

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: P248966

Luminaire Tested: **LD8B70D010 ER8B70930 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248966
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 ER8B70930 8LBSW0B
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4750.8 lumens
Efficiency: N/A
Efficacy: 62.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

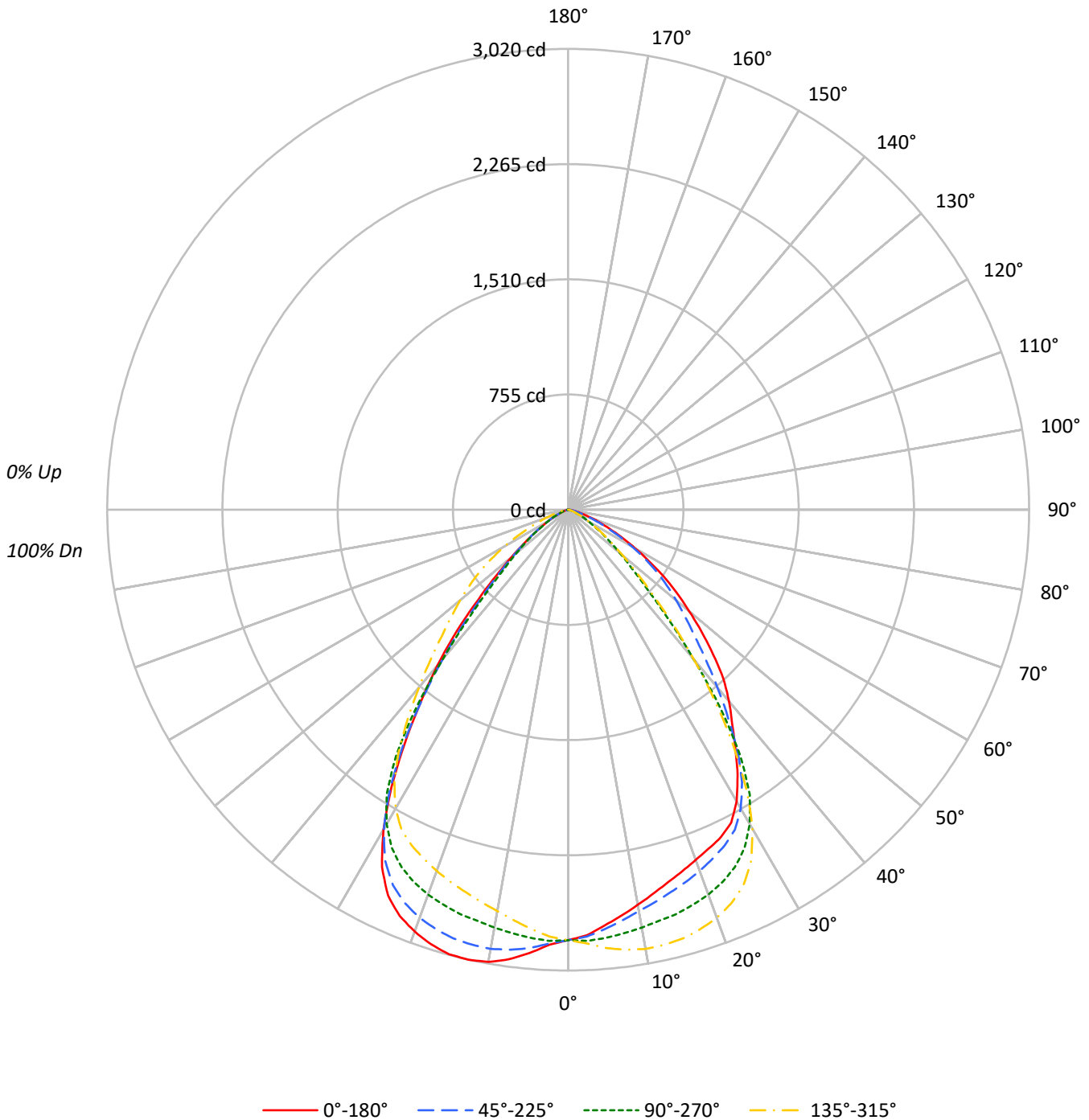
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P248966

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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	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°	Luminaire represents a point source (luminous area is zero).			
5°	No luminance values can be calculated.			
10°				
15°				
20°				
25°				
30°				
35°				
40°				
45°				
50°				
55°				
60°				
65°				
70°				
75°				
80°				
85°				



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.4	5.7
10°-20°	777.4	16.4
20°-30°	1177.1	24.8
30°-40°	1179.8	24.8
40°-50°	740.8	15.6
50°-60°	394.8	8.3
60°-70°	162.3	3.4
70°-80°	42.9	0.9
80°-90°	7.3	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°	2222.9	46.8
0°-40°	3402.7	71.6
0°-60°	4538.3	95.5
0°-90°	4750.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4750.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2820	2820	2820	2820	2820	
5°	2735	2816	2917	2816	2735	258
15°	2527	2743	3016	2743	2527	715
25°	2367	2584	2792	2584	2367	1086
35°	1909	1962	1862	1962	1909	1196
45°	1344	719	832	719	1344	1034
55°	764	266	281	266	764	681
65°	304	81	74	81	304	316
75°	85	17	14	17	85	97
85°	18	0	1	0	18	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2820.4	2820.4	2820.4	2820.4	2820.4	2820.4	2820.4	2820.4	2820.4	2820.4	2820.4
2.5°	2791.5	2788.7	2787.4	2790.2	2791.5	2797.0	2795.7	2798.4	2798.4	2799.8	2802.5
5°	2735.0	2733.6	2735.0	2735.0	2740.5	2746.0	2744.7	2748.8	2751.5	2758.4	2761.1
7.5°	2682.7	2682.7	2681.3	2686.8	2689.6	2697.8	2696.5	2703.3	2707.4	2714.4	2724.0
10°	2629.0	2629.0	2630.3	2634.5	2635.9	2648.3	2648.3	2657.9	2663.4	2670.3	2682.7
12.5°	2576.6	2576.6	2584.9	2582.1	2587.6	2597.2	2601.4	2611.0	2619.3	2633.1	2645.6
15°	2527.1	2527.1	2529.9	2536.7	2540.9	2553.2	2560.1	2571.1	2580.8	2594.6	2612.5
17.5°	2484.4	2483.0	2484.4	2492.7	2501.0	2511.9	2517.4	2531.2	2540.9	2558.8	2575.3
20°	2441.7	2444.5	2444.5	2451.3	2456.8	2470.6	2476.1	2491.3	2502.3	2518.8	2538.1
22.5°	2404.5	2403.1	2403.1	2412.7	2416.9	2429.3	2434.8	2448.6	2460.9	2474.7	2492.7
25°	2367.3	2364.5	2370.1	2371.5	2374.2	2388.0	2392.1	2401.7	2414.2	2426.5	2444.5
27.5°	2312.2	2309.5	2310.8	2316.3	2320.5	2331.5	2334.3	2343.9	2353.5	2364.5	2379.8
30°	2206.1	2203.4	2202.1	2211.7	2215.9	2224.1	2228.2	2244.8	2247.5	2259.9	2270.9
32.5°	2065.7	2064.3	2067.1	2075.3	2079.5	2090.6	2096.0	2105.7	2112.5	2119.5	2130.5
35°	1908.7	1905.9	1908.7	1917.0	1917.0	1926.7	1930.8	1934.8	1933.5	1934.8	1932.2
37.5°	1762.8	1761.3	1762.8	1766.8	1762.8	1766.8	1762.8	1754.5	1739.3	1722.9	1706.3
40°	1638.8	1640.1	1632.0	1637.4	1622.3	1619.5	1604.4	1583.7	1553.5	1520.4	1473.6
42.5°	1506.6	1502.5	1497.0	1499.7	1487.3	1477.7	1452.9	1426.7	1388.1	1333.1	1276.6
45°	1344.1	1342.7	1339.9	1338.6	1330.3	1320.7	1300.0	1269.8	1227.0	1170.5	1103.1
47.5°	1185.7	1181.6	1181.6	1183.0	1173.4	1172.0	1155.4	1129.3	1092.1	1037.0	966.8
50°	1034.2	1032.9	1035.6	1041.1	1034.2	1031.5	1020.4	1002.6	969.6	922.7	856.6
52.5°	897.9	896.6	899.3	906.1	903.4	906.1	895.1	881.4	859.4	813.8	756.1
55°	764.3	764.3	764.3	772.6	772.6	772.6	767.1	758.8	738.2	705.1	651.4
57.5°	625.2	626.6	634.8	636.3	634.8	637.6	636.3	628.0	614.2	590.9	549.5
60°	508.1	508.1	512.3	516.4	515.0	516.4	516.4	512.3	498.5	479.2	446.3
62.5°	402.1	406.3	403.4	406.3	411.7	406.3	403.4	400.8	391.1	378.7	351.2
65°	304.4	307.2	307.2	308.5	305.7	307.2	301.7	297.5	292.0	278.2	260.3
67.5°	231.4	231.4	231.4	231.4	229.9	228.6	227.2	223.1	213.4	207.9	188.7
70°	177.7	169.4	169.4	169.4	169.4	170.8	166.7	161.2	158.4	148.8	135.0
72.5°	118.4	121.2	118.4	118.4	115.7	117.0	111.5	108.7	106.0	100.6	92.3
75°	85.4	78.5	81.3	82.6	78.5	81.3	75.8	70.3	70.3	66.1	62.0
77.5°	55.2	53.7	55.2	56.5	55.2	53.7	51.0	48.2	48.2	46.9	42.7
80°	39.9	38.6	38.6	38.6	37.2	38.6	35.9	35.9	33.1	31.7	28.9
82.5°	26.2	26.2	24.8	26.2	24.8	26.2	22.1	22.1	22.1	20.6	17.9
85°	17.9	15.1	15.1	16.6	13.8	16.6	15.1	13.8	12.4	12.4	11.0
87.5°	8.3	9.6	8.3	9.6	8.3	8.3	9.6	8.3	8.3	5.5	5.5
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: P248966

CATALOG NUMBER: LD8B70D010 ER8B70930 8LBSW0B

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2820.4	2820.4	2820.4	2820.4	2820.4	2820.4	2820.4	2820.4	2820.4	2820.4	2820.4
2.5°	2806.6	2808.0	2808.0	2813.5	2816.3	2817.6	2817.6	2828.6	2824.6	2827.3	2830.1
5°	2766.7	2774.9	2777.7	2777.7	2792.9	2798.4	2803.8	2816.3	2817.6	2825.9	2835.6
7.5°	2728.1	2737.7	2743.3	2755.6	2765.3	2774.9	2791.5	2799.8	2808.0	2819.1	2831.4
10°	2691.0	2701.9	2712.9	2722.6	2737.7	2750.1	2761.1	2780.4	2790.2	2805.3	2821.8
12.5°	2655.2	2670.3	2680.0	2696.5	2712.9	2724.0	2740.5	2758.4	2773.6	2788.7	2808.0
15°	2623.5	2641.4	2652.4	2670.3	2688.2	2703.3	2721.2	2743.3	2754.3	2772.2	2790.2
17.5°	2589.1	2608.3	2622.1	2638.6	2660.7	2677.2	2692.3	2714.4	2728.1	2747.3	2768.1
20°	2553.2	2572.5	2589.1	2605.5	2627.6	2644.1	2662.0	2684.1	2699.3	2718.4	2735.0
22.5°	2510.6	2528.5	2546.4	2565.6	2587.6	2601.4	2622.1	2641.4	2657.9	2675.8	2692.3
25°	2455.4	2477.5	2491.3	2509.1	2527.1	2542.2	2564.3	2583.6	2597.2	2613.8	2629.0
27.5°	2390.8	2407.2	2418.3	2433.5	2451.3	2465.1	2481.6	2501.0	2514.7	2529.9	2540.9
30°	2280.6	2295.7	2305.3	2316.3	2334.3	2346.7	2360.5	2378.3	2388.0	2399.1	2408.7
32.5°	2136.0	2148.4	2153.9	2162.1	2174.5	2186.8	2197.9	2213.1	2217.2	2224.1	2224.1
35°	1926.7	1929.4	1928.0	1930.8	1936.3	1943.1	1952.8	1962.4	1967.9	1967.9	1963.9
37.5°	1681.5	1665.0	1647.1	1633.3	1629.1	1626.3	1632.0	1636.0	1641.6	1644.3	1637.4
40°	1426.7	1389.6	1349.6	1313.8	1289.0	1278.1	1273.9	1276.6	1276.6	1286.2	1286.2
42.5°	1207.8	1149.9	1090.7	1037.0	1001.2	973.7	961.3	961.3	962.6	969.6	973.7
45°	1025.9	953.0	884.1	824.9	775.3	739.5	723.0	718.9	717.6	720.2	729.9
47.5°	886.9	811.2	739.5	666.5	614.2	578.4	563.3	557.7	552.2	557.7	559.2
50°	778.1	699.6	623.8	550.9	495.8	464.1	444.8	436.5	435.2	435.2	438.0
52.5°	678.9	606.0	530.2	455.9	398.0	367.7	349.8	345.7	340.1	345.7	345.7
55°	585.3	512.3	438.0	367.7	319.5	287.9	271.3	265.8	263.0	267.1	267.1
57.5°	483.4	421.4	352.6	289.2	241.0	218.9	206.6	199.7	198.3	201.1	198.3
60°	396.6	344.3	285.1	227.2	190.0	166.7	157.1	154.2	151.4	154.2	154.2
62.5°	314.0	269.9	221.7	177.7	146.0	129.5	118.4	118.4	117.0	117.0	118.4
65°	232.7	198.3	163.9	126.7	101.9	89.5	81.3	81.3	79.8	81.3	79.8
67.5°	169.4	146.0	118.4	92.3	73.0	66.1	60.6	56.5	59.2	56.5	55.2
70°	124.0	104.6	85.4	70.3	56.5	49.5	45.5	44.1	41.4	41.4	41.4
72.5°	82.6	70.3	57.8	45.5	37.2	30.3	28.9	26.2	23.4	24.8	27.6
75°	55.2	46.9	41.4	33.1	24.8	24.8	16.6	16.6	13.8	16.6	12.4
77.5°	38.6	31.7	24.8	20.6	16.6	15.1	11.0	11.0	9.6	9.6	9.6
80°	27.6	23.4	17.9	15.1	11.0	11.0	9.6	8.3	6.8	6.8	8.3
82.5°	16.6	12.4	12.4	11.0	6.8	5.5	4.1	5.5	2.8	2.8	2.8
85°	9.6	8.3	6.8	4.1	2.8	2.8	1.3	0.0	1.3	1.3	0.0
87.5°	5.5	2.8	2.8	1.3	0.0	1.3	1.3	0.0	0.0	0.0	2.8
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: P248966

CATALOG NUMBER: LD8B70D010 ER8B70930 8LBSW0B

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2820.4	2820.4	2820.4	2820.4	2820.4	2820.4	2820.4	2820.4	2820.4	2820.4	2820.4
2.5°	2836.9	2835.6	2838.3	2838.3	2846.6	2845.2	2849.4	2849.4	2846.6	2847.9	2853.4
5°	2846.6	2850.7	2859.0	2865.8	2878.2	2883.8	2890.6	2897.6	2898.9	2903.1	2907.2
7.5°	2846.6	2860.3	2870.0	2882.3	2898.9	2908.5	2923.7	2936.1	2941.6	2948.5	2956.7
10°	2841.1	2854.9	2872.7	2886.5	2907.2	2922.3	2937.5	2956.7	2965.0	2976.0	2987.0
12.5°	2830.1	2845.2	2864.5	2882.3	2905.7	2919.5	2938.8	2956.7	2969.2	2984.3	2996.7
15°	2813.5	2831.4	2849.4	2867.2	2892.0	2908.5	2926.5	2947.1	2959.6	2976.0	2987.0
17.5°	2787.4	2806.6	2823.1	2839.7	2863.0	2882.3	2898.9	2918.2	2930.6	2944.4	2959.6
20°	2755.6	2773.6	2791.5	2805.3	2828.6	2845.2	2863.0	2881.0	2890.6	2893.4	2916.8
22.5°	2715.7	2728.1	2741.9	2763.9	2777.7	2792.9	2809.5	2825.9	2835.6	2850.7	2859.0
25°	2649.6	2662.0	2677.2	2686.8	2703.3	2715.7	2732.2	2750.1	2755.6	2766.7	2774.9
27.5°	2557.3	2564.3	2571.1	2579.4	2589.1	2595.9	2605.5	2613.8	2619.3	2624.8	2630.3
30°	2411.4	2411.4	2411.4	2405.9	2410.0	2414.2	2415.5	2414.2	2414.2	2412.7	2412.7
32.5°	2218.6	2207.6	2195.1	2184.2	2180.0	2174.5	2171.7	2167.6	2160.7	2156.6	2158.0
35°	1958.3	1933.5	1918.4	1904.6	1893.6	1885.3	1881.2	1877.0	1875.7	1870.2	1864.7
37.5°	1633.3	1615.4	1604.4	1596.1	1586.4	1578.3	1579.6	1580.9	1585.1	1582.4	1583.7
40°	1289.0	1284.9	1289.0	1279.4	1276.6	1279.4	1286.2	1295.9	1301.4	1307.0	1316.5
42.5°	980.5	987.4	997.1	997.1	1001.2	1006.8	1015.0	1030.1	1038.4	1048.0	1059.0
45°	738.2	746.5	758.8	763.0	765.6	772.6	782.2	794.6	800.1	808.4	818.0
47.5°	568.8	574.3	581.1	588.1	594.9	597.7	607.4	607.4	614.2	619.7	622.5
50°	443.5	449.0	454.5	458.6	461.4	465.4	468.2	472.4	473.7	476.5	477.9
52.5°	347.1	353.9	353.9	356.7	360.8	364.9	363.5	364.9	366.3	366.3	370.4
55°	271.3	271.3	275.4	275.4	278.2	276.8	278.2	278.2	278.2	278.2	279.6
57.5°	202.5	203.8	207.9	205.1	203.8	206.6	203.8	206.6	205.1	207.9	203.8
60°	155.6	155.6	157.1	157.1	158.4	158.4	158.4	157.1	157.1	155.6	155.6
62.5°	117.0	118.4	119.8	118.4	118.4	118.4	117.0	117.0	115.7	114.2	114.2
65°	78.5	77.1	79.8	77.1	78.5	78.5	77.1	78.5	74.3	75.8	74.3
67.5°	56.5	55.2	53.7	55.2	53.7	52.4	52.4	53.7	55.2	51.0	51.0
70°	37.2	38.6	37.2	38.6	39.9	39.9	38.6	37.2	38.6	35.9	37.2
72.5°	23.4	23.4	23.4	23.4	23.4	24.8	24.8	24.8	22.1	22.1	20.6
75°	11.0	15.1	12.4	11.0	15.1	15.1	13.8	13.8	12.4	12.4	12.4
77.5°	11.0	8.3	8.3	8.3	8.3	8.3	8.3	8.3	6.8	8.3	6.8
80°	5.5	5.5	5.5	4.1	5.5	5.5	6.8	5.5	5.5	4.1	6.8
82.5°	2.8	2.8	2.8	0.0	1.3	2.8	2.8	1.3	2.8	2.8	1.3
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: P248966

CATALOG NUMBER: LD8B70D010 ER8B70930 8LBSW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2820.4	2820.4	2820.4	2820.4	2820.4	2820.4	2820.4	2820.4	2820.4	2820.4	2820.4
2.5°	2852.0	2850.7	2852.0	2853.4	2852.0	2850.7	2852.0	2853.4	2847.9	2846.6	2849.4
5°	2912.7	2912.7	2915.4	2916.8	2915.4	2912.7	2912.7	2907.2	2903.1	2898.9	2897.6
7.5°	2965.0	2967.7	2970.5	2971.9	2970.5	2967.7	2965.0	2956.7	2948.5	2941.6	2936.1
10°	2996.7	3000.8	3006.3	3009.1	3006.3	3000.8	2996.7	2987.0	2976.0	2965.0	2956.7
12.5°	3010.4	3014.6	3021.4	3020.1	3021.4	3014.6	3010.4	2996.7	2984.3	2969.2	2956.7
15°	3000.8	3006.3	3013.1	3015.9	3013.1	3006.3	3000.8	2987.0	2976.0	2959.6	2947.1
17.5°	2970.5	2978.7	2982.9	2987.0	2982.9	2978.7	2970.5	2959.6	2944.4	2930.6	2918.2
20°	2929.2	2934.8	2940.3	2941.6	2940.3	2934.8	2929.2	2916.8	2893.4	2890.6	2881.0
22.5°	2870.0	2874.1	2886.5	2882.3	2886.5	2874.1	2870.0	2859.0	2850.7	2835.6	2825.9
25°	2784.6	2788.7	2790.2	2791.5	2790.2	2788.7	2784.6	2774.9	2766.7	2755.6	2750.1
27.5°	2637.3	2637.3	2640.0	2641.4	2640.0	2637.3	2637.3	2630.3	2624.8	2619.3	2613.8
30°	2414.2	2414.2	2414.2	2421.0	2414.2	2414.2	2414.2	2412.7	2412.7	2414.2	2414.2
32.5°	2156.6	2153.9	2151.1	2153.9	2151.1	2153.9	2156.6	2158.0	2156.6	2160.7	2167.6
35°	1864.7	1863.3	1867.4	1861.9	1867.4	1863.3	1864.7	1864.7	1870.2	1875.7	1877.0
37.5°	1585.1	1582.4	1587.9	1582.4	1587.9	1582.4	1585.1	1583.7	1582.4	1585.1	1580.9
40°	1319.3	1322.1	1322.1	1333.1	1322.1	1322.1	1319.3	1316.5	1307.0	1301.4	1295.9
42.5°	1064.5	1072.8	1070.0	1078.3	1070.0	1072.8	1064.5	1059.0	1048.0	1038.4	1030.1
45°	823.5	829.1	829.1	831.8	829.1	829.1	823.5	818.0	808.4	800.1	794.6
47.5°	632.1	632.1	632.1	633.5	632.1	632.1	632.1	622.5	619.7	614.2	607.4
50°	480.6	482.0	483.4	484.7	483.4	482.0	480.6	477.9	476.5	473.7	472.4
52.5°	369.0	370.4	367.7	370.4	367.7	370.4	369.0	370.4	366.3	366.3	364.9
55°	279.6	278.2	279.6	280.9	279.6	278.2	279.6	279.6	278.2	278.2	278.2
57.5°	205.1	202.5	202.5	202.5	202.5	202.5	205.1	203.8	207.9	205.1	206.6
60°	152.9	154.2	154.2	155.6	154.2	154.2	152.9	155.6	155.6	157.1	157.1
62.5°	112.9	117.0	114.2	117.0	114.2	117.0	112.9	114.2	114.2	115.7	117.0
65°	73.0	73.0	73.0	74.3	73.0	73.0	73.0	74.3	75.8	74.3	78.5
67.5°	49.5	51.0	53.7	52.4	53.7	51.0	49.5	51.0	51.0	55.2	53.7
70°	39.9	35.9	35.9	39.9	35.9	35.9	39.9	37.2	35.9	38.6	37.2
72.5°	23.4	20.6	23.4	23.4	23.4	20.6	23.4	20.6	22.1	22.1	24.8
75°	12.4	11.0	9.6	13.8	9.6	11.0	12.4	12.4	12.4	12.4	13.8
77.5°	8.3	6.8	9.6	9.6	9.6	6.8	8.3	6.8	8.3	6.8	8.3
80°	4.1	5.5	4.1	6.8	4.1	5.5	4.1	6.8	4.1	5.5	5.5
82.5°	1.3	2.8	2.8	2.8	2.8	2.8	1.3	1.3	2.8	2.8	1.3
85°	0.0	2.8	1.3	1.3	1.3	2.8	0.0	0.0	0.0	0.0	0.0
87.5°	1.3	0.0	0.0	1.3	0.0	0.0	1.3	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: P248966

CATALOG NUMBER: LD8B70D010 ER8B70930 8LBSW0B

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2820.4	2820.4	2820.4	2820.4	2820.4	2820.4	2820.4	2820.4	2820.4	2820.4	2820.4
2.5°	2849.4	2845.2	2846.6	2838.3	2838.3	2835.6	2836.9	2830.1	2827.3	2824.6	2828.6
5°	2890.6	2883.8	2878.2	2865.8	2859.0	2850.7	2846.6	2835.6	2825.9	2817.6	2816.3
7.5°	2923.7	2908.5	2898.9	2882.3	2870.0	2860.3	2846.6	2831.4	2819.1	2808.0	2799.8
10°	2937.5	2922.3	2907.2	2886.5	2872.7	2854.9	2841.1	2821.8	2805.3	2790.2	2780.4
12.5°	2938.8	2919.5	2905.7	2882.3	2864.5	2845.2	2830.1	2808.0	2788.7	2773.6	2758.4
15°	2926.5	2908.5	2892.0	2867.2	2849.4	2831.4	2813.5	2790.2	2772.2	2754.3	2743.3
17.5°	2898.9	2882.3	2863.0	2839.7	2823.1	2806.6	2787.4	2768.1	2747.3	2728.1	2714.4
20°	2863.0	2845.2	2828.6	2805.3	2791.5	2773.6	2755.6	2735.0	2718.4	2699.3	2684.1
22.5°	2809.5	2792.9	2777.7	2763.9	2741.9	2728.1	2715.7	2692.3	2675.8	2657.9	2641.4
25°	2732.2	2715.7	2703.3	2686.8	2677.2	2662.0	2649.6	2629.0	2613.8	2597.2	2583.6
27.5°	2605.5	2595.9	2589.1	2579.4	2571.1	2564.3	2557.3	2540.9	2529.9	2514.7	2501.0
30°	2415.5	2414.2	2410.0	2405.9	2411.4	2411.4	2411.4	2408.7	2399.1	2388.0	2378.3
32.5°	2171.7	2174.5	2180.0	2184.2	2195.1	2207.6	2218.6	2224.1	2224.1	2217.2	2213.1
35°	1881.2	1885.3	1893.6	1904.6	1918.4	1933.5	1958.3	1963.9	1967.9	1967.9	1962.4
37.5°	1579.6	1578.3	1586.4	1596.1	1604.4	1615.4	1633.3	1637.4	1644.3	1641.6	1636.0
40°	1286.2	1279.4	1276.6	1279.4	1289.0	1284.9	1289.0	1286.2	1286.2	1276.6	1276.6
42.5°	1015.0	1006.8	1001.2	997.1	997.1	987.4	980.5	973.7	969.6	962.6	961.3
45°	782.2	772.6	765.6	763.0	758.8	746.5	738.2	729.9	720.2	717.6	718.9
47.5°	607.4	597.7	594.9	588.1	581.1	574.3	568.8	559.2	557.7	552.2	557.7
50°	468.2	465.4	461.4	458.6	454.5	449.0	443.5	438.0	435.2	435.2	436.5
52.5°	363.5	364.9	360.8	356.7	353.9	353.9	347.1	345.7	345.7	340.1	345.7
55°	278.2	276.8	278.2	275.4	275.4	271.3	271.3	267.1	267.1	263.0	265.8
57.5°	203.8	206.6	203.8	205.1	207.9	203.8	202.5	198.3	201.1	198.3	199.7
60°	158.4	158.4	158.4	157.1	157.1	155.6	155.6	154.2	154.2	151.4	154.2
62.5°	117.0	118.4	118.4	118.4	119.8	118.4	117.0	118.4	117.0	117.0	118.4
65°	77.1	78.5	78.5	77.1	79.8	77.1	78.5	79.8	81.3	79.8	81.3
67.5°	52.4	52.4	53.7	55.2	53.7	55.2	56.5	55.2	56.5	59.2	56.5
70°	38.6	39.9	39.9	38.6	37.2	38.6	37.2	41.4	41.4	41.4	44.1
72.5°	24.8	24.8	23.4	23.4	23.4	23.4	23.4	27.6	24.8	23.4	26.2
75°	13.8	15.1	15.1	11.0	12.4	15.1	11.0	12.4	16.6	13.8	16.6
77.5°	8.3	8.3	8.3	8.3	8.3	8.3	11.0	9.6	9.6	9.6	11.0
80°	6.8	5.5	5.5	4.1	5.5	5.5	5.5	8.3	6.8	6.8	8.3
82.5°	2.8	2.8	1.3	0.0	2.8	2.8	2.8	2.8	2.8	2.8	5.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	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: P248966

CATALOG NUMBER: LD8B70D010 ER8B70930 8LBSW0B

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2820.4	2820.4	2820.4	2820.4	2820.4	2820.4	2820.4	2820.4	2820.4	2820.4	2820.4
2.5°	2817.6	2817.6	2816.3	2813.5	2808.0	2808.0	2806.6	2802.5	2799.8	2798.4	2798.4
5°	2803.8	2798.4	2792.9	2777.7	2777.7	2774.9	2766.7	2761.1	2758.4	2751.5	2748.8
7.5°	2791.5	2774.9	2765.3	2755.6	2743.3	2737.7	2728.1	2724.0	2714.4	2707.4	2703.3
10°	2761.1	2750.1	2737.7	2722.6	2712.9	2701.9	2691.0	2682.7	2670.3	2663.4	2657.9
12.5°	2740.5	2724.0	2712.9	2696.5	2680.0	2670.3	2655.2	2645.6	2633.1	2619.3	2611.0
15°	2721.2	2703.3	2688.2	2670.3	2652.4	2641.4	2623.5	2612.5	2594.6	2580.8	2571.1
17.5°	2692.3	2677.2	2660.7	2638.6	2622.1	2608.3	2589.1	2575.3	2558.8	2540.9	2531.2
20°	2662.0	2644.1	2627.6	2605.5	2589.1	2572.5	2553.2	2538.1	2518.8	2502.3	2491.3
22.5°	2622.1	2601.4	2587.6	2565.6	2546.4	2528.5	2510.6	2492.7	2474.7	2460.9	2448.6
25°	2564.3	2542.2	2527.1	2509.1	2491.3	2477.5	2455.4	2444.5	2426.5	2414.2	2401.7
27.5°	2481.6	2465.1	2451.3	2433.5	2418.3	2407.2	2390.8	2379.8	2364.5	2353.5	2343.9
30°	2360.5	2346.7	2334.3	2316.3	2305.3	2295.7	2280.6	2270.9	2259.9	2247.5	2244.8
32.5°	2197.9	2186.8	2174.5	2162.1	2153.9	2148.4	2136.0	2130.5	2119.5	2112.5	2105.7
35°	1952.8	1943.1	1936.3	1930.8	1928.0	1929.4	1926.7	1932.2	1934.8	1933.5	1934.8
37.5°	1632.0	1626.3	1629.1	1633.3	1647.1	1665.0	1681.5	1706.3	1722.9	1739.3	1754.5
40°	1273.9	1278.1	1289.0	1313.8	1349.6	1389.6	1426.7	1473.6	1520.4	1553.5	1583.7
42.5°	961.3	973.7	1001.2	1037.0	1090.7	1149.9	1207.8	1276.6	1333.1	1388.1	1426.7
45°	723.0	739.5	775.3	824.9	884.1	953.0	1025.9	1103.1	1170.5	1227.0	1269.8
47.5°	563.3	578.4	614.2	666.5	739.5	811.2	886.9	966.8	1037.0	1092.1	1129.3
50°	444.8	464.1	495.8	550.9	623.8	699.6	778.1	856.6	922.7	969.6	1002.6
52.5°	349.8	367.7	398.0	455.9	530.2	606.0	678.9	756.1	813.8	859.4	881.4
55°	271.3	287.9	319.5	367.7	438.0	512.3	585.3	651.4	705.1	738.2	758.8
57.5°	206.6	218.9	241.0	289.2	352.6	421.4	483.4	549.5	590.9	614.2	628.0
60°	157.1	166.7	190.0	227.2	285.1	344.3	396.6	446.3	479.2	498.5	512.3
62.5°	118.4	129.5	146.0	177.7	221.7	269.9	314.0	351.2	378.7	391.1	400.8
65°	81.3	89.5	101.9	126.7	163.9	198.3	232.7	260.3	278.2	292.0	297.5
67.5°	60.6	66.1	73.0	92.3	118.4	146.0	169.4	188.7	207.9	213.4	223.1
70°	45.5	49.5	56.5	70.3	85.4	104.6	124.0	135.0	148.8	158.4	161.2
72.5°	28.9	30.3	37.2	45.5	57.8	70.3	82.6	92.3	100.6	106.0	108.7
75°	16.6	24.8	24.8	33.1	41.4	46.9	55.2	62.0	66.1	70.3	70.3
77.5°	11.0	15.1	16.6	20.6	24.8	31.7	38.6	42.7	46.9	48.2	48.2
80°	9.6	11.0	11.0	15.1	17.9	23.4	27.6	28.9	31.7	33.1	35.9
82.5°	4.1	5.5	6.8	11.0	12.4	12.4	16.6	17.9	20.6	22.1	22.1
85°	1.3	2.8	2.8	4.1	6.8	8.3	9.6	11.0	12.4	12.4	13.8
87.5°	1.3	1.3	0.0	1.3	2.8	2.8	5.5	5.5	5.5	8.3	8.3
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: P248966

CATALOG NUMBER: LD8B70D010 ER8B70930 8LBSW0B

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2820.4	2820.4	2820.4	2820.4	2820.4	2820.4	2820.4
2.5°	2795.7	2797.0	2791.5	2790.2	2787.4	2788.7	2791.5
5°	2744.7	2746.0	2740.5	2735.0	2735.0	2733.6	2735.0
7.5°	2696.5	2697.8	2689.6	2686.8	2681.3	2682.7	2682.7
10°	2648.3	2648.3	2635.9	2634.5	2630.3	2629.0	2629.0
12.5°	2601.4	2597.2	2587.6	2582.1	2584.9	2576.6	2576.6
15°	2560.1	2553.2	2540.9	2536.7	2529.9	2527.1	2527.1
17.5°	2517.4	2511.9	2501.0	2492.7	2484.4	2483.0	2484.4
20°	2476.1	2470.6	2456.8	2451.3	2444.5	2444.5	2441.7
22.5°	2434.8	2429.3	2416.9	2412.7	2403.1	2403.1	2404.5
25°	2392.1	2388.0	2374.2	2371.5	2370.1	2364.5	2367.3
27.5°	2334.3	2331.5	2320.5	2316.3	2310.8	2309.5	2312.2
30°	2228.2	2224.1	2215.9	2211.7	2202.1	2203.4	2206.1
32.5°	2096.0	2090.6	2079.5	2075.3	2067.1	2064.3	2065.7
35°	1930.8	1926.7	1917.0	1917.0	1908.7	1905.9	1908.7
37.5°	1762.8	1766.8	1762.8	1766.8	1762.8	1761.3	1762.8
40°	1604.4	1619.5	1622.3	1637.4	1632.0	1640.1	1638.8
42.5°	1452.9	1477.7	1487.3	1499.7	1497.0	1502.5	1506.6
45°	1300.0	1320.7	1330.3	1338.6	1339.9	1342.7	1344.1
47.5°	1155.4	1172.0	1173.4	1183.0	1181.6	1181.6	1185.7
50°	1020.4	1031.5	1034.2	1041.1	1035.6	1032.9	1034.2
52.5°	895.1	906.1	903.4	906.1	899.3	896.6	897.9
55°	767.1	772.6	772.6	772.6	764.3	764.3	764.3
57.5°	636.3	637.6	634.8	636.3	634.8	626.6	625.2
60°	516.4	516.4	515.0	516.4	512.3	508.1	508.1
62.5°	403.4	406.3	411.7	406.3	403.4	406.3	402.1
65°	301.7	307.2	305.7	308.5	307.2	307.2	304.4
67.5°	227.2	228.6	229.9	231.4	231.4	231.4	231.4
70°	166.7	170.8	169.4	169.4	169.4	169.4	177.7
72.5°	111.5	117.0	115.7	118.4	118.4	121.2	118.4
75°	75.8	81.3	78.5	82.6	81.3	78.5	85.4
77.5°	51.0	53.7	55.2	56.5	55.2	53.7	55.2
80°	35.9	38.6	37.2	38.6	38.6	38.6	39.9
82.5°	22.1	26.2	24.8	26.2	24.8	26.2	26.2
85°	15.1	16.6	13.8	16.6	15.1	15.1	17.9
87.5°	9.6	8.3	8.3	9.6	8.3	9.6	8.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)