

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: P248967

Luminaire Tested: **LD8B80D010 ER8B809730 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248967
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: LD8B80D010 ER8B809730 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: 4711.0 lumens
Efficiency: N/A
Efficacy: 63.3 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

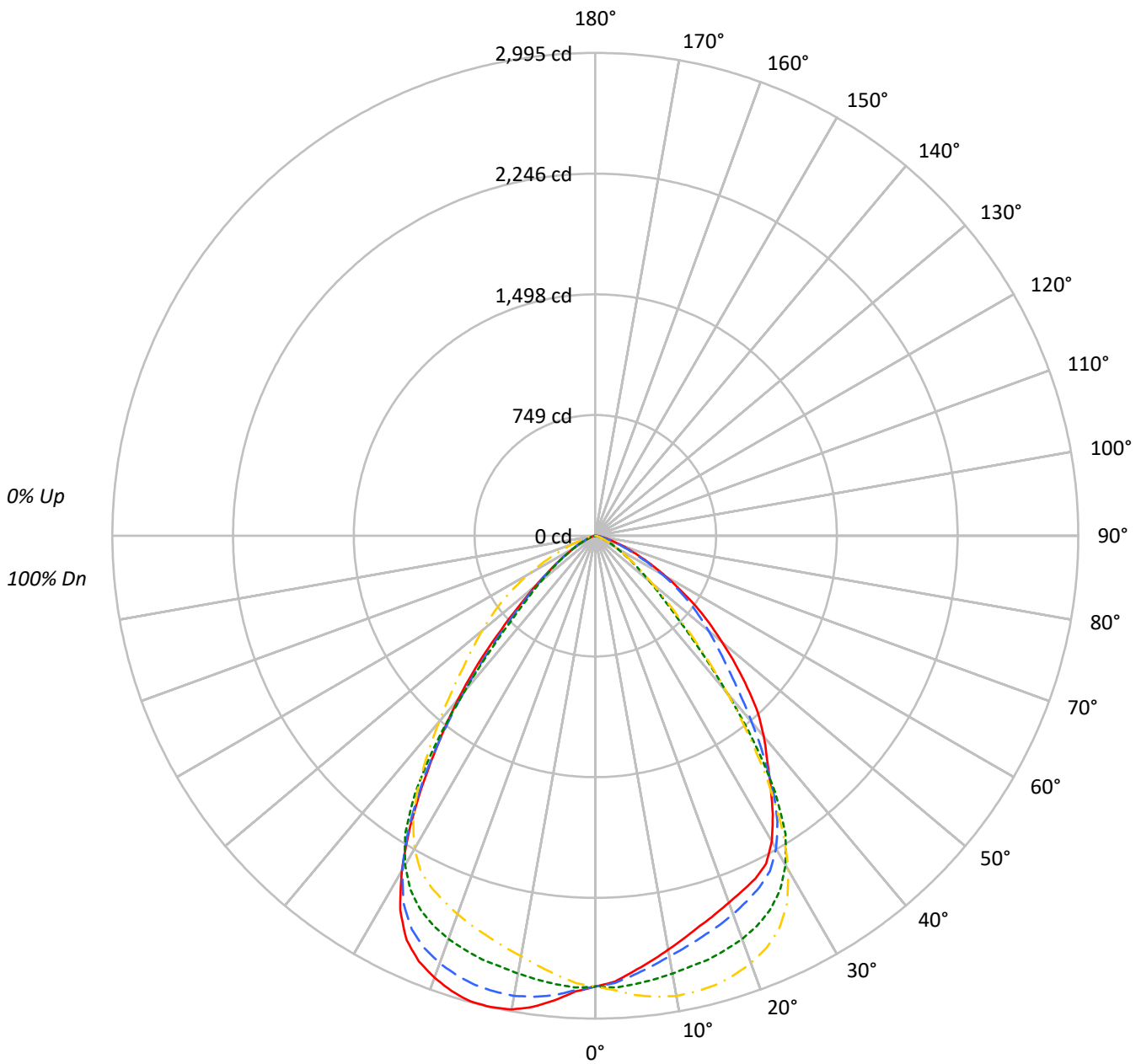
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - - - 135°-315°



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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	50	30	10	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100			
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90	90	90	90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81	81	81	81			
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72	72	72	72			
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65	65	65	65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58	58	58	58			
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53	53	53	53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48	48	48	48			
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44	44	44	44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40	40	40	40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37	37	37	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°	266.2	5.7
10°-20°	770.9	16.4
20°-30°	1167.3	24.8
30°-40°	1169.9	24.8
40°-50°	734.6	15.6
50°-60°	391.5	8.3
60°-70°	161.0	3.4
70°-80°	42.5	0.9
80°-90°	7.2	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°	2204.3	46.8
0°-40°	3374.2	71.6
0°-60°	4500.3	95.5
0°-90°	4711.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4711.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2797	2797	2797	2797	2797	
5°	2712	2793	2892	2793	2712	256
15°	2506	2720	2991	2720	2506	709
25°	2348	2562	2768	2562	2348	1077
35°	1893	1946	1846	1946	1893	1186
45°	1333	713	825	713	1333	1025
55°	758	264	279	264	758	676
65°	302	80	74	80	302	313
75°	85	16	14	16	85	96
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°	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8
2.5°	2768.1	2765.4	2764.0	2766.8	2768.1	2773.6	2772.2	2774.9	2774.9	2776.3	2779.0
5°	2712.1	2710.7	2712.1	2712.1	2717.6	2723.0	2721.7	2725.8	2728.5	2735.3	2738.0
7.5°	2660.2	2660.2	2658.8	2664.3	2667.0	2675.2	2673.8	2680.7	2684.8	2691.6	2701.2
10°	2607.0	2607.0	2608.3	2612.4	2613.8	2626.1	2626.1	2635.6	2641.1	2647.9	2660.2
12.5°	2555.1	2555.1	2563.3	2560.5	2566.0	2575.5	2579.6	2589.2	2597.4	2611.1	2623.4
15°	2505.9	2505.9	2508.6	2515.4	2519.5	2531.9	2538.7	2549.6	2559.2	2572.8	2590.6
17.5°	2463.6	2462.2	2463.6	2471.8	2480.0	2490.9	2496.3	2510.0	2519.5	2537.3	2553.7
20°	2421.2	2424.0	2424.0	2430.8	2436.2	2449.9	2455.4	2470.4	2481.3	2497.7	2516.8
22.5°	2384.4	2383.0	2383.0	2392.6	2396.7	2408.9	2414.4	2428.0	2440.3	2454.0	2471.8
25°	2347.5	2344.7	2350.2	2351.6	2354.3	2367.9	2372.1	2381.6	2393.9	2406.2	2424.0
27.5°	2292.9	2290.2	2291.5	2297.0	2301.1	2312.0	2314.7	2324.3	2333.8	2344.7	2359.8
30°	2187.7	2185.0	2183.6	2193.2	2197.3	2205.4	2209.5	2226.0	2228.7	2241.0	2251.9
32.5°	2048.4	2047.0	2049.8	2058.0	2062.1	2073.0	2078.5	2088.0	2094.8	2101.7	2112.6
35°	1892.8	1890.0	1892.8	1901.0	1901.0	1910.5	1914.6	1918.7	1917.3	1918.7	1916.0
37.5°	1748.0	1746.6	1748.0	1752.1	1748.0	1752.1	1748.0	1739.8	1724.8	1708.4	1692.0
40°	1625.1	1626.4	1618.3	1623.7	1608.7	1606.0	1591.0	1570.4	1540.4	1507.7	1461.2
42.5°	1494.0	1489.9	1484.4	1487.1	1474.9	1465.3	1440.7	1414.8	1376.5	1321.9	1265.9
45°	1332.8	1331.5	1328.7	1327.4	1319.2	1309.6	1289.1	1259.1	1216.8	1160.8	1093.8
47.5°	1175.8	1171.7	1171.7	1173.0	1163.5	1162.1	1145.7	1119.8	1082.9	1028.3	958.7
50°	1025.5	1024.2	1027.0	1032.4	1025.5	1022.8	1011.9	994.2	961.4	915.0	849.4
52.5°	890.4	889.0	891.8	898.6	895.8	898.6	887.7	874.0	852.1	807.1	749.7
55°	757.9	757.9	757.9	766.1	766.1	766.1	760.6	752.5	732.0	699.2	646.0
57.5°	620.0	621.3	629.5	630.9	629.5	632.3	630.9	622.7	609.1	585.9	544.9
60°	503.9	503.9	508.0	512.1	510.7	512.1	512.1	508.0	494.4	475.3	442.5
62.5°	398.8	402.9	400.1	402.9	408.3	402.9	400.1	397.4	387.8	375.5	348.2
65°	301.8	304.5	304.5	305.9	303.1	304.5	299.1	295.0	289.5	275.9	258.1
67.5°	229.4	229.4	229.4	229.4	228.0	226.7	225.3	221.2	211.7	206.2	187.1
70°	176.2	168.0	168.0	168.0	168.0	169.4	165.3	159.8	157.0	147.5	133.8
72.5°	117.4	120.2	117.4	117.4	114.7	116.1	110.6	107.9	105.2	99.7	91.5
75°	84.7	77.9	80.5	82.0	77.9	80.5	75.1	69.6	69.6	65.5	61.4
77.5°	54.6	53.3	54.6	56.0	54.6	53.3	50.5	47.8	47.8	46.4	42.3
80°	39.6	38.2	38.2	38.2	36.9	38.2	35.5	35.5	32.8	31.4	28.7
82.5°	26.0	26.0	24.6	26.0	24.6	26.0	21.9	21.9	21.9	20.5	17.8
85°	17.8	15.0	15.0	16.4	13.7	16.4	15.0	13.7	12.3	12.3	10.9
87.5°	8.2	9.6	8.2	9.6	8.2	8.2	9.6	8.2	8.2	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8
2.5°	2783.1	2784.5	2784.5	2790.0	2792.7	2794.0	2794.0	2805.0	2800.9	2803.6	2806.3
5°	2743.5	2751.7	2754.4	2754.4	2769.5	2774.9	2780.4	2792.7	2794.0	2802.2	2811.8
7.5°	2705.3	2714.8	2720.3	2732.6	2742.1	2751.7	2768.1	2776.3	2784.5	2795.4	2807.7
10°	2668.4	2679.3	2690.3	2699.8	2714.8	2727.1	2738.0	2757.1	2766.8	2781.8	2798.1
12.5°	2632.9	2647.9	2657.5	2673.8	2690.3	2701.2	2717.6	2735.3	2750.3	2765.4	2784.5
15°	2601.5	2619.3	2630.2	2647.9	2665.7	2680.7	2698.5	2720.3	2731.2	2749.0	2766.8
17.5°	2567.3	2586.5	2600.1	2616.5	2638.4	2654.7	2669.8	2691.6	2705.3	2724.4	2744.9
20°	2531.9	2551.0	2567.3	2583.7	2605.6	2622.0	2639.7	2661.6	2676.6	2695.7	2712.1
22.5°	2489.5	2507.3	2525.0	2544.1	2566.0	2579.6	2600.1	2619.3	2635.6	2653.4	2669.8
25°	2434.9	2456.8	2470.4	2488.1	2505.9	2520.9	2542.8	2561.9	2575.5	2591.9	2607.0
27.5°	2370.7	2387.1	2398.0	2413.0	2430.8	2444.4	2460.8	2480.0	2493.6	2508.6	2519.5
30°	2261.4	2276.5	2286.0	2297.0	2314.7	2327.0	2340.7	2358.4	2367.9	2378.9	2388.5
32.5°	2118.0	2130.3	2135.8	2144.0	2156.3	2168.6	2179.5	2194.5	2198.6	2205.4	2205.4
35°	1910.5	1913.2	1911.9	1914.6	1920.1	1926.9	1936.4	1946.0	1951.4	1951.4	1947.4
37.5°	1667.4	1651.0	1633.3	1619.6	1615.5	1612.8	1618.3	1622.3	1627.8	1630.5	1623.7
40°	1414.8	1377.9	1338.3	1302.8	1278.2	1267.3	1263.2	1265.9	1265.9	1275.5	1275.5
42.5°	1197.7	1140.3	1081.6	1028.3	992.8	965.5	953.2	953.2	954.6	961.4	965.5
45°	1017.4	945.0	876.7	818.0	768.8	733.3	717.0	712.9	711.5	714.2	723.8
47.5°	879.5	804.4	733.3	661.0	609.1	573.6	558.6	553.0	547.6	553.0	554.5
50°	771.6	693.7	618.6	546.2	491.6	460.2	441.1	432.9	431.5	431.5	434.3
52.5°	673.2	600.9	525.8	452.0	394.6	364.6	346.9	342.8	337.3	342.8	342.8
55°	580.4	508.0	434.3	364.6	316.8	285.4	269.0	263.6	260.8	264.9	264.9
57.5°	479.4	417.9	349.6	286.8	239.0	217.1	204.8	198.0	196.6	199.4	196.6
60°	393.3	341.4	282.7	225.3	188.5	165.3	155.7	152.9	150.2	152.9	152.9
62.5°	311.3	267.7	219.8	176.2	144.7	128.4	117.4	117.4	116.1	116.1	117.4
65°	230.8	196.6	162.5	125.6	101.1	88.8	80.5	80.5	79.2	80.5	79.2
67.5°	168.0	144.7	117.4	91.5	72.4	65.5	60.1	56.0	58.7	56.0	54.6
70°	122.9	103.8	84.7	69.6	56.0	49.2	45.1	43.7	41.0	41.0	41.0
72.5°	82.0	69.6	57.3	45.1	36.9	30.0	28.7	26.0	23.2	24.6	27.3
75°	54.6	46.4	41.0	32.8	24.6	24.6	16.4	16.4	13.7	16.4	12.3
77.5°	38.2	31.4	24.6	20.5	16.4	15.0	10.9	10.9	9.6	9.6	9.6
80°	27.3	23.2	17.8	15.0	10.9	10.9	9.6	8.2	6.8	6.8	8.2
82.5°	16.4	12.3	12.3	10.9	6.8	5.5	4.1	5.5	2.8	2.8	2.8
85°	9.6	8.2	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



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8
2.5°	2813.2	2811.8	2814.5	2814.5	2822.7	2821.3	2825.4	2825.4	2822.7	2824.1	2829.5
5°	2822.7	2826.8	2835.0	2841.9	2854.1	2859.6	2866.4	2873.3	2874.6	2878.7	2882.8
7.5°	2822.7	2836.4	2846.0	2858.2	2874.6	2884.2	2899.2	2911.5	2916.9	2923.7	2932.0
10°	2817.2	2830.9	2848.7	2862.3	2882.8	2897.8	2912.8	2932.0	2940.2	2951.1	2962.0
12.5°	2806.3	2821.3	2840.4	2858.2	2881.4	2895.1	2914.2	2932.0	2944.3	2959.3	2971.6
15°	2790.0	2807.7	2825.4	2843.2	2867.8	2884.2	2901.9	2922.4	2934.7	2951.1	2962.0
17.5°	2764.0	2783.1	2799.5	2815.9	2839.1	2858.2	2874.6	2893.7	2906.0	2919.7	2934.7
20°	2732.6	2750.3	2768.1	2781.8	2805.0	2821.3	2839.1	2856.9	2866.4	2869.2	2892.4
22.5°	2693.0	2705.3	2718.9	2740.8	2754.4	2769.5	2785.9	2802.2	2811.8	2826.8	2835.0
25°	2627.4	2639.7	2654.7	2664.3	2680.7	2693.0	2709.4	2727.1	2732.6	2743.5	2751.7
27.5°	2536.0	2542.8	2549.6	2557.8	2567.3	2574.2	2583.7	2591.9	2597.4	2602.8	2608.3
30°	2391.2	2391.2	2391.2	2385.7	2389.8	2393.9	2395.3	2393.9	2393.9	2392.6	2392.6
32.5°	2200.0	2189.1	2176.8	2165.9	2161.8	2156.3	2153.6	2149.5	2142.7	2138.6	2139.9
35°	1941.9	1917.3	1902.3	1888.6	1877.7	1869.5	1865.4	1861.3	1860.0	1854.5	1849.0
37.5°	1619.6	1601.9	1591.0	1582.8	1573.2	1565.0	1566.3	1567.7	1571.8	1569.1	1570.4
40°	1278.2	1274.1	1278.2	1268.7	1265.9	1268.7	1275.5	1285.1	1290.5	1296.0	1305.5
42.5°	972.3	979.1	988.7	988.7	992.8	998.3	1006.4	1021.5	1029.6	1039.2	1050.2
45°	732.0	740.2	752.5	756.5	759.3	766.1	775.7	787.9	793.4	801.6	811.2
47.5°	564.0	569.5	576.3	583.1	589.9	592.7	602.2	602.2	609.1	614.5	617.2
50°	439.7	445.2	450.6	454.7	457.5	461.6	464.3	468.4	469.7	472.5	473.8
52.5°	344.1	351.0	351.0	353.7	357.8	361.9	360.5	361.9	363.2	363.2	367.3
55°	269.0	269.0	273.1	273.1	275.9	274.5	275.9	275.9	275.9	275.9	277.2
57.5°	200.7	202.1	206.2	203.5	202.1	204.8	202.1	204.8	203.5	206.2	202.1
60°	154.3	154.3	155.7	155.7	157.0	157.0	157.0	155.7	155.7	154.3	154.3
62.5°	116.1	117.4	118.8	117.4	117.4	117.4	116.1	116.1	114.7	113.3	113.3
65°	77.9	76.5	79.2	76.5	77.9	77.9	76.5	77.9	73.7	75.1	73.7
67.5°	56.0	54.6	53.3	54.6	53.3	51.9	51.9	53.3	54.6	50.5	50.5
70°	36.9	38.2	36.9	38.2	39.6	39.6	38.2	36.9	38.2	35.5	36.9
72.5°	23.2	23.2	23.2	23.2	23.2	24.6	24.6	24.6	21.9	21.9	20.5
75°	10.9	15.0	12.3	10.9	15.0	15.0	13.7	13.7	12.3	12.3	12.3
77.5°	10.9	8.2	8.2	8.2	8.2	8.2	8.2	8.2	6.8	8.2	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: P248967

CATALOG NUMBER: LD8B80D010 ER8B809730 8LBSW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8
2.5°	2828.2	2826.8	2828.2	2829.5	2828.2	2826.8	2828.2	2829.5	2824.1	2822.7	2825.4
5°	2888.3	2888.3	2891.0	2892.4	2891.0	2888.3	2888.3	2882.8	2878.7	2874.6	2873.3
7.5°	2940.2	2942.9	2945.6	2947.0	2945.6	2942.9	2940.2	2932.0	2923.7	2916.9	2911.5
10°	2971.6	2975.7	2981.1	2983.8	2981.1	2975.7	2971.6	2962.0	2951.1	2940.2	2932.0
12.5°	2985.2	2989.3	2996.1	2994.8	2996.1	2989.3	2985.2	2971.6	2959.3	2944.3	2932.0
15°	2975.7	2981.1	2987.9	2990.7	2987.9	2981.1	2975.7	2962.0	2951.1	2934.7	2922.4
17.5°	2945.6	2953.8	2957.9	2962.0	2957.9	2953.8	2945.6	2934.7	2919.7	2906.0	2893.7
20°	2904.6	2910.1	2915.6	2916.9	2915.6	2910.1	2904.6	2892.4	2869.2	2866.4	2856.9
22.5°	2846.0	2850.1	2862.3	2858.2	2862.3	2850.1	2846.0	2835.0	2826.8	2811.8	2802.2
25°	2761.2	2765.4	2766.8	2768.1	2766.8	2765.4	2761.2	2751.7	2743.5	2732.6	2727.1
27.5°	2615.2	2615.2	2617.9	2619.3	2617.9	2615.2	2615.2	2608.3	2602.8	2597.4	2591.9
30°	2393.9	2393.9	2393.9	2400.8	2393.9	2393.9	2393.9	2392.6	2392.6	2393.9	2393.9
32.5°	2138.6	2135.8	2133.1	2135.8	2133.1	2135.8	2138.6	2139.9	2138.6	2142.7	2149.5
35°	1849.0	1847.7	1851.8	1846.3	1851.8	1847.7	1849.0	1849.0	1854.5	1860.0	1861.3
37.5°	1571.8	1569.1	1574.5	1569.1	1574.5	1569.1	1571.8	1570.4	1569.1	1571.8	1567.7
40°	1308.3	1311.0	1311.0	1321.9	1311.0	1311.0	1308.3	1305.5	1296.0	1290.5	1285.1
42.5°	1055.6	1063.8	1061.1	1069.3	1061.1	1063.8	1055.6	1050.2	1039.2	1029.6	1021.5
45°	816.6	822.1	822.1	824.8	822.1	822.1	816.6	811.2	801.6	793.4	787.9
47.5°	626.8	626.8	626.8	628.2	626.8	626.8	626.8	617.2	614.5	609.1	602.2
50°	476.6	478.0	479.4	480.7	479.4	478.0	476.6	473.8	472.5	469.7	468.4
52.5°	366.0	367.3	364.6	367.3	364.6	367.3	366.0	367.3	363.2	363.2	361.9
55°	277.2	275.9	277.2	278.6	277.2	275.9	277.2	277.2	275.9	275.9	275.9
57.5°	203.5	200.7	200.7	200.7	200.7	200.7	203.5	202.1	206.2	203.5	204.8
60°	151.6	152.9	152.9	154.3	152.9	152.9	151.6	154.3	154.3	155.7	155.7
62.5°	112.0	116.1	113.3	116.1	113.3	116.1	112.0	113.3	113.3	114.7	116.1
65°	72.4	72.4	72.4	73.7	72.4	72.4	72.4	73.7	75.1	73.7	77.9
67.5°	49.2	50.5	53.3	51.9	53.3	50.5	49.2	50.5	50.5	54.6	53.3
70°	39.6	35.5	35.5	39.6	35.5	35.5	39.6	36.9	35.5	38.2	36.9
72.5°	23.2	20.5	23.2	23.2	23.2	20.5	23.2	20.5	21.9	21.9	24.6
75°	12.3	10.9	9.6	13.7	9.6	10.9	12.3	12.3	12.3	12.3	13.7
77.5°	8.2	6.8	9.6	9.6	9.6	6.8	8.2	6.8	8.2	6.8	8.2
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: P248967

CATALOG NUMBER: LD8B80D010 ER8B809730 8LBSW0B

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8
2.5°	2825.4	2821.3	2822.7	2814.5	2814.5	2811.8	2813.2	2806.3	2803.6	2800.9	2805.0
5°	2866.4	2859.6	2854.1	2841.9	2835.0	2826.8	2822.7	2811.8	2802.2	2794.0	2792.7
7.5°	2899.2	2884.2	2874.6	2858.2	2846.0	2836.4	2822.7	2807.7	2795.4	2784.5	2776.3
10°	2912.8	2897.8	2882.8	2862.3	2848.7	2830.9	2817.2	2798.1	2781.8	2766.8	2757.1
12.5°	2914.2	2895.1	2881.4	2858.2	2840.4	2821.3	2806.3	2784.5	2765.4	2750.3	2735.3
15°	2901.9	2884.2	2867.8	2843.2	2825.4	2807.7	2790.0	2766.8	2749.0	2731.2	2720.3
17.5°	2874.6	2858.2	2839.1	2815.9	2799.5	2783.1	2764.0	2744.9	2724.4	2705.3	2691.6
20°	2839.1	2821.3	2805.0	2781.8	2768.1	2750.3	2732.6	2712.1	2695.7	2676.6	2661.6
22.5°	2785.9	2769.5	2754.4	2740.8	2718.9	2705.3	2693.0	2669.8	2653.4	2635.6	2619.3
25°	2709.4	2693.0	2680.7	2664.3	2654.7	2639.7	2627.4	2607.0	2591.9	2575.5	2561.9
27.5°	2583.7	2574.2	2567.3	2557.8	2549.6	2542.8	2536.0	2519.5	2508.6	2493.6	2480.0
30°	2395.3	2393.9	2389.8	2385.7	2391.2	2391.2	2391.2	2388.5	2378.9	2367.9	2358.4
32.5°	2153.6	2156.3	2161.8	2165.9	2176.8	2189.1	2200.0	2205.4	2205.4	2198.6	2194.5
35°	1865.4	1869.5	1877.7	1888.6	1902.3	1917.3	1941.9	1947.4	1951.4	1951.4	1946.0
37.5°	1566.3	1565.0	1573.2	1582.8	1591.0	1601.9	1619.6	1623.7	1630.5	1627.8	1622.3
40°	1275.5	1268.7	1265.9	1268.7	1278.2	1274.1	1278.2	1275.5	1275.5	1265.9	1265.9
42.5°	1006.4	998.3	992.8	988.7	988.7	979.1	972.3	965.5	961.4	954.6	953.2
45°	775.7	766.1	759.3	756.5	752.5	740.2	732.0	723.8	714.2	711.5	712.9
47.5°	602.2	592.7	589.9	583.1	576.3	569.5	564.0	554.5	553.0	547.6	553.0
50°	464.3	461.6	457.5	454.7	450.6	445.2	439.7	434.3	431.5	431.5	432.9
52.5°	360.5	361.9	357.8	353.7	351.0	351.0	344.1	342.8	342.8	337.3	342.8
55°	275.9	274.5	275.9	273.1	273.1	269.0	269.0	264.9	264.9	260.8	263.6
57.5°	202.1	204.8	202.1	203.5	206.2	202.1	200.7	196.6	199.4	196.6	198.0
60°	157.0	157.0	157.0	155.7	155.7	154.3	154.3	152.9	152.9	150.2	152.9
62.5°	116.1	117.4	117.4	117.4	118.8	117.4	116.1	117.4	116.1	116.1	117.4
65°	76.5	77.9	77.9	76.5	79.2	76.5	77.9	79.2	80.5	79.2	80.5
67.5°	51.9	51.9	53.3	54.6	53.3	54.6	56.0	54.6	56.0	58.7	56.0
70°	38.2	39.6	39.6	38.2	36.9	38.2	36.9	41.0	41.0	41.0	43.7
72.5°	24.6	24.6	23.2	23.2	23.2	23.2	23.2	27.3	24.6	23.2	26.0
75°	13.7	15.0	15.0	10.9	12.3	15.0	10.9	12.3	16.4	13.7	16.4
77.5°	8.2	8.2	8.2	8.2	8.2	8.2	10.9	9.6	9.6	9.6	10.9
80°	6.8	5.5	5.5	4.1	5.5	5.5	5.5	8.2	6.8	6.8	8.2
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: P248967

CATALOG NUMBER: LD8B80D010 ER8B809730 8LBSW0B

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8
2.5°	2794.0	2794.0	2792.7	2790.0	2784.5	2784.5	2783.1	2779.0	2776.3	2774.9	2774.9
5°	2780.4	2774.9	2769.5	2754.4	2754.4	2751.7	2743.5	2738.0	2735.3	2728.5	2725.8
7.5°	2768.1	2751.7	2742.1	2732.6	2720.3	2714.8	2705.3	2701.2	2691.6	2684.8	2680.7
10°	2738.0	2727.1	2714.8	2699.8	2690.3	2679.3	2668.4	2660.2	2647.9	2641.1	2635.6
12.5°	2717.6	2701.2	2690.3	2673.8	2657.5	2647.9	2632.9	2623.4	2611.1	2597.4	2589.2
15°	2698.5	2680.7	2665.7	2647.9	2630.2	2619.3	2601.5	2590.6	2572.8	2559.2	2549.6
17.5°	2669.8	2654.7	2638.4	2616.5	2600.1	2586.5	2567.3	2553.7	2537.3	2519.5	2510.0
20°	2639.7	2622.0	2605.6	2583.7	2567.3	2551.0	2531.9	2516.8	2497.7	2481.3	2470.4
22.5°	2600.1	2579.6	2566.0	2544.1	2525.0	2507.3	2489.5	2471.8	2454.0	2440.3	2428.0
25°	2542.8	2520.9	2505.9	2488.1	2470.4	2456.8	2434.9	2424.0	2406.2	2393.9	2381.6
27.5°	2460.8	2444.4	2430.8	2413.0	2398.0	2387.1	2370.7	2359.8	2344.7	2333.8	2324.3
30°	2340.7	2327.0	2314.7	2297.0	2286.0	2276.5	2261.4	2251.9	2241.0	2228.7	2226.0
32.5°	2179.5	2168.6	2156.3	2144.0	2135.8	2130.3	2118.0	2112.6	2101.7	2094.8	2088.0
35°	1936.4	1926.9	1920.1	1914.6	1911.9	1913.2	1910.5	1916.0	1918.7	1917.3	1918.7
37.5°	1618.3	1612.8	1615.5	1619.6	1633.3	1651.0	1667.4	1692.0	1708.4	1724.8	1739.8
40°	1263.2	1267.3	1278.2	1302.8	1338.3	1377.9	1414.8	1461.2	1507.7	1540.4	1570.4
42.5°	953.2	965.5	992.8	1028.3	1081.6	1140.3	1197.7	1265.9	1321.9	1376.5	1414.8
45°	717.0	733.3	768.8	818.0	876.7	945.0	1017.4	1093.8	1160.8	1216.8	1259.1
47.5°	558.6	573.6	609.1	661.0	733.3	804.4	879.5	958.7	1028.3	1082.9	1119.8
50°	441.1	460.2	491.6	546.2	618.6	693.7	771.6	849.4	915.0	961.4	994.2
52.5°	346.9	364.6	394.6	452.0	525.8	600.9	673.2	749.7	807.1	852.1	874.0
55°	269.0	285.4	316.8	364.6	434.3	508.0	580.4	646.0	699.2	732.0	752.5
57.5°	204.8	217.1	239.0	286.8	349.6	417.9	479.4	544.9	585.9	609.1	622.7
60°	155.7	165.3	188.5	225.3	282.7	341.4	393.3	442.5	475.3	494.4	508.0
62.5°	117.4	128.4	144.7	176.2	219.8	267.7	311.3	348.2	375.5	387.8	397.4
65°	80.5	88.8	101.1	125.6	162.5	196.6	230.8	258.1	275.9	289.5	295.0
67.5°	60.1	65.5	72.4	91.5	117.4	144.7	168.0	187.1	206.2	211.7	221.2
70°	45.1	49.2	56.0	69.6	84.7	103.8	122.9	133.8	147.5	157.0	159.8
72.5°	28.7	30.0	36.9	45.1	57.3	69.6	82.0	91.5	99.7	105.2	107.9
75°	16.4	24.6	24.6	32.8	41.0	46.4	54.6	61.4	65.5	69.6	69.6
77.5°	10.9	15.0	16.4	20.5	24.6	31.4	38.2	42.3	46.4	47.8	47.8
80°	9.6	10.9	10.9	15.0	17.8	23.2	27.3	28.7	31.4	32.8	35.5
82.5°	4.1	5.5	6.8	10.9	12.3	12.3	16.4	17.8	20.5	21.9	21.9
85°	1.3	2.8	2.8	4.1	6.8	8.2	9.6	10.9	12.3	12.3	13.7
87.5°	1.3	1.3	0.0	1.3	2.8	2.8	5.5	5.5	5.5	8.2	8.2
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: P248967

CATALOG NUMBER: LD8B80D010 ER8B809730 8LBSW0B

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8
2.5°	2772.2	2773.6	2768.1	2766.8	2764.0	2765.4	2768.1
5°	2721.7	2723.0	2717.6	2712.1	2712.1	2710.7	2712.1
7.5°	2673.8	2675.2	2667.0	2664.3	2658.8	2660.2	2660.2
10°	2626.1	2626.1	2613.8	2612.4	2608.3	2607.0	2607.0
12.5°	2579.6	2575.5	2566.0	2560.5	2563.3	2555.1	2555.1
15°	2538.7	2531.9	2519.5	2515.4	2508.6	2505.9	2505.9
17.5°	2496.3	2490.9	2480.0	2471.8	2463.6	2462.2	2463.6
20°	2455.4	2449.9	2436.2	2430.8	2424.0	2424.0	2421.2
22.5°	2414.4	2408.9	2396.7	2392.6	2383.0	2383.0	2384.4
25°	2372.1	2367.9	2354.3	2351.6	2350.2	2344.7	2347.5
27.5°	2314.7	2312.0	2301.1	2297.0	2291.5	2290.2	2292.9
30°	2209.5	2205.4	2197.3	2193.2	2183.6	2185.0	2187.7
32.5°	2078.5	2073.0	2062.1	2058.0	2049.8	2047.0	2048.4
35°	1914.6	1910.5	1901.0	1901.0	1892.8	1890.0	1892.8
37.5°	1748.0	1752.1	1748.0	1752.1	1748.0	1746.6	1748.0
40°	1591.0	1606.0	1608.7	1623.7	1618.3	1626.4	1625.1
42.5°	1440.7	1465.3	1474.9	1487.1	1484.4	1489.9	1494.0
45°	1289.1	1309.6	1319.2	1327.4	1328.7	1331.5	1332.8
47.5°	1145.7	1162.1	1163.5	1173.0	1171.7	1171.7	1175.8
50°	1011.9	1022.8	1025.5	1032.4	1027.0	1024.2	1025.5
52.5°	887.7	898.6	895.8	898.6	891.8	889.0	890.4
55°	760.6	766.1	766.1	766.1	757.9	757.9	757.9
57.5°	630.9	632.3	629.5	630.9	629.5	621.3	620.0
60°	512.1	512.1	510.7	512.1	508.0	503.9	503.9
62.5°	400.1	402.9	408.3	402.9	400.1	402.9	398.8
65°	299.1	304.5	303.1	305.9	304.5	304.5	301.8
67.5°	225.3	226.7	228.0	229.4	229.4	229.4	229.4
70°	165.3	169.4	168.0	168.0	168.0	168.0	176.2
72.5°	110.6	116.1	114.7	117.4	117.4	120.2	117.4
75°	75.1	80.5	77.9	82.0	80.5	77.9	84.7
77.5°	50.5	53.3	54.6	56.0	54.6	53.3	54.6
80°	35.5	38.2	36.9	38.2	38.2	38.2	39.6
82.5°	21.9	26.0	24.6	26.0	24.6	26.0	26.0
85°	15.0	16.4	13.7	16.4	15.0	15.0	17.8
87.5°	9.6	8.2	8.2	9.6	8.2	9.6	8.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)