

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: P332871

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332871  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,  
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-A  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 350 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 590 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3846.2 lumens  
Efficiency: N/A  
Efficacy: 150.2 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39  
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')  
CIE Type: Semi-Indirect

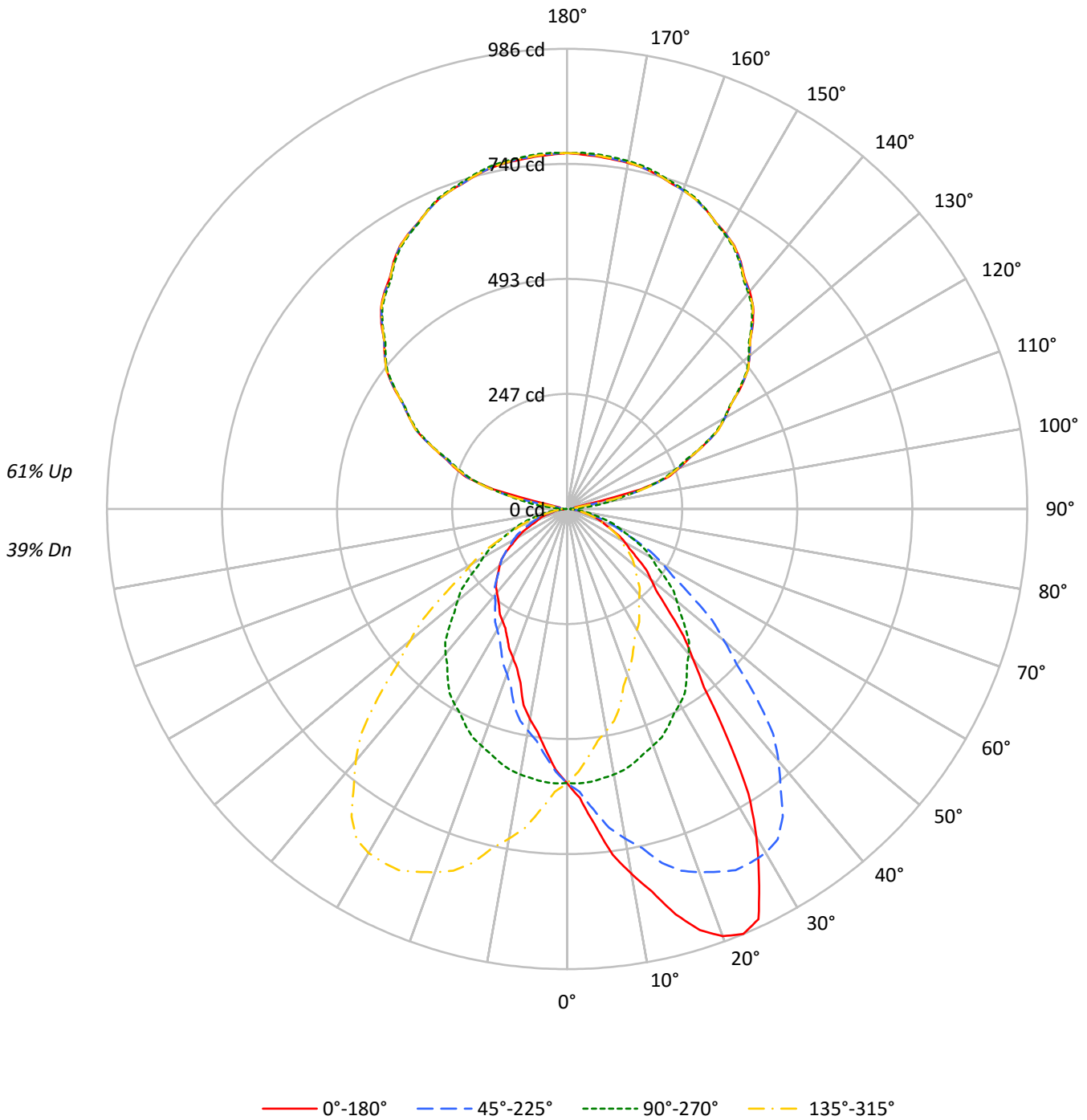
Input Watts (W): 25.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	104	104	104	104	95	95	95	95	77	77	77	61	61	61	46	46	46	39				
1	96	91	88	84	87	83	80	77	68	66	64	54	52	51	41	40	39	33				
2	87	80	74	70	79	73	68	64	60	56	53	48	45	43	36	35	34	28				
3	80	71	64	58	72	65	59	54	53	49	45	42	39	37	33	31	29	24				
4	73	63	55	49	66	57	51	46	47	43	39	38	35	32	29	27	25	21				
5	67	56	48	42	61	51	45	39	42	37	34	34	31	28	27	24	22	19				
6	62	50	42	37	56	46	39	34	38	33	29	31	27	24	24	22	20	17				
7	57	45	38	32	52	42	35	30	35	30	26	28	24	22	22	19	17	15				
8	53	41	34	29	48	38	31	27	32	27	23	26	22	19	20	18	16	13				
9	49	38	30	25	45	35	28	24	29	24	21	24	20	17	19	16	14	12				
10	46	34	27	23	42	32	26	21	27	22	18	22	18	16	17	15	13	11				

**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	1.5
10°-20°	171.7	4.5
20°-30°	268.5	7.0
30°-40°	298.5	7.8
40°-50°	264.9	6.9
50°-60°	206.4	5.4
60°-70°	135.1	3.5
70°-80°	66.4	1.7
80°-90°	18.6	0.5
90°-100°	26.1	0.7
100°-110°	166.3	4.3
110°-120°	318.2	8.3
120°-130°	403.9	10.5
130°-140°	432.1	11.2
140°-150°	404.1	10.5
150°-160°	325.9	8.5
160°-170°	210.2	5.5
170°-180°	72.4	1.9
0°-30°	497.1	12.9
0°-40°	795.6	20.7
0°-60°	1266.9	32.9
0°-90°	1487.0	38.7
90°-120°	510.6	13.3
90°-150°	1750.6	45.5
90°-180°	2359.0	61.3
0°-180°	3846.2	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	8
95°	16	31	16	31	16	13
105°	163	172	163	172	163	142
115°	323	321	323	321	323	320
125°	454	451	454	451	454	404
135°	563	559	563	559	563	433
145°	648	645	648	645	648	405
155°	706	707	706	707	706	326
165°	742	746	742	746	742	210
175°	758	763	758	763	758	72
180°	763	763	763	763	763	



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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°	15.7	15.7	15.6	15.6	15.5	15.1	14.4	13.6	12.9	12.1	11.1
95°	16.5	16.4	16.3	16.2	16.0	15.6	14.8	14.1	13.3	12.5	12.4
97.5°	16.0	15.8	15.7	15.6	15.5	15.4	15.3	15.2	15.1	15.1	29.2
100°	16.0	15.8	15.7	15.6	15.5	16.5	18.6	20.8	22.9	25.1	42.6
102.5°	16.4	16.4	16.4	16.4	16.3	27.9	51.2	74.4	97.7	120.9	123.2
105°	162.6	167.1	171.7	176.3	180.8	182.5	181.4	180.3	179.1	178.0	177.3
107.5°	226.6	226.1	225.6	225.1	224.6	224.1	223.6	223.0	222.5	221.9	221.0
110°	254.4	254.0	253.6	253.3	252.9	252.6	252.3	252.1	251.8	251.6	250.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	282.2	281.8	281.3	280.8	280.3	280.1	280.2	280.2	280.3	280.3	280.0
115°	322.9	322.9	322.9	322.9	322.9	322.7	322.5	322.2	322.0	321.7	321.8
117.5°	364.2	364.2	364.3	364.3	364.4	364.4	364.5	364.5	364.6	364.6	364.3
120°	390.2	390.4	390.7	390.9	391.2	391.2	390.9	390.7	390.4	390.2	390.3
122.5°	415.7	416.0	416.2	416.5	416.7	416.8	416.6	416.5	416.3	416.2	416.0
125°	454.1	453.9	453.8	453.7	453.6	453.3	452.9	452.5	452.2	451.8	452.0
127.5°	487.7	487.8	487.9	488.0	488.1	488.2	488.3	488.4	488.4	488.5	487.9
130°	510.5	510.5	510.5	510.5	510.5	510.5	510.3	510.2	510.1	510.0	509.6
132.5°	531.5	531.6	531.7	531.8	531.9	531.9	531.8	531.7	531.5	531.4	530.9
135°	563.0	562.8	562.5	562.2	562.0	561.7	561.5	561.2	561.0	560.7	560.2
137.5°	589.9	590.0	590.1	590.2	590.2	590.1	589.9	589.6	589.3	589.0	588.5
140°	608.6	608.5	608.4	608.3	608.1	607.9	607.5	607.1	606.7	606.4	606.1
142.5°	624.2	624.1	624.1	624.1	624.1	623.9	623.6	623.3	623.1	622.8	622.6
145°	648.0	647.8	647.5	647.2	647.0	646.8	646.7	646.5	646.4	646.3	646.3
147.5°	667.7	667.6	667.5	667.4	667.2	667.1	667.0	666.9	666.8	666.7	666.8
150°	680.5	680.4	680.3	680.1	680.0	679.9	679.9	679.9	679.9	679.9	680.1
152.5°	691.5	691.5	691.6	691.7	691.8	691.7	691.5	691.3	691.1	690.9	691.1
155°	706.2	706.6	706.9	707.3	707.7	707.6	707.1	706.6	706.1	705.6	706.0
157.5°	718.5	719.2	719.8	720.5	721.1	721.1	720.5	719.8	719.2	718.5	718.9
160°	726.7	727.5	728.2	729.0	729.8	729.8	729.0	728.2	727.5	726.7	726.8
162.5°	733.1	734.0	734.8	735.7	736.6	736.6	735.8	735.1	734.3	733.6	733.7
165°	742.1	743.3	744.4	745.5	746.7	746.8	745.7	744.7	743.7	742.7	742.7
167.5°	748.9	750.1	751.4	752.7	753.9	754.0	752.9	751.8	750.7	749.5	749.6
170°	753.0	754.2	755.5	756.8	758.0	758.2	757.1	756.1	755.1	754.1	754.0
172.5°	755.2	756.6	758.0	759.4	760.7	760.9	759.9	758.9	757.9	756.8	756.7
175°	758.1	759.6	761.1	762.7	764.2	764.4	763.2	762.1	760.9	759.8	759.7
177.5°	759.9	761.1	762.4	763.6	764.8	765.0	764.2	763.4	762.6	761.7	761.5
180°	762.7	762.7	762.7	762.7	762.7	762.7	762.7	762.7	762.7	762.7	762.7



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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°	10.1	9.1	8.0	7.5	7.4	7.3	7.3	7.2	7.3	7.3	7.4
95°	12.3	12.2	12.0	14.1	18.4	22.8	27.1	31.4	27.1	22.8	18.4
97.5°	43.4	57.5	71.6	77.4	74.7	72.0	69.3	66.6	69.3	72.0	74.7
100°	60.1	77.6	95.1	102.7	100.4	98.1	95.8	93.5	95.8	98.1	100.4
102.5°	125.5	127.8	130.1	130.4	128.7	127.0	125.3	123.7	125.3	127.0	128.7
105°	176.7	176.1	175.4	174.7	174.0	173.2	172.5	171.7	172.5	173.2	174.0
107.5°	220.2	219.3	218.4	217.8	217.4	217.1	216.7	216.3	216.7	217.1	217.4
110°	250.0	249.3	248.5	247.9	247.6	247.2	246.8	246.4	246.8	247.2	247.6





TEST NUMBER: P332871

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

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	279.6	279.2	278.9	278.4	277.7	277.0	276.3	275.6	276.3	277.0	277.7
115°	322.0	322.1	322.2	322.1	321.7	321.3	321.0	320.6	321.0	321.3	321.7
117.5°	364.1	363.8	363.5	363.1	362.6	362.1	361.6	361.1	361.6	362.1	362.6
120°	390.4	390.6	390.7	390.5	390.0	389.5	389.0	388.5	389.0	389.5	390.0
122.5°	415.8	415.7	415.5	415.2	414.9	414.6	414.3	414.0	414.3	414.6	414.9
125°	452.3	452.5	452.8	452.7	452.2	451.7	451.1	450.6	451.1	451.7	452.2
127.5°	487.3	486.8	486.2	485.8	485.7	485.6	485.4	485.3	485.4	485.6	485.7
130°	509.2	508.8	508.4	508.2	508.1	507.9	507.8	507.7	507.8	507.9	508.1
132.5°	530.4	530.0	529.5	529.1	528.9	528.7	528.4	528.2	528.4	528.7	528.9
135°	559.7	559.2	558.7	558.5	558.6	558.8	558.9	559.0	558.9	558.8	558.6
137.5°	587.9	587.3	586.8	586.5	586.4	586.4	586.3	586.3	586.3	586.4	586.4
140°	605.9	605.6	605.3	605.1	604.8	604.6	604.3	604.1	604.3	604.6	604.8
142.5°	622.5	622.3	622.2	621.9	621.4	621.0	620.5	620.1	620.5	621.0	621.4
145°	646.3	646.3	646.3	646.1	645.7	645.3	645.0	644.6	645.0	645.3	645.7
147.5°	667.0	667.1	667.2	666.9	666.2	665.5	664.8	664.1	664.8	665.5	666.2
150°	680.2	680.3	680.5	680.3	679.8	679.3	678.7	678.2	678.7	679.3	679.8
152.5°	691.4	691.6	691.8	691.7	691.3	690.9	690.5	690.1	690.5	690.9	691.3
155°	706.4	706.8	707.1	707.3	707.1	707.0	706.9	706.8	706.9	707.0	707.1
157.5°	719.4	719.8	720.2	720.5	720.6	720.6	720.7	720.8	720.7	720.6	720.6
160°	727.0	727.1	727.2	727.5	727.9	728.2	728.6	729.0	728.6	728.2	727.9
162.5°	733.8	733.9	734.1	734.4	734.9	735.3	735.8	736.3	735.8	735.3	734.9
165°	742.7	742.7	742.7	743.0	743.6	744.3	744.9	745.5	744.9	744.3	743.6
167.5°	749.7	749.8	749.8	750.2	750.9	751.5	752.2	752.8	752.2	751.5	750.9
170°	753.8	753.7	753.6	753.9	754.7	755.4	756.2	757.0	756.2	755.4	754.7
172.5°	756.6	756.5	756.3	756.7	757.4	758.2	758.9	759.7	758.9	758.2	757.4
175°	759.6	759.4	759.3	759.6	760.4	761.1	761.9	762.7	761.9	761.1	760.4
177.5°	761.3	761.1	760.9	761.2	761.9	762.6	763.3	764.0	763.3	762.6	761.9
180°	762.7	762.7	762.7	762.7	762.7	762.7	762.7	762.7	762.7	762.7	762.7



TEST NUMBER: P332871

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

**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°	7.5	8.0	9.1	10.1	11.1	12.1	12.9	13.6	14.4	15.1	15.5
95°	14.1	12.0	12.2	12.3	12.4	12.5	13.3	14.1	14.8	15.6	16.0
97.5°	77.4	71.6	57.5	43.4	29.2	15.1	15.1	15.2	15.3	15.4	15.5
100°	102.7	95.1	77.6	60.1	42.6	25.1	22.9	20.8	18.6	16.5	15.5
102.5°	130.4	130.1	127.8	125.5	123.2	120.9	97.7	74.4	51.2	27.9	16.3
105°	174.7	175.4	176.1	176.7	177.3	178.0	179.1	180.3	181.4	182.5	180.8
107.5°	217.8	218.4	219.3	220.2	221.0	221.9	222.5	223.0	223.6	224.1	224.6
110°	247.9	248.5	249.3	250.0	250.8	251.6	251.8	252.1	252.3	252.6	252.9



TEST NUMBER: P332871

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

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	278.4	278.9	279.2	279.6	280.0	280.3	280.3	280.2	280.2	280.1	280.3
115°	322.1	322.2	322.1	322.0	321.8	321.7	322.0	322.2	322.5	322.7	322.9
117.5°	363.1	363.5	363.8	364.1	364.3	364.6	364.6	364.5	364.5	364.4	364.4
120°	390.5	390.7	390.6	390.4	390.3	390.2	390.4	390.7	390.9	391.2	391.2
122.5°	415.2	415.5	415.7	415.8	416.0	416.2	416.3	416.5	416.6	416.8	416.7
125°	452.7	452.8	452.5	452.3	452.0	451.8	452.2	452.5	452.9	453.3	453.6
127.5°	485.8	486.2	486.8	487.3	487.9	488.5	488.4	488.4	488.3	488.2	488.1
130°	508.2	508.4	508.8	509.2	509.6	510.0	510.1	510.2	510.3	510.5	510.5
132.5°	529.1	529.5	530.0	530.4	530.9	531.4	531.5	531.7	531.8	531.9	531.9
135°	558.5	558.7	559.2	559.7	560.2	560.7	561.0	561.2	561.5	561.7	562.0
137.5°	586.5	586.8	587.3	587.9	588.5	589.0	589.3	589.6	589.9	590.1	590.2
140°	605.1	605.3	605.6	605.9	606.1	606.4	606.7	607.1	607.5	607.9	608.1
142.5°	621.9	622.2	622.3	622.5	622.6	622.8	623.1	623.3	623.6	623.9	624.1
145°	646.1	646.3	646.3	646.3	646.3	646.3	646.4	646.5	646.7	646.8	647.0
147.5°	666.9	667.2	667.1	667.0	666.8	666.7	666.8	666.9	667.0	667.1	667.2
150°	680.3	680.5	680.3	680.2	680.1	679.9	679.9	679.9	679.9	679.9	680.0
152.5°	691.7	691.8	691.6	691.4	691.1	690.9	691.1	691.3	691.5	691.7	691.8
155°	707.3	707.1	706.8	706.4	706.0	705.6	706.1	706.6	707.1	707.6	707.7
157.5°	720.5	720.2	719.8	719.4	718.9	718.5	719.2	719.8	720.5	721.1	721.1
160°	727.5	727.2	727.1	727.0	726.8	726.7	727.5	728.2	729.0	729.8	729.8
162.5°	734.4	734.1	733.9	733.8	733.7	733.6	734.3	735.1	735.8	736.6	736.6
165°	743.0	742.7	742.7	742.7	742.7	742.7	743.7	744.7	745.7	746.8	746.7
167.5°	750.2	749.8	749.8	749.7	749.6	749.5	750.7	751.8	752.9	754.0	753.9
170°	753.9	753.6	753.7	753.8	754.0	754.1	755.1	756.1	757.1	758.2	758.0
172.5°	756.7	756.3	756.5	756.6	756.7	756.8	757.9	758.9	759.9	760.9	760.7
175°	759.6	759.3	759.4	759.6	759.7	759.8	760.9	762.1	763.2	764.4	764.2
177.5°	761.2	760.9	761.1	761.3	761.5	761.7	762.6	763.4	764.2	765.0	764.8
180°	762.7	762.7	762.7	762.7	762.7	762.7	762.7	762.7	762.7	762.7	762.7



TEST NUMBER: P332871

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

**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°	15.6	15.6	15.7	15.7	15.7	15.6	15.6	15.5	15.1	14.4	13.6
95°	16.2	16.3	16.4	16.5	16.4	16.3	16.2	16.0	15.6	14.8	14.1
97.5°	15.6	15.7	15.8	16.0	15.8	15.7	15.6	15.5	15.4	15.3	15.2
100°	15.6	15.7	15.8	16.0	15.8	15.7	15.6	15.5	16.5	18.6	20.8
102.5°	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.3	27.9	51.2	74.4
105°	176.3	171.7	167.1	162.6	167.1	171.7	176.3	180.8	182.5	181.4	180.3
107.5°	225.1	225.6	226.1	226.6	226.1	225.6	225.1	224.6	224.1	223.6	223.0
110°	253.3	253.6	254.0	254.4	254.0	253.6	253.3	252.9	252.6	252.3	252.1



TEST NUMBER: P332871

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

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	280.8	281.3	281.8	282.2	281.8	281.3	280.8	280.3	280.1	280.2	280.2
115°	322.9	322.9	322.9	322.9	322.9	322.9	322.9	322.9	322.7	322.5	322.2
117.5°	364.3	364.3	364.2	364.2	364.2	364.3	364.3	364.4	364.4	364.5	364.5
120°	390.9	390.7	390.4	390.2	390.4	390.7	390.9	391.2	391.2	390.9	390.7
122.5°	416.5	416.2	416.0	415.7	416.0	416.2	416.5	416.7	416.8	416.6	416.5
125°	453.7	453.8	453.9	454.1	453.9	453.8	453.7	453.6	453.3	452.9	452.5
127.5°	488.0	487.9	487.8	487.7	487.8	487.9	488.0	488.1	488.2	488.3	488.4
130°	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.3	510.2
132.5°	531.8	531.7	531.6	531.5	531.6	531.7	531.8	531.9	531.9	531.8	531.7
135°	562.2	562.5	562.8	563.0	562.8	562.5	562.2	562.0	561.7	561.5	561.2
137.5°	590.2	590.1	590.0	589.9	590.0	590.1	590.2	590.2	590.1	589.9	589.6
140°	608.3	608.4	608.5	608.6	608.5	608.4	608.3	608.1	607.9	607.5	607.1
142.5°	624.1	624.1	624.1	624.2	624.1	624.1	624.1	624.1	623.9	623.6	623.3
145°	647.2	647.5	647.8	648.0	647.8	647.5	647.2	647.0	646.8	646.7	646.5
147.5°	667.4	667.5	667.6	667.7	667.6	667.5	667.4	667.2	667.1	667.0	666.9
150°	680.1	680.3	680.4	680.5	680.4	680.3	680.1	680.0	679.9	679.9	679.9
152.5°	691.7	691.6	691.5	691.5	691.5	691.6	691.7	691.8	691.7	691.5	691.3
155°	707.3	706.9	706.6	706.2	706.6	706.9	707.3	707.7	707.6	707.1	706.6
157.5°	720.5	719.8	719.2	718.5	719.2	719.8	720.5	721.1	721.1	720.5	719.8
160°	729.0	728.2	727.5	726.7	727.5	728.2	729.0	729.8	729.8	729.0	728.2
162.5°	735.7	734.8	734.0	733.1	734.0	734.8	735.7	736.6	736.6	735.8	735.1
165°	745.5	744.4	743.3	742.1	743.3	744.4	745.5	746.7	746.8	745.7	744.7
167.5°	752.7	751.4	750.1	748.9	750.1	751.4	752.7	753.9	754.0	752.9	751.8
170°	756.8	755.5	754.2	753.0	754.2	755.5	756.8	758.0	758.2	757.1	756.1
172.5°	759.4	758.0	756.6	755.2	756.6	758.0	759.4	760.7	760.9	759.9	758.9
175°	762.7	761.1	759.6	758.1	759.6	761.1	762.7	764.2	764.4	763.2	762.1
177.5°	763.6	762.4	761.1	759.9	761.1	762.4	763.6	764.8	765.0	764.2	763.4
180°	762.7	762.7	762.7	762.7	762.7	762.7	762.7	762.7	762.7	762.7	762.7



TEST NUMBER: P332871

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

**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°	12.9	12.1	11.1	10.1	9.1	8.0	7.5	7.4	7.3	7.3	7.2
95°	13.3	12.5	12.4	12.3	12.2	12.0	14.1	18.4	22.8	27.1	31.4
97.5°	15.1	15.1	29.2	43.4	57.5	71.6	77.4	74.7	72.0	69.3	66.6
100°	22.9	25.1	42.6	60.1	77.6	95.1	102.7	100.4	98.1	95.8	93.5
102.5°	97.7	120.9	123.2	125.5	127.8	130.1	130.4	128.7	127.0	125.3	123.7
105°	179.1	178.0	177.3	176.7	176.1	175.4	174.7	174.0	173.2	172.5	171.7
107.5°	222.5	221.9	221.0	220.2	219.3	218.4	217.8	217.4	217.1	216.7	216.3
110°	251.8	251.6	250.8	250.0	249.3	248.5	247.9	247.6	247.2	246.8	246.4



TEST NUMBER: P332871

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

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	280.3	280.3	280.0	279.6	279.2	278.9	278.4	277.7	277.0	276.3	275.6
115°	322.0	321.7	321.8	322.0	322.1	322.2	322.1	321.7	321.3	321.0	320.6
117.5°	364.6	364.6	364.3	364.1	363.8	363.5	363.1	362.6	362.1	361.6	361.1
120°	390.4	390.2	390.3	390.4	390.6	390.7	390.5	390.0	389.5	389.0	388.5
122.5°	416.3	416.2	416.0	415.8	415.7	415.5	415.2	414.9	414.6	414.3	414.0
125°	452.2	451.8	452.0	452.3	452.5	452.8	452.7	452.2	451.7	451.1	450.6
127.5°	488.4	488.5	487.9	487.3	486.8	486.2	485.8	485.7	485.6	485.4	485.3
130°	510.1	510.0	509.6	509.2	508.8	508.4	508.2	508.1	507.9	507.8	507.7
132.5°	531.5	531.4	530.9	530.4	530.0	529.5	529.1	528.9	528.7	528.4	528.2
135°	561.0	560.7	560.2	559.7	559.2	558.7	558.5	558.6	558.8	558.9	559.0
137.5°	589.3	589.0	588.5	587.9	587.3	586.8	586.5	586.4	586.4	586.3	586.3
140°	606.7	606.4	606.1	605.9	605.6	605.3	605.1	604.8	604.6	604.3	604.1
142.5°	623.1	622.8	622.6	622.5	622.3	622.2	621.9	621.4	621.0	620.5	620.1
145°	646.4	646.3	646.3	646.3	646.3	646.3	646.1	645.7	645.3	645.0	644.6
147.5°	666.8	666.7	666.8	667.0	667.1	667.2	666.9	666.2	665.5	664.8	664.1
150°	679.9	679.9	680.1	680.2	680.3	680.5	680.3	679.8	679.3	678.7	678.2
152.5°	691.1	690.9	691.1	691.4	691.6	691.8	691.7	691.3	690.9	690.5	690.1
155°	706.1	705.6	706.0	706.4	706.8	707.1	707.3	707.1	707.0	706.9	706.8
157.5°	719.2	718.5	718.9	719.4	719.8	720.2	720.5	720.6	720.6	720.7	720.8
160°	727.5	726.7	726.8	727.0	727.1	727.2	727.5	727.9	728.2	728.6	729.0
162.5°	734.3	733.6	733.7	733.8	733.9	734.1	734.4	734.9	735.3	735.8	736.3
165°	743.7	742.7	742.7	742.7	742.7	742.7	743.0	743.6	744.3	744.9	745.5
167.5°	750.7	749.5	749.6	749.7	749.8	749.8	750.2	750.9	751.5	752.2	752.8
170°	755.1	754.1	754.0	753.8	753.7	753.6	753.9	754.7	755.4	756.2	757.0
172.5°	757.9	756.8	756.7	756.6	756.5	756.3	756.7	757.4	758.2	758.9	759.7
175°	760.9	759.8	759.7	759.6	759.4	759.3	759.6	760.4	761.1	761.9	762.7
177.5°	762.6	761.7	761.5	761.3	761.1	760.9	761.2	761.9	762.6	763.3	764.0
180°	762.7	762.7	762.7	762.7	762.7	762.7	762.7	762.7	762.7	762.7	762.7



TEST NUMBER: P332871

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

**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°	7.3	7.3	7.4	7.5	8.0	9.1	10.1	11.1	12.1	12.9	13.6
95°	27.1	22.8	18.4	14.1	12.0	12.2	12.3	12.4	12.5	13.3	14.1
97.5°	69.3	72.0	74.7	77.4	71.6	57.5	43.4	29.2	15.1	15.1	15.2
100°	95.8	98.1	100.4	102.7	95.1	77.6	60.1	42.6	25.1	22.9	20.8
102.5°	125.3	127.0	128.7	130.4	130.1	127.8	125.5	123.2	120.9	97.7	74.4
105°	172.5	173.2	174.0	174.7	175.4	176.1	176.7	177.3	178.0	179.1	180.3
107.5°	216.7	217.1	217.4	217.8	218.4	219.3	220.2	221.0	221.9	222.5	223.0
110°	246.8	247.2	247.6	247.9	248.5	249.3	250.0	250.8	251.6	251.8	252.1





TEST NUMBER: P332871

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

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	276.3	277.0	277.7	278.4	278.9	279.2	279.6	280.0	280.3	280.3	280.2
115°	321.0	321.3	321.7	322.1	322.2	322.1	322.0	321.8	321.7	322.0	322.2
117.5°	361.6	362.1	362.6	363.1	363.5	363.8	364.1	364.3	364.6	364.6	364.5
120°	389.0	389.5	390.0	390.5	390.7	390.6	390.4	390.3	390.2	390.4	390.7
122.5°	414.3	414.6	414.9	415.2	415.5	415.7	415.8	416.0	416.2	416.3	416.5
125°	451.1	451.7	452.2	452.7	452.8	452.5	452.3	452.0	451.8	452.2	452.5
127.5°	485.4	485.6	485.7	485.8	486.2	486.8	487.3	487.9	488.5	488.4	488.4
130°	507.8	507.9	508.1	508.2	508.4	508.8	509.2	509.6	510.0	510.1	510.2
132.5°	528.4	528.7	528.9	529.1	529.5	530.0	530.4	530.9	531.4	531.5	531.7
135°	558.9	558.8	558.6	558.5	558.7	559.2	559.7	560.2	560.7	561.0	561.2
137.5°	586.3	586.4	586.4	586.5	586.8	587.3	587.9	588.5	589.0	589.3	589.6
140°	604.3	604.6	604.8	605.1	605.3	605.6	605.9	606.1	606.4	606.7	607.1
142.5°	620.5	621.0	621.4	621.9	622.2	622.3	622.5	622.6	622.8	623.1	623.3
145°	645.0	645.3	645.7	646.1	646.3	646.3	646.3	646.3	646.3	646.4	646.5
147.5°	664.8	665.5	666.2	666.9	667.2	667.1	667.0	666.8	666.7	666.8	666.9
150°	678.7	679.3	679.8	680.3	680.5	680.3	680.2	680.1	679.9	679.9	679.9
152.5°	690.5	690.9	691.3	691.7	691.8	691.6	691.4	691.1	690.9	691.1	691.3
155°	706.9	707.0	707.1	707.3	707.1	706.8	706.4	706.0	705.6	706.1	706.6
157.5°	720.7	720.6	720.6	720.5	720.2	719.8	719.4	718.9	718.5	719.2	719.8
160°	728.6	728.2	727.9	727.5	727.2	727.1	727.0	726.8	726.7	727.5	728.2
162.5°	735.8	735.3	734.9	734.4	734.1	733.9	733.8	733.7	733.6	734.3	735.1
165°	744.9	744.3	743.6	743.0	742.7	742.7	742.7	742.7	742.7	743.7	744.7
167.5°	752.2	751.5	750.9	750.2	749.8	749.8	749.7	749.6	749.5	750.7	751.8
170°	756.2	755.4	754.7	753.9	753.6	753.7	753.8	754.0	754.1	755.1	756.1
172.5°	758.9	758.2	757.4	756.7	756.3	756.5	756.6	756.7	756.8	757.9	758.9
175°	761.9	761.1	760.4	759.6	759.3	759.4	759.6	759.7	759.8	760.9	762.1
177.5°	763.3	762.6	761.9	761.2	760.9	761.1	761.3	761.5	761.7	762.6	763.4
180°	762.7	762.7	762.7	762.7	762.7	762.7	762.7	762.7	762.7	762.7	762.7



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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°	14.4	15.1	15.5	15.6	15.6	15.7	15.7
95°	14.8	15.6	16.0	16.2	16.3	16.4	16.5
97.5°	15.3	15.4	15.5	15.6	15.7	15.8	16.0
100°	18.6	16.5	15.5	15.6	15.7	15.8	16.0
102.5°	51.2	27.9	16.3	16.4	16.4	16.4	16.4
105°	181.4	182.5	180.8	176.3	171.7	167.1	162.6
107.5°	223.6	224.1	224.6	225.1	225.6	226.1	226.6
110°	252.3	252.6	252.9	253.3	253.6	254.0	254.4



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	280.2	280.1	280.3	280.8	281.3	281.8	282.2
115°	322.5	322.7	322.9	322.9	322.9	322.9	322.9
117.5°	364.5	364.4	364.4	364.3	364.3	364.2	364.2
120°	390.9	391.2	391.2	390.9	390.7	390.4	390.2
122.5°	416.6	416.8	416.7	416.5	416.2	416.0	415.7
125°	452.9	453.3	453.6	453.7	453.8	453.9	454.1
127.5°	488.3	488.2	488.1	488.0	487.9	487.8	487.7
130°	510.3	510.5	510.5	510.5	510.5	510.5	510.5
132.5°	531.8	531.9	531.9	531.8	531.7	531.6	531.5
135°	561.5	561.7	562.0	562.2	562.5	562.8	563.0
137.5°	589.9	590.1	590.2	590.2	590.1	590.0	589.9
140°	607.5	607.9	608.1	608.3	608.4	608.5	608.6
142.5°	623.6	623.9	624.1	624.1	624.1	624.1	624.2
145°	646.7	646.8	647.0	647.2	647.5	647.8	648.0
147.5°	667.0	667.1	667.2	667.4	667.5	667.6	667.7
150°	679.9	679.9	680.0	680.1	680.3	680.4	680.5
152.5°	691.5	691.7	691.8	691.7	691.6	691.5	691.5
155°	707.1	707.6	707.7	707.3	706.9	706.6	706.2
157.5°	720.5	721.1	721.1	720.5	719.8	719.2	718.5
160°	729.0	729.8	729.8	729.0	728.2	727.5	726.7
162.5°	735.8	736.6	736.6	735.7	734.8	734.0	733.1
165°	745.7	746.8	746.7	745.5	744.4	743.3	742.1
167.5°	752.9	754.0	753.9	752.7	751.4	750.1	748.9
170°	757.1	758.2	758.0	756.8	755.5	754.2	753.0
172.5°	759.9	760.9	760.7	759.4	758.0	756.6	755.2
175°	763.2	764.4	764.2	762.7	761.1	759.6	758.1
177.5°	764.2	765.0	764.8	763.6	762.4	761.1	759.9
180°	762.7	762.7	762.7	762.7	762.7	762.7	762.7

(END OF REPORT)