

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: P245021

Luminaire Tested: **LD8B50D010 ER8B50930 8LBSW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245021  
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 ER8B50930 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: 4506.4 lumens  
Efficiency: N/A  
Efficacy: 85.0 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

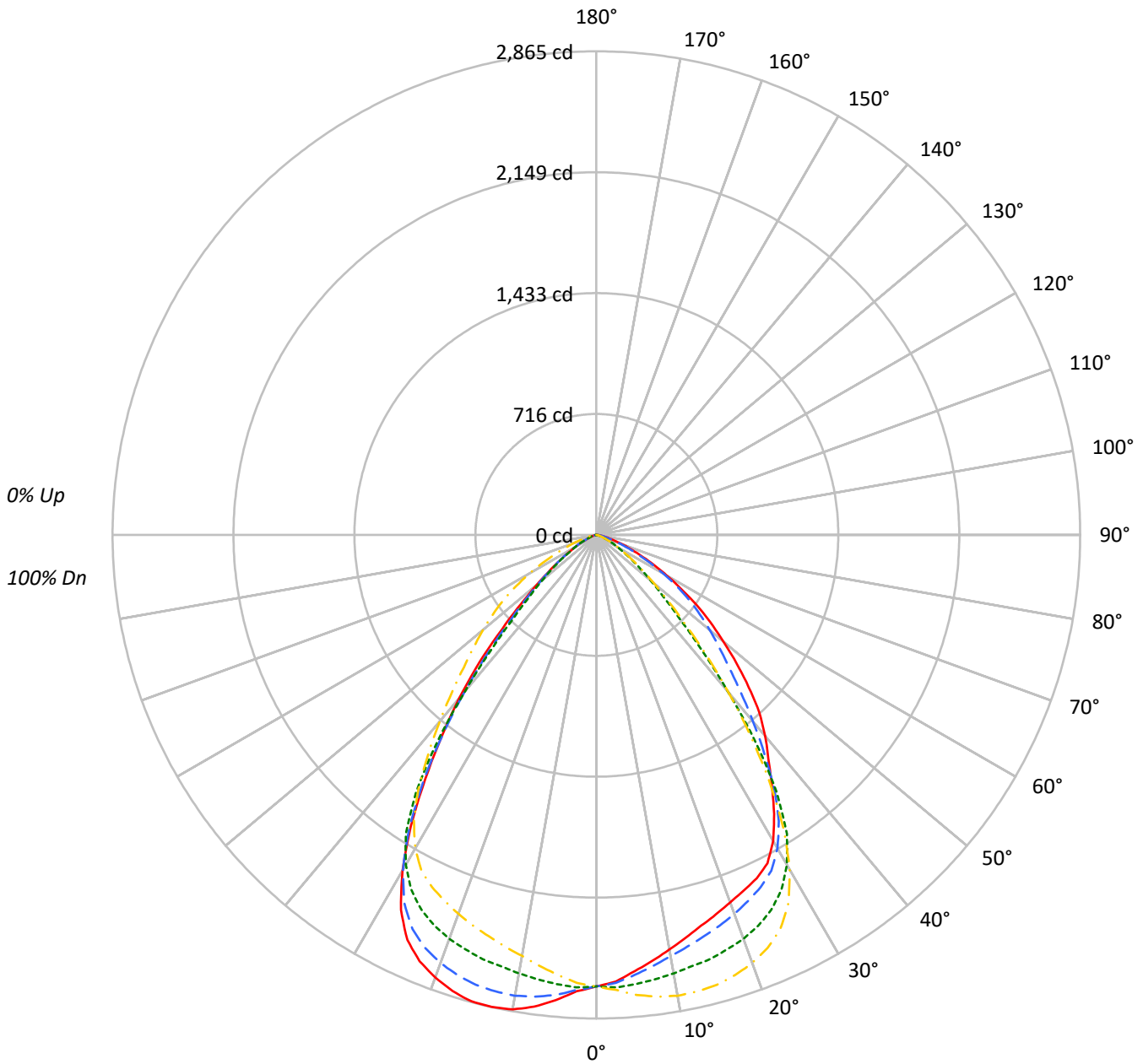
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	254.6	5.7
10°-20°	737.4	16.4
20°-30°	1116.6	24.8
30°-40°	1119.1	24.8
40°-50°	702.7	15.6
50°-60°	374.5	8.3
60°-70°	154.0	3.4
70°-80°	40.7	0.9
80°-90°	6.9	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°	2108.6	46.8
0°-40°	3227.7	71.6
0°-60°	4304.9	95.5
0°-90°	4506.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4506.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2675	2675	2675	2675	2675	
5°	2594	2671	2767	2671	2594	245
15°	2397	2602	2861	2602	2397	678
25°	2246	2451	2648	2451	2246	1030
35°	1810	1861	1766	1861	1810	1134
45°	1275	682	789	682	1275	981
55°	725	252	266	252	725	646
65°	289	77	70	77	289	299
75°	81	16	13	16	81	92
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°	2675.3	2675.3	2675.3	2675.3	2675.3	2675.3	2675.3	2675.3	2675.3	2675.3	2675.3
2.5°	2647.9	2645.2	2644.0	2646.6	2647.9	2653.1	2651.8	2654.4	2654.4	2655.8	2658.3
5°	2594.3	2593.0	2594.3	2594.3	2599.6	2604.8	2603.5	2607.4	2610.0	2616.5	2619.1
7.5°	2544.7	2544.7	2543.3	2548.6	2551.2	2559.0	2557.7	2564.3	2568.2	2574.7	2583.9
10°	2493.8	2493.8	2495.0	2498.9	2500.3	2512.0	2512.0	2521.1	2526.4	2532.9	2544.7
12.5°	2444.1	2444.1	2452.0	2449.3	2454.5	2463.7	2467.7	2476.7	2484.6	2497.7	2509.5
15°	2397.0	2397.0	2399.7	2406.2	2410.2	2421.9	2428.4	2438.8	2448.0	2461.2	2478.1
17.5°	2356.6	2355.3	2356.6	2364.4	2372.3	2382.7	2388.0	2401.0	2410.2	2427.1	2442.8
20°	2316.1	2318.7	2318.7	2325.2	2330.4	2343.6	2348.7	2363.2	2373.6	2389.2	2407.6
22.5°	2280.8	2279.6	2279.6	2288.6	2292.6	2304.3	2309.5	2322.6	2334.4	2347.5	2364.4
25°	2245.6	2242.9	2248.2	2249.5	2252.1	2265.1	2269.0	2278.2	2290.0	2301.7	2318.7
27.5°	2193.2	2190.7	2192.0	2197.2	2201.1	2211.5	2214.2	2223.4	2232.5	2242.9	2257.4
30°	2092.7	2090.1	2088.8	2098.0	2101.9	2109.7	2113.6	2129.3	2131.9	2143.7	2154.1
32.5°	1959.4	1958.2	1960.7	1968.6	1972.5	1982.9	1988.2	1997.4	2003.9	2010.4	2020.8
35°	1810.5	1807.9	1810.5	1818.4	1818.4	1827.6	1831.5	1835.3	1834.1	1835.3	1832.7
37.5°	1672.1	1670.7	1672.1	1676.0	1672.1	1676.0	1672.1	1664.2	1649.9	1634.2	1618.5
40°	1554.5	1555.8	1548.0	1553.3	1538.8	1536.2	1521.9	1502.3	1473.6	1442.2	1397.8
42.5°	1429.2	1425.2	1420.0	1422.5	1410.9	1401.7	1378.2	1353.4	1316.7	1264.5	1210.9
45°	1274.9	1273.7	1271.0	1269.8	1261.9	1252.7	1233.1	1204.4	1163.9	1110.4	1046.3
47.5°	1124.7	1120.8	1120.8	1122.1	1112.9	1111.7	1096.0	1071.2	1035.9	983.7	917.0
50°	981.0	979.8	982.3	987.6	981.0	978.4	968.0	951.1	919.7	875.3	812.5
52.5°	851.7	850.4	853.1	859.6	856.9	859.6	849.2	836.0	815.1	772.0	717.2
55°	725.1	725.1	725.1	732.8	732.8	732.8	727.6	719.8	700.2	668.8	617.9
57.5°	593.1	594.4	602.2	603.5	602.2	604.9	603.5	595.7	582.6	560.4	521.3
60°	482.0	482.0	486.0	489.9	488.5	489.9	489.9	486.0	472.9	454.6	423.3
62.5°	381.5	385.4	382.7	385.4	390.6	385.4	382.7	380.1	371.1	359.3	333.0
65°	288.7	291.3	291.3	292.6	290.0	291.3	286.1	282.2	277.0	263.9	247.0
67.5°	219.5	219.5	219.5	219.5	218.1	216.8	215.6	211.6	202.5	197.3	178.9
70°	168.5	160.6	160.6	160.6	160.6	162.0	158.1	152.9	150.2	141.1	128.0
72.5°	112.3	114.9	112.3	112.3	109.7	111.0	105.8	103.1	100.6	95.4	87.6
75°	80.9	74.4	77.0	78.4	74.4	77.0	71.9	66.6	66.6	62.7	58.7
77.5°	52.2	51.0	52.2	53.6	52.2	51.0	48.3	45.7	45.7	44.4	40.5
80°	37.9	36.5	36.5	36.5	35.3	36.5	34.0	34.0	31.4	30.0	27.5
82.5°	24.9	24.9	23.5	24.9	23.5	24.9	21.0	21.0	21.0	19.6	17.0
85°	17.0	14.3	14.3	15.7	13.1	15.7	14.3	13.1	11.8	11.8	10.4
87.5°	7.8	9.2	7.8	9.2	7.8	7.8	9.2	7.8	7.8	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°	2675.3	2675.3	2675.3	2675.3	2675.3	2675.3	2675.3	2675.3	2675.3	2675.3	2675.3
2.5°	2662.3	2663.5	2663.5	2668.8	2671.3	2672.7	2672.7	2683.1	2679.2	2681.9	2684.5
5°	2624.4	2632.2	2634.8	2634.8	2649.1	2654.4	2659.6	2671.3	2672.7	2680.5	2689.7
7.5°	2587.8	2596.9	2602.2	2613.9	2623.0	2632.2	2647.9	2655.8	2663.5	2674.0	2685.8
10°	2552.5	2562.9	2573.5	2582.6	2596.9	2608.7	2619.1	2637.4	2646.6	2660.9	2676.6
12.5°	2518.6	2532.9	2542.1	2557.7	2573.5	2583.9	2599.6	2616.5	2630.9	2645.2	2663.5
15°	2488.5	2505.5	2516.0	2532.9	2549.9	2564.3	2581.3	2602.2	2612.6	2629.6	2646.6
17.5°	2455.9	2474.2	2487.3	2502.9	2523.8	2539.4	2553.9	2574.7	2587.8	2606.1	2625.7
20°	2421.9	2440.2	2455.9	2471.6	2492.4	2508.1	2525.1	2546.0	2560.4	2578.6	2594.3
22.5°	2381.5	2398.4	2415.3	2433.6	2454.5	2467.7	2487.3	2505.5	2521.1	2538.2	2553.9
25°	2329.1	2350.1	2363.2	2380.1	2397.0	2411.4	2432.3	2450.6	2463.7	2479.4	2493.8
27.5°	2267.8	2283.5	2293.9	2308.3	2325.2	2338.3	2354.0	2372.3	2385.4	2399.7	2410.2
30°	2163.2	2177.7	2186.7	2197.2	2214.2	2226.0	2239.1	2256.0	2265.1	2275.6	2284.7
32.5°	2026.1	2037.9	2043.0	2050.9	2062.6	2074.4	2084.8	2099.2	2103.2	2109.7	2109.7
35°	1827.6	1830.1	1828.8	1831.5	1836.6	1843.1	1852.3	1861.4	1866.7	1866.7	1862.8
37.5°	1595.0	1579.4	1562.3	1549.3	1545.4	1542.7	1548.0	1551.9	1557.2	1559.8	1553.3
40°	1353.4	1318.1	1280.2	1246.2	1222.7	1212.2	1208.3	1210.9	1210.9	1220.1	1220.1
42.5°	1145.7	1090.7	1034.6	983.7	949.7	923.6	911.8	911.8	913.1	919.7	923.6
45°	973.3	904.0	838.6	782.5	735.5	701.5	685.8	681.9	680.6	683.1	692.3
47.5°	841.3	769.5	701.5	632.2	582.6	548.6	534.3	529.0	523.8	529.0	530.3
50°	738.1	663.6	591.8	522.5	470.3	440.2	421.9	414.1	412.8	412.8	415.4
52.5°	644.0	574.7	503.0	432.4	377.6	348.7	331.8	327.9	322.6	327.9	327.9
55°	555.1	486.0	415.4	348.7	303.0	273.1	257.4	252.1	249.5	253.5	253.5
57.5°	458.5	399.7	334.4	274.3	228.6	207.7	196.0	189.4	188.1	190.7	188.1
60°	376.2	326.5	270.4	215.6	180.3	158.1	149.0	146.3	143.7	146.3	146.3
62.5°	297.8	256.0	210.3	168.5	138.4	122.9	112.3	112.3	111.0	111.0	112.3
65°	220.7	188.1	155.5	120.2	96.6	84.9	77.0	77.0	75.8	77.0	75.8
67.5°	160.6	138.4	112.3	87.6	69.3	62.7	57.5	53.6	56.2	53.6	52.2
70°	117.6	99.2	80.9	66.6	53.6	47.1	43.2	41.8	39.2	39.2	39.2
72.5°	78.4	66.6	54.8	43.2	35.3	28.7	27.5	24.9	22.2	23.5	26.1
75°	52.2	44.4	39.2	31.4	23.5	23.5	15.7	15.7	13.1	15.7	11.8
77.5°	36.5	30.0	23.5	19.6	15.7	14.3	10.4	10.4	9.2	9.2	9.2
80°	26.1	22.2	17.0	14.3	10.4	10.4	9.2	7.8	6.5	6.5	7.8
82.5°	15.7	11.8	11.8	10.4	6.5	5.3	3.9	5.3	2.7	2.7	2.7
85°	9.2	7.8	6.5	3.9	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°	2675.3	2675.3	2675.3	2675.3	2675.3	2675.3	2675.3	2675.3	2675.3	2675.3	2675.3
2.5°	2691.1	2689.7	2692.3	2692.3	2700.2	2698.8	2702.7	2702.7	2700.2	2701.5	2706.7
5°	2700.2	2704.1	2711.9	2718.4	2730.2	2735.5	2742.0	2748.5	2749.8	2753.7	2757.7
7.5°	2700.2	2713.3	2722.3	2734.1	2749.8	2758.9	2773.2	2785.0	2790.3	2796.8	2804.6
10°	2694.9	2708.0	2724.9	2738.0	2757.7	2772.0	2786.4	2804.6	2812.5	2822.9	2833.4
12.5°	2684.5	2698.8	2717.1	2734.1	2756.3	2769.3	2787.6	2804.6	2816.4	2830.7	2842.5
15°	2668.8	2685.8	2702.7	2719.8	2743.2	2758.9	2775.9	2795.4	2807.3	2822.9	2833.4
17.5°	2644.0	2662.3	2678.0	2693.7	2715.8	2734.1	2749.8	2768.1	2779.9	2792.9	2807.3
20°	2613.9	2630.9	2647.9	2660.9	2683.1	2698.8	2715.8	2732.8	2742.0	2744.5	2766.7
22.5°	2576.1	2587.8	2600.8	2621.8	2634.8	2649.1	2664.8	2680.5	2689.7	2704.1	2711.9
25°	2513.3	2525.1	2539.4	2548.6	2564.3	2576.1	2591.8	2608.7	2613.9	2624.4	2632.2
27.5°	2425.8	2432.3	2438.8	2446.7	2455.9	2462.4	2471.6	2479.4	2484.6	2489.9	2495.0
30°	2287.3	2287.3	2287.3	2282.1	2286.1	2290.0	2291.2	2290.0	2290.0	2288.6	2288.6
32.5°	2104.5	2094.0	2082.3	2071.8	2067.9	2062.6	2060.1	2056.1	2049.6	2045.7	2046.9
35°	1857.5	1834.1	1819.7	1806.6	1796.2	1788.3	1784.4	1780.5	1779.3	1774.0	1768.7
37.5°	1549.3	1532.3	1521.9	1514.0	1504.8	1497.0	1498.3	1499.7	1503.5	1500.9	1502.3
40°	1222.7	1218.8	1222.7	1213.6	1210.9	1213.6	1220.1	1229.3	1234.4	1239.7	1248.8
42.5°	930.1	936.6	945.8	945.8	949.7	955.0	962.7	977.2	984.9	994.1	1004.5
45°	700.2	708.0	719.8	723.7	726.3	732.8	742.0	753.8	758.9	766.8	776.0
47.5°	539.5	544.7	551.2	557.8	564.3	566.9	576.1	576.1	582.6	587.9	590.4
50°	420.6	425.9	431.0	434.9	437.6	441.6	444.1	448.1	449.3	452.0	453.2
52.5°	329.1	335.7	335.7	338.3	342.2	346.2	344.8	346.2	347.4	347.4	351.4
55°	257.4	257.4	261.3	261.3	263.9	262.5	263.9	263.9	263.9	263.9	265.2
57.5°	192.0	193.4	197.3	194.6	193.4	196.0	193.4	196.0	194.6	197.3	193.4
60°	147.6	147.6	149.0	149.0	150.2	150.2	150.2	149.0	149.0	147.6	147.6
62.5°	111.0	112.3	113.7	112.3	112.3	112.3	111.0	111.0	109.7	108.4	108.4
65°	74.4	73.2	75.8	73.2	74.4	74.4	73.2	74.4	70.5	71.9	70.5
67.5°	53.6	52.2	51.0	52.2	51.0	49.7	49.7	51.0	52.2	48.3	48.3
70°	35.3	36.5	35.3	36.5	37.9	37.9	36.5	35.3	36.5	34.0	35.3
72.5°	22.2	22.2	22.2	22.2	22.2	23.5	23.5	23.5	21.0	21.0	19.6
75°	10.4	14.3	11.8	10.4	14.3	14.3	13.1	13.1	11.8	11.8	11.8
77.5°	10.4	7.8	7.8	7.8	7.8	7.8	7.8	7.8	6.5	7.8	6.5
80°	5.3	5.3	5.3	3.9	5.3	5.3	6.5	5.3	5.3	3.9	6.5
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: P245021

CATALOG NUMBER: LD8B50D010 ER8B50930 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2675.3	2675.3	2675.3	2675.3	2675.3	2675.3	2675.3	2675.3	2675.3	2675.3	2675.3
2.5°	2705.4	2704.1	2705.4	2706.7	2705.4	2704.1	2705.4	2706.7	2701.5	2700.2	2702.7
5°	2762.8	2762.8	2765.4	2766.7	2765.4	2762.8	2762.8	2757.7	2753.7	2749.8	2748.5
7.5°	2812.5	2815.2	2817.7	2819.0	2817.7	2815.2	2812.5	2804.6	2796.8	2790.3	2785.0
10°	2842.5	2846.4	2851.7	2854.3	2851.7	2846.4	2842.5	2833.4	2822.9	2812.5	2804.6
12.5°	2855.6	2859.6	2866.1	2864.7	2866.1	2859.6	2855.6	2842.5	2830.7	2816.4	2804.6
15°	2846.4	2851.7	2858.2	2860.8	2858.2	2851.7	2846.4	2833.4	2822.9	2807.3	2795.4
17.5°	2817.7	2825.6	2829.5	2833.4	2829.5	2825.6	2817.7	2807.3	2792.9	2779.9	2768.1
20°	2778.5	2783.8	2788.9	2790.3	2788.9	2783.8	2778.5	2766.7	2744.5	2742.0	2732.8
22.5°	2722.3	2726.3	2738.0	2734.1	2738.0	2726.3	2722.3	2711.9	2704.1	2689.7	2680.5
25°	2641.3	2645.2	2646.6	2647.9	2646.6	2645.2	2641.3	2632.2	2624.4	2613.9	2608.7
27.5°	2501.6	2501.6	2504.2	2505.5	2504.2	2501.6	2501.6	2495.0	2489.9	2484.6	2479.4
30°	2290.0	2290.0	2290.0	2296.5	2290.0	2290.0	2290.0	2288.6	2288.6	2290.0	2290.0
32.5°	2045.7	2043.0	2040.4	2043.0	2040.4	2043.0	2045.7	2046.9	2045.7	2049.6	2056.1
35°	1768.7	1767.5	1771.4	1766.1	1771.4	1767.5	1768.7	1768.7	1774.0	1779.3	1780.5
37.5°	1503.5	1500.9	1506.2	1500.9	1506.2	1500.9	1503.5	1502.3	1500.9	1503.5	1499.7
40°	1251.5	1254.1	1254.1	1264.5	1254.1	1254.1	1251.5	1248.8	1239.7	1234.4	1229.3
42.5°	1009.8	1017.6	1015.0	1022.8	1015.0	1017.6	1009.8	1004.5	994.1	984.9	977.2
45°	781.1	786.4	786.4	789.0	786.4	786.4	781.1	776.0	766.8	758.9	753.8
47.5°	599.6	599.6	599.6	601.0	599.6	599.6	599.6	590.4	587.9	582.6	576.1
50°	455.9	457.1	458.5	459.8	458.5	457.1	455.9	453.2	452.0	449.3	448.1
52.5°	350.1	351.4	348.7	351.4	348.7	351.4	350.1	351.4	347.4	347.4	346.2
55°	265.2	263.9	265.2	266.5	265.2	263.9	265.2	265.2	263.9	263.9	263.9
57.5°	194.6	192.0	192.0	192.0	192.0	192.0	194.6	193.4	197.3	194.6	196.0
60°	145.1	146.3	146.3	147.6	146.3	146.3	145.1	147.6	147.6	149.0	149.0
62.5°	107.1	111.0	108.4	111.0	108.4	111.0	107.1	108.4	108.4	109.7	111.0
65°	69.3	69.3	69.3	70.5	69.3	69.3	69.3	70.5	71.9	70.5	74.4
67.5°	47.1	48.3	51.0	49.7	51.0	48.3	47.1	48.3	48.3	52.2	51.0
70°	37.9	34.0	34.0	37.9	34.0	34.0	37.9	35.3	34.0	36.5	35.3
72.5°	22.2	19.6	22.2	22.2	22.2	19.6	22.2	19.6	21.0	21.0	23.5
75°	11.8	10.4	9.2	13.1	9.2	10.4	11.8	11.8	11.8	11.8	13.1
77.5°	7.8	6.5	9.2	9.2	9.2	6.5	7.8	6.5	7.8	6.5	7.8
80°	3.9	5.3	3.9	6.5	3.9	5.3	3.9	6.5	3.9	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: P245021

CATALOG NUMBER: LD8B50D010 ER8B50930 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2675.3	2675.3	2675.3	2675.3	2675.3	2675.3	2675.3	2675.3	2675.3	2675.3	2675.3
2.5°	2702.7	2698.8	2700.2	2692.3	2692.3	2689.7	2691.1	2684.5	2681.9	2679.2	2683.1
5°	2742.0	2735.5	2730.2	2718.4	2711.9	2704.1	2700.2	2689.7	2680.5	2672.7	2671.3
7.5°	2773.2	2758.9	2749.8	2734.1	2722.3	2713.3	2700.2	2685.8	2674.0	2663.5	2655.8
10°	2786.4	2772.0	2757.7	2738.0	2724.9	2708.0	2694.9	2676.6	2660.9	2646.6	2637.4
12.5°	2787.6	2769.3	2756.3	2734.1	2717.1	2698.8	2684.5	2663.5	2645.2	2630.9	2616.5
15°	2775.9	2758.9	2743.2	2719.8	2702.7	2685.8	2668.8	2646.6	2629.6	2612.6	2602.2
17.5°	2749.8	2734.1	2715.8	2693.7	2678.0	2662.3	2644.0	2625.7	2606.1	2587.8	2574.7
20°	2715.8	2698.8	2683.1	2660.9	2647.9	2630.9	2613.9	2594.3	2578.6	2560.4	2546.0
22.5°	2664.8	2649.1	2634.8	2621.8	2600.8	2587.8	2576.1	2553.9	2538.2	2521.1	2505.5
25°	2591.8	2576.1	2564.3	2548.6	2539.4	2525.1	2513.3	2493.8	2479.4	2463.7	2450.6
27.5°	2471.6	2462.4	2455.9	2446.7	2438.8	2432.3	2425.8	2410.2	2399.7	2385.4	2372.3
30°	2291.2	2290.0	2286.1	2282.1	2287.3	2287.3	2287.3	2284.7	2275.6	2265.1	2256.0
32.5°	2060.1	2062.6	2067.9	2071.8	2082.3	2094.0	2104.5	2109.7	2109.7	2103.2	2099.2
35°	1784.4	1788.3	1796.2	1806.6	1819.7	1834.1	1857.5	1862.8	1866.7	1866.7	1861.4
37.5°	1498.3	1497.0	1504.8	1514.0	1521.9	1532.3	1549.3	1553.3	1559.8	1557.2	1551.9
40°	1220.1	1213.6	1210.9	1213.6	1222.7	1218.8	1222.7	1220.1	1220.1	1210.9	1210.9
42.5°	962.7	955.0	949.7	945.8	945.8	936.6	930.1	923.6	919.7	913.1	911.8
45°	742.0	732.8	726.3	723.7	719.8	708.0	700.2	692.3	683.1	680.6	681.9
47.5°	576.1	566.9	564.3	557.8	551.2	544.7	539.5	530.3	529.0	523.8	529.0
50°	444.1	441.6	437.6	434.9	431.0	425.9	420.6	415.4	412.8	412.8	414.1
52.5°	344.8	346.2	342.2	338.3	335.7	335.7	329.1	327.9	327.9	322.6	327.9
55°	263.9	262.5	263.9	261.3	261.3	257.4	257.4	253.5	253.5	249.5	252.1
57.5°	193.4	196.0	193.4	194.6	197.3	193.4	192.0	188.1	190.7	188.1	189.4
60°	150.2	150.2	150.2	149.0	149.0	147.6	147.6	146.3	146.3	143.7	146.3
62.5°	111.0	112.3	112.3	112.3	113.7	112.3	111.0	112.3	111.0	111.0	112.3
65°	73.2	74.4	74.4	73.2	75.8	73.2	74.4	75.8	77.0	75.8	77.0
67.5°	49.7	49.7	51.0	52.2	51.0	52.2	53.6	52.2	53.6	56.2	53.6
70°	36.5	37.9	37.9	36.5	35.3	36.5	35.3	39.2	39.2	39.2	41.8
72.5°	23.5	23.5	22.2	22.2	22.2	22.2	22.2	26.1	23.5	22.2	24.9
75°	13.1	14.3	14.3	10.4	11.8	14.3	10.4	11.8	15.7	13.1	15.7
77.5°	7.8	7.8	7.8	7.8	7.8	7.8	10.4	9.2	9.2	9.2	10.4
80°	6.5	5.3	5.3	3.9	5.3	5.3	5.3	7.8	6.5	6.5	7.8
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: P245021

CATALOG NUMBER: LD8B50D010 ER8B50930 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2675.3	2675.3	2675.3	2675.3	2675.3	2675.3	2675.3	2675.3	2675.3	2675.3	2675.3
2.5°	2672.7	2672.7	2671.3	2668.8	2663.5	2663.5	2662.3	2658.3	2655.8	2654.4	2654.4
5°	2659.6	2654.4	2649.1	2634.8	2634.8	2632.2	2624.4	2619.1	2616.5	2610.0	2607.4
7.5°	2647.9	2632.2	2623.0	2613.9	2602.2	2596.9	2587.8	2583.9	2574.7	2568.2	2564.3
10°	2619.1	2608.7	2596.9	2582.6	2573.5	2562.9	2552.5	2544.7	2532.9	2526.4	2521.1
12.5°	2599.6	2583.9	2573.5	2557.7	2542.1	2532.9	2518.6	2509.5	2497.7	2484.6	2476.7
15°	2581.3	2564.3	2549.9	2532.9	2516.0	2505.5	2488.5	2478.1	2461.2	2448.0	2438.8
17.5°	2553.9	2539.4	2523.8	2502.9	2487.3	2474.2	2455.9	2442.8	2427.1	2410.2	2401.0
20°	2525.1	2508.1	2492.4	2471.6	2455.9	2440.2	2421.9	2407.6	2389.2	2373.6	2363.2
22.5°	2487.3	2467.7	2454.5	2433.6	2415.3	2398.4	2381.5	2364.4	2347.5	2334.4	2322.6
25°	2432.3	2411.4	2397.0	2380.1	2363.2	2350.1	2329.1	2318.7	2301.7	2290.0	2278.2
27.5°	2354.0	2338.3	2325.2	2308.3	2293.9	2283.5	2267.8	2257.4	2242.9	2232.5	2223.4
30°	2239.1	2226.0	2214.2	2197.2	2186.7	2177.7	2163.2	2154.1	2143.7	2131.9	2129.3
32.5°	2084.8	2074.4	2062.6	2050.9	2043.0	2037.9	2026.1	2020.8	2010.4	2003.9	1997.4
35°	1852.3	1843.1	1836.6	1831.5	1828.8	1830.1	1827.6	1832.7	1835.3	1834.1	1835.3
37.5°	1548.0	1542.7	1545.4	1549.3	1562.3	1579.4	1595.0	1618.5	1634.2	1649.9	1664.2
40°	1208.3	1212.2	1222.7	1246.2	1280.2	1318.1	1353.4	1397.8	1442.2	1473.6	1502.3
42.5°	911.8	923.6	949.7	983.7	1034.6	1090.7	1145.7	1210.9	1264.5	1316.7	1353.4
45°	685.8	701.5	735.5	782.5	838.6	904.0	973.3	1046.3	1110.4	1163.9	1204.4
47.5°	534.3	548.6	582.6	632.2	701.5	769.5	841.3	917.0	983.7	1035.9	1071.2
50°	421.9	440.2	470.3	522.5	591.8	663.6	738.1	812.5	875.3	919.7	951.1
52.5°	331.8	348.7	377.6	432.4	503.0	574.7	644.0	717.2	772.0	815.1	836.0
55°	257.4	273.1	303.0	348.7	415.4	486.0	555.1	617.9	668.8	700.2	719.8
57.5°	196.0	207.7	228.6	274.3	334.4	399.7	458.5	521.3	560.4	582.6	595.7
60°	149.0	158.1	180.3	215.6	270.4	326.5	376.2	423.3	454.6	472.9	486.0
62.5°	112.3	122.9	138.4	168.5	210.3	256.0	297.8	333.0	359.3	371.1	380.1
65°	77.0	84.9	96.6	120.2	155.5	188.1	220.7	247.0	263.9	277.0	282.2
67.5°	57.5	62.7	69.3	87.6	112.3	138.4	160.6	178.9	197.3	202.5	211.6
70°	43.2	47.1	53.6	66.6	80.9	99.2	117.6	128.0	141.1	150.2	152.9
72.5°	27.5	28.7	35.3	43.2	54.8	66.6	78.4	87.6	95.4	100.6	103.1
75°	15.7	23.5	23.5	31.4	39.2	44.4	52.2	58.7	62.7	66.6	66.6
77.5°	10.4	14.3	15.7	19.6	23.5	30.0	36.5	40.5	44.4	45.7	45.7
80°	9.2	10.4	10.4	14.3	17.0	22.2	26.1	27.5	30.0	31.4	34.0
82.5°	3.9	5.3	6.5	10.4	11.8	11.8	15.7	17.0	19.6	21.0	21.0
85°	1.3	2.7	2.7	3.9	6.5	7.8	9.2	10.4	11.8	11.8	13.1
87.5°	1.3	1.3	0.0	1.3	2.7	2.7	5.3	5.3	5.3	7.8	7.8
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: P245021

CATALOG NUMBER: LD8B50D010 ER8B50930 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	2675.3	2675.3	2675.3	2675.3	2675.3	2675.3	2675.3
2.5°	2651.8	2653.1	2647.9	2646.6	2644.0	2645.2	2647.9
5°	2603.5	2604.8	2599.6	2594.3	2594.3	2593.0	2594.3
7.5°	2557.7	2559.0	2551.2	2548.6	2543.3	2544.7	2544.7
10°	2512.0	2512.0	2500.3	2498.9	2495.0	2493.8	2493.8
12.5°	2467.7	2463.7	2454.5	2449.3	2452.0	2444.1	2444.1
15°	2428.4	2421.9	2410.2	2406.2	2399.7	2397.0	2397.0
17.5°	2388.0	2382.7	2372.3	2364.4	2356.6	2355.3	2356.6
20°	2348.7	2343.6	2330.4	2325.2	2318.7	2318.7	2316.1
22.5°	2309.5	2304.3	2292.6	2288.6	2279.6	2279.6	2280.8
25°	2269.0	2265.1	2252.1	2249.5	2248.2	2242.9	2245.6
27.5°	2214.2	2211.5	2201.1	2197.2	2192.0	2190.7	2193.2
30°	2113.6	2109.7	2101.9	2098.0	2088.8	2090.1	2092.7
32.5°	1988.2	1982.9	1972.5	1968.6	1960.7	1958.2	1959.4
35°	1831.5	1827.6	1818.4	1818.4	1810.5	1807.9	1810.5
37.5°	1672.1	1676.0	1672.1	1676.0	1672.1	1670.7	1672.1
40°	1521.9	1536.2	1538.8	1553.3	1548.0	1555.8	1554.5
42.5°	1378.2	1401.7	1410.9	1422.5	1420.0	1425.2	1429.2
45°	1233.1	1252.7	1261.9	1269.8	1271.0	1273.7	1274.9
47.5°	1096.0	1111.7	1112.9	1122.1	1120.8	1120.8	1124.7
50°	968.0	978.4	981.0	987.6	982.3	979.8	981.0
52.5°	849.2	859.6	856.9	859.6	853.1	850.4	851.7
55°	727.6	732.8	732.8	732.8	725.1	725.1	725.1
57.5°	603.5	604.9	602.2	603.5	602.2	594.4	593.1
60°	489.9	489.9	488.5	489.9	486.0	482.0	482.0
62.5°	382.7	385.4	390.6	385.4	382.7	385.4	381.5
65°	286.1	291.3	290.0	292.6	291.3	291.3	288.7
67.5°	215.6	216.8	218.1	219.5	219.5	219.5	219.5
70°	158.1	162.0	160.6	160.6	160.6	160.6	168.5
72.5°	105.8	111.0	109.7	112.3	112.3	114.9	112.3
75°	71.9	77.0	74.4	78.4	77.0	74.4	80.9
77.5°	48.3	51.0	52.2	53.6	52.2	51.0	52.2
80°	34.0	36.5	35.3	36.5	36.5	36.5	37.9
82.5°	21.0	24.9	23.5	24.9	23.5	24.9	24.9
85°	14.3	15.7	13.1	15.7	14.3	14.3	17.0
87.5°	9.2	7.8	7.8	9.2	7.8	9.2	7.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)