

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: P333015-840

Luminaire Tested: **S124RDIW-S350D470U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P333015-840  
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: S124RDIW-S350D470U840-4F0-1E-UDD-A  
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 350 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 470 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3394.1 lumens  
Efficiency: N/A  
Efficacy: 147.6 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

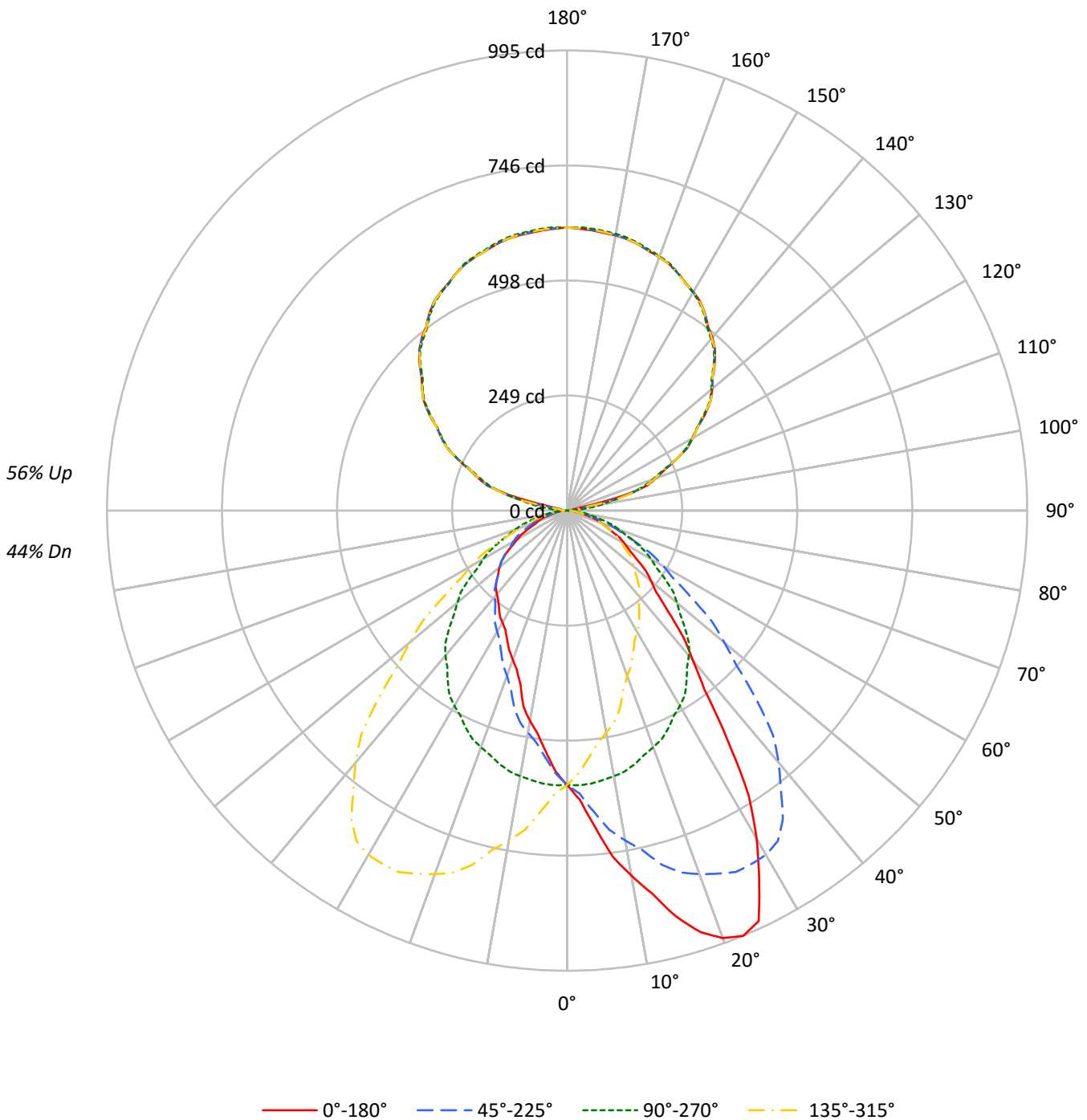
Input Watts (W): 23  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20										
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	0														
RCR																																						
0	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	44																				
1	97	93	89	86	89	85	82	79	71	69	67	58	56	55	46	45	44	38																				
2	89	81	76	71	81	75	70	66	63	59	56	51	49	46	41	39	37	33																				
3	81	72	65	59	74	66	60	55	55	51	47	45	42	40	36	34	32	28																				
4	74	64	56	50	68	59	52	47	49	45	41	41	37	34	33	30	28	24																				
5	68	57	49	43	62	53	46	41	44	39	35	37	33	30	30	27	25	21																				
6	63	51	43	38	58	47	40	35	40	35	31	33	29	26	27	24	22	19																				
7	58	46	39	33	53	43	36	31	36	31	27	30	26	23	25	22	20	17																				
8	54	42	34	29	49	39	32	28	33	28	24	28	24	21	23	20	18	15																				
9	50	38	31	26	46	36	29	25	30	25	22	26	22	19	21	18	16	14																				
10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	19	17	14	12																				

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

	0°	90°	180°	270°
0°	4789	4789	4789	4789
5°	5555	4803	4246	4803
10°	6571	4782	3789	4782
15°	7590	4738	3256	4738
20°	8451	4677	2944	4677
25°	8725	4618	2734	4618
30°	7637	4545	2606	4545
35°	5945	4438	2530	4438
40°	4458	4314	2488	4314
45°	3520	4117	2466	4117
50°	2972	3890	2396	3890
55°	2590	3640	2267	3640
60°	2330	3379	2007	3379
65°	2055	3100	1727	3100
70°	1851	2811	1555	2811
75°	1550	2489	1326	2489
80°	1311	2120	1246	2120
85°	1102	1667	1102	1667



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.5	1.7
10°-20°	173.4	5.1
20°-30°	271.2	8.0
30°-40°	301.5	8.9
40°-50°	267.5	7.9
50°-60°	208.4	6.1
60°-70°	136.5	4.0
70°-80°	67.1	2.0
80°-90°	18.3	0.5
90°-100°	20.9	0.6
100°-110°	133.4	3.9
110°-120°	255.3	7.5
120°-130°	324.0	9.5
130°-140°	346.7	10.2
140°-150°	324.2	9.6
150°-160°	261.4	7.7
160°-170°	168.6	5.0
170°-180°	58.1	1.7
0°-30°	502.0	14.8
0°-40°	803.5	23.7
0°-60°	1279.4	37.7
0°-90°	1501.3	44.2
90°-120°	409.6	12.1
90°-150°	1404.6	41.4
90°-180°	1893.0	55.8
0°-180°	3394.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	593	593	593	593	593	
5°	686	593	524	593	686	69
15°	908	567	390	567	908	258
25°	980	518	307	518	980	435
35°	603	450	257	450	603	378
45°	308	361	216	361	308	244
55°	184	259	161	259	184	167
65°	108	162	90	162	108	108
75°	50	80	42	80	50	55
85°	12	18	12	18	12	14
90°	14	1	14	1	14	6
95°	13	25	13	25	13	11
105°	130	138	130	138	130	114
115°	259	257	259	257	259	256
125°	364	362	364	362	364	324
135°	452	448	452	448	452	348
145°	520	517	520	517	520	325
155°	567	567	567	567	567	261
165°	595	598	595	598	595	168
175°	608	612	608	612	608	58
180°	612	612	612	612	612	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2
2.5°	625.7	627.4	625.7	625.5	623.6	623.0	622.3	619.8	615.2	612.5	613.1
5°	685.5	691.5	688.1	687.6	682.4	677.1	673.8	666.1	657.9	652.5	647.9
7.5°	754.6	758.0	755.9	752.6	744.1	739.2	731.4	721.4	706.8	695.7	685.5
10°	801.6	804.5	803.5	797.3	791.1	778.4	771.2	757.2	738.7	724.2	710.5
12.5°	847.9	850.9	842.5	842.8	831.0	821.0	809.7	791.9	770.7	751.9	734.9
15°	908.2	904.3	904.3	899.6	886.5	872.6	860.9	842.2	815.5	793.0	769.3
17.5°	955.4	956.7	954.8	943.5	933.2	918.9	897.4	875.7	850.8	820.6	796.5
20°	983.7	983.7	981.6	973.9	960.6	945.2	922.1	898.4	866.9	836.5	809.3
22.5°	995.2	995.9	993.4	987.1	975.1	960.2	940.4	916.4	883.8	849.7	816.0
25°	979.5	984.0	984.4	982.8	979.2	970.1	953.1	928.6	899.4	862.3	826.0
27.5°	899.2	904.9	910.0	918.3	929.3	934.9	935.7	923.2	897.8	862.1	825.6
30°	819.3	824.0	839.6	859.9	875.7	890.0	902.5	905.8	891.5	859.5	821.0
32.5°	730.5	737.1	752.7	774.5	800.7	825.1	852.9	867.2	866.8	847.6	812.0
35°	603.2	608.0	622.4	645.3	676.8	713.0	757.2	791.5	815.0	813.3	791.5
37.5°	486.6	491.9	506.3	525.4	556.0	600.7	643.5	690.9	734.2	758.5	751.2
40°	423.0	423.2	437.4	457.0	485.6	524.6	571.2	623.8	672.1	711.6	719.1
42.5°	372.9	372.9	382.3	403.4	424.0	460.7	505.2	557.4	614.0	659.5	679.7
45°	308.3	310.4	318.1	330.7	347.0	378.1	413.7	462.2	525.5	579.6	613.3
47.5°	261.1	264.3	269.1	279.4	292.4	313.1	342.5	386.2	437.7	497.1	545.0
50°	236.6	237.1	243.3	249.0	260.2	276.8	302.6	338.9	386.3	443.3	496.7
52.5°	215.6	215.5	219.2	226.5	235.6	248.4	269.3	302.4	344.4	395.6	450.6
55°	184.0	185.2	188.1	193.8	200.8	209.8	226.3	251.2	284.2	327.9	377.9
57.5°	160.1	160.7	162.9	165.3	171.7	178.3	190.7	207.9	235.7	271.6	318.1
60°	144.3	144.6	145.3	148.9	153.9	160.2	168.5	183.1	206.5	239.2	276.1
62.5°	129.1	129.5	130.6	133.2	137.1	141.4	150.2	161.9	181.3	209.2	242.4
65°	107.6	107.8	109.5	110.4	113.5	117.3	123.8	131.7	145.1	168.5	193.6
67.5°	89.9	89.9	90.0	91.3	93.4	95.9	99.8	106.1	116.2	130.6	152.7
70°	78.4	78.4	78.9	79.6	80.8	82.9	85.1	89.9	97.3	109.0	125.9
72.5°	67.7	67.9	68.4	68.5	69.1	70.9	72.5	75.5	81.0	89.9	103.6
75°	49.7	50.4	51.6	52.6	53.8	53.5	55.2	57.2	58.8	64.0	71.9
77.5°	37.0	36.7	36.8	37.6	37.7	38.0	39.2	40.6	41.9	44.3	47.2
80°	28.2	28.2	28.9	29.2	28.9	29.2	30.4	31.1	31.5	32.5	35.1
82.5°	21.3	21.7	21.5	21.7	21.8	22.1	23.1	23.2	23.7	24.1	25.1
85°	11.9	12.2	12.4	11.9	11.9	11.9	12.4	12.6	13.1	12.9	13.4
87.5°	7.0	6.8	6.9	6.9	7.0	6.7	6.8	7.1	6.6	6.6	6.5
90°	13.7	13.5	13.3	13.1	12.9	12.5	11.9	11.3	10.7	10.1	9.3
92.5°	12.6	12.6	12.5	12.5	12.4	12.1	11.5	10.9	10.3	9.7	8.9
95°	13.2	13.1	13.0	12.9	12.8	12.5	11.9	11.3	10.7	10.1	10.0
97.5°	12.8	12.7	12.6	12.5	12.4	12.3	12.2	12.2	12.1	12.1	23.4
100°	12.8	12.7	12.6	12.5	12.4	13.2	14.9	16.7	18.4	20.1	34.1
102.5°	13.2	13.1	13.1	13.1	13.1	22.4	41.1	59.7	78.4	97.0	98.9
105°	130.5	134.1	137.7	141.4	145.1	146.4	145.5	144.6	143.7	142.8	142.3
107.5°	181.8	181.4	181.0	180.7	180.3	179.9	179.4	178.9	178.4	178.0	177.3
110°	204.1	203.8	203.5	203.2	202.9	202.7	202.5	202.3	202.1	201.9	201.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	226.4	226.1	225.7	225.3	224.9	224.7	224.8	224.8	224.9	224.9	224.6
115°	259.0	259.0	259.0	259.0	259.0	258.9	258.7	258.5	258.3	258.1	258.2
117.5°	292.2	292.3	292.3	292.3	292.4	292.4	292.5	292.5	292.5	292.6	292.4
120°	313.1	313.3	313.5	313.7	313.9	313.9	313.7	313.5	313.3	313.1	313.2
122.5°	333.6	333.8	334.0	334.2	334.4	334.4	334.3	334.2	334.1	334.0	333.8
125°	364.3	364.2	364.1	364.0	363.9	363.7	363.3	363.0	362.7	362.4	362.6
127.5°	391.3	391.4	391.4	391.5	391.6	391.7	391.7	391.8	391.9	391.9	391.5
130°	409.6	409.6	409.6	409.6	409.6	409.6	409.5	409.4	409.3	409.2	408.9
132.5°	426.5	426.6	426.7	426.7	426.8	426.8	426.7	426.6	426.5	426.4	426.0
135°	451.7	451.5	451.3	451.1	450.9	450.7	450.5	450.3	450.1	449.9	449.5
137.5°	473.3	473.4	473.4	473.5	473.5	473.5	473.2	473.0	472.8	472.6	472.1
140°	488.4	488.3	488.2	488.1	488.0	487.8	487.5	487.2	486.9	486.6	486.4
142.5°	500.8	500.8	500.8	500.7	500.7	500.6	500.4	500.1	499.9	499.7	499.6
145°	519.9	519.7	519.5	519.3	519.1	519.0	518.9	518.8	518.7	518.6	518.6
147.5°	535.7	535.6	535.5	535.4	535.3	535.2	535.1	535.1	535.0	534.9	535.0
150°	546.0	545.9	545.8	545.7	545.6	545.5	545.5	545.5	545.5	545.5	545.6
152.5°	554.8	554.8	554.9	555.0	555.0	555.0	554.8	554.6	554.5	554.3	554.5
155°	566.6	566.9	567.2	567.5	567.8	567.7	567.3	566.9	566.5	566.1	566.4
157.5°	576.5	577.0	577.5	578.0	578.6	578.6	578.0	577.5	577.0	576.5	576.8
160°	583.1	583.7	584.3	584.9	585.5	585.5	584.9	584.3	583.7	583.1	583.2
162.5°	588.2	588.9	589.6	590.3	591.0	591.0	590.4	589.8	589.2	588.5	588.7
165°	595.4	596.3	597.2	598.1	599.1	599.2	598.3	597.5	596.7	595.9	595.9
167.5°	600.9	601.9	602.9	603.9	604.9	605.0	604.1	603.2	602.3	601.4	601.5
170°	604.1	605.1	606.1	607.1	608.2	608.3	607.4	606.6	605.8	605.0	604.9
172.5°	605.9	607.0	608.1	609.3	610.4	610.5	609.7	608.8	608.0	607.2	607.1
175°	608.2	609.5	610.7	611.9	613.1	613.3	612.4	611.5	610.6	609.7	609.6
177.5°	609.8	610.7	611.7	612.7	613.6	613.8	613.1	612.5	611.8	611.2	611.0
180°	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2
2.5°	611.2	608.5	607.1	604.1	600.5	598.5	596.8	594.3	591.1	587.6	585.2
5°	642.2	636.4	629.2	620.7	613.1	605.6	599.2	592.7	585.3	577.6	570.1
7.5°	674.0	662.8	650.6	636.4	622.8	610.3	598.7	587.8	575.4	564.2	554.1
10°	696.2	681.0	664.0	646.0	628.1	612.6	597.2	583.4	568.2	554.5	543.0
12.5°	714.2	696.2	675.8	653.5	631.9	613.1	595.5	577.4	560.1	545.3	530.0
15°	744.0	719.4	692.0	665.1	637.2	611.6	587.9	566.9	547.0	526.2	511.7
17.5°	764.6	735.3	701.9	669.7	636.7	606.5	579.3	554.2	531.3	510.1	492.7
20°	776.8	744.5	707.4	670.9	633.8	601.6	572.2	544.4	520.8	497.9	479.9
22.5°	783.7	747.9	707.4	669.1	630.8	595.8	563.6	534.7	509.0	485.9	466.2
25°	785.9	747.6	706.3	662.3	620.3	583.2	549.7	518.4	489.7	466.8	445.8
27.5°	782.7	737.7	695.4	650.3	606.8	567.8	532.7	499.8	471.1	446.5	424.9
30°	778.2	729.9	684.5	637.6	593.7	556.1	519.1	487.6	457.7	432.1	410.4
32.5°	768.2	720.3	671.5	623.5	579.0	540.3	505.1	473.4	444.1	418.0	394.9
35°	748.5	700.0	647.0	597.7	554.0	513.8	480.9	450.3	422.3	394.4	370.0
37.5°	722.6	673.1	620.3	566.3	522.5	484.6	454.4	425.7	398.4	372.8	345.9
40°	698.1	653.0	598.4	544.9	500.0	463.4	435.5	409.4	381.9	356.6	329.6
42.5°	668.5	630.1	574.9	521.2	476.9	441.6	415.6	390.1	365.1	340.5	312.4
45°	619.0	589.9	538.3	486.7	441.9	407.0	383.1	360.6	338.7	315.3	288.7
47.5°	562.3	542.6	498.1	445.1	403.8	372.4	349.3	330.9	312.4	288.9	265.7
50°	522.9	510.3	467.3	419.0	379.5	350.6	327.0	309.7	294.2	271.8	251.0
52.5°	480.9	474.1	437.8	391.6	353.6	325.2	305.0	289.5	273.8	255.1	235.7
55°	416.8	420.4	389.6	349.6	313.8	289.9	271.6	258.6	245.2	229.4	214.4
57.5°	351.3	364.5	343.8	308.7	275.1	253.0	239.1	228.3	217.0	204.0	191.1
60°	312.1	323.2	311.4	280.5	251.2	230.7	217.7	209.3	198.1	186.2	176.4
62.5°	273.9	285.7	278.7	253.8	226.5	208.8	197.4	189.7	181.3	170.9	160.7
65°	225.9	233.5	230.1	213.0	193.6	178.5	168.0	162.3	154.6	147.0	137.9
67.5°	173.0	187.7	185.8	176.6	160.0	148.1	141.3	136.2	129.3	123.6	117.4
70°	142.2	155.8	155.6	148.1	139.1	128.2	123.3	119.1	112.8	107.3	102.3
72.5°	116.4	128.9	130.8	125.0	118.9	110.5	105.9	103.0	96.9	93.2	89.1
75°	81.5	90.6	93.0	93.0	90.1	85.8	81.7	79.8	75.5	72.2	69.8
77.5°	53.4	59.2	62.9	63.7	64.2	62.7	59.4	58.1	54.7	53.6	51.3
80°	37.8	41.6	45.8	47.4	48.5	48.1	46.7	45.6	42.5	41.3	40.4
82.5°	26.1	28.2	31.7	34.9	34.5	35.9	34.5	33.8	31.4	31.0	30.1
85°	13.6	13.8	14.3	16.5	17.7	18.2	18.4	18.0	17.2	17.2	15.6
87.5°	6.3	6.0	6.2	6.0	6.0	6.5	6.8	6.8	6.5	6.1	5.8
90°	8.5	7.7	6.8	5.9	4.7	3.6	2.5	1.4	2.5	3.6	4.7
92.5°	8.1	7.3	6.5	6.1	6.0	5.9	5.9	5.8	5.9	5.9	6.0
95°	9.9	9.8	9.7	11.3	14.8	18.3	21.7	25.1	21.7	18.3	14.8
97.5°	34.7	46.2	57.5	62.1	59.9	57.8	55.6	53.4	55.6	57.8	59.9
100°	48.2	62.2	76.2	82.4	80.6	78.8	76.9	75.0	76.9	78.8	80.6
102.5°	100.7	102.5	104.3	104.6	103.2	101.9	100.6	99.3	100.6	101.9	103.2
105°	141.8	141.3	140.8	140.2	139.6	139.0	138.4	137.7	138.4	139.0	139.6
107.5°	176.6	175.9	175.3	174.8	174.5	174.2	173.9	173.6	173.9	174.2	174.5
110°	200.7	200.0	199.3	198.9	198.6	198.3	198.0	197.7	198.0	198.3	198.6





TEST NUMBER: P333015-840

CATALOG NUMBER: S124RDIW-S350D470U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	224.3	224.1	223.8	223.4	222.8	222.3	221.7	221.2	221.7	222.3	222.8
115°	258.3	258.4	258.5	258.4	258.1	257.8	257.5	257.2	257.5	257.8	258.1
117.5°	292.1	291.9	291.6	291.3	290.9	290.5	290.1	289.7	290.1	290.5	290.9
120°	313.3	313.4	313.5	313.3	312.9	312.5	312.0	311.6	312.0	312.5	312.9
122.5°	333.7	333.5	333.4	333.2	333.0	332.6	332.4	332.1	332.4	332.6	333.0
125°	362.8	363.0	363.2	363.1	362.7	362.3	361.9	361.5	361.9	362.3	362.7
127.5°	391.0	390.5	390.1	389.8	389.7	389.6	389.5	389.4	389.5	389.6	389.7
130°	408.6	408.3	408.0	407.8	407.7	407.6	407.4	407.3	407.4	407.6	407.7
132.5°	425.6	425.3	424.9	424.5	424.3	424.1	423.9	423.8	423.9	424.1	424.3
135°	449.1	448.7	448.3	448.1	448.2	448.3	448.4	448.5	448.4	448.3	448.2
137.5°	471.7	471.2	470.8	470.6	470.5	470.5	470.4	470.4	470.4	470.5	470.5
140°	486.1	485.8	485.6	485.4	485.2	485.0	484.8	484.6	484.8	485.0	485.2
142.5°	499.5	499.3	499.2	499.0	498.6	498.3	497.9	497.5	497.9	498.3	498.6
145°	518.6	518.6	518.6	518.4	518.1	517.8	517.5	517.2	517.5	517.8	518.1
147.5°	535.1	535.2	535.3	535.1	534.5	533.9	533.4	532.8	533.4	533.9	534.5
150°	545.7	545.8	545.9	545.8	545.4	545.0	544.6	544.2	544.6	545.0	545.4
152.5°	554.7	554.9	555.0	555.0	554.6	554.3	554.0	553.7	554.0	554.3	554.6
155°	566.7	567.0	567.3	567.4	567.3	567.2	567.1	567.0	567.1	567.2	567.3
157.5°	577.1	577.5	577.8	578.0	578.1	578.1	578.2	578.3	578.2	578.1	578.1
160°	583.3	583.4	583.5	583.7	584.0	584.3	584.6	584.9	584.6	584.3	584.0
162.5°	588.8	588.9	589.0	589.3	589.6	590.0	590.4	590.8	590.4	590.0	589.6
165°	595.9	595.9	595.9	596.1	596.6	597.1	597.6	598.1	597.6	597.1	596.6
167.5°	601.5	601.6	601.6	601.9	602.5	603.0	603.5	604.0	603.5	603.0	602.5
170°	604.8	604.7	604.6	604.9	605.5	606.1	606.7	607.3	606.7	606.1	605.5
172.5°	607.0	606.9	606.8	607.1	607.7	608.3	608.9	609.6	608.9	608.3	607.7
175°	609.5	609.4	609.3	609.5	610.1	610.7	611.3	611.9	611.3	610.7	610.1
177.5°	610.9	610.7	610.6	610.8	611.3	611.9	612.5	613.0	612.5	611.9	611.3
180°	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9



TEST NUMBER: P333015-840

CATALOG NUMBER: S124RDIW-S350D470U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2
2.5°	582.5	580.6	578.1	575.2	571.8	568.8	567.3	568.6	569.2	567.5	567.3
5°	564.7	558.8	554.0	546.8	541.1	536.3	533.0	531.5	532.0	528.2	527.3
7.5°	544.8	537.8	529.9	521.4	513.5	506.4	502.8	500.8	496.7	494.9	492.0
10°	532.0	522.5	514.8	504.7	495.6	487.4	483.2	479.9	475.8	473.9	469.9
12.5°	518.9	507.8	499.3	488.9	479.6	469.6	465.6	459.5	453.1	449.1	443.8
15°	500.2	486.9	476.6	464.1	453.1	441.7	431.4	419.9	415.7	406.6	401.3
17.5°	478.5	464.9	452.2	435.6	418.6	404.2	393.3	382.3	375.8	370.0	367.3
20°	464.1	451.7	434.0	414.7	395.8	380.0	371.1	364.0	356.8	352.7	349.9
22.5°	450.6	434.6	414.1	393.2	374.4	362.0	354.6	347.2	341.3	337.5	333.7
25°	427.8	407.0	385.3	361.3	348.5	337.7	329.6	323.6	320.0	315.0	313.1
27.5°	404.5	379.2	355.3	339.2	325.8	315.9	308.8	304.4	299.8	296.6	294.1
30°	386.5	360.9	339.4	324.1	310.4	302.4	296.6	291.3	287.7	285.1	283.3
32.5°	368.7	343.2	325.1	308.6	297.8	289.9	283.8	279.8	277.0	273.7	272.5
35°	343.0	320.2	304.5	289.6	278.7	271.6	266.7	262.7	260.2	259.3	258.6
37.5°	318.2	299.6	282.7	270.5	260.7	255.1	249.4	247.4	245.8	244.1	244.9
40°	302.6	285.1	270.0	257.2	249.2	243.1	239.7	237.3	235.9	235.9	235.9
42.5°	289.0	272.0	257.2	245.7	237.8	232.6	228.8	226.8	226.3	226.1	227.3
45°	267.9	252.2	237.3	227.7	221.1	215.8	213.7	212.0	212.0	213.0	213.2
47.5°	247.0	232.3	220.4	209.6	203.5	200.3	198.3	197.5	197.6	198.5	199.7
50°	234.2	219.6	207.9	198.3	192.7	189.6	187.8	187.3	187.8	187.8	189.6
52.5°	220.3	207.2	195.7	187.6	181.2	178.2	177.3	176.6	176.9	177.7	178.4
55°	199.9	188.1	177.1	169.5	164.7	162.8	160.6	160.9	160.4	160.9	160.9
57.5°	179.3	168.7	158.5	152.5	148.2	145.5	143.2	143.8	143.1	143.0	142.6
60°	166.1	154.6	146.5	141.0	136.2	133.8	131.7	132.2	131.5	131.0	130.0
62.5°	151.8	142.2	134.4	129.2	125.3	122.6	120.4	120.0	118.3	116.6	114.5
65°	131.0	123.1	116.1	111.2	107.6	105.4	103.7	102.3	98.7	94.9	93.0
67.5°	110.8	105.0	98.6	94.3	91.4	88.7	85.4	83.0	79.7	77.6	76.3
70°	97.8	92.3	86.7	82.7	79.6	77.0	73.4	71.7	69.3	68.4	67.2
72.5°	85.3	80.2	75.1	71.4	68.2	66.0	63.2	61.6	60.5	60.1	59.0
75°	66.4	62.4	58.6	55.2	52.6	51.1	50.0	48.8	48.3	46.2	44.9
77.5°	48.5	45.7	43.4	41.0	39.2	38.2	35.9	34.5	33.7	32.7	32.4
80°	37.8	35.9	33.4	32.0	29.4	28.5	27.5	27.3	27.0	26.8	26.6
82.5°	28.4	26.5	24.1	23.2	22.5	21.9	21.4	21.1	20.9	21.0	21.0
85°	14.3	13.4	13.4	13.1	12.9	12.6	12.4	12.4	12.2	12.4	12.2
87.5°	6.0	6.0	6.2	5.9	6.3	6.4	6.4	6.5	6.8	6.6	6.6
90°	5.9	6.8	7.7	8.5	9.3	10.1	10.7	11.3	11.9	12.5	12.9
92.5°	6.1	6.5	7.3	8.1	8.9	9.7	10.3	10.9	11.5	12.1	12.4
95°	11.3	9.7	9.8	9.9	10.0	10.1	10.7	11.3	11.9	12.5	12.8
97.5°	62.1	57.5	46.2	34.7	23.4	12.1	12.1	12.2	12.2	12.3	12.4
100°	82.4	76.2	62.2	48.2	34.1	20.1	18.4	16.7	14.9	13.2	12.4
102.5°	104.6	104.3	102.5	100.7	98.9	97.0	78.4	59.7	41.1	22.4	13.1
105°	140.2	140.8	141.3	141.8	142.3	142.8	143.7	144.6	145.5	146.4	145.1
107.5°	174.8	175.3	175.9	176.6	177.3	178.0	178.4	178.9	179.4	179.9	180.3
110°	198.9	199.3	200.0	200.7	201.3	201.9	202.1	202.3	202.5	202.7	202.9



TEST NUMBER: P333015-840

CATALOG NUMBER: S124RDIW-S350D470U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	223.4	223.8	224.1	224.3	224.6	224.9	224.9	224.8	224.8	224.7	224.9
115°	258.4	258.5	258.4	258.3	258.2	258.1	258.3	258.5	258.7	258.9	259.0
117.5°	291.3	291.6	291.9	292.1	292.4	292.6	292.5	292.5	292.5	292.4	292.4
120°	313.3	313.5	313.4	313.3	313.2	313.1	313.3	313.5	313.7	313.9	313.9
122.5°	333.2	333.4	333.5	333.7	333.8	334.0	334.1	334.2	334.3	334.4	334.4
125°	363.1	363.2	363.0	362.8	362.6	362.4	362.7	363.0	363.3	363.7	363.9
127.5°	389.8	390.1	390.5	391.0	391.5	391.9	391.9	391.8	391.7	391.7	391.6
130°	407.8	408.0	408.3	408.6	408.9	409.2	409.3	409.4	409.5	409.6	409.6
132.5°	424.5	424.9	425.3	425.6	426.0	426.4	426.5	426.6	426.7	426.8	426.8
135°	448.1	448.3	448.7	449.1	449.5	449.9	450.1	450.3	450.5	450.7	450.9
137.5°	470.6	470.8	471.2	471.7	472.1	472.6	472.8	473.0	473.2	473.5	473.5
140°	485.4	485.6	485.8	486.1	486.4	486.6	486.9	487.2	487.5	487.8	488.0
142.5°	499.0	499.2	499.3	499.5	499.6	499.7	499.9	500.1	500.4	500.6	500.7
145°	518.4	518.6	518.6	518.6	518.6	518.6	518.7	518.8	518.9	519.0	519.1
147.5°	535.1	535.3	535.2	535.1	535.0	534.9	535.0	535.1	535.1	535.2	535.3
150°	545.8	545.9	545.8	545.7	545.6	545.5	545.5	545.5	545.5	545.5	545.6
152.5°	555.0	555.0	554.9	554.7	554.5	554.3	554.5	554.6	554.8	555.0	555.0
155°	567.4	567.3	567.0	566.7	566.4	566.1	566.5	566.9	567.3	567.7	567.8
157.5°	578.0	577.8	577.5	577.1	576.8	576.5	577.0	577.5	578.0	578.6	578.6
160°	583.7	583.5	583.4	583.3	583.2	583.1	583.7	584.3	584.9	585.5	585.5
162.5°	589.3	589.0	588.9	588.8	588.7	588.5	589.2	589.8	590.4	591.0	591.0
165°	596.1	595.9	595.9	595.9	595.9	595.9	596.7	597.5	598.3	599.2	599.1
167.5°	601.9	601.6	601.6	601.5	601.5	601.4	602.3	603.2	604.1	605.0	604.9
170°	604.9	604.6	604.7	604.8	604.9	605.0	605.8	606.6	607.4	608.3	608.2
172.5°	607.1	606.8	606.9	607.0	607.1	607.2	608.0	608.8	609.7	610.5	610.4
175°	609.5	609.3	609.4	609.5	609.6	609.7	610.6	611.5	612.4	613.3	613.1
177.5°	610.8	610.6	610.7	610.9	611.0	611.2	611.8	612.5	613.1	613.8	613.6
180°	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9



TEST NUMBER: P333015-840

CATALOG NUMBER: S124RDIW-S350D470U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2
2.5°	566.2	566.6	565.3	564.9	565.3	566.6	566.2	567.3	567.5	569.2	568.6
5°	525.3	524.8	523.6	523.9	523.6	524.8	525.3	527.3	528.2	532.0	531.5
7.5°	490.3	488.5	489.0	487.1	489.0	488.5	490.3	492.0	494.9	496.7	500.8
10°	468.9	466.3	464.1	462.2	464.1	466.3	468.9	469.9	473.9	475.8	479.9
12.5°	439.7	437.4	434.5	435.0	434.5	437.4	439.7	443.8	449.1	453.1	459.5
15°	398.2	394.6	388.9	389.6	388.9	394.6	398.2	401.3	406.6	415.7	419.9
17.5°	363.0	363.0	360.4	361.1	360.4	363.0	363.0	367.3	370.0	375.8	382.3
20°	344.9	343.3	343.5	342.7	343.5	343.3	344.9	349.9	352.7	356.8	364.0
22.5°	332.2	330.2	328.5	327.1	328.5	330.2	332.2	333.7	337.5	341.3	347.2
25°	310.9	309.5	307.4	306.9	307.4	309.5	310.9	313.1	315.0	320.0	323.6
27.5°	292.2	292.0	291.0	289.9	291.0	292.0	292.2	294.1	296.6	299.8	304.4
30°	281.3	280.8	280.3	279.6	280.3	280.8	281.3	283.3	285.1	287.7	291.3
32.5°	271.6	271.2	270.7	270.8	270.7	271.2	271.6	272.5	273.7	277.0	279.8
35°	257.6	257.4	256.9	256.7	256.9	257.4	257.6	258.6	259.3	260.2	262.7
37.5°	244.7	245.3	245.0	244.9	245.0	245.3	244.7	244.9	244.1	245.8	247.4
40°	235.7	235.9	236.4	236.1	236.4	235.9	235.7	235.9	235.9	235.9	237.3
42.5°	228.2	228.2	228.9	228.1	228.9	228.2	228.2	227.3	226.1	226.3	226.8
45°	214.9	216.3	216.0	216.0	216.0	216.3	214.9	213.2	213.0	212.0	212.0
47.5°	200.3	201.6	201.9	201.8	201.9	201.6	200.3	199.7	198.5	197.6	197.5
50°	190.8	190.3	191.0	190.8	191.0	190.3	190.8	189.6	187.8	187.8	187.3
52.5°	179.0	179.2	179.2	178.8	179.2	179.2	179.0	178.4	177.7	176.9	176.6
55°	161.1	161.4	160.9	161.1	160.9	161.4	161.1	160.9	160.9	160.4	160.9
57.5°	141.6	140.5	140.9	140.4	140.9	140.5	141.6	142.6	143.0	143.1	143.8
60°	127.6	125.7	125.2	124.3	125.2	125.7	127.6	130.0	131.0	131.5	132.2
62.5°	112.0	110.6	109.0	109.8	109.0	110.6	112.0	114.5	116.6	118.3	120.0
65°	91.1	90.1	89.4	90.4	89.4	90.1	91.1	93.0	94.9	98.7	102.3
67.5°	75.3	74.8	74.8	74.4	74.8	74.8	75.3	76.3	77.6	79.7	83.0
70°	67.2	66.4	66.4	65.9	66.4	66.4	67.2	67.2	68.4	69.3	71.7
72.5°	58.8	58.1	58.3	58.0	58.3	58.1	58.8	59.0	60.1	60.5	61.6
75°	43.5	42.3	42.3	42.5	42.3	42.3	43.5	44.9	46.2	48.3	48.8
77.5°	32.4	32.2	32.5	32.1	32.5	32.2	32.4	32.4	32.7	33.7	34.5
80°	26.6	26.3	26.1	26.8	26.1	26.3	26.6	26.6	26.8	27.0	27.3
82.5°	20.6	20.6	20.5	21.4	20.5	20.6	20.6	21.0	21.0	20.9	21.1
85°	12.4	11.9	12.4	11.9	12.4	11.9	12.4	12.2	12.4	12.2	12.4
87.5°	7.1	6.9	6.8	7.0	6.8	6.9	7.1	6.6	6.6	6.8	6.5
90°	13.1	13.3	13.5	13.7	13.5	13.3	13.1	12.9	12.5	11.9	11.3
92.5°	12.5	12.5	12.6	12.6	12.6	12.5	12.5	12.4	12.1	11.5	10.9
95°	12.9	13.0	13.1	13.2	13.1	13.0	12.9	12.8	12.5	11.9	11.3
97.5°	12.5	12.6	12.7	12.8	12.7	12.6	12.5	12.4	12.3	12.2	12.2
100°	12.5	12.6	12.7	12.8	12.7	12.6	12.5	12.4	13.2	14.9	16.7
102.5°	13.1	13.1	13.1	13.2	13.1	13.1	13.1	13.1	22.4	41.1	59.7
105°	141.4	137.7	134.1	130.5	134.1	137.7	141.4	145.1	146.4	145.5	144.6
107.5°	180.7	181.0	181.4	181.8	181.4	181.0	180.7	180.3	179.9	179.4	178.9
110°	203.2	203.5	203.8	204.1	203.8	203.5	203.2	202.9	202.7	202.5	202.3



TEST NUMBER: P333015-840

CATALOG NUMBER: S124RDIW-S350D470U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	225.3	225.7	226.1	226.4	226.1	225.7	225.3	224.9	224.7	224.8	224.8
115°	259.0	259.0	259.0	259.0	259.0	259.0	259.0	259.0	258.9	258.7	258.5
117.5°	292.3	292.3	292.3	292.2	292.3	292.3	292.3	292.4	292.4	292.5	292.5
120°	313.7	313.5	313.3	313.1	313.3	313.5	313.7	313.9	313.9	313.7	313.5
122.5°	334.2	334.0	333.8	333.6	333.8	334.0	334.2	334.4	334.4	334.3	334.2
125°	364.0	364.1	364.2	364.3	364.2	364.1	364.0	363.9	363.7	363.3	363.0
127.5°	391.5	391.4	391.4	391.3	391.4	391.4	391.5	391.6	391.7	391.7	391.8
130°	409.6	409.6	409.6	409.6	409.6	409.6	409.6	409.6	409.6	409.5	409.4
132.5°	426.7	426.7	426.6	426.5	426.6	426.7	426.7	426.8	426.8	426.7	426.6
135°	451.1	451.3	451.5	451.7	451.5	451.3	451.1	450.9	450.7	450.5	450.3
137.5°	473.5	473.4	473.4	473.3	473.4	473.4	473.5	473.5	473.5	473.2	473.0
140°	488.1	488.2	488.3	488.4	488.3	488.2	488.1	488.0	487.8	487.5	487.2
142.5°	500.7	500.8	500.8	500.8	500.8	500.8	500.7	500.7	500.6	500.4	500.1
145°	519.3	519.5	519.7	519.9	519.7	519.5	519.3	519.1	519.0	518.9	518.8
147.5°	535.4	535.5	535.6	535.7	535.6	535.5	535.4	535.3	535.2	535.1	535.1
150°	545.7	545.8	545.9	546.0	545.9	545.8	545.7	545.6	545.5	545.5	545.5
152.5°	555.0	554.9	554.8	554.8	554.8	554.9	555.0	555.0	555.0	554.8	554.6
155°	567.5	567.2	566.9	566.6	566.9	567.2	567.5	567.8	567.7	567.3	566.9
157.5°	578.0	577.5	577.0	576.5	577.0	577.5	578.0	578.6	578.6	578.0	577.5
160°	584.9	584.3	583.7	583.1	583.7	584.3	584.9	585.5	585.5	584.9	584.3
162.5°	590.3	589.6	588.9	588.2	588.9	589.6	590.3	591.0	591.0	590.4	589.8
165°	598.1	597.2	596.3	595.4	596.3	597.2	598.1	599.1	599.2	598.3	597.5
167.5°	603.9	602.9	601.9	600.9	601.9	602.9	603.9	604.9	605.0	604.1	603.2
170°	607.1	606.1	605.1	604.1	605.1	606.1	607.1	608.2	608.3	607.4	606.6
172.5°	609.3	608.1	607.0	605.9	607.0	608.1	609.3	610.4	610.5	609.7	608.8
175°	611.9	610.7	609.5	608.2	609.5	610.7	611.9	613.1	613.3	612.4	611.5
177.5°	612.7	611.7	610.7	609.8	610.7	611.7	612.7	613.6	613.8	613.1	612.5
180°	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9



TEST NUMBER: P333015-840

CATALOG NUMBER: S124RDIW-S350D470U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2
2.5°	567.3	568.8	571.8	575.2	578.1	580.6	582.5	585.2	587.6	591.1	594.3
5°	533.0	536.3	541.1	546.8	554.0	558.8	564.7	570.1	577.6	585.3	592.7
7.5°	502.8	506.4	513.5	521.4	529.9	537.8	544.8	554.1	564.2	575.4	587.8
10°	483.2	487.4	495.6	504.7	514.8	522.5	532.0	543.0	554.5	568.2	583.4
12.5°	465.6	469.6	479.6	488.9	499.3	507.8	518.9	530.0	545.3	560.1	577.4
15°	431.4	441.7	453.1	464.1	476.6	486.9	500.2	511.7	526.2	547.0	566.9
17.5°	393.3	404.2	418.6	435.6	452.2	464.9	478.5	492.7	510.1	531.3	554.2
20°	371.1	380.0	395.8	414.7	434.0	451.7	464.1	479.9	497.9	520.8	544.4
22.5°	354.6	362.0	374.4	393.2	414.1	434.6	450.6	466.2	485.9	509.0	534.7
25°	329.6	337.7	348.5	361.3	385.3	407.0	427.8	445.8	466.8	489.7	518.4
27.5°	308.8	315.9	325.8	339.2	355.3	379.2	404.5	424.9	446.5	471.1	499.8
30°	296.6	302.4	310.4	324.1	339.4	360.9	386.5	410.4	432.1	457.7	487.6
32.5°	283.8	289.9	297.8	308.6	325.1	343.2	368.7	394.9	418.0	444.1	473.4
35°	266.7	271.6	278.7	289.6	304.5	320.2	343.0	370.0	394.4	422.3	450.3
37.5°	249.4	255.1	260.7	270.5	282.7	299.6	318.2	345.9	372.8	398.4	425.7
40°	239.7	243.1	249.2	257.2	270.0	285.1	302.6	329.6	356.6	381.9	409.4
42.5°	228.8	232.6	237.8	245.7	257.2	272.0	289.0	312.4	340.5	365.1	390.1
45°	213.7	215.8	221.1	227.7	237.3	252.2	267.9	288.7	315.3	338.7	360.6
47.5°	198.3	200.3	203.5	209.6	220.4	232.3	247.0	265.7	288.9	312.4	330.9
50°	187.8	189.6	192.7	198.3	207.9	219.6	234.2	251.0	271.8	294.2	309.7
52.5°	177.3	178.2	181.2	187.6	195.7	207.2	220.3	235.7	255.1	273.8	289.5
55°	160.6	162.8	164.7	169.5	177.1	188.1	199.9	214.4	229.4	245.2	258.6
57.5°	143.2	145.5	148.2	152.5	158.5	168.7	179.3	191.1	204.0	217.0	228.3
60°	131.7	133.8	136.2	141.0	146.5	154.6	166.1	176.4	186.2	198.1	209.3
62.5°	120.4	122.6	125.3	129.2	134.4	142.2	151.8	160.7	170.9	181.3	189.7
65°	103.7	105.4	107.6	111.2	116.1	123.1	131.0	137.9	147.0	154.6	162.3
67.5°	85.4	88.7	91.4	94.3	98.6	105.0	110.8	117.4	123.6	129.3	136.2
70°	73.4	77.0	79.6	82.7	86.7	92.3	97.8	102.3	107.3	112.8	119.1
72.5°	63.2	66.0	68.2	71.4	75.1	80.2	85.3	89.1	93.2	96.9	103.0
75°	50.0	51.1	52.6	55.2	58.6	62.4	66.4	69.8	72.2	75.5	79.8
77.5°	35.9	38.2	39.2	41.0	43.4	45.7	48.5	51.3	53.6	54.7	58.1
80°	27.5	28.5	29.4	32.0	33.4	35.9	37.8	40.4	41.3	42.5	45.6
82.5°	21.4	21.9	22.5	23.2	24.1	26.5	28.4	30.1	31.0	31.4	33.8
85°	12.4	12.6	12.9	13.1	13.4	13.4	14.3	15.6	17.2	17.2	18.0
87.5°	6.4	6.4	6.3	5.9	6.2	6.0	6.0	5.8	6.1	6.5	6.8
90°	10.7	10.1	9.3	8.5	7.7	6.8	5.9	4.7	3.6	2.5	1.4
92.5°	10.3	9.7	8.9	8.1	7.3	6.5	6.1	6.0	5.9	5.9	5.8
95°	10.7	10.1	10.0	9.9	9.8	9.7	11.3	14.8	18.3	21.7	25.1
97.5°	12.1	12.1	23.4	34.7	46.2	57.5	62.1	59.9	57.8	55.6	53.4
100°	18.4	20.1	34.1	48.2	62.2	76.2	82.4	80.6	78.8	76.9	75.0
102.5°	78.4	97.0	98.9	100.7	102.5	104.3	104.6	103.2	101.9	100.6	99.3
105°	143.7	142.8	142.3	141.8	141.3	140.8	140.2	139.6	139.0	138.4	137.7
107.5°	178.4	178.0	177.3	176.6	175.9	175.3	174.8	174.5	174.2	173.9	173.6
110°	202.1	201.9	201.3	200.7	200.0	199.3	198.9	198.6	198.3	198.0	197.7



TEST NUMBER: P333015-840

CATALOG NUMBER: S124RDIW-S350D470U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	224.9	224.9	224.6	224.3	224.1	223.8	223.4	222.8	222.3	221.7	221.2
115°	258.3	258.1	258.2	258.3	258.4	258.5	258.4	258.1	257.8	257.5	257.2
117.5°	292.5	292.6	292.4	292.1	291.9	291.6	291.3	290.9	290.5	290.1	289.7
120°	313.3	313.1	313.2	313.3	313.4	313.5	313.3	312.9	312.5	312.0	311.6
122.5°	334.1	334.0	333.8	333.7	333.5	333.4	333.2	333.0	332.6	332.4	332.1
125°	362.7	362.4	362.6	362.8	363.0	363.2	363.1	362.7	362.3	361.9	361.5
127.5°	391.9	391.9	391.5	391.0	390.5	390.1	389.8	389.7	389.6	389.5	389.4
130°	409.3	409.2	408.9	408.6	408.3	408.0	407.8	407.7	407.6	407.4	407.3
132.5°	426.5	426.4	426.0	425.6	425.3	424.9	424.5	424.3	424.1	423.9	423.8
135°	450.1	449.9	449.5	449.1	448.7	448.3	448.1	448.2	448.3	448.4	448.5
137.5°	472.8	472.6	472.1	471.7	471.2	470.8	470.6	470.5	470.5	470.4	470.4
140°	486.9	486.6	486.4	486.1	485.8	485.6	485.4	485.2	485.0	484.8	484.6
142.5°	499.9	499.7	499.6	499.5	499.3	499.2	499.0	498.6	498.3	497.9	497.5
145°	518.7	518.6	518.6	518.6	518.6	518.6	518.4	518.1	517.8	517.5	517.2
147.5°	535.0	534.9	535.0	535.1	535.2	535.3	535.1	534.5	533.9	533.4	532.8
150°	545.5	545.5	545.6	545.7	545.8	545.9	545.8	545.4	545.0	544.6	544.2
152.5°	554.5	554.3	554.5	554.7	554.9	555.0	555.0	554.6	554.3	554.0	553.7
155°	566.5	566.1	566.4	566.7	567.0	567.3	567.4	567.3	567.2	567.1	567.0
157.5°	577.0	576.5	576.8	577.1	577.5	577.8	578.0	578.1	578.1	578.2	578.3
160°	583.7	583.1	583.2	583.3	583.4	583.5	583.7	584.0	584.3	584.6	584.9
162.5°	589.2	588.5	588.7	588.8	588.9	589.0	589.3	589.6	590.0	590.4	590.8
165°	596.7	595.9	595.9	595.9	595.9	595.9	596.1	596.6	597.1	597.6	598.1
167.5°	602.3	601.4	601.5	601.5	601.6	601.6	601.9	602.5	603.0	603.5	604.0
170°	605.8	605.0	604.9	604.8	604.7	604.6	604.9	605.5	606.1	606.7	607.3
172.5°	608.0	607.2	607.1	607.0	606.9	606.8	607.1	607.7	608.3	608.9	609.6
175°	610.6	609.7	609.6	609.5	609.4	609.3	609.5	610.1	610.7	611.3	611.9
177.5°	611.8	611.2	611.0	610.9	610.7	610.6	610.8	611.3	611.9	612.5	613.0
180°	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9



TEST NUMBER: P333015-840

CATALOG NUMBER: S124RDIW-S350D470U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2	593.2
2.5°	596.8	598.5	600.5	604.1	607.1	608.5	611.2	613.1	612.5	615.2	619.8
5°	599.2	605.6	613.1	620.7	629.2	636.4	642.2	647.9	652.5	657.9	666.1
7.5°	598.7	610.3	622.8	636.4	650.6	662.8	674.0	685.5	695.7	706.8	721.4
10°	597.2	612.6	628.1	646.0	664.0	681.0	696.2	710.5	724.2	738.7	757.2
12.5°	595.5	613.1	631.9	653.5	675.8	696.2	714.2	734.9	751.9	770.7	791.9
15°	587.9	611.6	637.2	665.1	692.0	719.4	744.0	769.3	793.0	815.5	842.2
17.5°	579.3	606.5	636.7	669.7	701.9	735.3	764.6	796.5	820.6	850.8	875.7
20°	572.2	601.6	633.8	670.9	707.4	744.5	776.8	809.3	836.5	866.9	898.4
22.5°	563.6	595.8	630.8	669.1	707.4	747.9	783.7	816.0	849.7	883.8	916.4
25°	549.7	583.2	620.3	662.3	706.3	747.6	785.9	826.0	862.3	899.4	928.6
27.5°	532.7	567.8	606.8	650.3	695.4	737.7	782.7	825.6	862.1	897.8	923.2
30°	519.1	556.1	593.7	637.6	684.5	729.9	778.2	821.0	859.5	891.5	905.8
32.5°	505.1	540.3	579.0	623.5	671.5	720.3	768.2	812.0	847.6	866.8	867.2
35°	480.9	513.8	554.0	597.7	647.0	700.0	748.5	791.5	813.3	815.0	791.5
37.5°	454.4	484.6	522.5	566.3	620.3	673.1	722.6	751.2	758.5	734.2	690.9
40°	435.5	463.4	500.0	544.9	598.4	653.0	698.1	719.1	711.6	672.1	623.8
42.5°	415.6	441.6	476.9	521.2	574.9	630.1	668.5	679.7	659.5	614.0	557.4
45°	383.1	407.0	441.9	486.7	538.3	589.9	619.0	613.3	579.6	525.5	462.2
47.5°	349.3	372.4	403.8	445.1	498.1	542.6	562.3	545.0	497.1	437.7	386.2
50°	327.0	350.6	379.5	419.0	467.3	510.3	522.9	496.7	443.3	386.3	338.9
52.5°	305.0	325.2	353.6	391.6	437.8	474.1	480.9	450.6	395.6	344.4	302.4
55°	271.6	289.9	313.8	349.6	389.6	420.4	416.8	377.9	327.9	284.2	251.2
57.5°	239.1	253.0	275.1	308.7	343.8	364.5	351.3	318.1	271.6	235.7	207.9
60°	217.7	230.7	251.2	280.5	311.4	323.2	312.1	276.1	239.2	206.5	183.1
62.5°	197.4	208.8	226.5	253.8	278.7	285.7	273.9	242.4	209.2	181.3	161.9
65°	168.0	178.5	193.6	213.0	230.1	233.5	225.9	193.6	168.5	145.1	131.7
67.5°	141.3	148.1	160.0	176.6	185.8	187.7	173.0	152.7	130.6	116.2	106.1
70°	123.3	128.2	139.1	148.1	155.6	155.8	142.2	125.9	109.0	97.3	89.9
72.5°	105.9	110.5	118.9	125.0	130.8	128.9	116.4	103.6	89.9	81.0	75.5
75°	81.7	85.8	90.1	93.0	93.0	90.6	81.5	71.9	64.0	58.8	57.2
77.5°	59.4	62.7	64.2	63.7	62.9	59.2	53.4	47.2	44.3	41.9	40.6
80°	46.7	48.1	48.5	47.4	45.8	41.6	37.8	35.1	32.5	31.5	31.1
82.5°	34.5	35.9	34.5	34.9	31.7	28.2	26.1	25.1	24.1	23.7	23.2
85°	18.4	18.2	17.7	16.5	14.3	13.8	13.6	13.4	12.9	13.1	12.6
87.5°	6.8	6.5	6.0	6.0	6.2	6.0	6.3	6.5	6.6	6.6	7.1
90°	2.5	3.6	4.7	5.9	6.8	7.7	8.5	9.3	10.1	10.7	11.3
92.5°	5.9	5.9	6.0	6.1	6.5	7.3	8.1	8.9	9.7	10.3	10.9
95°	21.7	18.3	14.8	11.3	9.7	9.8	9.9	10.0	10.1	10.7	11.3
97.5°	55.6	57.8	59.9	62.1	57.5	46.2	34.7	23.4	12.1	12.1	12.2
100°	76.9	78.8	80.6	82.4	76.2	62.2	48.2	34.1	20.1	18.4	16.7
102.5°	100.6	101.9	103.2	104.6	104.3	102.5	100.7	98.9	97.0	78.4	59.7
105°	138.4	139.0	139.6	140.2	140.8	141.3	141.8	142.3	142.8	143.7	144.6
107.5°	173.9	174.2	174.5	174.8	175.3	175.9	176.6	177.3	178.0	178.4	178.9
110°	198.0	198.3	198.6	198.9	199.3	200.0	200.7	201.3	201.9	202.1	202.3





TEST NUMBER: P333015-840

CATALOG NUMBER: S124RDIW-S350D470U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	221.7	222.3	222.8	223.4	223.8	224.1	224.3	224.6	224.9	224.9	224.8
115°	257.5	257.8	258.1	258.4	258.5	258.4	258.3	258.2	258.1	258.3	258.5
117.5°	290.1	290.5	290.9	291.3	291.6	291.9	292.1	292.4	292.6	292.5	292.5
120°	312.0	312.5	312.9	313.3	313.5	313.4	313.3	313.2	313.1	313.3	313.5
122.5°	332.4	332.6	333.0	333.2	333.4	333.5	333.7	333.8	334.0	334.1	334.2
125°	361.9	362.3	362.7	363.1	363.2	363.0	362.8	362.6	362.4	362.7	363.0
127.5°	389.5	389.6	389.7	389.8	390.1	390.5	391.0	391.5	391.9	391.9	391.8
130°	407.4	407.6	407.7	407.8	408.0	408.3	408.6	408.9	409.2	409.3	409.4
132.5°	423.9	424.1	424.3	424.5	424.9	425.3	425.6	426.0	426.4	426.5	426.6
135°	448.4	448.3	448.2	448.1	448.3	448.7	449.1	449.5	449.9	450.1	450.3
137.5°	470.4	470.5	470.5	470.6	470.8	471.2	471.7	472.1	472.6	472.8	473.0
140°	484.8	485.0	485.2	485.4	485.6	485.8	486.1	486.4	486.6	486.9	487.2
142.5°	497.9	498.3	498.6	499.0	499.2	499.3	499.5	499.6	499.7	499.9	500.1
145°	517.5	517.8	518.1	518.4	518.6	518.6	518.6	518.6	518.6	518.7	518.8
147.5°	533.4	533.9	534.5	535.1	535.3	535.2	535.1	535.0	534.9	535.0	535.1
150°	544.6	545.0	545.4	545.8	545.9	545.8	545.7	545.6	545.5	545.5	545.5
152.5°	554.0	554.3	554.6	555.0	555.0	554.9	554.7	554.5	554.3	554.5	554.6
155°	567.1	567.2	567.3	567.4	567.3	567.0	566.7	566.4	566.1	566.5	566.9
157.5°	578.2	578.1	578.1	578.0	577.8	577.5	577.1	576.8	576.5	577.0	577.5
160°	584.6	584.3	584.0	583.7	583.5	583.4	583.3	583.2	583.1	583.7	584.3
162.5°	590.4	590.0	589.6	589.3	589.0	588.9	588.8	588.7	588.5	589.2	589.8
165°	597.6	597.1	596.6	596.1	595.9	595.9	595.9	595.9	595.9	596.7	597.5
167.5°	603.5	603.0	602.5	601.9	601.6	601.6	601.5	601.5	601.4	602.3	603.2
170°	606.7	606.1	605.5	604.9	604.6	604.7	604.8	604.9	605.0	605.8	606.6
172.5°	608.9	608.3	607.7	607.1	606.8	606.9	607.0	607.1	607.2	608.0	608.8
175°	611.3	610.7	610.1	609.5	609.3	609.4	609.5	609.6	609.7	610.6	611.5
177.5°	612.5	611.9	611.3	610.8	610.6	610.7	610.9	611.0	611.2	611.8	612.5
180°	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	593.2	593.2	593.2	593.2	593.2	593.2	593.2
2.5°	622.3	623.0	623.6	625.5	625.7	627.4	625.7
5°	673.8	677.1	682.4	687.6	688.1	691.5	685.5
7.5°	731.4	739.2	744.1	752.6	755.9	758.0	754.6
10°	771.2	778.4	791.1	797.3	803.5	804.5	801.6
12.5°	809.7	821.0	831.0	842.8	842.5	850.9	847.9
15°	860.9	872.6	886.5	899.6	904.3	904.3	908.2
17.5°	897.4	918.9	933.2	943.5	954.8	956.7	955.4
20°	922.1	945.2	960.6	973.9	981.6	983.7	983.7
22.5°	940.4	960.2	975.1	987.1	993.4	995.9	995.2
25°	953.1	970.1	979.2	982.8	984.4	984.0	979.5
27.5°	935.7	934.9	929.3	918.3	910.0	904.9	899.2
30°	902.5	890.0	875.7	859.9	839.6	824.0	819.3
32.5°	852.9	825.1	800.7	774.5	752.7	737.1	730.5
35°	757.2	713.0	676.8	645.3	622.4	608.0	603.2
37.5°	643.5	600.7	556.0	525.4	506.3	491.9	486.6
40°	571.2	524.6	485.6	457.0	437.4	423.2	423.0
42.5°	505.2	460.7	424.0	403.4	382.3	372.9	372.9
45°	413.7	378.1	347.0	330.7	318.1	310.4	308.3
47.5°	342.5	313.1	292.4	279.4	269.1	264.3	261.1
50°	302.6	276.8	260.2	249.0	243.3	237.1	236.6
52.5°	269.3	248.4	235.6	226.5	219.2	215.5	215.6
55°	226.3	209.8	200.8	193.8	188.1	185.2	184.0
57.5°	190.7	178.3	171.7	165.3	162.9	160.7	160.1
60°	168.5	160.2	153.9	148.9	145.3	144.6	144.3
62.5°	150.2	141.4	137.1	133.2	130.6	129.5	129.1
65°	123.8	117.3	113.5	110.4	109.5	107.8	107.6
67.5°	99.8	95.9	93.4	91.3	90.0	89.9	89.9
70°	85.1	82.9	80.8	79.6	78.9	78.4	78.4
72.5°	72.5	70.9	69.1	68.5	68.4	67.9	67.7
75°	55.2	53.5	53.8	52.6	51.6	50.4	49.7
77.5°	39.2	38.0	37.7	37.6	36.8	36.7	37.0
80°	30.4	29.2	28.9	29.2	28.9	28.2	28.2
82.5°	23.1	22.1	21.8	21.7	21.5	21.7	21.3
85°	12.4	11.9	11.9	11.9	12.4	12.2	11.9
87.5°	6.8	6.7	7.0	6.9	6.9	6.8	7.0
90°	11.9	12.5	12.9	13.1	13.3	13.5	13.7
92.5°	11.5	12.1	12.4	12.5	12.5	12.6	12.6
95°	11.9	12.5	12.8	12.9	13.0	13.1	13.2
97.5°	12.2	12.3	12.4	12.5	12.6	12.7	12.8
100°	14.9	13.2	12.4	12.5	12.6	12.7	12.8
102.5°	41.1	22.4	13.1	13.1	13.1	13.1	13.2
105°	145.5	146.4	145.1	141.4	137.7	134.1	130.5
107.5°	179.4	179.9	180.3	180.7	181.0	181.4	181.8
110°	202.5	202.7	202.9	203.2	203.5	203.8	204.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	224.8	224.7	224.9	225.3	225.7	226.1	226.4
115°	258.7	258.9	259.0	259.0	259.0	259.0	259.0
117.5°	292.5	292.4	292.4	292.3	292.3	292.3	292.2
120°	313.7	313.9	313.9	313.7	313.5	313.3	313.1
122.5°	334.3	334.4	334.4	334.2	334.0	333.8	333.6
125°	363.3	363.7	363.9	364.0	364.1	364.2	364.3
127.5°	391.7	391.7	391.6	391.5	391.4	391.4	391.3
130°	409.5	409.6	409.6	409.6	409.6	409.6	409.6
132.5°	426.7	426.8	426.8	426.7	426.7	426.6	426.5
135°	450.5	450.7	450.9	451.1	451.3	451.5	451.7
137.5°	473.2	473.5	473.5	473.5	473.4	473.4	473.3
140°	487.5	487.8	488.0	488.1	488.2	488.3	488.4
142.5°	500.4	500.6	500.7	500.7	500.8	500.8	500.8
145°	518.9	519.0	519.1	519.3	519.5	519.7	519.9
147.5°	535.1	535.2	535.3	535.4	535.5	535.6	535.7
150°	545.5	545.5	545.6	545.7	545.8	545.9	546.0
152.5°	554.8	555.0	555.0	555.0	554.9	554.8	554.8
155°	567.3	567.7	567.8	567.5	567.2	566.9	566.6
157.5°	578.0	578.6	578.6	578.0	577.5	577.0	576.5
160°	584.9	585.5	585.5	584.9	584.3	583.7	583.1
162.5°	590.4	591.0	591.0	590.3	589.6	588.9	588.2
165°	598.3	599.2	599.1	598.1	597.2	596.3	595.4
167.5°	604.1	605.0	604.9	603.9	602.9	601.9	600.9
170°	607.4	608.3	608.2	607.1	606.1	605.1	604.1
172.5°	609.7	610.5	610.4	609.3	608.1	607.0	605.9
175°	612.4	613.3	613.1	611.9	610.7	609.5	608.2
177.5°	613.1	613.8	613.6	612.7	611.7	610.7	609.8
180°	611.9	611.9	611.9	611.9	611.9	611.9	611.9

(END OF REPORT)