

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: P244997

Luminaire Tested: **LD8B50D010 ER8B50935 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244997
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: LD8B50D010 ER8B50935 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 3500 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4654.0 lumens
Efficiency: N/A
Efficacy: 87.8 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

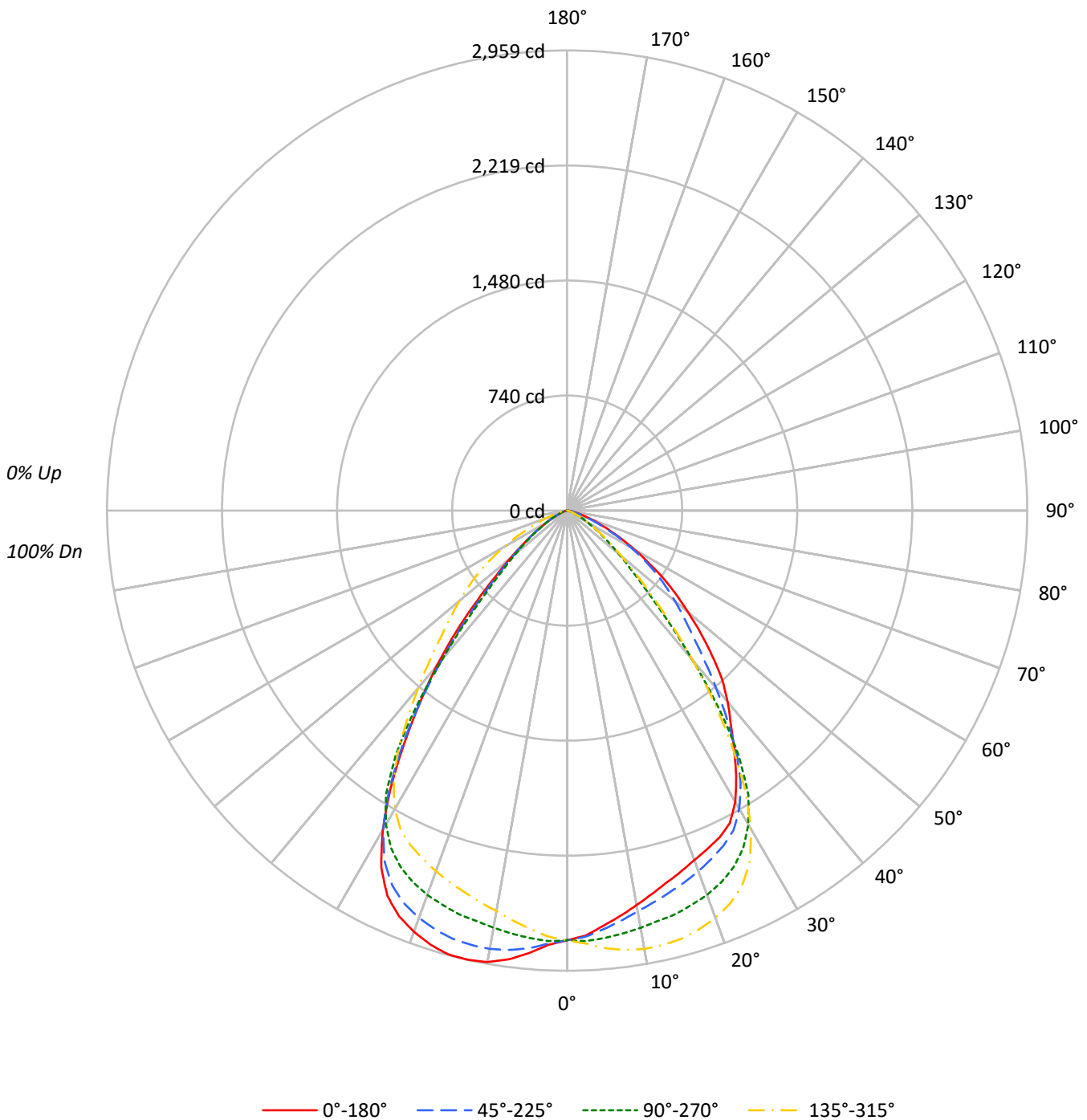
Input Watts (W): 53
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	85198	85198	85198	85198
5°	82935	85399	88448	85399
10°	80641	85288	92298	85288
15°	79031	85793	94320	85793
20°	78491	86285	94564	86285
25°	78905	86112	93042	86112
30°	76953	82960	84448	82960
35°	70387	72367	68663	72367
40°	64624	50342	52568	50342
45°	57420	30710	35533	30710
50°	48601	20513	22782	20513
55°	40257	13999	14795	13999
60°	30701	9319	9399	9319
65°	21751	5808	5319	5808
70°	15688	3886	3525	3886
75°	9960	1930	1608	1930
80°	6943	1438	1190	1438
85°	6192	0	460	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.0	5.7
10°-20°	761.5	16.4
20°-30°	1153.1	24.8
30°-40°	1155.7	24.8
40°-50°	725.7	15.6
50°-60°	386.7	8.3
60°-70°	159.0	3.4
70°-80°	42.0	0.9
80°-90°	7.1	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°	2177.7	46.8
0°-40°	3333.4	71.6
0°-60°	4445.8	95.5
0°-90°	4654.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4654.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2763	2763	2763	2763	2763	
5°	2679	2759	2857	2759	2679	253
15°	2476	2687	2954	2687	2476	700
25°	2319	2531	2735	2531	2319	1064
35°	1870	1922	1824	1922	1870	1171
45°	1317	704	815	704	1317	1013
55°	749	260	275	260	749	668
65°	298	80	73	80	298	309
75°	84	16	14	16	84	95
85°	18	0	1	0	18	19
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°	2762.9	2762.9	2762.9	2762.9	2762.9	2762.9	2762.9	2762.9	2762.9	2762.9	2762.9
2.5°	2734.6	2731.9	2730.6	2733.3	2734.6	2740.0	2738.7	2741.3	2741.3	2742.7	2745.4
5°	2679.3	2677.9	2679.3	2679.3	2684.7	2690.1	2688.7	2692.8	2695.5	2702.2	2704.9
7.5°	2628.1	2628.1	2626.7	2632.0	2634.8	2642.9	2641.5	2648.3	2652.3	2659.0	2668.5
10°	2575.4	2575.4	2576.7	2580.8	2582.2	2594.3	2594.3	2603.7	2609.1	2615.9	2628.1
12.5°	2524.2	2524.2	2532.3	2529.5	2534.9	2544.4	2548.4	2557.9	2566.0	2579.5	2591.6
15°	2475.6	2475.6	2478.3	2485.0	2489.1	2501.2	2507.9	2518.8	2528.2	2541.7	2559.2
17.5°	2433.8	2432.4	2433.8	2441.9	2450.0	2460.7	2466.1	2479.6	2489.1	2506.6	2522.8
20°	2391.9	2394.7	2394.7	2401.4	2406.8	2420.3	2425.6	2440.5	2451.3	2467.5	2486.4
22.5°	2355.5	2354.2	2354.2	2363.6	2367.7	2379.8	2385.2	2398.7	2410.8	2424.3	2441.9
25°	2319.1	2316.4	2321.8	2323.1	2325.8	2339.3	2343.4	2352.8	2365.0	2377.1	2394.7
27.5°	2265.1	2262.4	2263.8	2269.2	2273.2	2284.0	2286.7	2296.2	2305.6	2316.4	2331.2
30°	2161.2	2158.5	2157.2	2166.7	2170.7	2178.8	2182.8	2199.0	2201.7	2213.9	2224.6
32.5°	2023.6	2022.3	2025.0	2033.1	2037.1	2047.9	2053.3	2062.8	2069.5	2076.3	2087.0
35°	1869.8	1867.1	1869.8	1878.0	1878.0	1887.4	1891.5	1895.4	1894.1	1895.4	1892.8
37.5°	1726.9	1725.5	1726.9	1730.9	1726.9	1730.9	1726.9	1718.8	1703.9	1687.7	1671.5
40°	1605.4	1606.7	1598.7	1604.1	1589.2	1586.5	1571.7	1551.4	1521.8	1489.4	1443.5
42.5°	1475.9	1471.9	1466.5	1469.1	1457.0	1447.5	1423.3	1397.7	1359.9	1305.9	1250.6
45°	1316.7	1315.4	1312.7	1311.3	1303.2	1293.8	1273.5	1243.9	1202.0	1146.7	1080.6
47.5°	1161.6	1157.5	1157.5	1158.8	1149.4	1148.1	1131.9	1106.3	1069.8	1015.9	947.1
50°	1013.1	1011.8	1014.5	1019.9	1013.1	1010.5	999.7	982.2	949.8	903.9	839.1
52.5°	879.6	878.3	881.0	887.7	885.0	887.7	876.9	863.4	841.8	797.3	740.7
55°	748.8	748.8	748.8	756.8	756.8	756.8	751.4	743.4	723.1	690.7	638.1
57.5°	612.5	613.8	621.9	623.3	621.9	624.7	623.3	615.2	601.7	578.8	538.3
60°	497.8	497.8	501.9	505.9	504.5	505.9	505.9	501.9	488.4	469.5	437.1
62.5°	393.9	398.0	395.3	398.0	403.4	398.0	395.3	392.6	383.2	371.0	344.0
65°	298.1	300.9	300.9	302.2	299.5	300.9	295.5	291.4	286.0	272.5	255.0
67.5°	226.7	226.7	226.7	226.7	225.3	224.0	222.6	218.6	209.1	203.7	184.8
70°	174.0	165.9	165.9	165.9	165.9	167.3	163.3	157.9	155.1	145.7	132.2
72.5°	116.0	118.7	116.0	116.0	113.3	114.7	109.3	106.6	103.9	98.5	90.4
75°	83.6	76.9	79.6	81.0	76.9	79.6	74.2	68.8	68.8	64.7	60.7
77.5°	54.0	52.6	54.0	55.3	54.0	52.6	49.9	47.2	47.2	45.9	41.8
80°	39.1	37.8	37.8	37.8	36.4	37.8	35.1	35.1	32.4	31.0	28.3
82.5°	25.7	25.7	24.3	25.7	24.3	25.7	21.6	21.6	21.6	20.2	17.5
85°	17.5	14.8	14.8	16.2	13.5	16.2	14.8	13.5	12.2	12.2	10.8
87.5°	8.1	9.4	8.1	9.4	8.1	8.1	9.4	8.1	8.1	5.4	5.4
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°	2762.9	2762.9	2762.9	2762.9	2762.9	2762.9	2762.9	2762.9	2762.9	2762.9	2762.9
2.5°	2749.4	2750.8	2750.8	2756.2	2758.9	2760.2	2760.2	2771.0	2767.0	2769.7	2772.4
5°	2710.3	2718.4	2721.1	2721.1	2735.9	2741.3	2746.7	2758.9	2760.2	2768.3	2777.8
7.5°	2672.5	2682.0	2687.4	2699.5	2709.0	2718.4	2734.6	2742.7	2750.8	2761.6	2773.7
10°	2636.1	2646.9	2657.7	2667.1	2682.0	2694.1	2704.9	2723.8	2733.3	2748.1	2764.3
12.5°	2601.1	2615.9	2625.3	2641.5	2657.7	2668.5	2684.7	2702.2	2717.1	2731.9	2750.8
15°	2570.0	2587.6	2598.3	2615.9	2633.4	2648.3	2665.8	2687.4	2698.2	2715.7	2733.3
17.5°	2536.3	2555.2	2568.7	2584.8	2606.4	2622.6	2637.5	2659.0	2672.5	2691.4	2711.7
20°	2501.2	2520.1	2536.3	2552.5	2574.1	2590.2	2607.8	2629.4	2644.2	2663.1	2679.3
22.5°	2459.4	2477.0	2494.4	2513.3	2534.9	2548.4	2568.7	2587.6	2603.7	2621.3	2637.5
25°	2405.4	2427.0	2440.5	2458.0	2475.6	2490.4	2512.0	2530.9	2544.4	2560.6	2575.4
27.5°	2342.0	2358.2	2369.0	2383.8	2401.4	2414.9	2431.0	2450.0	2463.5	2478.3	2489.1
30°	2234.1	2249.0	2258.4	2269.2	2286.7	2298.9	2312.4	2329.9	2339.3	2350.1	2359.6
32.5°	2092.4	2104.6	2110.0	2118.1	2130.2	2142.3	2153.2	2168.0	2172.0	2178.8	2178.8
35°	1887.4	1890.1	1888.7	1891.5	1896.8	1903.6	1913.0	1922.4	1927.8	1927.8	1923.8
37.5°	1647.2	1631.1	1613.5	1600.0	1596.0	1593.3	1598.7	1602.7	1608.1	1610.8	1604.1
40°	1397.7	1361.3	1322.1	1287.0	1262.7	1252.0	1247.9	1250.6	1250.6	1260.0	1260.0
42.5°	1183.2	1126.5	1068.5	1015.9	980.8	953.8	941.7	941.7	943.0	949.8	953.8
45°	1005.1	933.6	866.1	808.1	759.5	724.4	708.3	704.2	702.9	705.6	715.0
47.5°	868.8	794.6	724.4	653.0	601.7	566.6	551.8	546.4	541.0	546.4	547.7
50°	762.3	685.3	611.2	539.6	485.7	454.6	435.7	427.6	426.3	426.3	429.0
52.5°	665.1	593.6	519.4	446.6	389.9	360.2	342.7	338.6	333.2	338.6	338.6
55°	573.3	501.9	429.0	360.2	313.0	282.0	265.8	260.4	257.7	261.7	261.7
57.5°	473.6	412.8	345.4	283.3	236.1	214.5	202.3	195.6	194.2	197.0	194.2
60°	388.5	337.3	279.3	222.6	186.2	163.3	153.8	151.1	148.4	151.1	151.1
62.5°	307.6	264.4	217.2	174.0	143.0	126.8	116.0	116.0	114.7	114.7	116.0
65°	228.0	194.2	160.5	124.1	99.8	87.7	79.6	79.6	78.2	79.6	78.2
67.5°	165.9	143.0	116.0	90.4	71.5	64.7	59.4	55.3	58.0	55.3	54.0
70°	121.4	102.5	83.6	68.8	55.3	48.6	44.5	43.1	40.5	40.5	40.5
72.5°	81.0	68.8	56.6	44.5	36.4	29.7	28.3	25.7	22.9	24.3	27.0
75°	54.0	45.9	40.5	32.4	24.3	24.3	16.2	16.2	13.5	16.2	12.2
77.5°	37.8	31.0	24.3	20.2	16.2	14.8	10.8	10.8	9.4	9.4	9.4
80°	27.0	22.9	17.5	14.8	10.8	10.8	9.4	8.1	6.7	6.7	8.1
82.5°	16.2	12.2	12.2	10.8	6.7	5.4	4.1	5.4	2.7	2.7	2.7
85°	9.4	8.1	6.7	4.1	2.7	2.7	1.3	0.0	1.3	1.3	0.0
87.5°	5.4	2.7	2.7	1.3	0.0	1.3	1.3	0.0	0.0	0.0	2.7
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°	2762.9	2762.9	2762.9	2762.9	2762.9	2762.9	2762.9	2762.9	2762.9	2762.9	2762.9
2.5°	2779.1	2777.8	2780.5	2780.5	2788.6	2787.2	2791.3	2791.3	2788.6	2789.9	2795.3
5°	2788.6	2792.6	2800.7	2807.5	2819.6	2825.0	2831.7	2838.5	2839.8	2843.9	2847.9
7.5°	2788.6	2802.1	2811.5	2823.6	2839.8	2849.3	2864.1	2876.3	2881.7	2888.4	2896.5
10°	2783.1	2796.6	2814.2	2827.7	2847.9	2862.8	2877.6	2896.5	2904.6	2915.4	2926.2
12.5°	2772.4	2787.2	2806.1	2823.6	2846.6	2860.1	2878.9	2896.5	2908.6	2923.5	2935.6
15°	2756.2	2773.7	2791.3	2808.8	2833.1	2849.3	2866.8	2887.0	2899.2	2915.4	2926.2
17.5°	2730.6	2749.4	2765.7	2781.8	2804.7	2823.6	2839.8	2858.7	2870.9	2884.4	2899.2
20°	2699.5	2717.1	2734.6	2748.1	2771.0	2787.2	2804.7	2822.3	2831.7	2834.5	2857.4
22.5°	2660.4	2672.5	2686.0	2707.6	2721.1	2735.9	2752.2	2768.3	2777.8	2792.6	2800.7
25°	2595.6	2607.8	2622.6	2632.0	2648.3	2660.4	2676.6	2694.1	2699.5	2710.3	2718.4
27.5°	2505.3	2512.0	2518.8	2526.8	2536.3	2543.0	2552.5	2560.6	2566.0	2571.4	2576.7
30°	2362.2	2362.2	2362.2	2356.8	2360.9	2365.0	2366.3	2365.0	2365.0	2363.6	2363.6
32.5°	2173.4	2162.6	2150.4	2139.7	2135.6	2130.2	2127.5	2123.5	2116.7	2112.7	2114.0
35°	1918.4	1894.1	1879.3	1865.8	1855.0	1846.9	1842.9	1838.8	1837.5	1832.1	1826.6
37.5°	1600.0	1582.5	1571.7	1563.6	1554.2	1546.1	1547.4	1548.8	1552.8	1550.1	1551.4
40°	1262.7	1258.7	1262.7	1253.3	1250.6	1253.3	1260.0	1269.5	1274.9	1280.3	1289.7
42.5°	960.6	967.3	976.8	976.8	980.8	986.2	994.3	1009.1	1017.2	1026.6	1037.5
45°	723.1	731.2	743.4	747.4	750.1	756.8	766.3	778.4	783.8	791.9	801.3
47.5°	557.2	562.6	569.3	576.1	582.8	585.5	594.9	594.9	601.7	607.1	609.8
50°	434.4	439.8	445.2	449.2	452.0	456.0	458.7	462.7	464.1	466.8	468.1
52.5°	340.0	346.7	346.7	349.4	353.4	357.5	356.2	357.5	358.8	358.8	362.9
55°	265.8	265.8	269.8	269.8	272.5	271.2	272.5	272.5	272.5	272.5	273.9
57.5°	198.3	199.7	203.7	201.0	199.7	202.3	199.7	202.3	201.0	203.7	199.7
60°	152.4	152.4	153.8	153.8	155.1	155.1	155.1	153.8	153.8	152.4	152.4
62.5°	114.7	116.0	117.4	116.0	116.0	116.0	114.7	114.7	113.3	111.9	111.9
65°	76.9	75.6	78.2	75.6	76.9	76.9	75.6	76.9	72.9	74.2	72.9
67.5°	55.3	54.0	52.6	54.0	52.6	51.3	51.3	52.6	54.0	49.9	49.9
70°	36.4	37.8	36.4	37.8	39.1	39.1	37.8	36.4	37.8	35.1	36.4
72.5°	22.9	22.9	22.9	22.9	22.9	24.3	24.3	24.3	21.6	21.6	20.2
75°	10.8	14.8	12.2	10.8	14.8	14.8	13.5	13.5	12.2	12.2	12.2
77.5°	10.8	8.1	8.1	8.1	8.1	8.1	8.1	8.1	6.7	8.1	6.7
80°	5.4	5.4	5.4	4.1	5.4	5.4	6.7	5.4	5.4	4.1	6.7
82.5°	2.7	2.7	2.7	0.0	1.3	2.7	2.7	1.3	2.7	2.7	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: P244997

CATALOG NUMBER: LD8B50D010 ER8B50935 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2762.9	2762.9	2762.9	2762.9	2762.9	2762.9	2762.9	2762.9	2762.9	2762.9	2762.9
2.5°	2794.0	2792.6	2794.0	2795.3	2794.0	2792.6	2794.0	2795.3	2789.9	2788.6	2791.3
5°	2853.3	2853.3	2856.0	2857.4	2856.0	2853.3	2853.3	2847.9	2843.9	2839.8	2838.5
7.5°	2904.6	2907.3	2910.0	2911.3	2910.0	2907.3	2904.6	2896.5	2888.4	2881.7	2876.3
10°	2935.6	2939.7	2945.1	2947.7	2945.1	2939.7	2935.6	2926.2	2915.4	2904.6	2896.5
12.5°	2949.1	2953.2	2959.9	2958.6	2959.9	2953.2	2949.1	2935.6	2923.5	2908.6	2896.5
15°	2939.7	2945.1	2951.8	2954.5	2951.8	2945.1	2939.7	2926.2	2915.4	2899.2	2887.0
17.5°	2910.0	2918.1	2922.1	2926.2	2922.1	2918.1	2910.0	2899.2	2884.4	2870.9	2858.7
20°	2869.5	2874.9	2880.3	2881.7	2880.3	2874.9	2869.5	2857.4	2834.5	2831.7	2822.3
22.5°	2811.5	2815.6	2827.7	2823.6	2827.7	2815.6	2811.5	2800.7	2792.6	2777.8	2768.3
25°	2727.8	2731.9	2733.3	2734.6	2733.3	2731.9	2727.8	2718.4	2710.3	2699.5	2694.1
27.5°	2583.5	2583.5	2586.2	2587.6	2586.2	2583.5	2583.5	2576.7	2571.4	2566.0	2560.6
30°	2365.0	2365.0	2365.0	2371.7	2365.0	2365.0	2365.0	2363.6	2363.6	2365.0	2365.0
32.5°	2112.7	2110.0	2107.3	2110.0	2107.3	2110.0	2112.7	2114.0	2112.7	2116.7	2123.5
35°	1826.6	1825.3	1829.4	1824.0	1829.4	1825.3	1826.6	1826.6	1832.1	1837.5	1838.8
37.5°	1552.8	1550.1	1555.5	1550.1	1555.5	1550.1	1552.8	1551.4	1550.1	1552.8	1548.8
40°	1292.5	1295.1	1295.1	1305.9	1295.1	1295.1	1292.5	1289.7	1280.3	1274.9	1269.5
42.5°	1042.8	1051.0	1048.2	1056.3	1048.2	1051.0	1042.8	1037.5	1026.6	1017.2	1009.1
45°	806.7	812.2	812.2	814.8	812.2	812.2	806.7	801.3	791.9	783.8	778.4
47.5°	619.2	619.2	619.2	620.6	619.2	619.2	619.2	609.8	607.1	601.7	594.9
50°	470.8	472.2	473.6	474.9	473.6	472.2	470.8	468.1	466.8	464.1	462.7
52.5°	361.6	362.9	360.2	362.9	360.2	362.9	361.6	362.9	358.8	358.8	357.5
55°	273.9	272.5	273.9	275.2	273.9	272.5	273.9	273.9	272.5	272.5	272.5
57.5°	201.0	198.3	198.3	198.3	198.3	198.3	201.0	199.7	203.7	201.0	202.3
60°	149.8	151.1	151.1	152.4	151.1	151.1	149.8	152.4	152.4	153.8	153.8
62.5°	110.6	114.7	111.9	114.7	111.9	114.7	110.6	111.9	111.9	113.3	114.7
65°	71.5	71.5	71.5	72.9	71.5	71.5	71.5	72.9	74.2	72.9	76.9
67.5°	48.6	49.9	52.6	51.3	52.6	49.9	48.6	49.9	49.9	54.0	52.6
70°	39.1	35.1	35.1	39.1	35.1	35.1	39.1	36.4	35.1	37.8	36.4
72.5°	22.9	20.2	22.9	22.9	22.9	20.2	22.9	20.2	21.6	21.6	24.3
75°	12.2	10.8	9.4	13.5	9.4	10.8	12.2	12.2	12.2	12.2	13.5
77.5°	8.1	6.7	9.4	9.4	9.4	6.7	8.1	6.7	8.1	6.7	8.1
80°	4.1	5.4	4.1	6.7	4.1	5.4	4.1	6.7	4.1	5.4	5.4
82.5°	1.3	2.7	2.7	2.7	2.7	2.7	1.3	1.3	2.7	2.7	1.3
85°	0.0	2.7	1.3	1.3	1.3	2.7	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: P244997

CATALOG NUMBER: LD8B50D010 ER8B50935 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2762.9	2762.9	2762.9	2762.9	2762.9	2762.9	2762.9	2762.9	2762.9	2762.9	2762.9
2.5°	2791.3	2787.2	2788.6	2780.5	2780.5	2777.8	2779.1	2772.4	2769.7	2767.0	2771.0
5°	2831.7	2825.0	2819.6	2807.5	2800.7	2792.6	2788.6	2777.8	2768.3	2760.2	2758.9
7.5°	2864.1	2849.3	2839.8	2823.6	2811.5	2802.1	2788.6	2773.7	2761.6	2750.8	2742.7
10°	2877.6	2862.8	2847.9	2827.7	2814.2	2796.6	2783.1	2764.3	2748.1	2733.3	2723.8
12.5°	2878.9	2860.1	2846.6	2823.6	2806.1	2787.2	2772.4	2750.8	2731.9	2717.1	2702.2
15°	2866.8	2849.3	2833.1	2808.8	2791.3	2773.7	2756.2	2733.3	2715.7	2698.2	2687.4
17.5°	2839.8	2823.6	2804.7	2781.8	2765.7	2749.4	2730.6	2711.7	2691.4	2672.5	2659.0
20°	2804.7	2787.2	2771.0	2748.1	2734.6	2717.1	2699.5	2679.3	2663.1	2644.2	2629.4
22.5°	2752.2	2735.9	2721.1	2707.6	2686.0	2672.5	2660.4	2637.5	2621.3	2603.7	2587.6
25°	2676.6	2660.4	2648.3	2632.0	2622.6	2607.8	2595.6	2575.4	2560.6	2544.4	2530.9
27.5°	2552.5	2543.0	2536.3	2526.8	2518.8	2512.0	2505.3	2489.1	2478.3	2463.5	2450.0
30°	2366.3	2365.0	2360.9	2356.8	2362.2	2362.2	2362.2	2359.6	2350.1	2339.3	2329.9
32.5°	2127.5	2130.2	2135.6	2139.7	2150.4	2162.6	2173.4	2178.8	2178.8	2172.0	2168.0
35°	1842.9	1846.9	1855.0	1865.8	1879.3	1894.1	1918.4	1923.8	1927.8	1927.8	1922.4
37.5°	1547.4	1546.1	1554.2	1563.6	1571.7	1582.5	1600.0	1604.1	1610.8	1608.1	1602.7
40°	1260.0	1253.3	1250.6	1253.3	1262.7	1258.7	1262.7	1260.0	1260.0	1250.6	1250.6
42.5°	994.3	986.2	980.8	976.8	976.8	967.3	960.6	953.8	949.8	943.0	941.7
45°	766.3	756.8	750.1	747.4	743.4	731.2	723.1	715.0	705.6	702.9	704.2
47.5°	594.9	585.5	582.8	576.1	569.3	562.6	557.2	547.7	546.4	541.0	546.4
50°	458.7	456.0	452.0	449.2	445.2	439.8	434.4	429.0	426.3	426.3	427.6
52.5°	356.2	357.5	353.4	349.4	346.7	346.7	340.0	338.6	338.6	333.2	338.6
55°	272.5	271.2	272.5	269.8	269.8	265.8	265.8	261.7	261.7	257.7	260.4
57.5°	199.7	202.3	199.7	201.0	203.7	199.7	198.3	194.2	197.0	194.2	195.6
60°	155.1	155.1	155.1	153.8	153.8	152.4	152.4	151.1	151.1	148.4	151.1
62.5°	114.7	116.0	116.0	116.0	117.4	116.0	114.7	116.0	114.7	114.7	116.0
65°	75.6	76.9	76.9	75.6	78.2	75.6	76.9	78.2	79.6	78.2	79.6
67.5°	51.3	51.3	52.6	54.0	52.6	54.0	55.3	54.0	55.3	58.0	55.3
70°	37.8	39.1	39.1	37.8	36.4	37.8	36.4	40.5	40.5	40.5	43.1
72.5°	24.3	24.3	22.9	22.9	22.9	22.9	22.9	27.0	24.3	22.9	25.7
75°	13.5	14.8	14.8	10.8	12.2	14.8	10.8	12.2	16.2	13.5	16.2
77.5°	8.1	8.1	8.1	8.1	8.1	8.1	10.8	9.4	9.4	9.4	10.8
80°	6.7	5.4	5.4	4.1	5.4	5.4	5.4	8.1	6.7	6.7	8.1
82.5°	2.7	2.7	1.3	0.0	2.7	2.7	2.7	2.7	2.7	2.7	5.4
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	2.7	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: P244997

CATALOG NUMBER: LD8B50D010 ER8B50935 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2762.9	2762.9	2762.9	2762.9	2762.9	2762.9	2762.9	2762.9	2762.9	2762.9	2762.9
2.5°	2760.2	2760.2	2758.9	2756.2	2750.8	2750.8	2749.4	2745.4	2742.7	2741.3	2741.3
5°	2746.7	2741.3	2735.9	2721.1	2721.1	2718.4	2710.3	2704.9	2702.2	2695.5	2692.8
7.5°	2734.6	2718.4	2709.0	2699.5	2687.4	2682.0	2672.5	2668.5	2659.0	2652.3	2648.3
10°	2704.9	2694.1	2682.0	2667.1	2657.7	2646.9	2636.1	2628.1	2615.9	2609.1	2603.7
12.5°	2684.7	2668.5	2657.7	2641.5	2625.3	2615.9	2601.1	2591.6	2579.5	2566.0	2557.9
15°	2665.8	2648.3	2633.4	2615.9	2598.3	2587.6	2570.0	2559.2	2541.7	2528.2	2518.8
17.5°	2637.5	2622.6	2606.4	2584.8	2568.7	2555.2	2536.3	2522.8	2506.6	2489.1	2479.6
20°	2607.8	2590.2	2574.1	2552.5	2536.3	2520.1	2501.2	2486.4	2467.5	2451.3	2440.5
22.5°	2568.7	2548.4	2534.9	2513.3	2494.4	2477.0	2459.4	2441.9	2424.3	2410.8	2398.7
25°	2512.0	2490.4	2475.6	2458.0	2440.5	2427.0	2405.4	2394.7	2377.1	2365.0	2352.8
27.5°	2431.0	2414.9	2401.4	2383.8	2369.0	2358.2	2342.0	2331.2	2316.4	2305.6	2296.2
30°	2312.4	2298.9	2286.7	2269.2	2258.4	2249.0	2234.1	2224.6	2213.9	2201.7	2199.0
32.5°	2153.2	2142.3	2130.2	2118.1	2110.0	2104.6	2092.4	2087.0	2076.3	2069.5	2062.8
35°	1913.0	1903.6	1896.8	1891.5	1888.7	1890.1	1887.4	1892.8	1895.4	1894.1	1895.4
37.5°	1598.7	1593.3	1596.0	1600.0	1613.5	1631.1	1647.2	1671.5	1687.7	1703.9	1718.8
40°	1247.9	1252.0	1262.7	1287.0	1322.1	1361.3	1397.7	1443.5	1489.4	1521.8	1551.4
42.5°	941.7	953.8	980.8	1015.9	1068.5	1126.5	1183.2	1250.6	1305.9	1359.9	1397.7
45°	708.3	724.4	759.5	808.1	866.1	933.6	1005.1	1080.6	1146.7	1202.0	1243.9
47.5°	551.8	566.6	601.7	653.0	724.4	794.6	868.8	947.1	1015.9	1069.8	1106.3
50°	435.7	454.6	485.7	539.6	611.2	685.3	762.3	839.1	903.9	949.8	982.2
52.5°	342.7	360.2	389.9	446.6	519.4	593.6	665.1	740.7	797.3	841.8	863.4
55°	265.8	282.0	313.0	360.2	429.0	501.9	573.3	638.1	690.7	723.1	743.4
57.5°	202.3	214.5	236.1	283.3	345.4	412.8	473.6	538.3	578.8	601.7	615.2
60°	153.8	163.3	186.2	222.6	279.3	337.3	388.5	437.1	469.5	488.4	501.9
62.5°	116.0	126.8	143.0	174.0	217.2	264.4	307.6	344.0	371.0	383.2	392.6
65°	79.6	87.7	99.8	124.1	160.5	194.2	228.0	255.0	272.5	286.0	291.4
67.5°	59.4	64.7	71.5	90.4	116.0	143.0	165.9	184.8	203.7	209.1	218.6
70°	44.5	48.6	55.3	68.8	83.6	102.5	121.4	132.2	145.7	155.1	157.9
72.5°	28.3	29.7	36.4	44.5	56.6	68.8	81.0	90.4	98.5	103.9	106.6
75°	16.2	24.3	24.3	32.4	40.5	45.9	54.0	60.7	64.7	68.8	68.8
77.5°	10.8	14.8	16.2	20.2	24.3	31.0	37.8	41.8	45.9	47.2	47.2
80°	9.4	10.8	10.8	14.8	17.5	22.9	27.0	28.3	31.0	32.4	35.1
82.5°	4.1	5.4	6.7	10.8	12.2	12.2	16.2	17.5	20.2	21.6	21.6
85°	1.3	2.7	2.7	4.1	6.7	8.1	9.4	10.8	12.2	12.2	13.5
87.5°	1.3	1.3	0.0	1.3	2.7	2.7	5.4	5.4	5.4	8.1	8.1
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: P244997

CATALOG NUMBER: LD8B50D010 ER8B50935 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2762.9	2762.9	2762.9	2762.9	2762.9	2762.9	2762.9
2.5°	2738.7	2740.0	2734.6	2733.3	2730.6	2731.9	2734.6
5°	2688.7	2690.1	2684.7	2679.3	2679.3	2677.9	2679.3
7.5°	2641.5	2642.9	2634.8	2632.0	2626.7	2628.1	2628.1
10°	2594.3	2594.3	2582.2	2580.8	2576.7	2575.4	2575.4
12.5°	2548.4	2544.4	2534.9	2529.5	2532.3	2524.2	2524.2
15°	2507.9	2501.2	2489.1	2485.0	2478.3	2475.6	2475.6
17.5°	2466.1	2460.7	2450.0	2441.9	2433.8	2432.4	2433.8
20°	2425.6	2420.3	2406.8	2401.4	2394.7	2394.7	2391.9
22.5°	2385.2	2379.8	2367.7	2363.6	2354.2	2354.2	2355.5
25°	2343.4	2339.3	2325.8	2323.1	2321.8	2316.4	2319.1
27.5°	2286.7	2284.0	2273.2	2269.2	2263.8	2262.4	2265.1
30°	2182.8	2178.8	2170.7	2166.7	2157.2	2158.5	2161.2
32.5°	2053.3	2047.9	2037.1	2033.1	2025.0	2022.3	2023.6
35°	1891.5	1887.4	1878.0	1878.0	1869.8	1867.1	1869.8
37.5°	1726.9	1730.9	1726.9	1730.9	1726.9	1725.5	1726.9
40°	1571.7	1586.5	1589.2	1604.1	1598.7	1606.7	1605.4
42.5°	1423.3	1447.5	1457.0	1469.1	1466.5	1471.9	1475.9
45°	1273.5	1293.8	1303.2	1311.3	1312.7	1315.4	1316.7
47.5°	1131.9	1148.1	1149.4	1158.8	1157.5	1157.5	1161.6
50°	999.7	1010.5	1013.1	1019.9	1014.5	1011.8	1013.1
52.5°	876.9	887.7	885.0	887.7	881.0	878.3	879.6
55°	751.4	756.8	756.8	756.8	748.8	748.8	748.8
57.5°	623.3	624.7	621.9	623.3	621.9	613.8	612.5
60°	505.9	505.9	504.5	505.9	501.9	497.8	497.8
62.5°	395.3	398.0	403.4	398.0	395.3	398.0	393.9
65°	295.5	300.9	299.5	302.2	300.9	300.9	298.1
67.5°	222.6	224.0	225.3	226.7	226.7	226.7	226.7
70°	163.3	167.3	165.9	165.9	165.9	165.9	174.0
72.5°	109.3	114.7	113.3	116.0	116.0	118.7	116.0
75°	74.2	79.6	76.9	81.0	79.6	76.9	83.6
77.5°	49.9	52.6	54.0	55.3	54.0	52.6	54.0
80°	35.1	37.8	36.4	37.8	37.8	37.8	39.1
82.5°	21.6	25.7	24.3	25.7	24.3	25.7	25.7
85°	14.8	16.2	13.5	16.2	14.8	14.8	17.5
87.5°	9.4	8.1	8.1	9.4	8.1	9.4	8.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)