	4204	4756
10°	6507	4736	3752	4736
15°	7516	4692	3224	4692
20°	8369	4631	2916	4631
25°	8639	4572	2707	4572
30°	7563	4501	2581	4501
35°	5887	4394	2505	4394
40°	4415	4272	2464	4272
45°	3486	4077	2442	4077
50°	2943	3852	2372	3852
55°	2564	3605	2245	3605
60°	2307	3347	1988	3347
65°	2034	3070	1710	3070
70°	1832	2783	1541	2783
75°	1535	2464	1313	2464
80°	1297	2101	1232	2101
85°	1093	1649	1093	1649



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.9	1.6
10°-20°	171.7	4.9
20°-30°	268.5	7.6
30°-40°	298.5	8.4
40°-50°	264.9	7.5
50°-60°	206.4	5.8
60°-70°	135.1	3.8
70°-80°	66.4	1.9
80°-90°	18.6	0.5
90°-100°	48.6	1.4
100°-110°	144.1	4.1
110°-120°	244.6	6.9
120°-130°	322.5	9.1
130°-140°	362.2	10.3
140°-150°	355.9	10.1
150°-160°	299.3	8.5
160°-170°	199.1	5.6
170°-180°	69.7	2.0
0°-30°	497.1	14.1
0°-40°	795.6	22.5
0°-60°	1266.9	35.9
0°-90°	1487.0	42.1
90°-120°	437.3	12.4
90°-150°	1477.8	41.8
90°-180°	2046.0	57.9
0°-180°	3533.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	587	587	587	587	587	
5°	679	587	519	587	679	69
15°	899	561	386	561	899	256
25°	970	513	304	513	970	430
35°	597	446	254	446	597	374
45°	305	357	214	357	305	242
55°	182	256	160	256	182	166
65°	106	161	90	161	106	107
75°	49	79	42	79	49	54
85°	12	18	12	18	12	14
90°	17	2	17	2	17	9
95°	45	34	45	34	45	47
105°	139	133	139	133	139	147
115°	246	249	246	249	246	244
125°	359	362	359	362	359	321
135°	468	467	468	467	468	361
145°	568	568	568	568	568	355
155°	650	650	650	650	650	299
165°	706	708	706	708	706	199
175°	733	736	733	736	733	70
180°	738	738	738	738	738	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4
2.5°	619.6	621.3	619.6	619.4	617.5	616.9	616.2	613.7	609.2	606.5	607.1
5°	678.8	684.7	681.4	680.9	675.7	670.5	667.2	659.6	651.5	646.1	641.6
7.5°	747.2	750.6	748.5	745.2	736.8	732.0	724.3	714.4	699.9	688.9	678.8
10°	793.8	796.6	795.7	789.5	783.4	770.8	763.7	749.8	731.5	717.1	703.6
12.5°	839.6	842.6	834.3	834.6	822.9	813.0	801.8	784.2	763.2	744.6	727.7
15°	899.3	895.5	895.5	890.8	877.8	864.1	852.5	834.0	807.5	785.3	761.8
17.5°	946.1	947.4	945.5	934.3	924.1	909.9	888.6	867.1	842.5	812.6	788.7
20°	974.1	974.1	972.0	964.4	951.2	936.0	913.1	889.6	858.4	828.3	801.4
22.5°	985.5	986.2	983.7	977.5	965.6	950.8	931.2	907.4	875.2	841.4	808.0
25°	969.9	974.4	974.8	973.2	969.6	960.6	943.8	919.5	890.6	853.9	817.9
27.5°	890.4	896.1	901.1	909.3	920.2	925.8	926.6	914.2	889.0	853.7	817.5
30°	811.3	816.0	831.4	851.5	867.1	881.3	893.7	897.0	882.8	851.1	813.0
32.5°	723.4	729.9	745.3	766.9	792.9	817.0	844.6	858.7	858.3	839.3	804.1
35°	597.3	602.1	616.3	639.0	670.2	706.0	749.8	783.8	807.0	805.4	783.8
37.5°	481.8	487.1	501.4	520.3	550.6	594.8	637.2	684.2	727.0	751.1	743.9
40°	418.9	419.1	433.1	452.5	480.9	519.5	565.6	617.7	665.5	704.6	712.1
42.5°	369.3	369.3	378.6	399.5	419.9	456.2	500.3	552.0	608.0	653.1	673.1
45°	305.3	307.4	315.0	327.5	343.6	374.4	409.7	457.7	520.4	573.9	607.3
47.5°	258.5	261.7	266.5	276.7	289.5	310.0	339.2	382.4	433.4	492.2	539.7
50°	234.3	234.8	240.9	246.6	257.7	274.1	299.6	335.6	382.5	439.0	491.8
52.5°	213.5	213.4	217.1	224.3	233.3	246.0	266.7	299.4	341.0	391.7	446.2
55°	182.2	183.4	186.3	191.9	198.8	207.8	224.1	248.7	281.4	324.7	374.2
57.5°	158.5	159.1	161.3	163.7	170.0	176.6	188.8	205.9	233.4	268.9	315.0
60°	142.9	143.2	143.9	147.4	152.4	158.6	166.9	181.3	204.5	236.9	273.4
62.5°	127.8	128.2	129.3	131.9	135.8	140.0	148.7	160.3	179.5	207.2	240.0
65°	106.5	106.7	108.4	109.3	112.4	116.2	122.6	130.4	143.7	166.9	191.7
67.5°	89.0	89.0	89.1	90.4	92.5	95.0	98.8	105.1	115.1	129.3	151.2
70°	77.6	77.6	78.1	78.8	80.0	82.1	84.3	89.0	96.3	107.9	124.7
72.5°	67.0	67.2	67.7	67.8	68.4	70.2	71.8	74.8	80.2	89.0	102.6
75°	49.2	49.9	51.1	52.1	53.3	53.0	54.7	56.6	58.2	63.4	71.2
77.5°	36.6	36.3	36.4	37.2	37.3	37.6	38.8	40.2	41.5	43.9	46.7
80°	27.9	27.9	28.6	28.9	28.6	28.9	30.1	30.8	31.2	32.2	34.8
82.5°	21.1	21.5	21.3	21.5	21.6	21.9	22.9	23.0	23.5	23.9	24.9
85°	11.8	12.1	12.3	11.8	11.8	11.8	12.3	12.5	13.0	12.8	13.3
87.5°	7.6	7.3	7.5	7.4	7.6	7.3	7.3	7.5	7.0	7.1	6.9
90°	17.1	16.9	16.6	16.4	16.1	15.6	14.8	14.1	13.3	12.5	11.5
92.5°	25.3	25.2	25.0	24.9	24.7	24.4	24.0	23.5	23.0	22.6	21.9
95°	45.1	45.1	45.1	45.1	45.1	44.9	44.5	44.1	43.7	43.3	42.5
97.5°	70.6	70.6	70.6	70.6	70.6	70.4	69.9	69.5	69.0	68.6	67.5
100°	88.4	88.4	88.4	88.4	88.4	88.3	88.0	87.8	87.5	87.3	86.1
102.5°	108.5	108.4	108.3	108.2	108.1	107.8	107.5	107.1	106.8	106.4	105.4
105°	139.2	138.8	138.4	138.0	137.6	137.3	136.9	136.5	136.1	135.7	135.2
107.5°	169.1	169.1	169.1	169.1	169.2	169.0	168.6	168.3	167.9	167.6	167.5
110°	190.5	190.1	189.7	189.4	189.0	188.9	189.2	189.4	189.7	189.9	190.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	212.4	212.3	212.2	212.2	212.1	212.1	212.1	212.2	212.2	212.3	212.5
115°	246.4	246.5	246.6	246.8	246.9	247.0	247.2	247.3	247.4	247.5	247.8
117.5°	278.8	279.0	279.3	279.5	279.8	280.1	280.6	281.0	281.4	281.9	282.0
120°	303.4	303.2	302.9	302.7	302.4	302.6	303.2	303.9	304.5	305.1	305.5
122.5°	324.0	324.4	324.9	325.3	325.8	326.2	326.7	327.1	327.5	328.0	328.1
125°	359.3	359.6	359.8	360.1	360.3	360.6	360.8	361.1	361.3	361.6	361.7
127.5°	392.1	392.3	392.5	392.7	392.9	393.1	393.4	393.6	393.9	394.1	394.3
130°	413.5	414.0	414.5	415.0	415.5	415.9	416.2	416.4	416.7	416.9	416.9
132.5°	436.3	436.5	436.7	436.9	437.1	437.4	437.6	437.9	438.1	438.4	438.5
135°	467.7	468.1	468.4	468.8	469.2	469.5	469.8	470.0	470.3	470.5	470.5
137.5°	500.7	500.6	500.5	500.4	500.3	500.5	500.8	501.1	501.5	501.8	501.6
140°	520.7	520.9	521.0	521.1	521.2	521.4	521.5	521.6	521.7	521.9	521.9
142.5°	540.8	540.8	540.9	540.9	540.9	540.9	541.0	541.0	541.0	541.0	541.1
145°	568.1	568.4	568.8	569.2	569.6	569.8	570.0	570.1	570.2	570.3	570.2
147.5°	595.7	595.8	595.9	596.1	596.2	596.3	596.4	596.5	596.6	596.7	596.8
150°	612.6	612.7	612.8	612.9	613.1	613.1	613.1	613.1	613.1	613.1	613.1
152.5°	628.1	628.4	628.7	629.1	629.4	629.4	629.1	628.8	628.5	628.2	628.1
155°	649.6	650.1	650.6	651.1	651.7	651.7	651.1	650.6	650.1	649.6	649.8
157.5°	668.9	669.3	669.8	670.2	670.6	670.7	670.3	669.9	669.5	669.1	669.2
160°	679.9	680.5	681.1	681.8	682.4	682.5	682.1	681.8	681.4	681.0	681.1
162.5°	691.3	691.9	692.5	693.2	693.8	693.8	693.1	692.4	691.7	691.0	691.2
165°	706.1	706.6	707.1	707.6	708.1	708.0	707.2	706.5	705.7	705.0	705.2
167.5°	716.7	717.5	718.3	719.1	719.8	719.9	719.1	718.3	717.6	716.8	716.8
170°	722.6	723.5	724.4	725.3	726.2	726.2	725.5	724.7	724.0	723.2	723.1
172.5°	727.7	728.5	729.4	730.3	731.2	731.2	730.4	729.5	728.6	727.8	727.7
175°	732.9	733.8	734.7	735.6	736.4	736.4	735.6	734.7	733.8	732.9	733.0
177.5°	735.6	736.4	737.3	738.1	738.9	738.9	738.2	737.5	736.8	736.1	736.1
180°	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4
2.5°	605.2	602.6	601.2	598.2	594.6	592.7	591.0	588.5	585.3	581.9	579.5
5°	635.9	630.2	623.1	614.6	607.1	599.7	593.3	586.9	579.6	572.0	564.5
7.5°	667.4	656.3	644.2	630.2	616.7	604.3	592.9	582.1	569.8	558.7	548.7
10°	689.4	674.3	657.5	639.7	622.0	606.6	591.4	577.7	562.6	549.1	537.7
12.5°	707.2	689.4	669.2	647.1	625.7	607.1	589.7	571.8	554.6	540.0	524.8
15°	736.7	712.4	685.2	658.6	631.0	605.6	582.2	561.4	541.7	521.1	506.7
17.5°	757.1	728.1	695.0	663.2	630.5	600.6	573.6	548.8	526.1	505.1	487.9
20°	769.2	737.2	700.5	664.3	627.6	595.7	566.6	539.1	515.7	493.0	475.2
22.5°	776.0	740.6	700.5	662.6	624.6	590.0	558.1	529.5	504.0	481.2	461.6
25°	778.2	740.3	699.4	655.8	614.2	577.5	544.3	513.3	484.9	462.2	441.4
27.5°	775.1	730.5	688.6	643.9	600.9	562.3	527.5	494.9	466.5	442.1	420.7
30°	770.6	722.8	677.8	631.4	587.9	550.7	514.0	482.8	453.2	427.9	406.4
32.5°	760.7	713.3	664.9	617.4	573.3	535.0	500.2	468.8	439.8	413.9	391.0
35°	741.2	693.2	640.7	591.9	548.6	508.8	476.2	445.9	418.2	390.5	366.4
37.5°	715.5	666.5	614.2	560.8	517.4	479.9	450.0	421.5	394.5	369.2	342.5
40°	691.3	646.6	592.6	539.6	495.1	458.9	431.2	405.4	378.2	353.1	326.4
42.5°	662.0	623.9	569.3	516.1	472.2	437.3	411.5	386.3	361.5	337.2	309.3
45°	613.0	584.1	533.0	481.9	437.6	403.0	379.4	357.1	335.4	312.2	285.9
47.5°	556.8	537.3	493.2	440.8	399.9	368.8	345.9	327.7	309.3	286.1	263.1
50°	517.8	505.3	462.7	414.9	375.8	347.2	323.8	306.7	291.3	269.1	248.5
52.5°	476.2	469.5	433.5	387.8	350.1	322.0	302.0	286.7	271.1	252.6	233.4
55°	412.7	416.3	385.8	346.2	310.7	287.1	268.9	256.1	242.8	227.2	212.3
57.5°	347.9	360.9	340.4	305.7	272.4	250.5	236.8	226.1	214.9	202.0	189.2
60°	309.1	320.0	308.4	277.8	248.7	228.4	215.6	207.3	196.2	184.4	174.7
62.5°	271.2	282.9	276.0	251.3	224.3	206.8	195.5	187.8	179.5	169.2	159.1
65°	223.7	231.2	227.9	210.9	191.7	176.8	166.4	160.7	153.1	145.6	136.6
67.5°	171.3	185.9	184.0	174.9	158.4	146.7	139.9	134.9	128.0	122.4	116.3
70°	140.8	154.3	154.1	146.7	137.7	126.9	122.1	117.9	111.7	106.3	101.3
72.5°	115.3	127.6	129.5	123.8	117.7	109.4	104.9	102.0	96.0	92.3	88.2
75°	80.7	89.7	92.1	92.1	89.2	85.0	80.9	79.0	74.8	71.5	69.1
77.5°	52.9	58.6	62.3	63.1	63.6	62.1	58.8	57.5	54.2	53.1	50.8
80°	37.4	41.2	45.4	46.9	48.0	47.6	46.2	45.2	42.1	40.9	40.0
82.5°	25.8	27.9	31.4	34.6	34.2	35.5	34.2	33.5	31.1	30.7	29.8
85°	13.5	13.7	14.2	16.3	17.5	18.0	18.2	17.8	17.0	17.0	15.4
87.5°	6.6	6.3	6.4	6.2	6.1	6.6	6.9	6.8	6.5	6.2	5.9
90°	10.5	9.5	8.5	7.3	5.9	4.5	3.1	1.7	3.1	4.5	5.9
92.5°	21.2	20.5	19.7	18.6	17.0	15.4	13.8	12.2	13.8	15.4	17.0
95°	41.6	40.7	39.8	38.8	37.6	36.5	35.4	34.2	35.4	36.5	37.6
97.5°	66.5	65.4	64.4	63.4	62.5	61.6	60.7	59.8	60.7	61.6	62.5
100°	85.0	83.8	82.7	81.9	81.4	80.9	80.4	79.8	80.4	80.9	81.4
102.5°	104.3	103.3	102.3	101.6	101.4	101.2	101.0	100.8	101.0	101.2	101.4
105°	134.7	134.2	133.7	133.4	133.3	133.1	133.0	132.9	133.0	133.1	133.3
107.5°	167.4	167.3	167.3	167.2	167.0	166.8	166.7	166.5	166.7	166.8	167.0
110°	190.2	190.3	190.4	190.4	190.1	189.9	189.6	189.4	189.6	189.9	190.1





TEST NUMBER: P332872

CATALOG NUMBER: S124RDIP-S350D590U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	212.7	213.0	213.2	213.3	213.2	213.2	213.1	213.1	213.1	213.2	213.2
115°	248.0	248.3	248.5	248.7	248.7	248.7	248.7	248.7	248.7	248.7	248.7
117.5°	282.2	282.4	282.6	282.6	282.5	282.4	282.3	282.2	282.3	282.4	282.5
120°	305.9	306.3	306.7	306.6	306.1	305.6	305.1	304.6	305.1	305.6	306.1
122.5°	328.3	328.5	328.7	328.6	328.4	328.2	328.0	327.8	328.0	328.2	328.4
125°	361.9	362.0	362.1	362.2	362.2	362.2	362.2	362.2	362.2	362.2	362.2
127.5°	394.5	394.7	394.9	394.8	394.5	394.1	393.7	393.3	393.7	394.1	394.5
130°	416.9	416.9	416.9	416.7	416.4	416.0	415.6	415.2	415.6	416.0	416.4
132.5°	438.6	438.7	438.8	438.7	438.4	438.1	437.9	437.6	437.9	438.1	438.4
135°	470.5	470.5	470.5	470.2	469.4	468.6	467.9	467.1	467.9	468.6	469.4
137.5°	501.4	501.2	501.0	500.7	500.3	500.0	499.6	499.3	499.6	500.0	500.3
140°	521.9	521.9	521.9	521.7	521.5	521.2	521.0	520.7	521.0	521.2	521.5
142.5°	541.2	541.3	541.4	541.4	541.1	540.9	540.6	540.3	540.6	540.9	541.1
145°	570.1	570.0	569.8	569.5	569.0	568.5	568.0	567.5	568.0	568.5	569.0
147.5°	596.9	597.0	597.1	596.9	596.2	595.6	595.0	594.4	595.0	595.6	596.2
150°	613.1	613.1	613.1	612.9	612.4	611.9	611.4	610.8	611.4	611.9	612.4
152.5°	628.0	627.9	627.8	627.6	627.3	627.0	626.7	626.4	626.7	627.0	627.3
155°	649.9	650.0	650.1	650.2	650.2	650.2	650.2	650.2	650.2	650.2	650.2
157.5°	669.2	669.2	669.2	669.4	669.6	669.8	670.0	670.3	670.0	669.8	669.6
160°	681.3	681.4	681.5	681.6	681.8	681.9	682.0	682.1	682.0	681.9	681.8
162.5°	691.3	691.4	691.5	691.8	692.1	692.4	692.8	693.1	692.8	692.4	692.1
165°	705.5	705.7	706.0	706.3	706.7	707.0	707.4	707.8	707.4	707.0	706.7
167.5°	716.8	716.7	716.7	717.0	717.5	718.0	718.6	719.1	718.6	718.0	717.5
170°	722.9	722.8	722.7	722.9	723.6	724.2	724.9	725.5	724.9	724.2	723.6
172.5°	727.7	727.7	727.7	727.9	728.5	729.0	729.5	730.0	729.5	729.0	728.5
175°	733.2	733.3	733.4	733.8	734.4	735.1	735.7	736.3	735.7	735.1	734.4
177.5°	736.1	736.1	736.1	736.3	736.9	737.4	737.9	738.4	737.9	737.4	736.9
180°	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5



TEST NUMBER: P332872

CATALOG NUMBER: S124RDIP-S350D590U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4
2.5°	576.8	574.9	572.5	569.6	566.2	563.2	561.8	563.0	563.6	562.0	561.8
5°	559.2	553.3	548.6	541.5	535.8	531.1	527.8	526.3	526.8	523.0	522.1
7.5°	539.5	532.5	524.7	516.3	508.5	501.5	497.9	495.9	491.8	490.1	487.2
10°	526.8	517.4	509.8	499.8	490.8	482.6	478.5	475.2	471.2	469.3	465.3
12.5°	513.8	502.8	494.4	484.1	474.9	465.0	461.1	455.0	448.7	444.7	439.5
15°	495.3	482.1	471.9	459.6	448.7	437.4	427.2	415.8	411.6	402.6	397.4
17.5°	473.8	460.4	447.8	431.3	414.5	400.3	389.5	378.6	372.1	366.4	363.7
20°	459.6	447.3	429.8	410.6	391.9	376.3	367.5	360.4	353.3	349.3	346.5
22.5°	446.2	430.4	410.1	389.4	370.7	358.5	351.1	343.8	338.0	334.2	330.4
25°	423.6	403.0	381.5	357.8	345.1	334.4	326.4	320.4	316.9	311.9	310.0
27.5°	400.5	375.5	351.8	335.9	322.6	312.8	305.8	301.4	296.9	293.7	291.2
30°	382.7	357.4	336.1	320.9	307.4	299.4	293.7	288.5	284.9	282.3	280.5
32.5°	365.1	339.8	321.9	305.6	294.9	287.1	281.0	277.1	274.3	271.0	269.8
35°	339.6	317.1	301.5	286.8	276.0	268.9	264.1	260.1	257.7	256.8	256.1
37.5°	315.1	296.7	279.9	267.9	258.2	252.6	247.0	245.0	243.4	241.7	242.5
40°	299.6	282.3	267.4	254.7	246.8	240.7	237.4	235.0	233.6	233.6	233.6
42.5°	286.2	269.3	254.7	243.3	235.5	230.3	226.6	224.6	224.1	223.9	225.1
45°	265.3	249.7	235.0	225.5	218.9	213.7	211.6	209.9	209.9	210.9	211.1
47.5°	244.6	230.0	218.2	207.6	201.5	198.3	196.4	195.6	195.7	196.6	197.7
50°	231.9	217.5	205.9	196.4	190.8	187.7	186.0	185.5	186.0	186.0	187.7
52.5°	218.1	205.2	193.8	185.8	179.4	176.5	175.6	174.9	175.2	176.0	176.7
55°	197.9	186.3	175.4	167.8	163.1	161.2	159.0	159.3	158.8	159.3	159.3
57.5°	177.5	167.1	157.0	151.0	146.8	144.1	141.8	142.4	141.7	141.6	141.2
60°	164.5	153.1	145.1	139.6	134.9	132.5	130.4	130.9	130.2	129.7	128.7
62.5°	150.3	140.8	133.1	127.9	124.1	121.4	119.2	118.8	117.1	115.5	113.4
65°	129.7	121.9	115.0	110.1	106.5	104.4	102.7	101.3	97.7	94.0	92.1
67.5°	109.7	104.0	97.6	93.4	90.5	87.8	84.6	82.2	78.9	76.8	75.6
70°	96.8	91.4	85.9	81.9	78.8	76.2	72.7	71.0	68.6	67.7	66.5
72.5°	84.5	79.4	74.4	70.7	67.5	65.4	62.6	61.0	59.9	59.5	58.4
75°	65.8	61.8	58.0	54.7	52.1	50.6	49.5	48.3	47.8	45.7	44.5
77.5°	48.0	45.3	43.0	40.6	38.8	37.8	35.5	34.2	33.4	32.4	32.1
80°	37.4	35.5	33.1	31.7	29.1	28.2	27.2	27.0	26.7	26.5	26.3
82.5°	28.1	26.2	23.9	23.0	22.3	21.7	21.2	20.9	20.7	20.8	20.8
85°	14.2	13.3	13.3	13.0	12.8	12.5	12.3	12.3	12.1	12.3	12.1
87.5°	6.2	6.2	6.4	6.3	6.7	6.9	6.8	7.0	7.3	7.1	7.2
90°	7.3	8.5	9.5	10.5	11.5	12.5	13.3	14.1	14.8	15.6	16.1
92.5°	18.6	19.7	20.5	21.2	21.9	22.6	23.0	23.5	24.0	24.4	24.7
95°	38.8	39.8	40.7	41.6	42.5	43.3	43.7	44.1	44.5	44.9	45.1
97.5°	63.4	64.4	65.4	66.5	67.5	68.6	69.0	69.5	69.9	70.4	70.6
100°	81.9	82.7	83.8	85.0	86.1	87.3	87.5	87.8	88.0	88.3	88.4
102.5°	101.6	102.3	103.3	104.3	105.4	106.4	106.8	107.1	107.5	107.8	108.1
105°	133.4	133.7	134.2	134.7	135.2	135.7	136.1	136.5	136.9	137.3	137.6
107.5°	167.2	167.3	167.3	167.4	167.5	167.6	167.9	168.3	168.6	169.0	169.2
110°	190.4	190.4	190.3	190.2	190.1	189.9	189.7	189.4	189.2	188.9	189.0



TEST NUMBER: P332872

CATALOG NUMBER: S124RDIP-S350D590U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	213.3	213.2	213.0	212.7	212.5	212.3	212.2	212.2	212.1	212.1	212.1
115°	248.7	248.5	248.3	248.0	247.8	247.5	247.4	247.3	247.2	247.0	246.9
117.5°	282.6	282.6	282.4	282.2	282.0	281.9	281.4	281.0	280.6	280.1	279.8
120°	306.6	306.7	306.3	305.9	305.5	305.1	304.5	303.9	303.2	302.6	302.4
122.5°	328.6	328.7	328.5	328.3	328.1	328.0	327.5	327.1	326.7	326.2	325.8
125°	362.2	362.1	362.0	361.9	361.7	361.6	361.3	361.1	360.8	360.6	360.3
127.5°	394.8	394.9	394.7	394.5	394.3	394.1	393.9	393.6	393.4	393.1	392.9
130°	416.7	416.9	416.9	416.9	416.9	416.9	416.7	416.4	416.2	415.9	415.5
132.5°	438.7	438.8	438.7	438.6	438.5	438.4	438.1	437.9	437.6	437.4	437.1
135°	470.2	470.5	470.5	470.5	470.5	470.5	470.3	470.0	469.8	469.5	469.2
137.5°	500.7	501.0	501.2	501.4	501.6	501.8	501.5	501.1	500.8	500.5	500.3
140°	521.7	521.9	521.9	521.9	521.9	521.9	521.7	521.6	521.5	521.4	521.2
142.5°	541.4	541.4	541.3	541.2	541.1	541.0	541.0	541.0	541.0	540.9	540.9
145°	569.5	569.8	570.0	570.1	570.2	570.3	570.2	570.1	570.0	569.8	569.6
147.5°	596.9	597.1	597.0	596.9	596.8	596.7	596.6	596.5	596.4	596.3	596.2
150°	612.9	613.1	613.1	613.1	613.1	613.1	613.1	613.1	613.1	613.1	613.1
152.5°	627.6	627.8	627.9	628.0	628.1	628.2	628.5	628.8	629.1	629.4	629.4
155°	650.2	650.1	650.0	649.9	649.8	649.6	650.1	650.6	651.1	651.7	651.7
157.5°	669.4	669.2	669.2	669.2	669.2	669.1	669.5	669.9	670.3	670.7	670.6
160°	681.6	681.5	681.4	681.3	681.1	681.0	681.4	681.8	682.1	682.5	682.4
162.5°	691.8	691.5	691.4	691.3	691.2	691.0	691.7	692.4	693.1	693.8	693.8
165°	706.3	706.0	705.7	705.5	705.2	705.0	705.7	706.5	707.2	708.0	708.1
167.5°	717.0	716.7	716.7	716.8	716.8	716.8	717.6	718.3	719.1	719.9	719.8
170°	722.9	722.7	722.8	722.9	723.1	723.2	724.0	724.7	725.5	726.2	726.2
172.5°	727.9	727.7	727.7	727.7	727.7	727.8	728.6	729.5	730.4	731.2	731.2
175°	733.8	733.4	733.3	733.2	733.0	732.9	733.8	734.7	735.6	736.4	736.4
177.5°	736.3	736.1	736.1	736.1	736.1	736.1	736.8	737.5	738.2	738.9	738.9
180°	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5



TEST NUMBER: P332872

CATALOG NUMBER: S124RDIP-S350D590U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4
2.5°	560.7	561.1	559.8	559.4	559.8	561.1	560.7	561.8	562.0	563.6	563.0
5°	520.2	519.7	518.5	518.8	518.5	519.7	520.2	522.1	523.0	526.8	526.3
7.5°	485.5	483.7	484.2	482.3	484.2	483.7	485.5	487.2	490.1	491.8	495.9
10°	464.3	461.7	459.6	457.7	459.6	461.7	464.3	465.3	469.3	471.2	475.2
12.5°	435.4	433.1	430.3	430.8	430.3	433.1	435.4	439.5	444.7	448.7	455.0
15°	394.3	390.7	385.1	385.8	385.1	390.7	394.3	397.4	402.6	411.6	415.8
17.5°	359.5	359.5	356.9	357.6	356.9	359.5	359.5	363.7	366.4	372.1	378.6
20°	341.5	339.9	340.1	339.4	340.1	339.9	341.5	346.5	349.3	353.3	360.4
22.5°	329.0	327.0	325.3	323.9	325.3	327.0	329.0	330.4	334.2	338.0	343.8
25°	307.9	306.5	304.4	303.9	304.4	306.5	307.9	310.0	311.9	316.9	320.4
27.5°	289.3	289.1	288.2	287.1	288.2	289.1	289.3	291.2	293.7	296.9	301.4
30°	278.6	278.1	277.6	276.9	277.6	278.1	278.6	280.5	282.3	284.9	288.5
32.5°	268.9	268.6	268.1	268.2	268.1	268.6	268.9	269.8	271.0	274.3	277.1
35°	255.1	254.9	254.4	254.2	254.4	254.9	255.1	256.1	256.8	257.7	260.1
37.5°	242.3	242.9	242.6	242.5	242.6	242.9	242.3	242.5	241.7	243.4	245.0
40°	233.4	233.6	234.1	233.8	234.1	233.6	233.4	233.6	233.6	233.6	235.0
42.5°	226.0	226.0	226.7	225.9	226.7	226.0	226.0	225.1	223.9	224.1	224.6
45°	212.8	214.2	213.9	213.9	213.9	214.2	212.8	211.1	210.9	209.9	209.9
47.5°	198.3	199.6	199.9	199.8	199.9	199.6	198.3	197.7	196.6	195.7	195.6
50°	188.9	188.4	189.1	188.9	189.1	188.4	188.9	187.7	186.0	186.0	185.5
52.5°	177.3	177.4	177.4	177.1	177.4	177.4	177.3	176.7	176.0	175.2	174.9
55°	159.5	159.8	159.3	159.5	159.3	159.8	159.5	159.3	159.3	158.8	159.3
57.5°	140.2	139.1	139.5	139.0	139.5	139.1	140.2	141.2	141.6	141.7	142.4
60°	126.4	124.5	124.0	123.1	124.0	124.5	126.4	128.7	129.7	130.2	130.9
62.5°	110.9	109.5	107.9	108.7	107.9	109.5	110.9	113.4	115.5	117.1	118.8
65°	90.2	89.2	88.5	89.5	88.5	89.2	90.2	92.1	94.0	97.7	101.3
67.5°	74.6	74.1	74.1	73.7	74.1	74.1	74.6	75.6	76.8	78.9	82.2
70°	66.5	65.8	65.8	65.3	65.8	65.8	66.5	66.5	67.7	68.6	71.0
72.5°	58.2	57.5	57.7	57.4	57.7	57.5	58.2	58.4	59.5	59.9	61.0
75°	43.1	41.9	41.9	42.1	41.9	41.9	43.1	44.5	45.7	47.8	48.3
77.5°	32.1	31.9	32.2	31.8	32.2	31.9	32.1	32.1	32.4	33.4	34.2
80°	26.3	26.0	25.8	26.5	25.8	26.0	26.3	26.3	26.5	26.7	27.0
82.5°	20.4	20.4	20.3	21.2	20.3	20.4	20.4	20.8	20.8	20.7	20.9
85°	12.3	11.8	12.3	11.8	12.3	11.8	12.3	12.1	12.3	12.1	12.3
87.5°	7.6	7.5	7.3	7.6	7.3	7.5	7.6	7.2	7.1	7.3	7.0
90°	16.4	16.6	16.9	17.1	16.9	16.6	16.4	16.1	15.6	14.8	14.1
92.5°	24.9	25.0	25.2	25.3	25.2	25.0	24.9	24.7	24.4	24.0	23.5
95°	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	44.9	44.5	44.1
97.5°	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.4	69.9	69.5
100°	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.3	88.0	87.8
102.5°	108.2	108.3	108.4	108.5	108.4	108.3	108.2	108.1	107.8	107.5	107.1
105°	138.0	138.4	138.8	139.2	138.8	138.4	138.0	137.6	137.3	136.9	136.5
107.5°	169.1	169.1	169.1	169.1	169.1	169.1	169.1	169.2	169.0	168.6	168.3
110°	189.4	189.7	190.1	190.5	190.1	189.7	189.4	189.0	188.9	189.2	189.4



TEST NUMBER: P332872

CATALOG NUMBER: S124RDIP-S350D590U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	212.2	212.2	212.3	212.4	212.3	212.2	212.2	212.1	212.1	212.1	212.2
115°	246.8	246.6	246.5	246.4	246.5	246.6	246.8	246.9	247.0	247.2	247.3
117.5°	279.5	279.3	279.0	278.8	279.0	279.3	279.5	279.8	280.1	280.6	281.0
120°	302.7	302.9	303.2	303.4	303.2	302.9	302.7	302.4	302.6	303.2	303.9
122.5°	325.3	324.9	324.4	324.0	324.4	324.9	325.3	325.8	326.2	326.7	327.1
125°	360.1	359.8	359.6	359.3	359.6	359.8	360.1	360.3	360.6	360.8	361.1
127.5°	392.7	392.5	392.3	392.1	392.3	392.5	392.7	392.9	393.1	393.4	393.6
130°	415.0	414.5	414.0	413.5	414.0	414.5	415.0	415.5	415.9	416.2	416.4
132.5°	436.9	436.7	436.5	436.3	436.5	436.7	436.9	437.1	437.4	437.6	437.9
135°	468.8	468.4	468.1	467.7	468.1	468.4	468.8	469.2	469.5	469.8	470.0
137.5°	500.4	500.5	500.6	500.7	500.6	500.5	500.4	500.3	500.5	500.8	501.1
140°	521.1	521.0	520.9	520.7	520.9	521.0	521.1	521.2	521.4	521.5	521.6
142.5°	540.9	540.9	540.8	540.8	540.8	540.9	540.9	540.9	540.9	541.0	541.0
145°	569.2	568.8	568.4	568.1	568.4	568.8	569.2	569.6	569.8	570.0	570.1
147.5°	596.1	595.9	595.8	595.7	595.8	595.9	596.1	596.2	596.3	596.4	596.5
150°	612.9	612.8	612.7	612.6	612.7	612.8	612.9	613.1	613.1	613.1	613.1
152.5°	629.1	628.7	628.4	628.1	628.4	628.7	629.1	629.4	629.4	629.1	628.8
155°	651.1	650.6	650.1	649.6	650.1	650.6	651.1	651.7	651.7	651.1	650.6
157.5°	670.2	669.8	669.3	668.9	669.3	669.8	670.2	670.6	670.7	670.3	669.9
160°	681.8	681.1	680.5	679.9	680.5	681.1	681.8	682.4	682.5	682.1	681.8
162.5°	693.2	692.5	691.9	691.3	691.9	692.5	693.2	693.8	693.8	693.1	692.4
165°	707.6	707.1	706.6	706.1	706.6	707.1	707.6	708.1	708.0	707.2	706.5
167.5°	719.1	718.3	717.5	716.7	717.5	718.3	719.1	719.8	719.9	719.1	718.3
170°	725.3	724.4	723.5	722.6	723.5	724.4	725.3	726.2	726.2	725.5	724.7
172.5°	730.3	729.4	728.5	727.7	728.5	729.4	730.3	731.2	731.2	730.4	729.5
175°	735.6	734.7	733.8	732.9	733.8	734.7	735.6	736.4	736.4	735.6	734.7
177.5°	738.1	737.3	736.4	735.6	736.4	737.3	738.1	738.9	738.9	738.2	737.5
180°	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5



TEST NUMBER: P332872

CATALOG NUMBER: S124RDIP-S350D590U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4
2.5°	561.8	563.2	566.2	569.6	572.5	574.9	576.8	579.5	581.9	585.3	588.5
5°	527.8	531.1	535.8	541.5	548.6	553.3	559.2	564.5	572.0	579.6	586.9
7.5°	497.9	501.5	508.5	516.3	524.7	532.5	539.5	548.7	558.7	569.8	582.1
10°	478.5	482.6	490.8	499.8	509.8	517.4	526.8	537.7	549.1	562.6	577.7
12.5°	461.1	465.0	474.9	484.1	494.4	502.8	513.8	524.8	540.0	554.6	571.8
15°	427.2	437.4	448.7	459.6	471.9	482.1	495.3	506.7	521.1	541.7	561.4
17.5°	389.5	400.3	414.5	431.3	447.8	460.4	473.8	487.9	505.1	526.1	548.8
20°	367.5	376.3	391.9	410.6	429.8	447.3	459.6	475.2	493.0	515.7	539.1
22.5°	351.1	358.5	370.7	389.4	410.1	430.4	446.2	461.6	481.2	504.0	529.5
25°	326.4	334.4	345.1	357.8	381.5	403.0	423.6	441.4	462.2	484.9	513.3
27.5°	305.8	312.8	322.6	335.9	351.8	375.5	400.5	420.7	442.1	466.5	494.9
30°	293.7	299.4	307.4	320.9	336.1	357.4	382.7	406.4	427.9	453.2	482.8
32.5°	281.0	287.1	294.9	305.6	321.9	339.8	365.1	391.0	413.9	439.8	468.8
35°	264.1	268.9	276.0	286.8	301.5	317.1	339.6	366.4	390.5	418.2	445.9
37.5°	247.0	252.6	258.2	267.9	279.9	296.7	315.1	342.5	369.2	394.5	421.5
40°	237.4	240.7	246.8	254.7	267.4	282.3	299.6	326.4	353.1	378.2	405.4
42.5°	226.6	230.3	235.5	243.3	254.7	269.3	286.2	309.3	337.2	361.5	386.3
45°	211.6	213.7	218.9	225.5	235.0	249.7	265.3	285.9	312.2	335.4	357.1
47.5°	196.4	198.3	201.5	207.6	218.2	230.0	244.6	263.1	286.1	309.3	327.7
50°	186.0	187.7	190.8	196.4	205.9	217.5	231.9	248.5	269.1	291.3	306.7
52.5°	175.6	176.5	179.4	185.8	193.8	205.2	218.1	233.4	252.6	271.1	286.7
55°	159.0	161.2	163.1	167.8	175.4	186.3	197.9	212.3	227.2	242.8	256.1
57.5°	141.8	144.1	146.8	151.0	157.0	167.1	177.5	189.2	202.0	214.9	226.1
60°	130.4	132.5	134.9	139.6	145.1	153.1	164.5	174.7	184.4	196.2	207.3
62.5°	119.2	121.4	124.1	127.9	133.1	140.8	150.3	159.1	169.2	179.5	187.8
65°	102.7	104.4	106.5	110.1	115.0	121.9	129.7	136.6	145.6	153.1	160.7
67.5°	84.6	87.8	90.5	93.4	97.6	104.0	109.7	116.3	122.4	128.0	134.9
70°	72.7	76.2	78.8	81.9	85.9	91.4	96.8	101.3	106.3	111.7	117.9
72.5°	62.6	65.4	67.5	70.7	74.4	79.4	84.5	88.2	92.3	96.0	102.0
75°	49.5	50.6	52.1	54.7	58.0	61.8	65.8	69.1	71.5	74.8	79.0
77.5°	35.5	37.8	38.8	40.6	43.0	45.3	48.0	50.8	53.1	54.2	57.5
80°	27.2	28.2	29.1	31.7	33.1	35.5	37.4	40.0	40.9	42.1	45.2
82.5°	21.2	21.7	22.3	23.0	23.9	26.2	28.1	29.8	30.7	31.1	33.5
85°	12.3	12.5	12.8	13.0	13.3	13.3	14.2	15.4	17.0	17.0	17.8
87.5°	6.8	6.9	6.7	6.3	6.4	6.2	6.2	5.9	6.2	6.5	6.8
90°	13.3	12.5	11.5	10.5	9.5	8.5	7.3	5.9	4.5	3.1	1.7
92.5°	23.0	22.6	21.9	21.2	20.5	19.7	18.6	17.0	15.4	13.8	12.2
95°	43.7	43.3	42.5	41.6	40.7	39.8	38.8	37.6	36.5	35.4	34.2
97.5°	69.0	68.6	67.5	66.5	65.4	64.4	63.4	62.5	61.6	60.7	59.8
100°	87.5	87.3	86.1	85.0	83.8	82.7	81.9	81.4	80.9	80.4	79.8
102.5°	106.8	106.4	105.4	104.3	103.3	102.3	101.6	101.4	101.2	101.0	100.8
105°	136.1	135.7	135.2	134.7	134.2	133.7	133.4	133.3	133.1	133.0	132.9
107.5°	167.9	167.6	167.5	167.4	167.3	167.3	167.2	167.0	166.8	166.7	166.5
110°	189.7	189.9	190.1	190.2	190.3	190.4	190.4	190.1	189.9	189.6	189.4



TEST NUMBER: P332872

CATALOG NUMBER: S124RDIP-S350D590U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	212.2	212.3	212.5	212.7	213.0	213.2	213.3	213.2	213.2	213.1	213.1
115°	247.4	247.5	247.8	248.0	248.3	248.5	248.7	248.7	248.7	248.7	248.7
117.5°	281.4	281.9	282.0	282.2	282.4	282.6	282.6	282.5	282.4	282.3	282.2
120°	304.5	305.1	305.5	305.9	306.3	306.7	306.6	306.1	305.6	305.1	304.6
122.5°	327.5	328.0	328.1	328.3	328.5	328.7	328.6	328.4	328.2	328.0	327.8
125°	361.3	361.6	361.7	361.9	362.0	362.1	362.2	362.2	362.2	362.2	362.2
127.5°	393.9	394.1	394.3	394.5	394.7	394.9	394.8	394.5	394.1	393.7	393.3
130°	416.7	416.9	416.9	416.9	416.9	416.9	416.7	416.4	416.0	415.6	415.2
132.5°	438.1	438.4	438.5	438.6	438.7	438.8	438.7	438.4	438.1	437.9	437.6
135°	470.3	470.5	470.5	470.5	470.5	470.5	470.2	469.4	468.6	467.9	467.1
137.5°	501.5	501.8	501.6	501.4	501.2	501.0	500.7	500.3	500.0	499.6	499.3
140°	521.7	521.9	521.9	521.9	521.9	521.9	521.7	521.5	521.2	521.0	520.7
142.5°	541.0	541.0	541.1	541.2	541.3	541.4	541.4	541.1	540.9	540.6	540.3
145°	570.2	570.3	570.2	570.1	570.0	569.8	569.5	569.0	568.5	568.0	567.5
147.5°	596.6	596.7	596.8	596.9	597.0	597.1	596.9	596.2	595.6	595.0	594.4
150°	613.1	613.1	613.1	613.1	613.1	613.1	612.9	612.4	611.9	611.4	610.8
152.5°	628.5	628.2	628.1	628.0	627.9	627.8	627.6	627.3	627.0	626.7	626.4
155°	650.1	649.6	649.8	649.9	650.0	650.1	650.2	650.2	650.2	650.2	650.2
157.5°	669.5	669.1	669.2	669.2	669.2	669.2	669.4	669.6	669.8	670.0	670.3
160°	681.4	681.0	681.1	681.3	681.4	681.5	681.6	681.8	681.9	682.0	682.1
162.5°	691.7	691.0	691.2	691.3	691.4	691.5	691.8	692.1	692.4	692.8	693.1
165°	705.7	705.0	705.2	705.5	705.7	706.0	706.3	706.7	707.0	707.4	707.8
167.5°	717.6	716.8	716.8	716.8	716.7	716.7	717.0	717.5	718.0	718.6	719.1
170°	724.0	723.2	723.1	722.9	722.8	722.7	722.9	723.6	724.2	724.9	725.5
172.5°	728.6	727.8	727.7	727.7	727.7	727.7	727.9	728.5	729.0	729.5	730.0
175°	733.8	732.9	733.0	733.2	733.3	733.4	733.8	734.4	735.1	735.7	736.3
177.5°	736.8	736.1	736.1	736.1	736.1	736.1	736.3	736.9	737.4	737.9	738.4
180°	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5



TEST NUMBER: P332872

CATALOG NUMBER: S124RDIP-S350D590U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4
2.5°	591.0	592.7	594.6	598.2	601.2	602.6	605.2	607.1	606.5	609.2	613.7
5°	593.3	599.7	607.1	614.6	623.1	630.2	635.9	641.6	646.1	651.5	659.6
7.5°	592.9	604.3	616.7	630.2	644.2	656.3	667.4	678.8	688.9	699.9	714.4
10°	591.4	606.6	622.0	639.7	657.5	674.3	689.4	703.6	717.1	731.5	749.8
12.5°	589.7	607.1	625.7	647.1	669.2	689.4	707.2	727.7	744.6	763.2	784.2
15°	582.2	605.6	631.0	658.6	685.2	712.4	736.7	761.8	785.3	807.5	834.0
17.5°	573.6	600.6	630.5	663.2	695.0	728.1	757.1	788.7	812.6	842.5	867.1
20°	566.6	595.7	627.6	664.3	700.5	737.2	769.2	801.4	828.3	858.4	889.6
22.5°	558.1	590.0	624.6	662.6	700.5	740.6	776.0	808.0	841.4	875.2	907.4
25°	544.3	577.5	614.2	655.8	699.4	740.3	778.2	817.9	853.9	890.6	919.5
27.5°	527.5	562.3	600.9	643.9	688.6	730.5	775.1	817.5	853.7	889.0	914.2
30°	514.0	550.7	587.9	631.4	677.8	722.8	770.6	813.0	851.1	882.8	897.0
32.5°	500.2	535.0	573.3	617.4	664.9	713.3	760.7	804.1	839.3	858.3	858.7
35°	476.2	508.8	548.6	591.9	640.7	693.2	741.2	783.8	805.4	807.0	783.8
37.5°	450.0	479.9	517.4	560.8	614.2	666.5	715.5	743.9	751.1	727.0	684.2
40°	431.2	458.9	495.1	539.6	592.6	646.6	691.3	712.1	704.6	665.5	617.7
42.5°	411.5	437.3	472.2	516.1	569.3	623.9	662.0	673.1	653.1	608.0	552.0
45°	379.4	403.0	437.6	481.9	533.0	584.1	613.0	607.3	573.9	520.4	457.7
47.5°	345.9	368.8	399.9	440.8	493.2	537.3	556.8	539.7	492.2	433.4	382.4
50°	323.8	347.2	375.8	414.9	462.7	505.3	517.8	491.8	439.0	382.5	335.6
52.5°	302.0	322.0	350.1	387.8	433.5	469.5	476.2	446.2	391.7	341.0	299.4
55°	268.9	287.1	310.7	346.2	385.8	416.3	412.7	374.2	324.7	281.4	248.7
57.5°	236.8	250.5	272.4	305.7	340.4	360.9	347.9	315.0	268.9	233.4	205.9
60°	215.6	228.4	248.7	277.8	308.4	320.0	309.1	273.4	236.9	204.5	181.3
62.5°	195.5	206.8	224.3	251.3	276.0	282.9	271.2	240.0	207.2	179.5	160.3
65°	166.4	176.8	191.7	210.9	227.9	231.2	223.7	191.7	166.9	143.7	130.4
67.5°	139.9	146.7	158.4	174.9	184.0	185.9	171.3	151.2	129.3	115.1	105.1
70°	122.1	126.9	137.7	146.7	154.1	154.3	140.8	124.7	107.9	96.3	89.0
72.5°	104.9	109.4	117.7	123.8	129.5	127.6	115.3	102.6	89.0	80.2	74.8
75°	80.9	85.0	89.2	92.1	92.1	89.7	80.7	71.2	63.4	58.2	56.6
77.5°	58.8	62.1	63.6	63.1	62.3	58.6	52.9	46.7	43.9	41.5	40.2
80°	46.2	47.6	48.0	46.9	45.4	41.2	37.4	34.8	32.2	31.2	30.8
82.5°	34.2	35.5	34.2	34.6	31.4	27.9	25.8	24.9	23.9	23.5	23.0
85°	18.2	18.0	17.5	16.3	14.2	13.7	13.5	13.3	12.8	13.0	12.5
87.5°	6.9	6.6	6.1	6.2	6.4	6.3	6.6	6.9	7.1	7.0	7.5
90°	3.1	4.5	5.9	7.3	8.5	9.5	10.5	11.5	12.5	13.3	14.1
92.5°	13.8	15.4	17.0	18.6	19.7	20.5	21.2	21.9	22.6	23.0	23.5
95°	35.4	36.5	37.6	38.8	39.8	40.7	41.6	42.5	43.3	43.7	44.1
97.5°	60.7	61.6	62.5	63.4	64.4	65.4	66.5	67.5	68.6	69.0	69.5
100°	80.4	80.9	81.4	81.9	82.7	83.8	85.0	86.1	87.3	87.5	87.8
102.5°	101.0	101.2	101.4	101.6	102.3	103.3	104.3	105.4	106.4	106.8	107.1
105°	133.0	133.1	133.3	133.4	133.7	134.2	134.7	135.2	135.7	136.1	136.5
107.5°	166.7	166.8	167.0	167.2	167.3	167.3	167.4	167.5	167.6	167.9	168.3
110°	189.6	189.9	190.1	190.4	190.4	190.3	190.2	190.1	189.9	189.7	189.4





TEST NUMBER: P332872

CATALOG NUMBER: S124RDIP-S350D590U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	213.1	213.2	213.2	213.3	213.2	213.0	212.7	212.5	212.3	212.2	212.2
115°	248.7	248.7	248.7	248.7	248.5	248.3	248.0	247.8	247.5	247.4	247.3
117.5°	282.3	282.4	282.5	282.6	282.6	282.4	282.2	282.0	281.9	281.4	281.0
120°	305.1	305.6	306.1	306.6	306.7	306.3	305.9	305.5	305.1	304.5	303.9
122.5°	328.0	328.2	328.4	328.6	328.7	328.5	328.3	328.1	328.0	327.5	327.1
125°	362.2	362.2	362.2	362.2	362.1	362.0	361.9	361.7	361.6	361.3	361.1
127.5°	393.7	394.1	394.5	394.8	394.9	394.7	394.5	394.3	394.1	393.9	393.6
130°	415.6	416.0	416.4	416.7	416.9	416.9	416.9	416.9	416.9	416.7	416.4
132.5°	437.9	438.1	438.4	438.7	438.8	438.7	438.6	438.5	438.4	438.1	437.9
135°	467.9	468.6	469.4	470.2	470.5	470.5	470.5	470.5	470.5	470.3	470.0
137.5°	499.6	500.0	500.3	500.7	501.0	501.2	501.4	501.6	501.8	501.5	501.1
140°	521.0	521.2	521.5	521.7	521.9	521.9	521.9	521.9	521.9	521.7	521.6
142.5°	540.6	540.9	541.1	541.4	541.4	541.3	541.2	541.1	541.0	541.0	541.0
145°	568.0	568.5	569.0	569.5	569.8	570.0	570.1	570.2	570.3	570.2	570.1
147.5°	595.0	595.6	596.2	596.9	597.1	597.0	596.9	596.8	596.7	596.6	596.5
150°	611.4	611.9	612.4	612.9	613.1	613.1	613.1	613.1	613.1	613.1	613.1
152.5°	626.7	627.0	627.3	627.6	627.8	627.9	628.0	628.1	628.2	628.5	628.8
155°	650.2	650.2	650.2	650.2	650.1	650.0	649.9	649.8	649.6	650.1	650.6
157.5°	670.0	669.8	669.6	669.4	669.2	669.2	669.2	669.2	669.1	669.5	669.9
160°	682.0	681.9	681.8	681.6	681.5	681.4	681.3	681.1	681.0	681.4	681.8
162.5°	692.8	692.4	692.1	691.8	691.5	691.4	691.3	691.2	691.0	691.7	692.4
165°	707.4	707.0	706.7	706.3	706.0	705.7	705.5	705.2	705.0	705.7	706.5
167.5°	718.6	718.0	717.5	717.0	716.7	716.7	716.8	716.8	716.8	717.6	718.3
170°	724.9	724.2	723.6	722.9	722.7	722.8	722.9	723.1	723.2	724.0	724.7
172.5°	729.5	729.0	728.5	727.9	727.7	727.7	727.7	727.7	727.8	728.6	729.5
175°	735.7	735.1	734.4	733.8	733.4	733.3	733.2	733.0	732.9	733.8	734.7
177.5°	737.9	737.4	736.9	736.3	736.1	736.1	736.1	736.1	736.1	736.8	737.5
180°	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	587.4	587.4	587.4	587.4	587.4	587.4	587.4
2.5°	616.2	616.9	617.5	619.4	619.6	621.3	619.6
5°	667.2	670.5	675.7	680.9	681.4	684.7	678.8
7.5°	724.3	732.0	736.8	745.2	748.5	750.6	747.2
10°	763.7	770.8	783.4	789.5	795.7	796.6	793.8
12.5°	801.8	813.0	822.9	834.6	834.3	842.6	839.6
15°	852.5	864.1	877.8	890.8	895.5	895.5	899.3
17.5°	888.6	909.9	924.1	934.3	945.5	947.4	946.1
20°	913.1	936.0	951.2	964.4	972.0	974.1	974.1
22.5°	931.2	950.8	965.6	977.5	983.7	986.2	985.5
25°	943.8	960.6	969.6	973.2	974.8	974.4	969.9
27.5°	926.6	925.8	920.2	909.3	901.1	896.1	890.4
30°	893.7	881.3	867.1	851.5	831.4	816.0	811.3
32.5°	844.6	817.0	792.9	766.9	745.3	729.9	723.4
35°	749.8	706.0	670.2	639.0	616.3	602.1	597.3
37.5°	637.2	594.8	550.6	520.3	501.4	487.1	481.8
40°	565.6	519.5	480.9	452.5	433.1	419.1	418.9
42.5°	500.3	456.2	419.9	399.5	378.6	369.3	369.3
45°	409.7	374.4	343.6	327.5	315.0	307.4	305.3
47.5°	339.2	310.0	289.5	276.7	266.5	261.7	258.5
50°	299.6	274.1	257.7	246.6	240.9	234.8	234.3
52.5°	266.7	246.0	233.3	224.3	217.1	213.4	213.5
55°	224.1	207.8	198.8	191.9	186.3	183.4	182.2
57.5°	188.8	176.6	170.0	163.7	161.3	159.1	158.5
60°	166.9	158.6	152.4	147.4	143.9	143.2	142.9
62.5°	148.7	140.0	135.8	131.9	129.3	128.2	127.8
65°	122.6	116.2	112.4	109.3	108.4	106.7	106.5
67.5°	98.8	95.0	92.5	90.4	89.1	89.0	89.0
70°	84.3	82.1	80.0	78.8	78.1	77.6	77.6
72.5°	71.8	70.2	68.4	67.8	67.7	67.2	67.0
75°	54.7	53.0	53.3	52.1	51.1	49.9	49.2
77.5°	38.8	37.6	37.3	37.2	36.4	36.3	36.6
80°	30.1	28.9	28.6	28.9	28.6	27.9	27.9
82.5°	22.9	21.9	21.6	21.5	21.3	21.5	21.1
85°	12.3	11.8	11.8	11.8	12.3	12.1	11.8
87.5°	7.3	7.3	7.6	7.4	7.5	7.3	7.6
90°	14.8	15.6	16.1	16.4	16.6	16.9	17.1
92.5°	24.0	24.4	24.7	24.9	25.0	25.2	25.3
95°	44.5	44.9	45.1	45.1	45.1	45.1	45.1
97.5°	69.9	70.4	70.6	70.6	70.6	70.6	70.6
100°	88.0	88.3	88.4	88.4	88.4	88.4	88.4
102.5°	107.5	107.8	108.1	108.2	108.3	108.4	108.5
105°	136.9	137.3	137.6	138.0	138.4	138.8	139.2
107.5°	168.6	169.0	169.2	169.1	169.1	169.1	169.1
110°	189.2	188.9	189.0	189.4	189.7	190.1	190.5



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	212.1	212.1	212.1	212.2	212.2	212.3	212.4
115°	247.2	247.0	246.9	246.8	246.6	246.5	246.4
117.5°	280.6	280.1	279.8	279.5	279.3	279.0	278.8
120°	303.2	302.6	302.4	302.7	302.9	303.2	303.4
122.5°	326.7	326.2	325.8	325.3	324.9	324.4	324.0
125°	360.8	360.6	360.3	360.1	359.8	359.6	359.3
127.5°	393.4	393.1	392.9	392.7	392.5	392.3	392.1
130°	416.2	415.9	415.5	415.0	414.5	414.0	413.5
132.5°	437.6	437.4	437.1	436.9	436.7	436.5	436.3
135°	469.8	469.5	469.2	468.8	468.4	468.1	467.7
137.5°	500.8	500.5	500.3	500.4	500.5	500.6	500.7
140°	521.5	521.4	521.2	521.1	521.0	520.9	520.7
142.5°	541.0	540.9	540.9	540.9	540.9	540.8	540.8
145°	570.0	569.8	569.6	569.2	568.8	568.4	568.1
147.5°	596.4	596.3	596.2	596.1	595.9	595.8	595.7
150°	613.1	613.1	613.1	612.9	612.8	612.7	612.6
152.5°	629.1	629.4	629.4	629.1	628.7	628.4	628.1
155°	651.1	651.7	651.7	651.1	650.6	650.1	649.6
157.5°	670.3	670.7	670.6	670.2	669.8	669.3	668.9
160°	682.1	682.5	682.4	681.8	681.1	680.5	679.9
162.5°	693.1	693.8	693.8	693.2	692.5	691.9	691.3
165°	707.2	708.0	708.1	707.6	707.1	706.6	706.1
167.5°	719.1	719.9	719.8	719.1	718.3	717.5	716.7
170°	725.5	726.2	726.2	725.3	724.4	723.5	722.6
172.5°	730.4	731.2	731.2	730.3	729.4	728.5	727.7
175°	735.6	736.4	736.4	735.6	734.7	733.8	732.9
177.5°	738.2	738.9	738.9	738.1	737.3	736.4	735.6
180°	737.5	737.5	737.5	737.5	737.5	737.5	737.5

(END OF REPORT)