

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: P333019-840

Luminaire Tested: **S124RDIW-S350D770U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P333019-840  
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-S350D770U840-4F0-1E-UDD-A  
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 350 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 770 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4602.6 lumens  
Efficiency: N/A  
Efficacy: 151.4 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

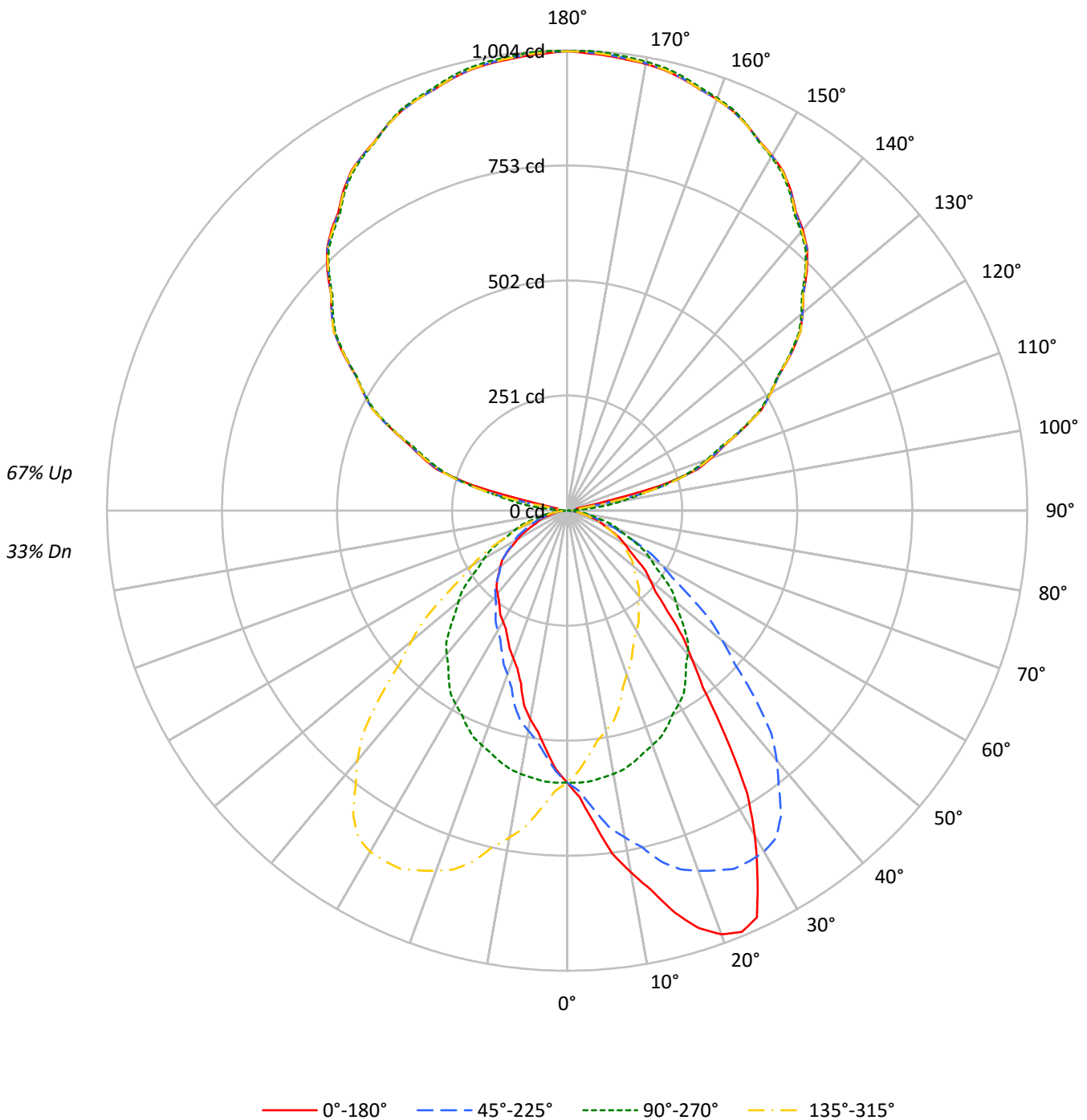
Input Watts (W): 30.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	33
1	94	90	86	83	85	81	78	75	65	63	61	50	49	47	36	35	34	28
2	86	79	73	68	77	71	67	62	57	54	51	44	42	40	32	31	29	24
3	79	70	63	57	71	63	57	52	51	46	43	39	36	34	29	27	25	21
4	72	62	54	48	65	56	49	45	45	40	37	35	32	29	26	24	22	18
5	66	55	47	42	59	50	43	38	40	36	32	31	28	25	23	21	19	16
6	61	49	42	36	55	45	38	33	36	31	28	28	25	22	21	19	17	14
7	56	44	37	31	51	40	34	29	33	28	24	26	22	20	19	17	15	12
8	52	40	33	28	47	37	30	26	30	25	22	24	20	18	18	15	14	11
9	48	37	29	25	44	34	27	23	27	23	19	22	18	16	16	14	12	10
10	45	34	27	22	41	31	25	20	25	21	17	20	17	14	15	13	11	9

**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	1.2
10°-20°	173.4	3.8
20°-30°	271.2	5.9
30°-40°	301.5	6.5
40°-50°	267.5	5.8
50°-60°	208.4	4.5
60°-70°	136.5	3.0
70°-80°	67.1	1.5
80°-90°	19.5	0.4
90°-100°	34.3	0.7
100°-110°	218.6	4.7
110°-120°	418.1	9.1
120°-130°	530.7	11.5
130°-140°	567.9	12.3
140°-150°	531.0	11.5
150°-160°	428.2	9.3
160°-170°	276.2	6.0
170°-180°	95.2	2.1
0°-30°	502.0	10.9
0°-40°	803.5	17.5
0°-60°	1279.4	27.8
0°-90°	1502.4	32.6
90°-120°	670.9	14.6
90°-150°	2300.6	50.0
90°-180°	3100.0	67.4
0°-180°	4602.6	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°	22	2	22	2	22	10
95°	22	41	22	41	22	17
105°	214	226	214	226	214	186
115°	424	421	424	421	424	420
125°	597	592	597	592	597	531
135°	740	735	740	735	740	569
145°	852	847	852	847	852	532
155°	928	929	928	929	928	428
165°	975	980	975	980	975	275
175°	996	1002	996	1002	996	95
180°	1002	1002	1002	1002	1002	



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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°	8.7	8.5	8.6	8.5	8.6	8.3	8.3	8.5	7.9	7.9	7.6
90°	22.5	22.1	21.8	21.5	21.1	20.5	19.5	18.5	17.5	16.5	15.1
92.5°	20.7	20.6	20.6	20.5	20.4	19.9	18.9	17.9	16.9	15.9	14.5
95°	21.7	21.6	21.4	21.2	21.1	20.5	19.5	18.5	17.5	16.5	16.4
97.5°	21.0	20.8	20.7	20.5	20.3	20.2	20.1	20.0	19.9	19.8	38.4
100°	21.0	20.8	20.7	20.5	20.3	21.6	24.4	27.4	30.2	33.0	55.9
102.5°	21.6	21.5	21.5	21.5	21.4	36.8	67.3	97.9	128.4	159.0	161.9
105°	213.7	219.6	225.6	231.7	237.6	239.8	238.3	236.9	235.4	233.9	233.1
107.5°	297.7	297.1	296.5	295.9	295.2	294.6	293.8	293.1	292.4	291.5	290.4
110°	334.4	333.9	333.4	332.9	332.3	331.9	331.5	331.2	330.9	330.5	329.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	370.9	370.3	369.6	369.0	368.4	368.1	368.2	368.2	368.3	368.4	367.9
115°	424.2	424.2	424.2	424.2	424.2	424.1	423.7	423.4	423.1	422.7	422.9
117.5°	478.6	478.6	478.7	478.8	478.8	478.9	479.0	479.0	479.1	479.2	478.8
120°	512.7	513.1	513.4	513.7	514.0	514.0	513.7	513.4	513.1	512.7	512.9
122.5°	546.3	546.6	546.9	547.3	547.6	547.8	547.5	547.3	547.1	546.9	546.6
125°	596.7	596.5	596.3	596.2	596.0	595.7	595.2	594.7	594.2	593.7	594.0
127.5°	641.0	641.1	641.2	641.4	641.5	641.6	641.7	641.8	641.9	642.0	641.2
130°	670.9	670.9	670.9	670.9	670.9	670.9	670.7	670.4	670.3	670.1	669.6
132.5°	698.5	698.6	698.7	698.9	699.0	699.0	698.8	698.6	698.5	698.3	697.7
135°	739.8	739.5	739.2	738.8	738.5	738.2	737.9	737.5	737.2	736.9	736.2
137.5°	775.3	775.4	775.5	775.6	775.7	775.5	775.2	774.8	774.4	774.1	773.4
140°	799.8	799.7	799.5	799.3	799.2	798.8	798.3	797.8	797.3	796.9	796.5
142.5°	820.2	820.2	820.1	820.1	820.1	819.9	819.5	819.2	818.8	818.4	818.2
145°	851.5	851.2	850.9	850.5	850.2	850.0	849.8	849.6	849.5	849.3	849.3
147.5°	877.5	877.4	877.2	877.0	876.9	876.7	876.6	876.4	876.3	876.2	876.3
150°	894.2	894.1	893.9	893.8	893.6	893.5	893.5	893.5	893.5	893.5	893.7
152.5°	908.7	908.8	908.9	909.0	909.1	909.0	908.7	908.5	908.2	908.0	908.3
155°	928.1	928.5	929.0	929.5	930.0	929.9	929.3	928.6	928.0	927.3	927.8
157.5°	944.2	945.0	945.9	946.8	947.7	947.7	946.8	945.9	945.0	944.2	944.7
160°	955.0	956.0	957.0	958.0	959.0	959.0	958.0	957.0	956.0	955.0	955.1
162.5°	963.4	964.5	965.6	966.8	968.0	968.0	966.9	966.0	965.0	964.0	964.1
165°	975.2	976.7	978.3	979.8	981.3	981.3	980.0	978.7	977.3	976.0	976.0
167.5°	984.1	985.7	987.4	989.1	990.8	990.9	989.4	988.0	986.4	985.0	985.1
170°	989.5	991.2	992.8	994.5	996.1	996.3	995.0	993.6	992.3	991.0	990.8
172.5°	992.5	994.3	996.1	997.8	999.7	999.9	998.6	997.2	995.9	994.6	994.4
175°	996.2	998.3	1000.3	1002.2	1004.2	1004.5	1003.0	1001.5	1000.0	998.5	998.4
177.5°	998.7	1000.3	1001.8	1003.4	1005.0	1005.3	1004.2	1003.2	1002.1	1001.0	1000.8
180°	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2



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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°	7.4	6.9	7.0	6.7	6.6	7.0	7.2	7.0	6.8	6.6	6.4
90°	13.8	12.5	11.2	9.6	7.8	6.0	4.0	2.2	4.0	6.0	7.8
92.5°	13.2	11.9	10.6	9.8	9.7	9.7	9.6	9.5	9.6	9.7	9.7
95°	16.2	16.0	15.9	18.6	24.2	29.9	35.5	41.2	35.5	29.9	24.2
97.5°	57.0	75.5	94.1	101.7	98.2	94.6	91.1	87.6	91.1	94.6	98.2
100°	79.0	102.0	124.9	134.9	131.9	129.0	125.9	122.9	125.9	129.0	131.9
102.5°	164.9	167.9	170.9	171.3	169.2	166.9	164.7	162.5	164.7	166.9	169.2
105°	232.2	231.4	230.6	229.6	228.6	227.6	226.6	225.6	226.6	227.6	228.6
107.5°	289.3	288.2	287.1	286.3	285.8	285.3	284.8	284.3	284.8	285.3	285.8
110°	328.6	327.6	326.6	325.8	325.4	324.9	324.4	323.9	324.4	324.9	325.4





TEST NUMBER: P333019-840

CATALOG NUMBER: S124RDIW-S350D770U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	367.4	367.0	366.5	365.8	364.9	364.1	363.1	362.2	363.1	364.1	364.9
115°	423.1	423.2	423.4	423.2	422.7	422.3	421.8	421.3	421.8	422.3	422.7
117.5°	478.4	478.1	477.7	477.2	476.5	475.8	475.1	474.5	475.1	475.8	476.5
120°	513.1	513.2	513.4	513.1	512.5	511.8	511.2	510.5	511.2	511.8	512.5
122.5°	546.4	546.2	545.9	545.6	545.2	544.8	544.4	544.1	544.4	544.8	545.2
125°	594.4	594.7	595.0	594.8	594.2	593.5	592.9	592.2	592.9	593.5	594.2
127.5°	640.5	639.6	638.9	638.4	638.2	638.1	637.9	637.7	637.9	638.1	638.2
130°	669.1	668.6	668.1	667.8	667.6	667.5	667.3	667.1	667.3	667.5	667.6
132.5°	697.1	696.4	695.8	695.3	695.0	694.8	694.5	694.2	694.5	694.8	695.0
135°	735.5	734.9	734.2	734.0	734.1	734.3	734.5	734.6	734.5	734.3	734.1
137.5°	772.5	771.8	771.1	770.7	770.6	770.6	770.5	770.4	770.5	770.6	770.6
140°	796.2	795.9	795.5	795.2	794.9	794.5	794.2	793.9	794.2	794.5	794.9
142.5°	818.0	817.8	817.6	817.2	816.6	816.1	815.5	814.9	815.5	816.1	816.6
145°	849.3	849.3	849.3	849.1	848.6	848.1	847.6	847.1	847.6	848.1	848.6
147.5°	876.5	876.7	876.8	876.5	875.5	874.5	873.6	872.7	873.6	874.5	875.5
150°	893.8	894.0	894.2	893.9	893.3	892.6	891.9	891.3	891.9	892.6	893.3
152.5°	908.6	908.8	909.1	909.0	908.5	908.0	907.4	906.9	907.4	908.0	908.5
155°	928.3	928.8	929.3	929.5	929.3	929.1	929.0	928.8	929.0	929.1	929.3
157.5°	945.3	945.9	946.4	946.8	947.0	947.1	947.2	947.3	947.2	947.1	947.0
160°	955.3	955.5	955.6	956.0	956.5	957.0	957.5	958.0	957.5	957.0	956.5
162.5°	964.3	964.5	964.6	965.0	965.7	966.3	966.9	967.6	966.9	966.3	965.7
165°	976.0	976.0	976.0	976.4	977.2	978.1	978.9	979.8	978.9	978.1	977.2
167.5°	985.2	985.3	985.4	985.8	986.7	987.6	988.5	989.4	988.5	987.6	986.7
170°	990.7	990.5	990.3	990.8	991.7	992.7	993.7	994.7	993.7	992.7	991.7
172.5°	994.2	994.1	993.9	994.3	995.3	996.3	997.3	998.4	997.3	996.3	995.3
175°	998.2	997.9	997.8	998.3	999.3	1000.3	1001.2	1002.2	1001.2	1000.3	999.3
177.5°	1000.5	1000.3	1000.0	1000.3	1001.2	1002.2	1003.1	1004.0	1003.1	1002.2	1001.2
180°	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2



TEST NUMBER: P333019-840

CATALOG NUMBER: S124RDIW-S350D770U840-4F0-1E-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°	6.7	6.9	7.1	7.0	7.5	7.7	7.7	7.9	8.3	8.1	8.3
90°	9.6	11.2	12.5	13.8	15.1	16.5	17.5	18.5	19.5	20.5	21.1
92.5°	9.8	10.6	11.9	13.2	14.5	15.9	16.9	17.9	18.9	19.9	20.4
95°	18.6	15.9	16.0	16.2	16.4	16.5	17.5	18.5	19.5	20.5	21.1
97.5°	101.7	94.1	75.5	57.0	38.4	19.8	19.9	20.0	20.1	20.2	20.3
100°	134.9	124.9	102.0	79.0	55.9	33.0	30.2	27.4	24.4	21.6	20.3
102.5°	171.3	170.9	167.9	164.9	161.9	159.0	128.4	97.9	67.3	36.8	21.4
105°	229.6	230.6	231.4	232.2	233.1	233.9	235.4	236.9	238.3	239.8	237.6
107.5°	286.3	287.1	288.2	289.3	290.4	291.5	292.4	293.1	293.8	294.6	295.2
110°	325.8	326.6	327.6	328.6	329.6	330.5	330.9	331.2	331.5	331.9	332.3



TEST NUMBER: P333019-840

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	365.8	366.5	367.0	367.4	367.9	368.4	368.3	368.2	368.2	368.1	368.4
115°	423.2	423.4	423.2	423.1	422.9	422.7	423.1	423.4	423.7	424.1	424.2
117.5°	477.2	477.7	478.1	478.4	478.8	479.2	479.1	479.0	479.0	478.9	478.8
120°	513.1	513.4	513.2	513.1	512.9	512.7	513.1	513.4	513.7	514.0	514.0
122.5°	545.6	545.9	546.2	546.4	546.6	546.9	547.1	547.3	547.5	547.8	547.6
125°	594.8	595.0	594.7	594.4	594.0	593.7	594.2	594.7	595.2	595.7	596.0
127.5°	638.4	638.9	639.6	640.5	641.2	642.0	641.9	641.8	641.7	641.6	641.5
130°	667.8	668.1	668.6	669.1	669.6	670.1	670.3	670.4	670.7	670.9	670.9
132.5°	695.3	695.8	696.4	697.1	697.7	698.3	698.5	698.6	698.8	699.0	699.0
135°	734.0	734.2	734.9	735.5	736.2	736.9	737.2	737.5	737.9	738.2	738.5
137.5°	770.7	771.1	771.8	772.5	773.4	774.1	774.4	774.8	775.2	775.5	775.7
140°	795.2	795.5	795.9	796.2	796.5	796.9	797.3	797.8	798.3	798.8	799.2
142.5°	817.2	817.6	817.8	818.0	818.2	818.4	818.8	819.2	819.5	819.9	820.1
145°	849.1	849.3	849.3	849.3	849.3	849.3	849.5	849.6	849.8	850.0	850.2
147.5°	876.5	876.8	876.7	876.5	876.3	876.2	876.3	876.4	876.6	876.7	876.9
150°	893.9	894.2	894.0	893.8	893.7	893.5	893.5	893.5	893.5	893.5	893.6
152.5°	909.0	909.1	908.8	908.6	908.3	908.0	908.2	908.5	908.7	909.0	909.1
155°	929.5	929.3	928.8	928.3	927.8	927.3	928.0	928.6	929.3	929.9	930.0
157.5°	946.8	946.4	945.9	945.3	944.7	944.2	945.0	945.9	946.8	947.7	947.7
160°	956.0	955.6	955.5	955.3	955.1	955.0	956.0	957.0	958.0	959.0	959.0
162.5°	965.0	964.6	964.5	964.3	964.1	964.0	965.0	966.0	966.9	968.0	968.0
165°	976.4	976.0	976.0	976.0	976.0	976.0	977.3	978.7	980.0	981.3	981.3
167.5°	985.8	985.4	985.3	985.2	985.1	985.0	986.4	988.0	989.4	990.9	990.8
170°	990.8	990.3	990.5	990.7	990.8	991.0	992.3	993.6	995.0	996.3	996.1
172.5°	994.3	993.9	994.1	994.2	994.4	994.6	995.9	997.2	998.6	999.9	999.7
175°	998.3	997.8	997.9	998.2	998.4	998.5	1000.0	1001.5	1003.0	1004.5	1004.2
177.5°	1000.3	1000.0	1000.3	1000.5	1000.8	1001.0	1002.1	1003.2	1004.2	1005.3	1005.0
180°	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2



TEST NUMBER: P333019-840

CATALOG NUMBER: S124RDIW-S350D770U840-4F0-1E-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°	8.7	8.6	8.5	8.7	8.5	8.6	8.7	8.3	8.1	8.3	7.9
90°	21.5	21.8	22.1	22.5	22.1	21.8	21.5	21.1	20.5	19.5	18.5
92.5°	20.5	20.6	20.6	20.7	20.6	20.6	20.5	20.4	19.9	18.9	17.9
95°	21.2	21.4	21.6	21.7	21.6	21.4	21.2	21.1	20.5	19.5	18.5
97.5°	20.5	20.7	20.8	21.0	20.8	20.7	20.5	20.3	20.2	20.1	20.0
100°	20.5	20.7	20.8	21.0	20.8	20.7	20.5	20.3	21.6	24.4	27.4
102.5°	21.5	21.5	21.5	21.6	21.5	21.5	21.5	21.4	36.8	67.3	97.9
105°	231.7	225.6	219.6	213.7	219.6	225.6	231.7	237.6	239.8	238.3	236.9
107.5°	295.9	296.5	297.1	297.7	297.1	296.5	295.9	295.2	294.6	293.8	293.1
110°	332.9	333.4	333.9	334.4	333.9	333.4	332.9	332.3	331.9	331.5	331.2



TEST NUMBER: P333019-840

CATALOG NUMBER: S124RDIW-S350D770U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	369.0	369.6	370.3	370.9	370.3	369.6	369.0	368.4	368.1	368.2	368.2
115°	424.2	424.2	424.2	424.2	424.2	424.2	424.2	424.2	424.1	423.7	423.4
117.5°	478.8	478.7	478.6	478.6	478.6	478.7	478.8	478.8	478.9	479.0	479.0
120°	513.7	513.4	513.1	512.7	513.1	513.4	513.7	514.0	514.0	513.7	513.4
122.5°	547.3	546.9	546.6	546.3	546.6	546.9	547.3	547.6	547.8	547.5	547.3
125°	596.2	596.3	596.5	596.7	596.5	596.3	596.2	596.0	595.7	595.2	594.7
127.5°	641.4	641.2	641.1	641.0	641.1	641.2	641.4	641.5	641.6	641.7	641.8
130°	670.9	670.9	670.9	670.9	670.9	670.9	670.9	670.9	670.9	670.7	670.4
132.5°	698.9	698.7	698.6	698.5	698.6	698.7	698.9	699.0	699.0	698.8	698.6
135°	738.8	739.2	739.5	739.8	739.5	739.2	738.8	738.5	738.2	737.9	737.5
137.5°	775.6	775.5	775.4	775.3	775.4	775.5	775.6	775.7	775.5	775.2	774.8
140°	799.3	799.5	799.7	799.8	799.7	799.5	799.3	799.2	798.8	798.3	797.8
142.5°	820.1	820.1	820.2	820.2	820.2	820.1	820.1	820.1	819.9	819.5	819.2
145°	850.5	850.9	851.2	851.5	851.2	850.9	850.5	850.2	850.0	849.8	849.6
147.5°	877.0	877.2	877.4	877.5	877.4	877.2	877.0	876.9	876.7	876.6	876.4
150°	893.8	893.9	894.1	894.2	894.1	893.9	893.8	893.6	893.5	893.5	893.5
152.5°	909.0	908.9	908.8	908.7	908.8	908.9	909.0	909.1	909.0	908.7	908.5
155°	929.5	929.0	928.5	928.1	928.5	929.0	929.5	930.0	929.9	929.3	928.6
157.5°	946.8	945.9	945.0	944.2	945.0	945.9	946.8	947.7	947.7	946.8	945.9
160°	958.0	957.0	956.0	955.0	956.0	957.0	958.0	959.0	959.0	958.0	957.0
162.5°	966.8	965.6	964.5	963.4	964.5	965.6	966.8	968.0	968.0	966.9	966.0
165°	979.8	978.3	976.7	975.2	976.7	978.3	979.8	981.3	981.3	980.0	978.7
167.5°	989.1	987.4	985.7	984.1	985.7	987.4	989.1	990.8	990.9	989.4	988.0
170°	994.5	992.8	991.2	989.5	991.2	992.8	994.5	996.1	996.3	995.0	993.6
172.5°	997.8	996.1	994.3	992.5	994.3	996.1	997.8	999.7	999.9	998.6	997.2
175°	1002.2	1000.3	998.3	996.2	998.3	1000.3	1002.2	1004.2	1004.5	1003.0	1001.5
177.5°	1003.4	1001.8	1000.3	998.7	1000.3	1001.8	1003.4	1005.0	1005.3	1004.2	1003.2
180°	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2



TEST NUMBER: P333019-840

CATALOG NUMBER: S124RDIW-S350D770U840-4F0-1E-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°	7.7	7.7	7.5	7.0	7.1	6.9	6.7	6.4	6.6	6.8	7.0
90°	17.5	16.5	15.1	13.8	12.5	11.2	9.6	7.8	6.0	4.0	2.2
92.5°	16.9	15.9	14.5	13.2	11.9	10.6	9.8	9.7	9.7	9.6	9.5
95°	17.5	16.5	16.4	16.2	16.0	15.9	18.6	24.2	29.9	35.5	41.2
97.5°	19.9	19.8	38.4	57.0	75.5	94.1	101.7	98.2	94.6	91.1	87.6
100°	30.2	33.0	55.9	79.0	102.0	124.9	134.9	131.9	129.0	125.9	122.9
102.5°	128.4	159.0	161.9	164.9	167.9	170.9	171.3	169.2	166.9	164.7	162.5
105°	235.4	233.9	233.1	232.2	231.4	230.6	229.6	228.6	227.6	226.6	225.6
107.5°	292.4	291.5	290.4	289.3	288.2	287.1	286.3	285.8	285.3	284.8	284.3
110°	330.9	330.5	329.6	328.6	327.6	326.6	325.8	325.4	324.9	324.4	323.9



TEST NUMBER: P333019-840

CATALOG NUMBER: S124RDIW-S350D770U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	368.3	368.4	367.9	367.4	367.0	366.5	365.8	364.9	364.1	363.1	362.2
115°	423.1	422.7	422.9	423.1	423.2	423.4	423.2	422.7	422.3	421.8	421.3
117.5°	479.1	479.2	478.8	478.4	478.1	477.7	477.2	476.5	475.8	475.1	474.5
120°	513.1	512.7	512.9	513.1	513.2	513.4	513.1	512.5	511.8	511.2	510.5
122.5°	547.1	546.9	546.6	546.4	546.2	545.9	545.6	545.2	544.8	544.4	544.1
125°	594.2	593.7	594.0	594.4	594.7	595.0	594.8	594.2	593.5	592.9	592.2
127.5°	641.9	642.0	641.2	640.5	639.6	638.9	638.4	638.2	638.1	637.9	637.7
130°	670.3	670.1	669.6	669.1	668.6	668.1	667.8	667.6	667.5	667.3	667.1
132.5°	698.5	698.3	697.7	697.1	696.4	695.8	695.3	695.0	694.8	694.5	694.2
135°	737.2	736.9	736.2	735.5	734.9	734.2	734.0	734.1	734.3	734.5	734.6
137.5°	774.4	774.1	773.4	772.5	771.8	771.1	770.7	770.6	770.6	770.5	770.4
140°	797.3	796.9	796.5	796.2	795.9	795.5	795.2	794.9	794.5	794.2	793.9
142.5°	818.8	818.4	818.2	818.0	817.8	817.6	817.2	816.6	816.1	815.5	814.9
145°	849.5	849.3	849.3	849.3	849.3	849.3	849.1	848.6	848.1	847.6	847.1
147.5°	876.3	876.2	876.3	876.5	876.7	876.8	876.5	875.5	874.5	873.6	872.7
150°	893.5	893.5	893.7	893.8	894.0	894.2	893.9	893.3	892.6	891.9	891.3
152.5°	908.2	908.0	908.3	908.6	908.8	909.1	909.0	908.5	908.0	907.4	906.9
155°	928.0	927.3	927.8	928.3	928.8	929.3	929.5	929.3	929.1	929.0	928.8
157.5°	945.0	944.2	944.7	945.3	945.9	946.4	946.8	947.0	947.1	947.2	947.3
160°	956.0	955.0	955.1	955.3	955.5	955.6	956.0	956.5	957.0	957.5	958.0
162.5°	965.0	964.0	964.1	964.3	964.5	964.6	965.0	965.7	966.3	966.9	967.6
165°	977.3	976.0	976.0	976.0	976.0	976.0	976.4	977.2	978.1	978.9	979.8
167.5°	986.4	985.0	985.1	985.2	985.3	985.4	985.8	986.7	987.6	988.5	989.4
170°	992.3	991.0	990.8	990.7	990.5	990.3	990.8	991.7	992.7	993.7	994.7
172.5°	995.9	994.6	994.4	994.2	994.1	993.9	994.3	995.3	996.3	997.3	998.4
175°	1000.0	998.5	998.4	998.2	997.9	997.8	998.3	999.3	1000.3	1001.2	1002.2
177.5°	1002.1	1001.0	1000.8	1000.5	1000.3	1000.0	1000.3	1001.2	1002.2	1003.1	1004.0
180°	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2



TEST NUMBER: P333019-840

CATALOG NUMBER: S124RDIW-S350D770U840-4F0-1E-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°	7.2	7.0	6.6	6.7	7.0	6.9	7.4	7.6	7.9	7.9	8.5
90°	4.0	6.0	7.8	9.6	11.2	12.5	13.8	15.1	16.5	17.5	18.5
92.5°	9.6	9.7	9.7	9.8	10.6	11.9	13.2	14.5	15.9	16.9	17.9
95°	35.5	29.9	24.2	18.6	15.9	16.0	16.2	16.4	16.5	17.5	18.5
97.5°	91.1	94.6	98.2	101.7	94.1	75.5	57.0	38.4	19.8	19.9	20.0
100°	125.9	129.0	131.9	134.9	124.9	102.0	79.0	55.9	33.0	30.2	27.4
102.5°	164.7	166.9	169.2	171.3	170.9	167.9	164.9	161.9	159.0	128.4	97.9
105°	226.6	227.6	228.6	229.6	230.6	231.4	232.2	233.1	233.9	235.4	236.9
107.5°	284.8	285.3	285.8	286.3	287.1	288.2	289.3	290.4	291.5	292.4	293.1
110°	324.4	324.9	325.4	325.8	326.6	327.6	328.6	329.6	330.5	330.9	331.2





TEST NUMBER: P333019-840

CATALOG NUMBER: S124RDIW-S350D770U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	363.1	364.1	364.9	365.8	366.5	367.0	367.4	367.9	368.4	368.3	368.2
115°	421.8	422.3	422.7	423.2	423.4	423.2	423.1	422.9	422.7	423.1	423.4
117.5°	475.1	475.8	476.5	477.2	477.7	478.1	478.4	478.8	479.2	479.1	479.0
120°	511.2	511.8	512.5	513.1	513.4	513.2	513.1	512.9	512.7	513.1	513.4
122.5°	544.4	544.8	545.2	545.6	545.9	546.2	546.4	546.6	546.9	547.1	547.3
125°	592.9	593.5	594.2	594.8	595.0	594.7	594.4	594.0	593.7	594.2	594.7
127.5°	637.9	638.1	638.2	638.4	638.9	639.6	640.5	641.2	642.0	641.9	641.8
130°	667.3	667.5	667.6	667.8	668.1	668.6	669.1	669.6	670.1	670.3	670.4
132.5°	694.5	694.8	695.0	695.3	695.8	696.4	697.1	697.7	698.3	698.5	698.6
135°	734.5	734.3	734.1	734.0	734.2	734.9	735.5	736.2	736.9	737.2	737.5
137.5°	770.5	770.6	770.6	770.7	771.1	771.8	772.5	773.4	774.1	774.4	774.8
140°	794.2	794.5	794.9	795.2	795.5	795.9	796.2	796.5	796.9	797.3	797.8
142.5°	815.5	816.1	816.6	817.2	817.6	817.8	818.0	818.2	818.4	818.8	819.2
145°	847.6	848.1	848.6	849.1	849.3	849.3	849.3	849.3	849.3	849.5	849.6
147.5°	873.6	874.5	875.5	876.5	876.8	876.7	876.5	876.3	876.2	876.3	876.4
150°	891.9	892.6	893.3	893.9	894.2	894.0	893.8	893.7	893.5	893.5	893.5
152.5°	907.4	908.0	908.5	909.0	909.1	908.8	908.6	908.3	908.0	908.2	908.5
155°	929.0	929.1	929.3	929.5	929.3	928.8	928.3	927.8	927.3	928.0	928.6
157.5°	947.2	947.1	947.0	946.8	946.4	945.9	945.3	944.7	944.2	945.0	945.9
160°	957.5	957.0	956.5	956.0	955.6	955.5	955.3	955.1	955.0	956.0	957.0
162.5°	966.9	966.3	965.7	965.0	964.6	964.5	964.3	964.1	964.0	965.0	966.0
165°	978.9	978.1	977.2	976.4	976.0	976.0	976.0	976.0	976.0	977.3	978.7
167.5°	988.5	987.6	986.7	985.8	985.4	985.3	985.2	985.1	985.0	986.4	988.0
170°	993.7	992.7	991.7	990.8	990.3	990.5	990.7	990.8	991.0	992.3	993.6
172.5°	997.3	996.3	995.3	994.3	993.9	994.1	994.2	994.4	994.6	995.9	997.2
175°	1001.2	1000.3	999.3	998.3	997.8	997.9	998.2	998.4	998.5	1000.0	1001.5
177.5°	1003.1	1002.2	1001.2	1000.3	1000.0	1000.3	1000.5	1000.8	1001.0	1002.1	1003.2
180°	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2



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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°	8.3	8.3	8.6	8.5	8.6	8.5	8.7
90°	19.5	20.5	21.1	21.5	21.8	22.1	22.5
92.5°	18.9	19.9	20.4	20.5	20.6	20.6	20.7
95°	19.5	20.5	21.1	21.2	21.4	21.6	21.7
97.5°	20.1	20.2	20.3	20.5	20.7	20.8	21.0
100°	24.4	21.6	20.3	20.5	20.7	20.8	21.0
102.5°	67.3	36.8	21.4	21.5	21.5	21.5	21.6
105°	238.3	239.8	237.6	231.7	225.6	219.6	213.7
107.5°	293.8	294.6	295.2	295.9	296.5	297.1	297.7
110°	331.5	331.9	332.3	332.9	333.4	333.9	334.4



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	368.2	368.1	368.4	369.0	369.6	370.3	370.9
115°	423.7	424.1	424.2	424.2	424.2	424.2	424.2
117.5°	479.0	478.9	478.8	478.8	478.7	478.6	478.6
120°	513.7	514.0	514.0	513.7	513.4	513.1	512.7
122.5°	547.5	547.8	547.6	547.3	546.9	546.6	546.3
125°	595.2	595.7	596.0	596.2	596.3	596.5	596.7
127.5°	641.7	641.6	641.5	641.4	641.2	641.1	641.0
130°	670.7	670.9	670.9	670.9	670.9	670.9	670.9
132.5°	698.8	699.0	699.0	698.9	698.7	698.6	698.5
135°	737.9	738.2	738.5	738.8	739.2	739.5	739.8
137.5°	775.2	775.5	775.7	775.6	775.5	775.4	775.3
140°	798.3	798.8	799.2	799.3	799.5	799.7	799.8
142.5°	819.5	819.9	820.1	820.1	820.1	820.2	820.2
145°	849.8	850.0	850.2	850.5	850.9	851.2	851.5
147.5°	876.6	876.7	876.9	877.0	877.2	877.4	877.5
150°	893.5	893.5	893.6	893.8	893.9	894.1	894.2
152.5°	908.7	909.0	909.1	909.0	908.9	908.8	908.7
155°	929.3	929.9	930.0	929.5	929.0	928.5	928.1
157.5°	946.8	947.7	947.7	946.8	945.9	945.0	944.2
160°	958.0	959.0	959.0	958.0	957.0	956.0	955.0
162.5°	966.9	968.0	968.0	966.8	965.6	964.5	963.4
165°	980.0	981.3	981.3	979.8	978.3	976.7	975.2
167.5°	989.4	990.9	990.8	989.1	987.4	985.7	984.1
170°	995.0	996.3	996.1	994.5	992.8	991.2	989.5
172.5°	998.6	999.9	999.7	997.8	996.1	994.3	992.5
175°	1003.0	1004.5	1004.2	1002.2	1000.3	998.3	996.2
177.5°	1004.2	1005.3	1005.0	1003.4	1001.8	1000.3	998.7
180°	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2	1002.2

(END OF REPORT)