

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: P248749

Luminaire Tested: **LD8B60D010 ER8B609730 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248749
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: LD8B60D010 ER8B609730 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4555.0 lumens
Efficiency: N/A
Efficacy: 76.6 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

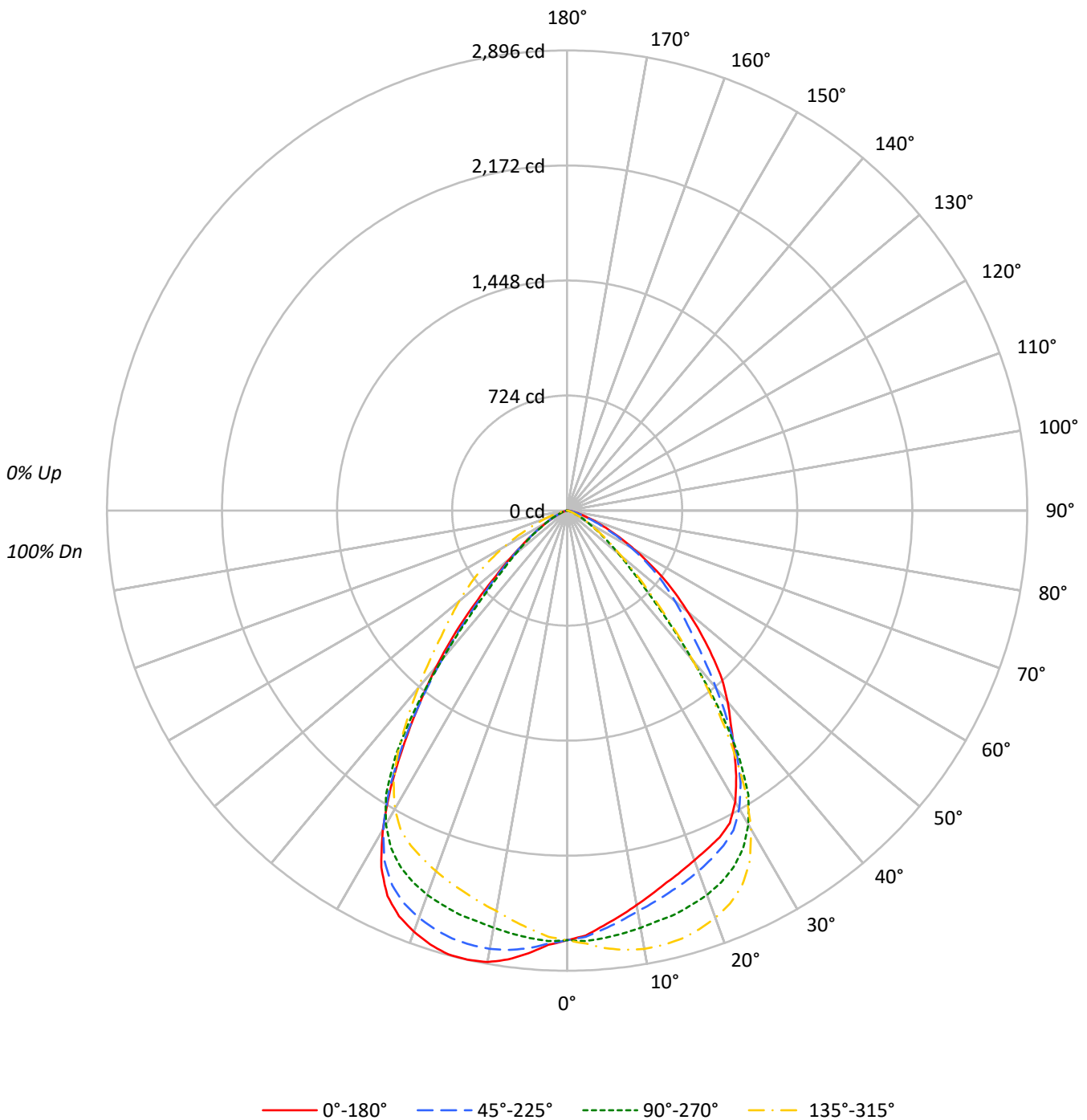
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	257.4	5.7
10°-20°	745.3	16.4
20°-30°	1128.6	24.8
30°-40°	1131.1	24.8
40°-50°	710.3	15.6
50°-60°	378.5	8.3
60°-70°	155.7	3.4
70°-80°	41.1	0.9
80°-90°	7.0	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°	2131.3	46.8
0°-40°	3262.5	71.6
0°-60°	4351.3	95.5
0°-90°	4555.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4555.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2704	2704	2704	2704	2704	
5°	2622	2700	2797	2700	2622	247
15°	2423	2630	2892	2630	2423	685
25°	2270	2477	2676	2477	2270	1041
35°	1830	1882	1785	1882	1830	1147
45°	1289	689	798	689	1289	991
55°	733	255	269	255	733	653
65°	292	78	71	78	292	303
75°	82	16	13	16	82	93
85°	17	0	1	0	17	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°	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2
2.5°	2676.4	2673.8	2672.5	2675.1	2676.4	2681.7	2680.4	2683.0	2683.0	2684.4	2687.0
5°	2622.3	2621.0	2622.3	2622.3	2627.6	2632.9	2631.5	2635.5	2638.1	2644.8	2647.4
7.5°	2572.1	2572.1	2570.8	2576.1	2578.7	2586.7	2585.3	2591.9	2595.9	2602.5	2611.7
10°	2520.6	2520.6	2521.9	2525.9	2527.3	2539.1	2539.1	2548.3	2553.6	2560.2	2572.1
12.5°	2470.5	2470.5	2478.4	2475.7	2481.0	2490.2	2494.2	2503.5	2511.4	2524.6	2536.5
15°	2422.9	2422.9	2425.6	2432.1	2436.1	2448.0	2454.6	2465.2	2474.4	2487.6	2504.8
17.5°	2382.0	2380.7	2382.0	2389.9	2397.9	2408.4	2413.7	2426.9	2436.1	2453.3	2469.2
20°	2341.1	2343.7	2343.7	2350.3	2355.6	2368.8	2374.0	2388.6	2399.2	2415.0	2433.5
22.5°	2305.4	2304.1	2304.1	2313.3	2317.3	2329.2	2334.4	2347.6	2359.5	2372.7	2389.9
25°	2269.8	2267.1	2272.4	2273.7	2276.3	2289.5	2293.5	2302.7	2314.6	2326.5	2343.7
27.5°	2216.9	2214.3	2215.6	2220.9	2224.9	2235.4	2238.1	2247.3	2256.5	2267.1	2281.7
30°	2115.2	2112.6	2111.3	2120.6	2124.5	2132.4	2136.4	2152.3	2154.9	2166.8	2177.3
32.5°	1980.6	1979.3	1981.9	1989.8	1993.8	2004.4	2009.6	2018.9	2025.5	2032.1	2042.6
35°	1830.1	1827.4	1830.1	1838.0	1838.0	1847.2	1851.2	1855.1	1853.8	1855.1	1852.5
37.5°	1690.1	1688.8	1690.1	1694.0	1690.1	1694.0	1690.1	1682.2	1667.7	1651.8	1635.9
40°	1571.3	1572.6	1564.7	1570.0	1555.4	1552.8	1538.3	1518.4	1489.4	1457.7	1412.8
42.5°	1444.5	1440.6	1435.3	1437.9	1426.0	1416.8	1393.0	1367.9	1330.9	1278.2	1224.0
45°	1288.7	1287.4	1284.7	1283.4	1275.5	1266.3	1246.4	1217.4	1176.5	1122.3	1057.6
47.5°	1136.9	1132.9	1132.9	1134.2	1125.0	1123.7	1107.8	1082.7	1047.1	994.2	926.9
50°	991.6	990.3	992.9	998.2	991.6	989.0	978.4	961.3	929.6	884.7	821.3
52.5°	860.9	859.6	862.2	868.8	866.2	868.8	858.3	845.1	823.9	780.3	724.9
55°	732.8	732.8	732.8	740.7	740.7	740.7	735.4	727.6	707.7	676.0	624.6
57.5°	599.5	600.8	608.7	610.0	608.7	611.4	610.0	602.1	588.9	566.5	526.9
60°	487.2	487.2	491.2	495.2	493.8	495.2	495.2	491.2	478.0	459.5	427.8
62.5°	385.5	389.5	386.9	389.5	394.8	389.5	386.9	384.2	375.0	363.1	336.7
65°	291.8	294.5	294.5	295.8	293.1	294.5	289.2	285.2	279.9	266.7	249.6
67.5°	221.9	221.9	221.9	221.9	220.5	219.2	217.9	213.9	204.7	199.4	180.9
70°	170.3	162.4	162.4	162.4	162.4	163.8	159.8	154.5	151.8	142.6	129.4
72.5°	113.5	116.2	113.5	113.5	110.9	112.2	107.0	104.3	101.7	96.4	88.5
75°	81.8	75.3	77.9	79.2	75.3	77.9	72.6	67.3	67.3	63.4	59.4
77.5°	52.8	51.5	52.8	54.1	52.8	51.5	48.9	46.2	46.2	44.9	40.9
80°	38.3	37.0	37.0	37.0	35.7	37.0	34.3	34.3	31.7	30.4	27.7
82.5°	25.1	25.1	23.8	25.1	23.8	25.1	21.1	21.1	21.1	19.8	17.2
85°	17.2	14.5	14.5	15.9	13.2	15.9	14.5	13.2	11.9	11.9	10.5
87.5°	7.9	9.2	7.9	9.2	7.9	7.9	9.2	7.9	7.9	5.3	5.3
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°	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2
2.5°	2691.0	2692.3	2692.3	2697.6	2700.2	2701.5	2701.5	2712.1	2708.1	2710.8	2713.4
5°	2652.7	2660.6	2663.2	2663.2	2677.7	2683.0	2688.3	2700.2	2701.5	2709.4	2718.7
7.5°	2615.7	2624.9	2630.2	2642.1	2651.3	2660.6	2676.4	2684.4	2692.3	2702.9	2714.7
10°	2580.0	2590.6	2601.2	2610.4	2624.9	2636.8	2647.4	2665.8	2675.1	2689.6	2705.5
12.5°	2545.7	2560.2	2569.5	2585.3	2601.2	2611.7	2627.6	2644.8	2659.3	2673.8	2692.3
15°	2515.4	2532.5	2543.1	2560.2	2577.4	2591.9	2609.1	2630.2	2640.8	2658.0	2675.1
17.5°	2482.3	2500.8	2514.0	2529.9	2551.0	2566.8	2581.4	2602.5	2615.7	2634.2	2654.0
20°	2448.0	2466.5	2482.3	2498.2	2519.3	2535.1	2552.3	2573.5	2588.0	2606.4	2622.3
22.5°	2407.1	2424.3	2441.4	2459.9	2481.0	2494.2	2514.0	2532.5	2548.3	2565.5	2581.4
25°	2354.3	2375.4	2388.6	2405.7	2422.9	2437.4	2458.6	2477.0	2490.2	2506.1	2520.6
27.5°	2292.2	2308.1	2318.6	2333.1	2350.3	2363.5	2379.3	2397.9	2411.1	2425.6	2436.1
30°	2186.5	2201.1	2210.3	2220.9	2238.1	2250.0	2263.2	2280.3	2289.5	2300.1	2309.4
32.5°	2047.9	2059.8	2065.1	2073.0	2084.9	2096.8	2107.4	2121.9	2125.8	2132.4	2132.4
35°	1847.2	1849.9	1848.6	1851.2	1856.5	1863.1	1872.3	1881.5	1886.8	1886.8	1882.9
37.5°	1612.2	1596.4	1579.2	1566.0	1562.0	1559.4	1564.7	1568.6	1573.9	1576.5	1570.0
40°	1367.9	1332.3	1294.0	1259.6	1235.9	1225.3	1221.4	1224.0	1224.0	1233.2	1233.2
42.5°	1158.0	1102.5	1045.8	994.2	959.9	933.5	921.6	921.6	922.9	929.6	933.5
45°	983.7	913.7	847.7	790.9	743.4	709.0	693.2	689.2	687.9	690.6	699.8
47.5°	850.3	777.7	709.0	639.1	588.9	554.6	540.1	534.7	529.5	534.7	536.1
50°	746.0	670.8	598.2	528.2	475.3	445.0	426.5	418.5	417.2	417.2	419.9
52.5°	650.9	581.0	508.4	437.1	381.6	352.6	335.4	331.4	326.1	331.4	331.4
55°	561.1	491.2	419.9	352.6	306.3	276.0	260.1	254.8	252.2	256.1	256.1
57.5°	463.5	404.0	338.0	277.3	231.1	209.9	198.0	191.5	190.1	192.8	190.1
60°	380.3	330.1	273.3	217.9	182.2	159.8	150.5	147.9	145.2	147.9	147.9
62.5°	301.0	258.8	212.6	170.3	139.9	124.1	113.5	113.5	112.2	112.2	113.5
65°	223.2	190.1	157.1	121.5	97.7	85.8	77.9	77.9	76.6	77.9	76.6
67.5°	162.4	139.9	113.5	88.5	70.0	63.4	58.1	54.1	56.8	54.1	52.8
70°	118.9	100.3	81.8	67.3	54.1	47.6	43.6	42.2	39.6	39.6	39.6
72.5°	79.2	67.3	55.4	43.6	35.7	29.0	27.7	25.1	22.4	23.8	26.4
75°	52.8	44.9	39.6	31.7	23.8	23.8	15.9	15.9	13.2	15.9	11.9
77.5°	37.0	30.4	23.8	19.8	15.9	14.5	10.5	10.5	9.2	9.2	9.2
80°	26.4	22.4	17.2	14.5	10.5	10.5	9.2	7.9	6.6	6.6	7.9
82.5°	15.9	11.9	11.9	10.5	6.6	5.3	4.0	5.3	2.7	2.7	2.7
85°	9.2	7.9	6.6	4.0	2.7	2.7	1.3	0.0	1.3	1.3	0.0
87.5°	5.3	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°	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2
2.5°	2720.0	2718.7	2721.3	2721.3	2729.3	2727.9	2731.9	2731.9	2729.3	2730.6	2735.8
5°	2729.3	2733.2	2741.1	2747.7	2759.6	2764.9	2771.5	2778.1	2779.4	2783.4	2787.4
7.5°	2729.3	2742.5	2751.7	2763.6	2779.4	2788.7	2803.2	2815.1	2820.4	2826.9	2834.9
10°	2723.9	2737.1	2754.3	2767.5	2787.4	2801.9	2816.4	2834.9	2842.8	2853.3	2863.9
12.5°	2713.4	2727.9	2746.4	2763.6	2786.0	2799.2	2817.7	2834.9	2846.8	2861.3	2873.2
15°	2697.6	2714.7	2731.9	2749.1	2772.8	2788.7	2805.8	2825.6	2837.5	2853.3	2863.9
17.5°	2672.5	2691.0	2706.8	2722.6	2745.1	2763.6	2779.4	2797.9	2809.8	2823.0	2837.5
20°	2642.1	2659.3	2676.4	2689.6	2712.1	2727.9	2745.1	2762.3	2771.5	2774.2	2796.6
22.5°	2603.8	2615.7	2628.9	2650.0	2663.2	2677.7	2693.6	2709.4	2718.7	2733.2	2741.1
25°	2540.4	2552.3	2566.8	2576.1	2591.9	2603.8	2619.6	2636.8	2642.1	2652.7	2660.6
27.5°	2452.0	2458.6	2465.2	2473.1	2482.3	2488.9	2498.2	2506.1	2511.4	2516.7	2521.9
30°	2312.0	2312.0	2312.0	2306.7	2310.7	2314.6	2315.9	2314.6	2314.6	2313.3	2313.3
32.5°	2127.1	2116.6	2104.7	2094.2	2090.2	2084.9	2082.3	2078.3	2071.7	2067.7	2069.0
35°	1877.6	1853.8	1839.3	1826.1	1815.6	1807.6	1803.7	1799.7	1798.4	1793.1	1787.8
37.5°	1566.0	1548.8	1538.3	1530.3	1521.1	1513.2	1514.5	1515.8	1519.7	1517.1	1518.4
40°	1235.9	1231.9	1235.9	1226.6	1224.0	1226.6	1233.2	1242.5	1247.8	1253.1	1262.3
42.5°	940.1	946.7	956.0	956.0	959.9	965.2	973.1	987.7	995.6	1004.8	1015.4
45°	707.7	715.7	727.6	731.5	734.1	740.7	750.0	761.9	767.1	775.1	784.3
47.5°	545.3	550.6	557.2	563.8	570.4	573.0	582.3	582.3	588.9	594.2	596.8
50°	425.2	430.4	435.7	439.7	442.3	446.3	448.9	452.9	454.2	456.9	458.2
52.5°	332.7	339.4	339.4	342.0	345.9	349.9	348.6	349.9	351.2	351.2	355.2
55°	260.1	260.1	264.1	264.1	266.7	265.4	266.7	266.7	266.7	266.7	268.0
57.5°	194.1	195.4	199.4	196.7	195.4	198.0	195.4	198.0	196.7	199.4	195.4
60°	149.2	149.2	150.5	150.5	151.8	151.8	151.8	150.5	150.5	149.2	149.2
62.5°	112.2	113.5	114.9	113.5	113.5	113.5	112.2	112.2	110.9	109.6	109.6
65°	75.3	74.0	76.6	74.0	75.3	75.3	74.0	75.3	71.3	72.6	71.3
67.5°	54.1	52.8	51.5	52.8	51.5	50.2	50.2	51.5	52.8	48.9	48.9
70°	35.7	37.0	35.7	37.0	38.3	38.3	37.0	35.7	37.0	34.3	35.7
72.5°	22.4	22.4	22.4	22.4	22.4	23.8	23.8	23.8	21.1	21.1	19.8
75°	10.5	14.5	11.9	10.5	14.5	14.5	13.2	13.2	11.9	11.9	11.9
77.5°	10.5	7.9	7.9	7.9	7.9	7.9	7.9	7.9	6.6	7.9	6.6
80°	5.3	5.3	5.3	4.0	5.3	5.3	6.6	5.3	5.3	4.0	6.6
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: P248749

CATALOG NUMBER: LD8B60D010 ER8B609730 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2
2.5°	2734.5	2733.2	2734.5	2735.8	2734.5	2733.2	2734.5	2735.8	2730.6	2729.3	2731.9
5°	2792.6	2792.6	2795.2	2796.6	2795.2	2792.6	2792.6	2787.4	2783.4	2779.4	2778.1
7.5°	2842.8	2845.5	2848.1	2849.4	2848.1	2845.5	2842.8	2834.9	2826.9	2820.4	2815.1
10°	2873.2	2877.2	2882.4	2885.0	2882.4	2877.2	2873.2	2863.9	2853.3	2842.8	2834.9
12.5°	2886.4	2890.4	2896.9	2895.6	2896.9	2890.4	2886.4	2873.2	2861.3	2846.8	2834.9
15°	2877.2	2882.4	2889.0	2891.7	2889.0	2882.4	2877.2	2863.9	2853.3	2837.5	2825.6
17.5°	2848.1	2856.0	2860.0	2863.9	2860.0	2856.0	2848.1	2837.5	2823.0	2809.8	2797.9
20°	2808.5	2813.8	2819.1	2820.4	2819.1	2813.8	2808.5	2796.6	2774.2	2771.5	2762.3
22.5°	2751.7	2755.7	2767.5	2763.6	2767.5	2755.7	2751.7	2741.1	2733.2	2718.7	2709.4
25°	2669.8	2673.8	2675.1	2676.4	2675.1	2673.8	2669.8	2660.6	2652.7	2642.1	2636.8
27.5°	2528.6	2528.6	2531.2	2532.5	2531.2	2528.6	2528.6	2521.9	2516.7	2511.4	2506.1
30°	2314.6	2314.6	2314.6	2321.3	2314.6	2314.6	2314.6	2313.3	2313.3	2314.6	2314.6
32.5°	2067.7	2065.1	2062.5	2065.1	2062.5	2065.1	2067.7	2069.0	2067.7	2071.7	2078.3
35°	1787.8	1786.5	1790.5	1785.2	1790.5	1786.5	1787.8	1787.8	1793.1	1798.4	1799.7
37.5°	1519.7	1517.1	1522.4	1517.1	1522.4	1517.1	1519.7	1518.4	1517.1	1519.7	1515.8
40°	1265.0	1267.6	1267.6	1278.2	1267.6	1267.6	1265.0	1262.3	1253.1	1247.8	1242.5
42.5°	1020.7	1028.6	1025.9	1033.9	1025.9	1028.6	1020.7	1015.4	1004.8	995.6	987.7
45°	789.6	794.9	794.9	797.5	794.9	794.9	789.6	784.3	775.1	767.1	761.9
47.5°	606.0	606.0	606.0	607.4	606.0	606.0	606.0	596.8	594.2	588.9	582.3
50°	460.8	462.1	463.5	464.8	463.5	462.1	460.8	458.2	456.9	454.2	452.9
52.5°	353.9	355.2	352.6	355.2	352.6	355.2	353.9	355.2	351.2	351.2	349.9
55°	268.0	266.7	268.0	269.4	268.0	266.7	268.0	268.0	266.7	266.7	266.7
57.5°	196.7	194.1	194.1	194.1	194.1	194.1	196.7	195.4	199.4	196.7	198.0
60°	146.6	147.9	147.9	149.2	147.9	147.9	146.6	149.2	149.2	150.5	150.5
62.5°	108.3	112.2	109.6	112.2	109.6	112.2	108.3	109.6	109.6	110.9	112.2
65°	70.0	70.0	70.0	71.3	70.0	70.0	70.0	71.3	72.6	71.3	75.3
67.5°	47.6	48.9	51.5	50.2	51.5	48.9	47.6	48.9	48.9	52.8	51.5
70°	38.3	34.3	34.3	38.3	34.3	34.3	38.3	35.7	34.3	37.0	35.7
72.5°	22.4	19.8	22.4	22.4	22.4	19.8	22.4	19.8	21.1	21.1	23.8
75°	11.9	10.5	9.2	13.2	9.2	10.5	11.9	11.9	11.9	11.9	13.2
77.5°	7.9	6.6	9.2	9.2	9.2	6.6	7.9	6.6	7.9	6.6	7.9
80°	4.0	5.3	4.0	6.6	4.0	5.3	4.0	6.6	4.0	5.3	5.3
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: P248749

CATALOG NUMBER: LD8B60D010 ER8B609730 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2
2.5°	2731.9	2727.9	2729.3	2721.3	2721.3	2718.7	2720.0	2713.4	2710.8	2708.1	2712.1
5°	2771.5	2764.9	2759.6	2747.7	2741.1	2733.2	2729.3	2718.7	2709.4	2701.5	2700.2
7.5°	2803.2	2788.7	2779.4	2763.6	2751.7	2742.5	2729.3	2714.7	2702.9	2692.3	2684.4
10°	2816.4	2801.9	2787.4	2767.5	2754.3	2737.1	2723.9	2705.5	2689.6	2675.1	2665.8
12.5°	2817.7	2799.2	2786.0	2763.6	2746.4	2727.9	2713.4	2692.3	2673.8	2659.3	2644.8
15°	2805.8	2788.7	2772.8	2749.1	2731.9	2714.7	2697.6	2675.1	2658.0	2640.8	2630.2
17.5°	2779.4	2763.6	2745.1	2722.6	2706.8	2691.0	2672.5	2654.0	2634.2	2615.7	2602.5
20°	2745.1	2727.9	2712.1	2689.6	2676.4	2659.3	2642.1	2622.3	2606.4	2588.0	2573.5
22.5°	2693.6	2677.7	2663.2	2650.0	2628.9	2615.7	2603.8	2581.4	2565.5	2548.3	2532.5
25°	2619.6	2603.8	2591.9	2576.1	2566.8	2552.3	2540.4	2520.6	2506.1	2490.2	2477.0
27.5°	2498.2	2488.9	2482.3	2473.1	2465.2	2458.6	2452.0	2436.1	2425.6	2411.1	2397.9
30°	2315.9	2314.6	2310.7	2306.7	2312.0	2312.0	2312.0	2309.4	2300.1	2289.5	2280.3
32.5°	2082.3	2084.9	2090.2	2094.2	2104.7	2116.6	2127.1	2132.4	2132.4	2125.8	2121.9
35°	1803.7	1807.6	1815.6	1826.1	1839.3	1853.8	1877.6	1882.9	1886.8	1886.8	1881.5
37.5°	1514.5	1513.2	1521.1	1530.3	1538.3	1548.8	1566.0	1570.0	1576.5	1573.9	1568.6
40°	1233.2	1226.6	1224.0	1226.6	1235.9	1231.9	1235.9	1233.2	1233.2	1224.0	1224.0
42.5°	973.1	965.2	959.9	956.0	956.0	946.7	940.1	933.5	929.6	922.9	921.6
45°	750.0	740.7	734.1	731.5	727.6	715.7	707.7	699.8	690.6	687.9	689.2
47.5°	582.3	573.0	570.4	563.8	557.2	550.6	545.3	536.1	534.7	529.5	534.7
50°	448.9	446.3	442.3	439.7	435.7	430.4	425.2	419.9	417.2	417.2	418.5
52.5°	348.6	349.9	345.9	342.0	339.4	339.4	332.7	331.4	331.4	326.1	331.4
55°	266.7	265.4	266.7	264.1	264.1	260.1	260.1	256.1	256.1	252.2	254.8
57.5°	195.4	198.0	195.4	196.7	199.4	195.4	194.1	190.1	192.8	190.1	191.5
60°	151.8	151.8	151.8	150.5	150.5	149.2	149.2	147.9	147.9	145.2	147.9
62.5°	112.2	113.5	113.5	113.5	114.9	113.5	112.2	113.5	112.2	112.2	113.5
65°	74.0	75.3	75.3	74.0	76.6	74.0	75.3	76.6	77.9	76.6	77.9
67.5°	50.2	50.2	51.5	52.8	51.5	52.8	54.1	52.8	54.1	56.8	54.1
70°	37.0	38.3	38.3	37.0	35.7	37.0	35.7	39.6	39.6	39.6	42.2
72.5°	23.8	23.8	22.4	22.4	22.4	22.4	22.4	26.4	23.8	22.4	25.1
75°	13.2	14.5	14.5	10.5	11.9	14.5	10.5	11.9	15.9	13.2	15.9
77.5°	7.9	7.9	7.9	7.9	7.9	7.9	10.5	9.2	9.2	9.2	10.5
80°	6.6	5.3	5.3	4.0	5.3	5.3	5.3	7.9	6.6	6.6	7.9
82.5°	2.7	2.7	1.3	0.0	2.7	2.7	2.7	2.7	2.7	2.7	5.3
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: P248749

CATALOG NUMBER: LD8B60D010 ER8B609730 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2
2.5°	2701.5	2701.5	2700.2	2697.6	2692.3	2692.3	2691.0	2687.0	2684.4	2683.0	2683.0
5°	2688.3	2683.0	2677.7	2663.2	2663.2	2660.6	2652.7	2647.4	2644.8	2638.1	2635.5
7.5°	2676.4	2660.6	2651.3	2642.1	2630.2	2624.9	2615.7	2611.7	2602.5	2595.9	2591.9
10°	2647.4	2636.8	2624.9	2610.4	2601.2	2590.6	2580.0	2572.1	2560.2	2553.6	2548.3
12.5°	2627.6	2611.7	2601.2	2585.3	2569.5	2560.2	2545.7	2536.5	2524.6	2511.4	2503.5
15°	2609.1	2591.9	2577.4	2560.2	2543.1	2532.5	2515.4	2504.8	2487.6	2474.4	2465.2
17.5°	2581.4	2566.8	2551.0	2529.9	2514.0	2500.8	2482.3	2469.2	2453.3	2436.1	2426.9
20°	2552.3	2535.1	2519.3	2498.2	2482.3	2466.5	2448.0	2433.5	2415.0	2399.2	2388.6
22.5°	2514.0	2494.2	2481.0	2459.9	2441.4	2424.3	2407.1	2389.9	2372.7	2359.5	2347.6
25°	2458.6	2437.4	2422.9	2405.7	2388.6	2375.4	2354.3	2343.7	2326.5	2314.6	2302.7
27.5°	2379.3	2363.5	2350.3	2333.1	2318.6	2308.1	2292.2	2281.7	2267.1	2256.5	2247.3
30°	2263.2	2250.0	2238.1	2220.9	2210.3	2201.1	2186.5	2177.3	2166.8	2154.9	2152.3
32.5°	2107.4	2096.8	2084.9	2073.0	2065.1	2059.8	2047.9	2042.6	2032.1	2025.5	2018.9
35°	1872.3	1863.1	1856.5	1851.2	1848.6	1849.9	1847.2	1852.5	1855.1	1853.8	1855.1
37.5°	1564.7	1559.4	1562.0	1566.0	1579.2	1596.4	1612.2	1635.9	1651.8	1667.7	1682.2
40°	1221.4	1225.3	1235.9	1259.6	1294.0	1332.3	1367.9	1412.8	1457.7	1489.4	1518.4
42.5°	921.6	933.5	959.9	994.2	1045.8	1102.5	1158.0	1224.0	1278.2	1330.9	1367.9
45°	693.2	709.0	743.4	790.9	847.7	913.7	983.7	1057.6	1122.3	1176.5	1217.4
47.5°	540.1	554.6	588.9	639.1	709.0	777.7	850.3	926.9	994.2	1047.1	1082.7
50°	426.5	445.0	475.3	528.2	598.2	670.8	746.0	821.3	884.7	929.6	961.3
52.5°	335.4	352.6	381.6	437.1	508.4	581.0	650.9	724.9	780.3	823.9	845.1
55°	260.1	276.0	306.3	352.6	419.9	491.2	561.1	624.6	676.0	707.7	727.6
57.5°	198.0	209.9	231.1	277.3	338.0	404.0	463.5	526.9	566.5	588.9	602.1
60°	150.5	159.8	182.2	217.9	273.3	330.1	380.3	427.8	459.5	478.0	491.2
62.5°	113.5	124.1	139.9	170.3	212.6	258.8	301.0	336.7	363.1	375.0	384.2
65°	77.9	85.8	97.7	121.5	157.1	190.1	223.2	249.6	266.7	279.9	285.2
67.5°	58.1	63.4	70.0	88.5	113.5	139.9	162.4	180.9	199.4	204.7	213.9
70°	43.6	47.6	54.1	67.3	81.8	100.3	118.9	129.4	142.6	151.8	154.5
72.5°	27.7	29.0	35.7	43.6	55.4	67.3	79.2	88.5	96.4	101.7	104.3
75°	15.9	23.8	23.8	31.7	39.6	44.9	52.8	59.4	63.4	67.3	67.3
77.5°	10.5	14.5	15.9	19.8	23.8	30.4	37.0	40.9	44.9	46.2	46.2
80°	9.2	10.5	10.5	14.5	17.2	22.4	26.4	27.7	30.4	31.7	34.3
82.5°	4.0	5.3	6.6	10.5	11.9	11.9	15.9	17.2	19.8	21.1	21.1
85°	1.3	2.7	2.7	4.0	6.6	7.9	9.2	10.5	11.9	11.9	13.2
87.5°	1.3	1.3	0.0	1.3	2.7	2.7	5.3	5.3	5.3	7.9	7.9
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: P248749

CATALOG NUMBER: LD8B60D010 ER8B609730 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2
2.5°	2680.4	2681.7	2676.4	2675.1	2672.5	2673.8	2676.4
5°	2631.5	2632.9	2627.6	2622.3	2622.3	2621.0	2622.3
7.5°	2585.3	2586.7	2578.7	2576.1	2570.8	2572.1	2572.1
10°	2539.1	2539.1	2527.3	2525.9	2521.9	2520.6	2520.6
12.5°	2494.2	2490.2	2481.0	2475.7	2478.4	2470.5	2470.5
15°	2454.6	2448.0	2436.1	2432.1	2425.6	2422.9	2422.9
17.5°	2413.7	2408.4	2397.9	2389.9	2382.0	2380.7	2382.0
20°	2374.0	2368.8	2355.6	2350.3	2343.7	2343.7	2341.1
22.5°	2334.4	2329.2	2317.3	2313.3	2304.1	2304.1	2305.4
25°	2293.5	2289.5	2276.3	2273.7	2272.4	2267.1	2269.8
27.5°	2238.1	2235.4	2224.9	2220.9	2215.6	2214.3	2216.9
30°	2136.4	2132.4	2124.5	2120.6	2111.3	2112.6	2115.2
32.5°	2009.6	2004.4	1993.8	1989.8	1981.9	1979.3	1980.6
35°	1851.2	1847.2	1838.0	1838.0	1830.1	1827.4	1830.1
37.5°	1690.1	1694.0	1690.1	1694.0	1690.1	1688.8	1690.1
40°	1538.3	1552.8	1555.4	1570.0	1564.7	1572.6	1571.3
42.5°	1393.0	1416.8	1426.0	1437.9	1435.3	1440.6	1444.5
45°	1246.4	1266.3	1275.5	1283.4	1284.7	1287.4	1288.7
47.5°	1107.8	1123.7	1125.0	1134.2	1132.9	1132.9	1136.9
50°	978.4	989.0	991.6	998.2	992.9	990.3	991.6
52.5°	858.3	868.8	866.2	868.8	862.2	859.6	860.9
55°	735.4	740.7	740.7	740.7	732.8	732.8	732.8
57.5°	610.0	611.4	608.7	610.0	608.7	600.8	599.5
60°	495.2	495.2	493.8	495.2	491.2	487.2	487.2
62.5°	386.9	389.5	394.8	389.5	386.9	389.5	385.5
65°	289.2	294.5	293.1	295.8	294.5	294.5	291.8
67.5°	217.9	219.2	220.5	221.9	221.9	221.9	221.9
70°	159.8	163.8	162.4	162.4	162.4	162.4	170.3
72.5°	107.0	112.2	110.9	113.5	113.5	116.2	113.5
75°	72.6	77.9	75.3	79.2	77.9	75.3	81.8
77.5°	48.9	51.5	52.8	54.1	52.8	51.5	52.8
80°	34.3	37.0	35.7	37.0	37.0	37.0	38.3
82.5°	21.1	25.1	23.8	25.1	23.8	25.1	25.1
85°	14.5	15.9	13.2	15.9	14.5	14.5	17.2
87.5°	9.2	7.9	7.9	9.2	7.9	9.2	7.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)