

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: P333016-840

Luminaire Tested: **S124RDIW-S350D470U840-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333016-840
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: S124RDIW-S350D470U840-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 350 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 470 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3142.8 lumens
Efficiency: N/A
Efficacy: 136.6 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

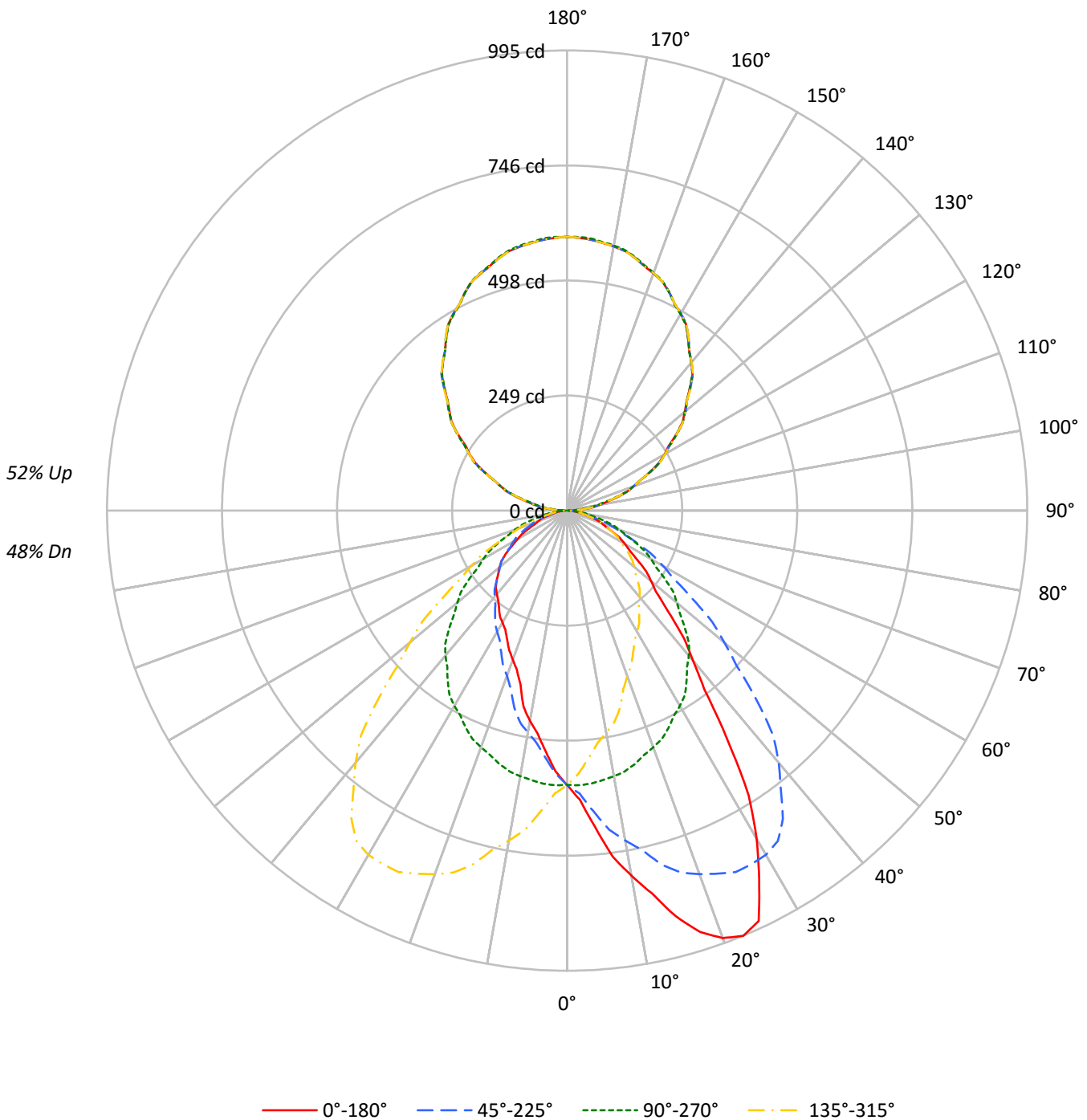
Input Watts (W): 23
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	0
RCR																		
0	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	48
1	98	94	90	87	90	86	83	80	73	70	68	60	59	57	48	47	47	41
2	89	82	76	71	82	76	71	67	64	60	57	53	51	48	43	41	40	35
3	82	73	66	60	75	67	61	56	57	52	49	47	44	41	39	36	34	30
4	75	64	57	51	69	60	53	48	51	46	42	42	39	36	35	32	30	26
5	69	58	50	44	63	53	47	41	46	40	36	38	34	31	31	29	26	23
6	64	52	44	38	58	48	41	36	41	36	32	35	31	27	29	26	23	20
7	59	47	39	34	54	44	37	32	37	32	28	32	28	24	26	23	21	18
8	55	43	35	30	50	40	33	28	34	29	25	29	25	22	24	21	19	16
9	51	39	32	27	47	36	30	25	31	26	22	27	23	20	22	19	17	15
10	48	36	29	24	44	33	27	23	29	24	20	25	21	18	21	18	15	13

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	1.8
10°-20°	173.4	5.5
20°-30°	271.2	8.6
30°-40°	301.5	9.6
40°-50°	267.5	8.5
50°-60°	208.4	6.6
60°-70°	136.5	4.3
70°-80°	67.1	2.1
80°-90°	18.3	0.6
90°-100°	39.0	1.2
100°-110°	115.6	3.7
110°-120°	196.2	6.2
120°-130°	258.7	8.2
130°-140°	290.6	9.2
140°-150°	285.5	9.1
150°-160°	240.2	7.6
160°-170°	159.8	5.1
170°-180°	56.0	1.8
0°-30°	502.0	16.0
0°-40°	803.5	25.6
0°-60°	1279.4	40.7
0°-90°	1501.3	47.8
90°-120°	350.9	11.2
90°-150°	1185.7	37.7
90°-180°	1642.0	52.2
0°-180°	3142.8	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	7
95°	36	28	36	28	36	38
105°	112	107	112	107	112	118
115°	198	200	198	200	198	195
125°	288	290	288	290	288	257
135°	375	375	375	375	375	290
145°	456	455	456	455	456	285
155°	521	522	521	522	521	240
165°	566	568	566	568	566	160
175°	588	591	588	591	588	56
180°	592	592	592	592	592	



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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°	20.3	20.2	20.1	20.0	19.8	19.6	19.2	18.9	18.5	18.1	17.6
95°	36.2	36.2	36.2	36.2	36.2	36.0	35.6	35.3	35.0	34.7	34.0
97.5°	56.7	56.7	56.7	56.7	56.7	56.5	56.1	55.7	55.3	55.0	54.1
100°	70.9	70.9	70.9	70.9	70.9	70.8	70.6	70.4	70.2	70.0	69.1
102.5°	87.1	86.9	86.8	86.7	86.7	86.5	86.2	85.9	85.6	85.4	84.5
105°	111.7	111.4	111.1	110.8	110.5	110.2	109.9	109.6	109.2	108.9	108.5
107.5°	135.6	135.6	135.7	135.7	135.7	135.6	135.3	135.0	134.7	134.4	134.4
110°	152.8	152.5	152.2	151.9	151.6	151.6	151.8	152.0	152.2	152.4	152.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	170.4	170.4	170.3	170.3	170.2	170.2	170.2	170.3	170.3	170.4	170.5
115°	197.7	197.8	197.9	198.0	198.1	198.2	198.3	198.4	198.5	198.6	198.8
117.5°	223.7	223.9	224.1	224.3	224.5	224.8	225.1	225.5	225.8	226.1	226.3
120°	243.5	243.3	243.1	242.9	242.7	242.8	243.3	243.8	244.3	244.8	245.1
122.5°	259.9	260.2	260.6	261.1	261.4	261.8	262.1	262.5	262.8	263.2	263.3
125°	288.3	288.5	288.7	288.9	289.1	289.3	289.5	289.7	289.9	290.1	290.2
127.5°	314.6	314.8	314.9	315.1	315.2	315.4	315.6	315.8	316.0	316.2	316.4
130°	331.7	332.1	332.5	333.0	333.4	333.7	333.9	334.1	334.3	334.5	334.5
132.5°	350.1	350.2	350.4	350.5	350.7	350.9	351.1	351.3	351.5	351.7	351.8
135°	375.3	375.6	375.9	376.2	376.5	376.7	376.9	377.1	377.3	377.5	377.5
137.5°	401.7	401.6	401.5	401.5	401.4	401.5	401.8	402.0	402.3	402.6	402.4
140°	417.8	417.9	418.0	418.1	418.2	418.3	418.4	418.5	418.6	418.7	418.7
142.5°	433.9	433.9	433.9	433.9	433.9	434.0	434.0	434.0	434.0	434.0	434.1
145°	455.8	456.1	456.4	456.7	457.0	457.2	457.3	457.4	457.5	457.6	457.5
147.5°	478.0	478.1	478.2	478.3	478.4	478.5	478.5	478.6	478.7	478.8	478.9
150°	491.5	491.6	491.7	491.8	491.9	491.9	491.9	491.9	491.9	491.9	491.9
152.5°	503.9	504.2	504.4	504.7	504.9	505.0	504.7	504.5	504.2	504.0	503.9
155°	521.2	521.6	522.0	522.4	522.8	522.8	522.4	522.0	521.6	521.2	521.3
157.5°	536.6	537.0	537.3	537.8	538.1	538.1	537.8	537.5	537.1	536.8	536.8
160°	545.4	545.9	546.5	547.0	547.5	547.6	547.3	547.0	546.7	546.4	546.5
162.5°	554.6	555.1	555.6	556.1	556.6	556.6	556.1	555.5	555.0	554.4	554.5
165°	566.5	566.9	567.3	567.7	568.2	568.0	567.4	566.8	566.2	565.6	565.8
167.5°	575.0	575.6	576.3	576.9	577.5	577.5	576.9	576.3	575.7	575.1	575.1
170°	579.8	580.5	581.2	581.9	582.6	582.7	582.1	581.5	580.9	580.3	580.2
172.5°	583.8	584.5	585.2	585.9	586.6	586.6	586.0	585.3	584.6	583.9	583.9
175°	588.0	588.8	589.5	590.2	590.9	590.9	590.2	589.5	588.8	588.0	588.1
177.5°	590.3	590.9	591.6	592.2	592.8	592.9	592.3	591.8	591.2	590.6	590.6
180°	591.7	591.7	591.7	591.7	591.7	591.7	591.7	591.7	591.7	591.7	591.7



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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°	17.0	16.5	15.9	14.9	13.6	12.3	11.1	9.8	11.1	12.3	13.6
95°	33.3	32.6	31.9	31.1	30.2	29.3	28.4	27.5	28.4	29.3	30.2
97.5°	53.3	52.5	51.7	50.9	50.2	49.4	48.7	48.0	48.7	49.4	50.2
100°	68.2	67.3	66.3	65.7	65.2	64.8	64.4	64.0	64.4	64.8	65.2
102.5°	83.7	82.9	82.1	81.6	81.4	81.2	81.1	80.9	81.1	81.2	81.4
105°	108.1	107.7	107.2	107.0	106.9	106.8	106.7	106.6	106.7	106.8	106.9
107.5°	134.3	134.3	134.2	134.1	134.0	133.9	133.7	133.6	133.7	133.9	134.0
110°	152.6	152.7	152.8	152.7	152.5	152.3	152.1	151.9	152.1	152.3	152.5



TEST NUMBER: P333016-840

CATALOG NUMBER: S124RDIW-S350D470U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	170.7	170.9	171.1	171.2	171.1	171.1	171.0	171.0	171.0	171.1	171.1
115°	199.0	199.2	199.4	199.5	199.5	199.5	199.5	199.5	199.5	199.5	199.5
117.5°	226.4	226.6	226.7	226.7	226.7	226.6	226.5	226.4	226.5	226.6	226.7
120°	245.4	245.7	246.0	246.0	245.6	245.2	244.8	244.4	244.8	245.2	245.6
122.5°	263.4	263.6	263.7	263.7	263.5	263.4	263.2	263.1	263.2	263.4	263.5
125°	290.3	290.4	290.5	290.5	290.5	290.5	290.5	290.5	290.5	290.5	290.5
127.5°	316.5	316.7	316.9	316.8	316.5	316.2	315.9	315.6	315.9	316.2	316.5
130°	334.5	334.5	334.5	334.4	334.1	333.8	333.5	333.2	333.5	333.8	334.1
132.5°	351.8	351.9	352.0	351.9	351.7	351.5	351.3	351.0	351.3	351.5	351.7
135°	377.5	377.5	377.5	377.2	376.6	376.0	375.4	374.8	375.4	376.0	376.6
137.5°	402.3	402.1	401.9	401.7	401.4	401.1	400.9	400.6	400.9	401.1	401.4
140°	418.7	418.7	418.7	418.6	418.4	418.2	418.0	417.8	418.0	418.2	418.4
142.5°	434.2	434.3	434.4	434.3	434.1	433.9	433.7	433.5	433.7	433.9	434.1
145°	457.4	457.3	457.2	457.0	456.6	456.2	455.8	455.3	455.8	456.2	456.6
147.5°	478.9	479.0	479.1	478.9	478.4	477.9	477.4	477.0	477.4	477.9	478.4
150°	491.9	491.9	491.9	491.7	491.3	490.9	490.5	490.1	490.5	490.9	491.3
152.5°	503.8	503.7	503.7	503.5	503.3	503.0	502.8	502.5	502.8	503.0	503.3
155°	521.4	521.5	521.6	521.7	521.7	521.7	521.7	521.7	521.7	521.7	521.7
157.5°	536.9	536.9	536.9	537.0	537.2	537.5	537.6	537.8	537.6	537.5	537.2
160°	546.6	546.7	546.8	546.9	547.0	547.1	547.2	547.3	547.2	547.1	547.0
162.5°	554.6	554.7	554.8	555.0	555.3	555.5	555.8	556.1	555.8	555.5	555.3
165°	566.0	566.2	566.4	566.6	566.9	567.2	567.5	567.8	567.5	567.2	566.9
167.5°	575.1	575.0	575.0	575.2	575.7	576.1	576.5	576.9	576.5	576.1	575.7
170°	580.1	580.0	579.9	580.1	580.6	581.1	581.6	582.1	581.6	581.1	580.6
172.5°	583.9	583.8	583.8	584.0	584.5	584.9	585.3	585.7	585.3	584.9	584.5
175°	588.2	588.3	588.4	588.8	589.3	589.8	590.3	590.8	590.3	589.8	589.3
177.5°	590.6	590.6	590.6	590.8	591.2	591.6	592.0	592.4	592.0	591.6	591.2
180°	591.7	591.7	591.7	591.7	591.7	591.7	591.7	591.7	591.7	591.7	591.7



TEST NUMBER: P333016-840

CATALOG NUMBER: S124RDIW-S350D470U840-4F0-1E-UDD-A1

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°	14.9	15.9	16.5	17.0	17.6	18.1	18.5	18.9	19.2	19.6	19.8
95°	31.1	31.9	32.6	33.3	34.0	34.7	35.0	35.3	35.6	36.0	36.2
97.5°	50.9	51.7	52.5	53.3	54.1	55.0	55.3	55.7	56.1	56.5	56.7
100°	65.7	66.3	67.3	68.2	69.1	70.0	70.2	70.4	70.6	70.8	70.9
102.5°	81.6	82.1	82.9	83.7	84.5	85.4	85.6	85.9	86.2	86.5	86.7
105°	107.0	107.2	107.7	108.1	108.5	108.9	109.2	109.6	109.9	110.2	110.5
107.5°	134.1	134.2	134.3	134.3	134.4	134.4	134.7	135.0	135.3	135.6	135.7
110°	152.7	152.8	152.7	152.6	152.5	152.4	152.2	152.0	151.8	151.6	151.6



TEST NUMBER: P333016-840

CATALOG NUMBER: S124RDIW-S350D470U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	171.2	171.1	170.9	170.7	170.5	170.4	170.3	170.3	170.2	170.2	170.2
115°	199.5	199.4	199.2	199.0	198.8	198.6	198.5	198.4	198.3	198.2	198.1
117.5°	226.7	226.7	226.6	226.4	226.3	226.1	225.8	225.5	225.1	224.8	224.5
120°	246.0	246.0	245.7	245.4	245.1	244.8	244.3	243.8	243.3	242.8	242.7
122.5°	263.7	263.7	263.6	263.4	263.3	263.2	262.8	262.5	262.1	261.8	261.4
125°	290.5	290.5	290.4	290.3	290.2	290.1	289.9	289.7	289.5	289.3	289.1
127.5°	316.8	316.9	316.7	316.5	316.4	316.2	316.0	315.8	315.6	315.4	315.2
130°	334.4	334.5	334.5	334.5	334.5	334.5	334.3	334.1	333.9	333.7	333.4
132.5°	351.9	352.0	351.9	351.8	351.8	351.7	351.5	351.3	351.1	350.9	350.7
135°	377.2	377.5	377.5	377.5	377.5	377.5	377.3	377.1	376.9	376.7	376.5
137.5°	401.7	401.9	402.1	402.3	402.4	402.6	402.3	402.0	401.8	401.5	401.4
140°	418.6	418.7	418.7	418.7	418.7	418.7	418.6	418.5	418.4	418.3	418.2
142.5°	434.3	434.4	434.3	434.2	434.1	434.0	434.0	434.0	434.0	434.0	433.9
145°	457.0	457.2	457.3	457.4	457.5	457.6	457.5	457.4	457.3	457.2	457.0
147.5°	478.9	479.1	479.0	478.9	478.9	478.8	478.7	478.6	478.5	478.5	478.4
150°	491.7	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9
152.5°	503.5	503.7	503.7	503.8	503.9	504.0	504.2	504.5	504.7	505.0	504.9
155°	521.7	521.6	521.5	521.4	521.3	521.2	521.6	522.0	522.4	522.8	522.8
157.5°	537.0	536.9	536.9	536.9	536.8	536.8	537.1	537.5	537.8	538.1	538.1
160°	546.9	546.8	546.7	546.6	546.5	546.4	546.7	547.0	547.3	547.6	547.5
162.5°	555.0	554.8	554.7	554.6	554.5	554.4	555.0	555.5	556.1	556.6	556.6
165°	566.6	566.4	566.2	566.0	565.8	565.6	566.2	566.8	567.4	568.0	568.2
167.5°	575.2	575.0	575.0	575.1	575.1	575.1	575.7	576.3	576.9	577.5	577.5
170°	580.1	579.9	580.0	580.1	580.2	580.3	580.9	581.5	582.1	582.7	582.6
172.5°	584.0	583.8	583.8	583.9	583.9	583.9	584.6	585.3	586.0	586.6	586.6
175°	588.8	588.4	588.3	588.2	588.1	588.0	588.8	589.5	590.2	590.9	590.9
177.5°	590.8	590.6	590.6	590.6	590.6	590.6	591.2	591.8	592.3	592.9	592.8
180°	591.7	591.7	591.7	591.7	591.7	591.7	591.7	591.7	591.7	591.7	591.7



TEST NUMBER: P333016-840

CATALOG NUMBER: S124RDIW-S350D470U840-4F0-1E-UDD-A1

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°	20.0	20.1	20.2	20.3	20.2	20.1	20.0	19.8	19.6	19.2	18.9
95°	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.0	35.6	35.3
97.5°	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.5	56.1	55.7
100°	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.8	70.6	70.4
102.5°	86.7	86.8	86.9	87.1	86.9	86.8	86.7	86.7	86.5	86.2	85.9
105°	110.8	111.1	111.4	111.7	111.4	111.1	110.8	110.5	110.2	109.9	109.6
107.5°	135.7	135.7	135.6	135.6	135.6	135.7	135.7	135.7	135.6	135.3	135.0
110°	151.9	152.2	152.5	152.8	152.5	152.2	151.9	151.6	151.6	151.8	152.0



TEST NUMBER: P333016-840

CATALOG NUMBER: S124RDIW-S350D470U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	170.3	170.3	170.4	170.4	170.4	170.3	170.3	170.2	170.2	170.2	170.3
115°	198.0	197.9	197.8	197.7	197.8	197.9	198.0	198.1	198.2	198.3	198.4
117.5°	224.3	224.1	223.9	223.7	223.9	224.1	224.3	224.5	224.8	225.1	225.5
120°	242.9	243.1	243.3	243.5	243.3	243.1	242.9	242.7	242.8	243.3	243.8
122.5°	261.1	260.6	260.2	259.9	260.2	260.6	261.1	261.4	261.8	262.1	262.5
125°	288.9	288.7	288.5	288.3	288.5	288.7	288.9	289.1	289.3	289.5	289.7
127.5°	315.1	314.9	314.8	314.6	314.8	314.9	315.1	315.2	315.4	315.6	315.8
130°	333.0	332.5	332.1	331.7	332.1	332.5	333.0	333.4	333.7	333.9	334.1
132.5°	350.5	350.4	350.2	350.1	350.2	350.4	350.5	350.7	350.9	351.1	351.3
135°	376.2	375.9	375.6	375.3	375.6	375.9	376.2	376.5	376.7	376.9	377.1
137.5°	401.5	401.5	401.6	401.7	401.6	401.5	401.5	401.4	401.5	401.8	402.0
140°	418.1	418.0	417.9	417.8	417.9	418.0	418.1	418.2	418.3	418.4	418.5
142.5°	433.9	433.9	433.9	433.9	433.9	433.9	433.9	433.9	434.0	434.0	434.0
145°	456.7	456.4	456.1	455.8	456.1	456.4	456.7	457.0	457.2	457.3	457.4
147.5°	478.3	478.2	478.1	478.0	478.1	478.2	478.3	478.4	478.5	478.5	478.6
150°	491.8	491.7	491.6	491.5	491.6	491.7	491.8	491.9	491.9	491.9	491.9
152.5°	504.7	504.4	504.2	503.9	504.2	504.4	504.7	504.9	505.0	504.7	504.5
155°	522.4	522.0	521.6	521.2	521.6	522.0	522.4	522.8	522.8	522.4	522.0
157.5°	537.8	537.3	537.0	536.6	537.0	537.3	537.8	538.1	538.1	537.8	537.5
160°	547.0	546.5	545.9	545.4	545.9	546.5	547.0	547.5	547.6	547.3	547.0
162.5°	556.1	555.6	555.1	554.6	555.1	555.6	556.1	556.6	556.6	556.1	555.5
165°	567.7	567.3	566.9	566.5	566.9	567.3	567.7	568.2	568.0	567.4	566.8
167.5°	576.9	576.3	575.6	575.0	575.6	576.3	576.9	577.5	577.5	576.9	576.3
170°	581.9	581.2	580.5	579.8	580.5	581.2	581.9	582.6	582.7	582.1	581.5
172.5°	585.9	585.2	584.5	583.8	584.5	585.2	585.9	586.6	586.6	586.0	585.3
175°	590.2	589.5	588.8	588.0	588.8	589.5	590.2	590.9	590.9	590.2	589.5
177.5°	592.2	591.6	590.9	590.3	590.9	591.6	592.2	592.8	592.9	592.3	591.8
180°	591.7	591.7	591.7	591.7	591.7	591.7	591.7	591.7	591.7	591.7	591.7



TEST NUMBER: P333016-840

CATALOG NUMBER: S124RDIW-S350D470U840-4F0-1E-UDD-A1

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°	18.5	18.1	17.6	17.0	16.5	15.9	14.9	13.6	12.3	11.1	9.8
95°	35.0	34.7	34.0	33.3	32.6	31.9	31.1	30.2	29.3	28.4	27.5
97.5°	55.3	55.0	54.1	53.3	52.5	51.7	50.9	50.2	49.4	48.7	48.0
100°	70.2	70.0	69.1	68.2	67.3	66.3	65.7	65.2	64.8	64.4	64.0
102.5°	85.6	85.4	84.5	83.7	82.9	82.1	81.6	81.4	81.2	81.1	80.9
105°	109.2	108.9	108.5	108.1	107.7	107.2	107.0	106.9	106.8	106.7	106.6
107.5°	134.7	134.4	134.4	134.3	134.3	134.2	134.1	134.0	133.9	133.7	133.6
110°	152.2	152.4	152.5	152.6	152.7	152.8	152.7	152.5	152.3	152.1	151.9



TEST NUMBER: P333016-840

CATALOG NUMBER: S124RDIW-S350D470U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	170.3	170.4	170.5	170.7	170.9	171.1	171.2	171.1	171.1	171.0	171.0
115°	198.5	198.6	198.8	199.0	199.2	199.4	199.5	199.5	199.5	199.5	199.5
117.5°	225.8	226.1	226.3	226.4	226.6	226.7	226.7	226.7	226.6	226.5	226.4
120°	244.3	244.8	245.1	245.4	245.7	246.0	246.0	245.6	245.2	244.8	244.4
122.5°	262.8	263.2	263.3	263.4	263.6	263.7	263.7	263.5	263.4	263.2	263.1
125°	289.9	290.1	290.2	290.3	290.4	290.5	290.5	290.5	290.5	290.5	290.5
127.5°	316.0	316.2	316.4	316.5	316.7	316.9	316.8	316.5	316.2	315.9	315.6
130°	334.3	334.5	334.5	334.5	334.5	334.5	334.4	334.1	333.8	333.5	333.2
132.5°	351.5	351.7	351.8	351.8	351.9	352.0	351.9	351.7	351.5	351.3	351.0
135°	377.3	377.5	377.5	377.5	377.5	377.5	377.2	376.6	376.0	375.4	374.8
137.5°	402.3	402.6	402.4	402.3	402.1	401.9	401.7	401.4	401.1	400.9	400.6
140°	418.6	418.7	418.7	418.7	418.7	418.7	418.6	418.4	418.2	418.0	417.8
142.5°	434.0	434.0	434.1	434.2	434.3	434.4	434.3	434.1	433.9	433.7	433.5
145°	457.5	457.6	457.5	457.4	457.3	457.2	457.0	456.6	456.2	455.8	455.3
147.5°	478.7	478.8	478.9	478.9	479.0	479.1	478.9	478.4	477.9	477.4	477.0
150°	491.9	491.9	491.9	491.9	491.9	491.9	491.7	491.3	490.9	490.5	490.1
152.5°	504.2	504.0	503.9	503.8	503.7	503.7	503.5	503.3	503.0	502.8	502.5
155°	521.6	521.2	521.3	521.4	521.5	521.6	521.7	521.7	521.7	521.7	521.7
157.5°	537.1	536.8	536.8	536.9	536.9	536.9	537.0	537.2	537.5	537.6	537.8
160°	546.7	546.4	546.5	546.6	546.7	546.8	546.9	547.0	547.1	547.2	547.3
162.5°	555.0	554.4	554.5	554.6	554.7	554.8	555.0	555.3	555.5	555.8	556.1
165°	566.2	565.6	565.8	566.0	566.2	566.4	566.6	566.9	567.2	567.5	567.8
167.5°	575.7	575.1	575.1	575.1	575.0	575.0	575.2	575.7	576.1	576.5	576.9
170°	580.9	580.3	580.2	580.1	580.0	579.9	580.1	580.6	581.1	581.6	582.1
172.5°	584.6	583.9	583.9	583.9	583.8	583.8	584.0	584.5	584.9	585.3	585.7
175°	588.8	588.0	588.1	588.2	588.3	588.4	588.8	589.3	589.8	590.3	590.8
177.5°	591.2	590.6	590.6	590.6	590.6	590.6	590.8	591.2	591.6	592.0	592.4
180°	591.7	591.7	591.7	591.7	591.7	591.7	591.7	591.7	591.7	591.7	591.7



TEST NUMBER: P333016-840

CATALOG NUMBER: S124RDIW-S350D470U840-4F0-1E-UDD-A1

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°	11.1	12.3	13.6	14.9	15.9	16.5	17.0	17.6	18.1	18.5	18.9
95°	28.4	29.3	30.2	31.1	31.9	32.6	33.3	34.0	34.7	35.0	35.3
97.5°	48.7	49.4	50.2	50.9	51.7	52.5	53.3	54.1	55.0	55.3	55.7
100°	64.4	64.8	65.2	65.7	66.3	67.3	68.2	69.1	70.0	70.2	70.4
102.5°	81.1	81.2	81.4	81.6	82.1	82.9	83.7	84.5	85.4	85.6	85.9
105°	106.7	106.8	106.9	107.0	107.2	107.7	108.1	108.5	108.9	109.2	109.6
107.5°	133.7	133.9	134.0	134.1	134.2	134.3	134.3	134.4	134.4	134.7	135.0
110°	152.1	152.3	152.5	152.7	152.8	152.7	152.6	152.5	152.4	152.2	152.0



TEST NUMBER: P333016-840

CATALOG NUMBER: S124RDIW-S350D470U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	171.0	171.1	171.1	171.2	171.1	170.9	170.7	170.5	170.4	170.3	170.3
115°	199.5	199.5	199.5	199.5	199.4	199.2	199.0	198.8	198.6	198.5	198.4
117.5°	226.5	226.6	226.7	226.7	226.7	226.6	226.4	226.3	226.1	225.8	225.5
120°	244.8	245.2	245.6	246.0	246.0	245.7	245.4	245.1	244.8	244.3	243.8
122.5°	263.2	263.4	263.5	263.7	263.7	263.6	263.4	263.3	263.2	262.8	262.5
125°	290.5	290.5	290.5	290.5	290.5	290.4	290.3	290.2	290.1	289.9	289.7
127.5°	315.9	316.2	316.5	316.8	316.9	316.7	316.5	316.4	316.2	316.0	315.8
130°	333.5	333.8	334.1	334.4	334.5	334.5	334.5	334.5	334.5	334.3	334.1
132.5°	351.3	351.5	351.7	351.9	352.0	351.9	351.8	351.8	351.7	351.5	351.3
135°	375.4	376.0	376.6	377.2	377.5	377.5	377.5	377.5	377.5	377.3	377.1
137.5°	400.9	401.1	401.4	401.7	401.9	402.1	402.3	402.4	402.6	402.3	402.0
140°	418.0	418.2	418.4	418.6	418.7	418.7	418.7	418.7	418.7	418.6	418.5
142.5°	433.7	433.9	434.1	434.3	434.4	434.3	434.2	434.1	434.0	434.0	434.0
145°	455.8	456.2	456.6	457.0	457.2	457.3	457.4	457.5	457.6	457.5	457.4
147.5°	477.4	477.9	478.4	478.9	479.1	479.0	478.9	478.9	478.8	478.7	478.6
150°	490.5	490.9	491.3	491.7	491.9	491.9	491.9	491.9	491.9	491.9	491.9
152.5°	502.8	503.0	503.3	503.5	503.7	503.7	503.8	503.9	504.0	504.2	504.5
155°	521.7	521.7	521.7	521.7	521.6	521.5	521.4	521.3	521.2	521.6	522.0
157.5°	537.6	537.5	537.2	537.0	536.9	536.9	536.9	536.8	536.8	537.1	537.5
160°	547.2	547.1	547.0	546.9	546.8	546.7	546.6	546.5	546.4	546.7	547.0
162.5°	555.8	555.5	555.3	555.0	554.8	554.7	554.6	554.5	554.4	555.0	555.5
165°	567.5	567.2	566.9	566.6	566.4	566.2	566.0	565.8	565.6	566.2	566.8
167.5°	576.5	576.1	575.7	575.2	575.0	575.0	575.1	575.1	575.1	575.7	576.3
170°	581.6	581.1	580.6	580.1	579.9	580.0	580.1	580.2	580.3	580.9	581.5
172.5°	585.3	584.9	584.5	584.0	583.8	583.8	583.9	583.9	583.9	584.6	585.3
175°	590.3	589.8	589.3	588.8	588.4	588.3	588.2	588.1	588.0	588.8	589.5
177.5°	592.0	591.6	591.2	590.8	590.6	590.6	590.6	590.6	590.6	591.2	591.8
180°	591.7	591.7	591.7	591.7	591.7	591.7	591.7	591.7	591.7	591.7	591.7



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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°	19.2	19.6	19.8	20.0	20.1	20.2	20.3
95°	35.6	36.0	36.2	36.2	36.2	36.2	36.2
97.5°	56.1	56.5	56.7	56.7	56.7	56.7	56.7
100°	70.6	70.8	70.9	70.9	70.9	70.9	70.9
102.5°	86.2	86.5	86.7	86.7	86.8	86.9	87.1
105°	109.9	110.2	110.5	110.8	111.1	111.4	111.7
107.5°	135.3	135.6	135.7	135.7	135.7	135.6	135.6
110°	151.8	151.6	151.6	151.9	152.2	152.5	152.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	170.2	170.2	170.2	170.3	170.3	170.4	170.4
115°	198.3	198.2	198.1	198.0	197.9	197.8	197.7
117.5°	225.1	224.8	224.5	224.3	224.1	223.9	223.7
120°	243.3	242.8	242.7	242.9	243.1	243.3	243.5
122.5°	262.1	261.8	261.4	261.1	260.6	260.2	259.9
125°	289.5	289.3	289.1	288.9	288.7	288.5	288.3
127.5°	315.6	315.4	315.2	315.1	314.9	314.8	314.6
130°	333.9	333.7	333.4	333.0	332.5	332.1	331.7
132.5°	351.1	350.9	350.7	350.5	350.4	350.2	350.1
135°	376.9	376.7	376.5	376.2	375.9	375.6	375.3
137.5°	401.8	401.5	401.4	401.5	401.5	401.6	401.7
140°	418.4	418.3	418.2	418.1	418.0	417.9	417.8
142.5°	434.0	434.0	433.9	433.9	433.9	433.9	433.9
145°	457.3	457.2	457.0	456.7	456.4	456.1	455.8
147.5°	478.5	478.5	478.4	478.3	478.2	478.1	478.0
150°	491.9	491.9	491.9	491.8	491.7	491.6	491.5
152.5°	504.7	505.0	504.9	504.7	504.4	504.2	503.9
155°	522.4	522.8	522.8	522.4	522.0	521.6	521.2
157.5°	537.8	538.1	538.1	537.8	537.3	537.0	536.6
160°	547.3	547.6	547.5	547.0	546.5	545.9	545.4
162.5°	556.1	556.6	556.6	556.1	555.6	555.1	554.6
165°	567.4	568.0	568.2	567.7	567.3	566.9	566.5
167.5°	576.9	577.5	577.5	576.9	576.3	575.6	575.0
170°	582.1	582.7	582.6	581.9	581.2	580.5	579.8
172.5°	586.0	586.6	586.6	585.9	585.2	584.5	583.8
175°	590.2	590.9	590.9	590.2	589.5	588.8	588.0
177.5°	592.3	592.9	592.8	592.2	591.6	590.9	590.3
180°	591.7	591.7	591.7	591.7	591.7	591.7	591.7

(END OF REPORT)