

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: PORTFOLIO

Report Number: P248939

Luminaire Tested: **LD8B70D010 ER8B70940 8LBSW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248939  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13958)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B70D010 ER8B70940 8LBSW0B  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
90 CRI 4000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5124.0 lumens  
Efficiency: N/A  
Efficacy: 67.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

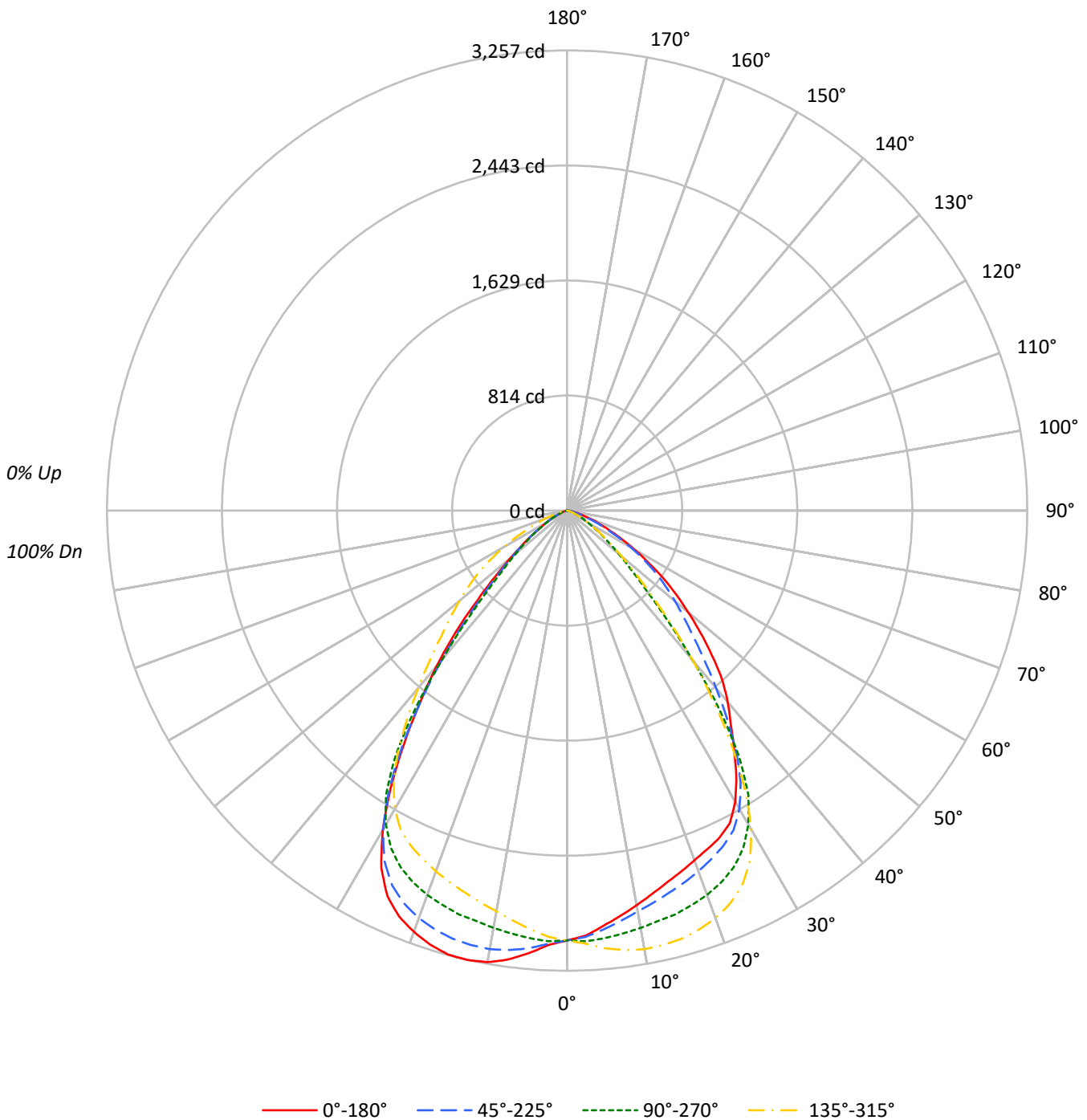
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P248939

CATALOG NUMBER: LD8B70D010 ER8B70940 8LBSW0B

### Luminous Intensity Polar Plot





TEST NUMBER: P248939

CATALOG NUMBER: LD8B70D010 ER8B70940 8LBSW0B

**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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37

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

	0°	90°	180°	270°
0°	93804	93804	93804	93804
5°	91312	94023	97382	94023
10°	88785	93902	101620	93902
15°	87012	94457	103846	94457
20°	86419	94997	104113	94997
25°	86874	94808	102440	94808
30°	84726	91335	92976	91335
35°	77498	79678	75597	79678
40°	71149	55426	57877	55426
45°	63220	33810	39122	33810
50°	53514	22586	25080	22586
55°	44321	15413	16290	15413
60°	33803	10262	10349	10262
65°	23947	6392	5852	6392
70°	17275	4283	3886	4283
75°	10973	2133	1775	2133
80°	7654	1580	1314	1580
85°	6828	0	531	0



TEST NUMBER: P248939

CATALOG NUMBER: LD8B70D010 ER8B70940 8LBSW0B

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	289.5	5.7
10°-20°	838.4	16.4
20°-30°	1269.6	24.8
30°-40°	1272.4	24.8
40°-50°	799.0	15.6
50°-60°	425.8	8.3
60°-70°	175.1	3.4
70°-80°	46.3	0.9
80°-90°	7.8	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2397.6	46.8
0°-40°	3670.0	71.6
0°-60°	4894.8	95.5
0°-90°	5124.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5124.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	3042	3042	3042	3042	3042	
5°	2950	3038	3146	3038	2950	278
15°	2726	2959	3253	2959	2726	771
25°	2553	2786	3011	2786	2553	1171
35°	2059	2117	2008	2117	2059	1290
45°	1450	775	897	775	1450	1115
55°	824	287	303	287	824	735
65°	328	88	80	88	328	340
75°	92	18	15	18	92	104
85°	19	0	2	0	19	21
90°	0	0	0	0	0	



TEST NUMBER: P248939

CATALOG NUMBER: LD8B70D010 ER8B70940 8LBSW0B

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3042.0	3042.0	3042.0	3042.0	3042.0	3042.0	3042.0	3042.0	3042.0	3042.0	3042.0
2.5°	3010.8	3007.8	3006.3	3009.3	3010.8	3016.7	3015.2	3018.2	3018.2	3019.7	3022.6
5°	2949.9	2948.4	2949.9	2949.9	2955.8	2961.7	2960.3	2964.7	2967.7	2975.1	2978.1
7.5°	2893.5	2893.5	2891.9	2897.9	2900.9	2909.8	2908.2	2915.7	2920.2	2927.6	2938.0
10°	2835.5	2835.5	2837.0	2841.4	2843.0	2856.3	2856.3	2866.7	2872.6	2880.1	2893.5
12.5°	2779.1	2779.1	2788.0	2785.0	2790.9	2801.3	2805.8	2816.2	2825.1	2840.0	2853.3
15°	2725.6	2725.6	2728.6	2736.0	2740.4	2753.8	2761.2	2773.1	2783.5	2798.4	2817.7
17.5°	2679.5	2678.1	2679.5	2688.5	2697.4	2709.2	2715.2	2730.0	2740.4	2759.7	2777.6
20°	2633.5	2636.5	2636.5	2643.9	2649.8	2664.7	2670.6	2687.0	2698.9	2716.6	2737.5
22.5°	2593.4	2591.9	2591.9	2602.3	2606.8	2620.1	2626.0	2640.9	2654.3	2669.1	2688.5
25°	2553.3	2550.3	2556.3	2557.7	2560.7	2575.5	2580.0	2590.4	2603.8	2617.2	2636.5
27.5°	2493.9	2490.9	2492.4	2498.3	2502.8	2514.6	2517.6	2528.0	2538.4	2550.3	2566.7
30°	2379.5	2376.5	2375.1	2385.5	2389.9	2398.8	2403.3	2421.1	2424.0	2437.4	2449.3
32.5°	2228.0	2226.5	2229.5	2238.4	2242.8	2254.8	2260.7	2271.1	2278.5	2285.9	2297.8
35°	2058.7	2055.7	2058.7	2067.6	2067.6	2078.0	2082.5	2086.9	2085.4	2086.9	2083.9
37.5°	1901.3	1899.7	1901.3	1905.7	1901.3	1905.7	1901.3	1892.3	1876.0	1858.2	1840.3
40°	1767.5	1769.0	1760.1	1766.1	1749.7	1746.8	1730.4	1708.1	1675.5	1639.8	1589.3
42.5°	1625.0	1620.5	1614.6	1617.5	1604.2	1593.7	1567.0	1538.8	1497.2	1437.8	1376.9
45°	1449.7	1448.2	1445.2	1443.8	1434.8	1424.4	1402.1	1369.5	1323.4	1262.6	1189.7
47.5°	1278.9	1274.4	1274.4	1275.9	1265.5	1264.0	1246.2	1218.0	1177.9	1118.4	1042.7
50°	1115.5	1114.0	1117.0	1122.9	1115.5	1112.5	1100.7	1081.3	1045.7	995.2	923.8
52.5°	968.4	967.0	969.9	977.3	974.3	977.3	965.5	950.6	926.8	877.8	815.5
55°	824.4	824.4	824.4	833.2	833.2	833.2	827.3	818.4	796.1	760.5	702.6
57.5°	674.3	675.8	684.7	686.2	684.7	687.7	686.2	677.3	662.5	637.2	592.7
60°	548.1	548.1	552.6	557.0	555.5	557.0	557.0	552.6	537.7	516.9	481.3
62.5°	433.7	438.2	435.2	438.2	444.1	438.2	435.2	432.2	421.8	408.5	378.7
65°	328.2	331.2	331.2	332.7	329.7	331.2	325.3	320.8	314.9	300.1	280.7
67.5°	249.6	249.6	249.6	249.6	248.0	246.6	245.1	240.6	230.2	224.3	203.5
70°	191.6	182.7	182.7	182.7	182.7	184.2	179.7	173.8	170.8	160.4	145.6
72.5°	127.7	130.7	127.7	127.7	124.8	126.2	120.3	117.3	114.4	108.5	99.5
75°	92.1	84.7	87.6	89.1	84.7	87.6	81.7	75.7	75.7	71.3	66.8
77.5°	59.4	58.0	59.4	60.9	59.4	58.0	55.0	52.0	52.0	50.5	46.0
80°	43.1	41.6	41.6	41.6	40.1	41.6	38.6	38.6	35.6	34.2	31.2
82.5°	28.2	28.2	26.7	28.2	26.7	28.2	23.8	23.8	23.8	22.3	19.3
85°	19.3	16.3	16.3	17.9	14.9	17.9	16.3	14.9	13.4	13.4	11.9
87.5°	8.9	10.4	8.9	10.4	8.9	8.9	10.4	8.9	8.9	5.9	5.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P248939

CATALOG NUMBER: LD8B70D010 ER8B70940 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3042.0	3042.0	3042.0	3042.0	3042.0	3042.0	3042.0	3042.0	3042.0	3042.0	3042.0
2.5°	3027.1	3028.6	3028.6	3034.6	3037.5	3039.0	3039.0	3050.9	3046.4	3049.4	3052.3
5°	2984.1	2992.9	2995.9	2995.9	3012.2	3018.2	3024.1	3037.5	3039.0	3047.9	3058.3
7.5°	2942.4	2952.8	2958.8	2972.1	2982.5	2992.9	3010.8	3019.7	3028.6	3040.5	3053.8
10°	2902.3	2914.2	2926.1	2936.5	2952.8	2966.2	2978.1	2998.9	3009.3	3025.6	3043.4
12.5°	2863.7	2880.1	2890.5	2908.2	2926.1	2938.0	2955.8	2975.1	2991.5	3007.8	3028.6
15°	2829.6	2848.9	2860.7	2880.1	2899.4	2915.7	2935.0	2958.8	2970.7	2990.0	3009.3
17.5°	2792.4	2813.2	2828.1	2845.9	2869.7	2887.5	2903.8	2927.6	2942.4	2963.2	2985.5
20°	2753.8	2774.6	2792.4	2810.2	2834.0	2851.8	2871.1	2894.9	2911.2	2932.0	2949.9
22.5°	2707.8	2727.1	2746.4	2767.1	2790.9	2805.8	2828.1	2848.9	2866.7	2886.0	2903.8
25°	2648.4	2672.1	2687.0	2706.3	2725.6	2741.9	2765.7	2786.5	2801.3	2819.2	2835.5
27.5°	2578.5	2596.4	2608.2	2624.6	2643.9	2658.7	2676.5	2697.4	2712.2	2728.6	2740.4
30°	2459.7	2476.1	2486.5	2498.3	2517.6	2531.0	2545.9	2565.1	2575.5	2587.5	2597.9
32.5°	2303.7	2317.1	2323.0	2332.0	2345.4	2358.7	2370.6	2386.9	2391.4	2398.8	2398.8
35°	2078.0	2080.9	2079.5	2082.5	2088.4	2095.8	2106.2	2116.6	2122.5	2122.5	2118.1
37.5°	1813.6	1795.8	1776.5	1761.6	1757.2	1754.2	1760.1	1764.5	1770.5	1773.5	1766.1
40°	1538.8	1498.7	1455.6	1417.0	1390.3	1378.4	1373.9	1376.9	1376.9	1387.3	1387.3
42.5°	1302.7	1240.2	1176.4	1118.4	1079.8	1050.2	1036.8	1036.8	1038.2	1045.7	1050.2
45°	1106.6	1027.8	953.6	889.7	836.2	797.6	779.8	775.3	773.9	776.8	787.2
47.5°	956.6	874.9	797.6	718.9	662.5	623.8	607.5	601.5	595.6	601.5	603.1
50°	839.2	754.6	672.9	594.1	534.7	500.5	479.7	470.8	469.4	469.4	472.3
52.5°	732.2	653.6	571.9	491.7	429.2	396.6	377.3	372.8	366.9	372.8	372.8
55°	631.2	552.6	472.3	396.6	344.6	310.5	292.6	286.7	283.7	288.1	288.1
57.5°	521.4	454.5	380.3	311.9	260.0	236.2	222.8	215.4	213.9	216.9	213.9
60°	427.8	371.3	307.5	245.1	205.0	179.7	169.4	166.4	163.4	166.4	166.4
62.5°	338.6	291.1	239.1	191.6	157.4	139.6	127.7	127.7	126.2	126.2	127.7
65°	251.0	213.9	176.7	136.6	109.9	96.5	87.6	87.6	86.1	87.6	86.1
67.5°	182.7	157.4	127.7	99.5	78.7	71.3	65.4	60.9	63.9	60.9	59.4
70°	133.7	112.9	92.1	75.7	60.9	53.5	49.0	47.5	44.6	44.6	44.6
72.5°	89.1	75.7	62.4	49.0	40.1	32.6	31.2	28.2	25.2	26.7	29.7
75°	59.4	50.5	44.6	35.6	26.7	26.7	17.9	17.9	14.9	17.9	13.4
77.5°	41.6	34.2	26.7	22.3	17.9	16.3	11.9	11.9	10.4	10.4	10.4
80°	29.7	25.2	19.3	16.3	11.9	11.9	10.4	8.9	7.4	7.4	8.9
82.5°	17.9	13.4	13.4	11.9	7.4	5.9	4.5	5.9	3.0	3.0	3.0
85°	10.4	8.9	7.4	4.5	3.0	3.0	1.5	0.0	1.5	1.5	0.0
87.5°	5.9	3.0	3.0	1.5	0.0	1.5	1.5	0.0	0.0	0.0	3.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P248939

CATALOG NUMBER: LD8B70D010 ER8B70940 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3042.0	3042.0	3042.0	3042.0	3042.0	3042.0	3042.0	3042.0	3042.0	3042.0	3042.0
2.5°	3059.8	3058.3	3061.3	3061.3	3070.2	3068.7	3073.1	3073.1	3070.2	3071.7	3077.6
5°	3070.2	3074.7	3083.5	3091.0	3104.3	3110.3	3117.7	3125.2	3126.6	3131.1	3135.6
7.5°	3070.2	3085.1	3095.5	3108.8	3126.6	3137.0	3153.3	3166.7	3172.7	3180.1	3189.0
10°	3064.2	3079.1	3098.4	3113.2	3135.6	3151.9	3168.2	3189.0	3197.9	3209.8	3221.7
12.5°	3052.3	3068.7	3089.5	3108.8	3134.0	3148.9	3169.7	3189.0	3202.4	3218.7	3232.1
15°	3034.6	3053.8	3073.1	3092.5	3119.2	3137.0	3156.3	3178.6	3192.0	3209.8	3221.7
17.5°	3006.3	3027.1	3045.0	3062.7	3088.0	3108.8	3126.6	3147.4	3160.8	3175.7	3192.0
20°	2972.1	2991.5	3010.8	3025.6	3050.9	3068.7	3088.0	3107.3	3117.7	3120.7	3146.0
22.5°	2929.1	2942.4	2957.3	2981.1	2995.9	3012.2	3030.1	3047.9	3058.3	3074.7	3083.5
25°	2857.7	2871.1	2887.5	2897.9	2915.7	2929.1	2946.9	2966.2	2972.1	2984.1	2992.9
27.5°	2758.3	2765.7	2773.1	2782.0	2792.4	2799.9	2810.2	2819.2	2825.1	2831.0	2837.0
30°	2600.8	2600.8	2600.8	2594.9	2599.3	2603.8	2605.3	2603.8	2603.8	2602.3	2602.3
32.5°	2392.9	2381.0	2367.6	2355.7	2351.3	2345.4	2342.4	2337.9	2330.5	2326.0	2327.5
35°	2112.1	2085.4	2069.1	2054.2	2042.4	2033.4	2029.0	2024.5	2023.0	2017.1	2011.1
37.5°	1761.6	1742.3	1730.4	1721.5	1711.1	1702.2	1703.7	1705.2	1709.6	1706.7	1708.1
40°	1390.3	1385.8	1390.3	1379.9	1376.9	1379.9	1387.3	1397.7	1403.7	1409.6	1420.0
42.5°	1057.6	1065.0	1075.4	1075.4	1079.8	1085.8	1094.7	1111.1	1119.9	1130.3	1142.2
45°	796.1	805.1	818.4	822.8	825.8	833.2	843.7	857.0	863.0	871.9	882.3
47.5°	613.5	619.4	626.8	634.2	641.6	644.6	655.0	655.0	662.5	668.4	671.4
50°	478.3	484.2	490.1	494.6	497.6	502.1	505.0	509.5	510.9	513.9	515.4
52.5°	374.3	381.7	381.7	384.7	389.1	393.6	392.1	393.6	395.1	395.1	399.5
55°	292.6	292.6	297.1	297.1	300.1	298.5	300.1	300.1	300.1	300.1	301.5
57.5°	218.3	219.9	224.3	221.3	219.9	222.8	219.9	222.8	221.3	224.3	219.9
60°	167.8	167.8	169.4	169.4	170.8	170.8	170.8	169.4	169.4	167.8	167.8
62.5°	126.2	127.7	129.2	127.7	127.7	127.7	126.2	126.2	124.8	123.3	123.3
65°	84.7	83.2	86.1	83.2	84.7	84.7	83.2	84.7	80.2	81.7	80.2
67.5°	60.9	59.4	58.0	59.4	58.0	56.4	56.4	58.0	59.4	55.0	55.0
70°	40.1	41.6	40.1	41.6	43.1	43.1	41.6	40.1	41.6	38.6	40.1
72.5°	25.2	25.2	25.2	25.2	25.2	26.7	26.7	26.7	23.8	23.8	22.3
75°	11.9	16.3	13.4	11.9	16.3	16.3	14.9	14.9	13.4	13.4	13.4
77.5°	11.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	7.4	8.9	7.4
80°	5.9	5.9	5.9	4.5	5.9	5.9	7.4	5.9	5.9	4.5	7.4
82.5°	3.0	3.0	3.0	0.0	1.5	3.0	3.0	1.5	3.0	3.0	1.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





TEST NUMBER: P248939

CATALOG NUMBER: LD8B70D010 ER8B70940 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3042.0	3042.0	3042.0	3042.0	3042.0	3042.0	3042.0	3042.0	3042.0	3042.0	3042.0
2.5°	3076.1	3074.7	3076.1	3077.6	3076.1	3074.7	3076.1	3077.6	3071.7	3070.2	3073.1
5°	3141.5	3141.5	3144.4	3146.0	3144.4	3141.5	3141.5	3135.6	3131.1	3126.6	3125.2
7.5°	3197.9	3200.9	3203.8	3205.3	3203.8	3200.9	3197.9	3189.0	3180.1	3172.7	3166.7
10°	3232.1	3236.6	3242.5	3245.4	3242.5	3236.6	3232.1	3221.7	3209.8	3197.9	3189.0
12.5°	3247.0	3251.4	3258.8	3257.3	3258.8	3251.4	3247.0	3232.1	3218.7	3202.4	3189.0
15°	3236.6	3242.5	3249.9	3252.9	3249.9	3242.5	3236.6	3221.7	3209.8	3192.0	3178.6
17.5°	3203.8	3212.8	3217.2	3221.7	3217.2	3212.8	3203.8	3192.0	3175.7	3160.8	3147.4
20°	3159.3	3165.3	3171.2	3172.7	3171.2	3165.3	3159.3	3146.0	3120.7	3117.7	3107.3
22.5°	3095.5	3099.9	3113.2	3108.8	3113.2	3099.9	3095.5	3083.5	3074.7	3058.3	3047.9
25°	3003.3	3007.8	3009.3	3010.8	3009.3	3007.8	3003.3	2992.9	2984.1	2972.1	2966.2
27.5°	2844.4	2844.4	2847.4	2848.9	2847.4	2844.4	2844.4	2837.0	2831.0	2825.1	2819.2
30°	2603.8	2603.8	2603.8	2611.2	2603.8	2603.8	2603.8	2602.3	2602.3	2603.8	2603.8
32.5°	2326.0	2323.0	2320.1	2323.0	2320.1	2323.0	2326.0	2327.5	2326.0	2330.5	2337.9
35°	2011.1	2009.7	2014.1	2008.2	2014.1	2009.7	2011.1	2011.1	2017.1	2023.0	2024.5
37.5°	1709.6	1706.7	1712.6	1706.7	1712.6	1706.7	1709.6	1708.1	1706.7	1709.6	1705.2
40°	1423.0	1425.9	1425.9	1437.8	1425.9	1425.9	1423.0	1420.0	1409.6	1403.7	1397.7
42.5°	1148.2	1157.1	1154.1	1163.0	1154.1	1157.1	1148.2	1142.2	1130.3	1119.9	1111.1
45°	888.2	894.2	894.2	897.1	894.2	894.2	888.2	882.3	871.9	863.0	857.0
47.5°	681.7	681.7	681.7	683.3	681.7	681.7	681.7	671.4	668.4	662.5	655.0
50°	518.4	519.9	521.4	522.8	521.4	519.9	518.4	515.4	513.9	510.9	509.5
52.5°	398.1	399.5	396.6	399.5	396.6	399.5	398.1	399.5	395.1	395.1	393.6
55°	301.5	300.1	301.5	303.0	301.5	300.1	301.5	301.5	300.1	300.1	300.1
57.5°	221.3	218.3	218.3	218.3	218.3	218.3	221.3	219.9	224.3	221.3	222.8
60°	164.9	166.4	166.4	167.8	166.4	166.4	164.9	167.8	167.8	169.4	169.4
62.5°	121.8	126.2	123.3	126.2	123.3	126.2	121.8	123.3	123.3	124.8	126.2
65°	78.7	78.7	78.7	80.2	78.7	78.7	78.7	80.2	81.7	80.2	84.7
67.5°	53.5	55.0	58.0	56.4	58.0	55.0	53.5	55.0	55.0	59.4	58.0
70°	43.1	38.6	38.6	43.1	38.6	38.6	43.1	40.1	38.6	41.6	40.1
72.5°	25.2	22.3	25.2	25.2	25.2	22.3	25.2	22.3	23.8	23.8	26.7
75°	13.4	11.9	10.4	14.9	10.4	11.9	13.4	13.4	13.4	13.4	14.9
77.5°	8.9	7.4	10.4	10.4	10.4	7.4	8.9	7.4	8.9	7.4	8.9
80°	4.5	5.9	4.5	7.4	4.5	5.9	4.5	7.4	4.5	5.9	5.9
82.5°	1.5	3.0	3.0	3.0	3.0	3.0	1.5	1.5	3.0	3.0	1.5
85°	0.0	3.0	1.5	1.5	1.5	3.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.5	0.0	0.0	1.5	0.0	0.0	1.5	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P248939

CATALOG NUMBER: LD8B70D010 ER8B70940 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3042.0	3042.0	3042.0	3042.0	3042.0	3042.0	3042.0	3042.0	3042.0	3042.0	3042.0
2.5°	3073.1	3068.7	3070.2	3061.3	3061.3	3058.3	3059.8	3052.3	3049.4	3046.4	3050.9
5°	3117.7	3110.3	3104.3	3091.0	3083.5	3074.7	3070.2	3058.3	3047.9	3039.0	3037.5
7.5°	3153.3	3137.0	3126.6	3108.8	3095.5	3085.1	3070.2	3053.8	3040.5	3028.6	3019.7
10°	3168.2	3151.9	3135.6	3113.2	3098.4	3079.1	3064.2	3043.4	3025.6	3009.3	2998.9
12.5°	3169.7	3148.9	3134.0	3108.8	3089.5	3068.7	3052.3	3028.6	3007.8	2991.5	2975.1
15°	3156.3	3137.0	3119.2	3092.5	3073.1	3053.8	3034.6	3009.3	2990.0	2970.7	2958.8
17.5°	3126.6	3108.8	3088.0	3062.7	3045.0	3027.1	3006.3	2985.5	2963.2	2942.4	2927.6
20°	3088.0	3068.7	3050.9	3025.6	3010.8	2991.5	2972.1	2949.9	2932.0	2911.2	2894.9
22.5°	3030.1	3012.2	2995.9	2981.1	2957.3	2942.4	2929.1	2903.8	2886.0	2866.7	2848.9
25°	2946.9	2929.1	2915.7	2897.9	2887.5	2871.1	2857.7	2835.5	2819.2	2801.3	2786.5
27.5°	2810.2	2799.9	2792.4	2782.0	2773.1	2765.7	2758.3	2740.4	2728.6	2712.2	2697.4
30°	2605.3	2603.8	2599.3	2594.9	2600.8	2600.8	2600.8	2597.9	2587.5	2575.5	2565.1
32.5°	2342.4	2345.4	2351.3	2355.7	2367.6	2381.0	2392.9	2398.8	2398.8	2391.4	2386.9
35°	2029.0	2033.4	2042.4	2054.2	2069.1	2085.4	2112.1	2118.1	2122.5	2122.5	2116.6
37.5°	1703.7	1702.2	1711.1	1721.5	1730.4	1742.3	1761.6	1766.1	1773.5	1770.5	1764.5
40°	1387.3	1379.9	1376.9	1379.9	1390.3	1385.8	1390.3	1387.3	1387.3	1376.9	1376.9
42.5°	1094.7	1085.8	1079.8	1075.4	1075.4	1065.0	1057.6	1050.2	1045.7	1038.2	1036.8
45°	843.7	833.2	825.8	822.8	818.4	805.1	796.1	787.2	776.8	773.9	775.3
47.5°	655.0	644.6	641.6	634.2	626.8	619.4	613.5	603.1	601.5	595.6	601.5
50°	505.0	502.1	497.6	494.6	490.1	484.2	478.3	472.3	469.4	469.4	470.8
52.5°	392.1	393.6	389.1	384.7	381.7	381.7	374.3	372.8	372.8	366.9	372.8
55°	300.1	298.5	300.1	297.1	297.1	292.6	292.6	288.1	288.1	283.7	286.7
57.5°	219.9	222.8	219.9	221.3	224.3	219.9	218.3	213.9	216.9	213.9	215.4
60°	170.8	170.8	170.8	169.4	169.4	167.8	167.8	166.4	166.4	163.4	166.4
62.5°	126.2	127.7	127.7	127.7	129.2	127.7	126.2	127.7	126.2	126.2	127.7
65°	83.2	84.7	84.7	83.2	86.1	83.2	84.7	86.1	87.6	86.1	87.6
67.5°	56.4	56.4	58.0	59.4	58.0	59.4	60.9	59.4	60.9	63.9	60.9
70°	41.6	43.1	43.1	41.6	40.1	41.6	40.1	44.6	44.6	44.6	47.5
72.5°	26.7	26.7	25.2	25.2	25.2	25.2	25.2	29.7	26.7	25.2	28.2
75°	14.9	16.3	16.3	11.9	13.4	16.3	11.9	13.4	17.9	14.9	17.9
77.5°	8.9	8.9	8.9	8.9	8.9	8.9	11.9	10.4	10.4	10.4	11.9
80°	7.4	5.9	5.9	4.5	5.9	5.9	5.9	8.9	7.4	7.4	8.9
82.5°	3.0	3.0	1.5	0.0	3.0	3.0	3.0	3.0	3.0	3.0	5.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P248939

CATALOG NUMBER: LD8B70D010 ER8B70940 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3042.0	3042.0	3042.0	3042.0	3042.0	3042.0	3042.0	3042.0	3042.0	3042.0	3042.0
2.5°	3039.0	3039.0	3037.5	3034.6	3028.6	3028.6	3027.1	3022.6	3019.7	3018.2	3018.2
5°	3024.1	3018.2	3012.2	2995.9	2995.9	2992.9	2984.1	2978.1	2975.1	2967.7	2964.7
7.5°	3010.8	2992.9	2982.5	2972.1	2958.8	2952.8	2942.4	2938.0	2927.6	2920.2	2915.7
10°	2978.1	2966.2	2952.8	2936.5	2926.1	2914.2	2902.3	2893.5	2880.1	2872.6	2866.7
12.5°	2955.8	2938.0	2926.1	2908.2	2890.5	2880.1	2863.7	2853.3	2840.0	2825.1	2816.2
15°	2935.0	2915.7	2899.4	2880.1	2860.7	2848.9	2829.6	2817.7	2798.4	2783.5	2773.1
17.5°	2903.8	2887.5	2869.7	2845.9	2828.1	2813.2	2792.4	2777.6	2759.7	2740.4	2730.0
20°	2871.1	2851.8	2834.0	2810.2	2792.4	2774.6	2753.8	2737.5	2716.6	2698.9	2687.0
22.5°	2828.1	2805.8	2790.9	2767.1	2746.4	2727.1	2707.8	2688.5	2669.1	2654.3	2640.9
25°	2765.7	2741.9	2725.6	2706.3	2687.0	2672.1	2648.4	2636.5	2617.2	2603.8	2590.4
27.5°	2676.5	2658.7	2643.9	2624.6	2608.2	2596.4	2578.5	2566.7	2550.3	2538.4	2528.0
30°	2545.9	2531.0	2517.6	2498.3	2486.5	2476.1	2459.7	2449.3	2437.4	2424.0	2421.1
32.5°	2370.6	2358.7	2345.4	2332.0	2323.0	2317.1	2303.7	2297.8	2285.9	2278.5	2271.1
35°	2106.2	2095.8	2088.4	2082.5	2079.5	2080.9	2078.0	2083.9	2086.9	2085.4	2086.9
37.5°	1760.1	1754.2	1757.2	1761.6	1776.5	1795.8	1813.6	1840.3	1858.2	1876.0	1892.3
40°	1373.9	1378.4	1390.3	1417.0	1455.6	1498.7	1538.8	1589.3	1639.8	1675.5	1708.1
42.5°	1036.8	1050.2	1079.8	1118.4	1176.4	1240.2	1302.7	1376.9	1437.8	1497.2	1538.8
45°	779.8	797.6	836.2	889.7	953.6	1027.8	1106.6	1189.7	1262.6	1323.4	1369.5
47.5°	607.5	623.8	662.5	718.9	797.6	874.9	956.6	1042.7	1118.4	1177.9	1218.0
50°	479.7	500.5	534.7	594.1	672.9	754.6	839.2	923.8	995.2	1045.7	1081.3
52.5°	377.3	396.6	429.2	491.7	571.9	653.6	732.2	815.5	877.8	926.8	950.6
55°	292.6	310.5	344.6	396.6	472.3	552.6	631.2	702.6	760.5	796.1	818.4
57.5°	222.8	236.2	260.0	311.9	380.3	454.5	521.4	592.7	637.2	662.5	677.3
60°	169.4	179.7	205.0	245.1	307.5	371.3	427.8	481.3	516.9	537.7	552.6
62.5°	127.7	139.6	157.4	191.6	239.1	291.1	338.6	378.7	408.5	421.8	432.2
65°	87.6	96.5	109.9	136.6	176.7	213.9	251.0	280.7	300.1	314.9	320.8
67.5°	65.4	71.3	78.7	99.5	127.7	157.4	182.7	203.5	224.3	230.2	240.6
70°	49.0	53.5	60.9	75.7	92.1	112.9	133.7	145.6	160.4	170.8	173.8
72.5°	31.2	32.6	40.1	49.0	62.4	75.7	89.1	99.5	108.5	114.4	117.3
75°	17.9	26.7	26.7	35.6	44.6	50.5	59.4	66.8	71.3	75.7	75.7
77.5°	11.9	16.3	17.9	22.3	26.7	34.2	41.6	46.0	50.5	52.0	52.0
80°	10.4	11.9	11.9	16.3	19.3	25.2	29.7	31.2	34.2	35.6	38.6
82.5°	4.5	5.9	7.4	11.9	13.4	13.4	17.9	19.3	22.3	23.8	23.8
85°	1.5	3.0	3.0	4.5	7.4	8.9	10.4	11.9	13.4	13.4	14.9
87.5°	1.5	1.5	0.0	1.5	3.0	3.0	5.9	5.9	5.9	8.9	8.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P248939

CATALOG NUMBER: LD8B70D010 ER8B70940 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	3042.0	3042.0	3042.0	3042.0	3042.0	3042.0	3042.0
2.5°	3015.2	3016.7	3010.8	3009.3	3006.3	3007.8	3010.8
5°	2960.3	2961.7	2955.8	2949.9	2949.9	2948.4	2949.9
7.5°	2908.2	2909.8	2900.9	2897.9	2891.9	2893.5	2893.5
10°	2856.3	2856.3	2843.0	2841.4	2837.0	2835.5	2835.5
12.5°	2805.8	2801.3	2790.9	2785.0	2788.0	2779.1	2779.1
15°	2761.2	2753.8	2740.4	2736.0	2728.6	2725.6	2725.6
17.5°	2715.2	2709.2	2697.4	2688.5	2679.5	2678.1	2679.5
20°	2670.6	2664.7	2649.8	2643.9	2636.5	2636.5	2633.5
22.5°	2626.0	2620.1	2606.8	2602.3	2591.9	2591.9	2593.4
25°	2580.0	2575.5	2560.7	2557.7	2556.3	2550.3	2553.3
27.5°	2517.6	2514.6	2502.8	2498.3	2492.4	2490.9	2493.9
30°	2403.3	2398.8	2389.9	2385.5	2375.1	2376.5	2379.5
32.5°	2260.7	2254.8	2242.8	2238.4	2229.5	2226.5	2228.0
35°	2082.5	2078.0	2067.6	2067.6	2058.7	2055.7	2058.7
37.5°	1901.3	1905.7	1901.3	1905.7	1901.3	1899.7	1901.3
40°	1730.4	1746.8	1749.7	1766.1	1760.1	1769.0	1767.5
42.5°	1567.0	1593.7	1604.2	1617.5	1614.6	1620.5	1625.0
45°	1402.1	1424.4	1434.8	1443.8	1445.2	1448.2	1449.7
47.5°	1246.2	1264.0	1265.5	1275.9	1274.4	1274.4	1278.9
50°	1100.7	1112.5	1115.5	1122.9	1117.0	1114.0	1115.5
52.5°	965.5	977.3	974.3	977.3	969.9	967.0	968.4
55°	827.3	833.2	833.2	833.2	824.4	824.4	824.4
57.5°	686.2	687.7	684.7	686.2	684.7	675.8	674.3
60°	557.0	557.0	555.5	557.0	552.6	548.1	548.1
62.5°	435.2	438.2	444.1	438.2	435.2	438.2	433.7
65°	325.3	331.2	329.7	332.7	331.2	331.2	328.2
67.5°	245.1	246.6	248.0	249.6	249.6	249.6	249.6
70°	179.7	184.2	182.7	182.7	182.7	182.7	191.6
72.5°	120.3	126.2	124.8	127.7	127.7	130.7	127.7
75°	81.7	87.6	84.7	89.1	87.6	84.7	92.1
77.5°	55.0	58.0	59.4	60.9	59.4	58.0	59.4
80°	38.6	41.6	40.1	41.6	41.6	41.6	43.1
82.5°	23.8	28.2	26.7	28.2	26.7	28.2	28.2
85°	16.3	17.9	14.9	17.9	16.3	16.3	19.3
87.5°	10.4	8.9	8.9	10.4	8.9	10.4	8.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)