

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: P245873

Luminaire Tested: **LD8B50D010 ER8B50950 8LBSW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245873  
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 ER8B50950 8LBSW0GPH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
90 CRI 5000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4699.0 lumens  
Efficiency: N/A  
Efficacy: 88.7 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

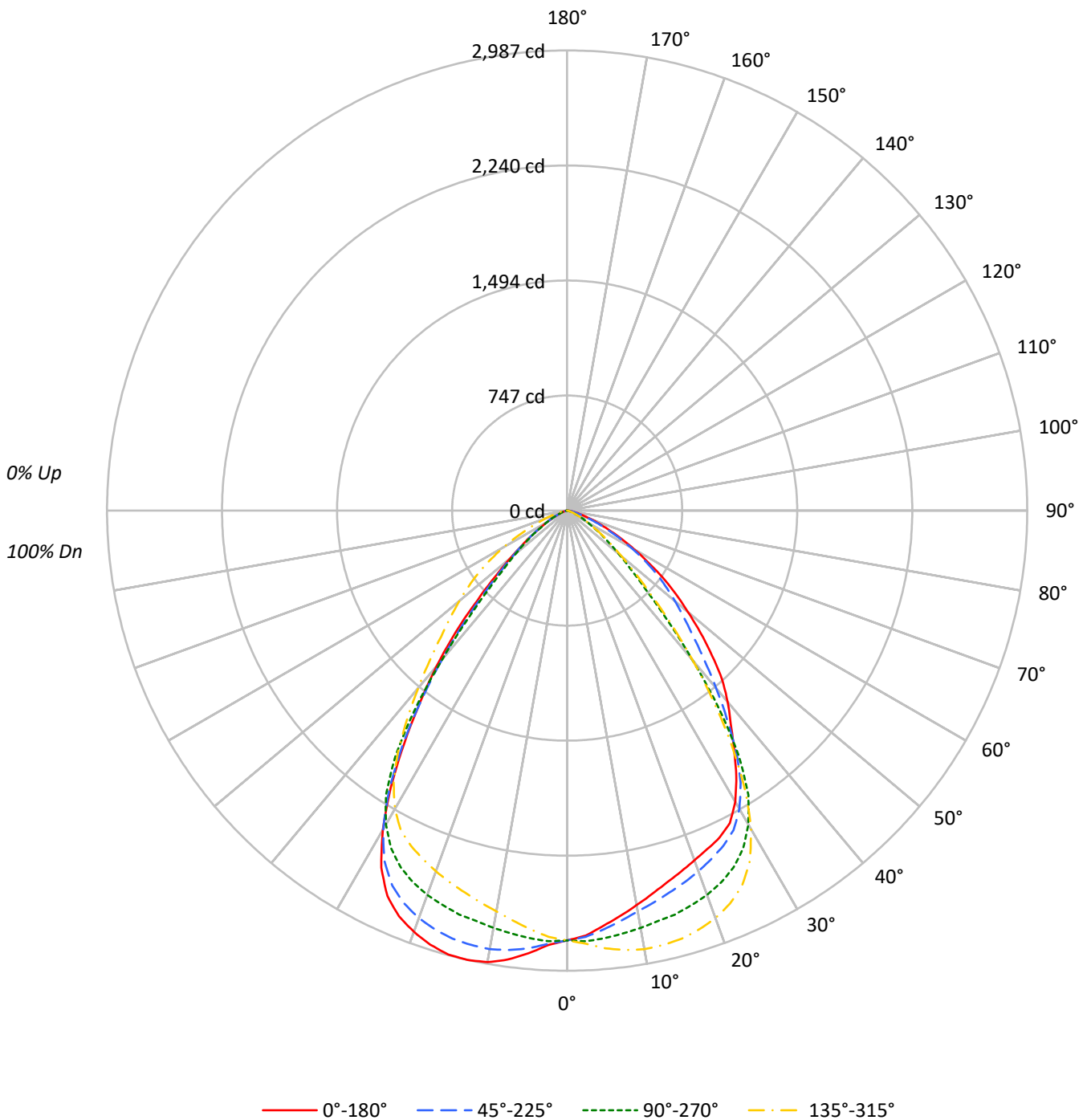
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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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°	86021	86021	86021	86021
5°	83737	86226	89303	86226
10°	81421	86111	93191	86111
15°	79794	86623	95233	86623
20°	79252	87118	95476	87118
25°	79667	86942	93944	86942
30°	77697	83761	85267	83761
35°	71068	73067	69326	73067
40°	65248	50829	53079	50829
45°	57978	31006	35877	31006
50°	49071	20715	23003	20715
55°	40644	14134	14940	14134
60°	30997	9411	9491	9411
65°	21962	5859	5370	5859
70°	15841	3931	3561	3931
75°	10056	1954	1620	1954
80°	7014	1456	1208	1456
85°	6262	0	460	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	265.5	5.7
10°-20°	768.9	16.4
20°-30°	1164.3	24.8
30°-40°	1166.9	24.8
40°-50°	732.7	15.6
50°-60°	390.5	8.3
60°-70°	160.6	3.4
70°-80°	42.4	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°	2198.7	46.8
0°-40°	3365.6	71.6
0°-60°	4488.8	95.5
0°-90°	4699.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4699.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2790	2790	2790	2790	2790	
5°	2705	2786	2885	2786	2705	255
15°	2500	2713	2983	2713	2500	707
25°	2342	2555	2761	2555	2342	1074
35°	1888	1941	1842	1941	1888	1183
45°	1330	711	823	711	1330	1022
55°	756	263	278	263	756	674
65°	301	80	74	80	301	312
75°	84	16	14	16	84	96
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°	2789.6	2789.6	2789.6	2789.6	2789.6	2789.6	2789.6	2789.6	2789.6	2789.6	2789.6
2.5°	2761.1	2758.3	2757.0	2759.7	2761.1	2766.5	2765.1	2767.8	2767.8	2769.2	2771.9
5°	2705.2	2703.8	2705.2	2705.2	2710.6	2716.1	2714.7	2718.8	2721.5	2728.4	2731.1
7.5°	2653.5	2653.5	2652.1	2657.5	2660.2	2668.4	2667.0	2673.9	2678.0	2684.7	2694.3
10°	2600.3	2600.3	2601.7	2605.7	2607.2	2619.4	2619.4	2628.9	2634.3	2641.2	2653.5
12.5°	2548.6	2548.6	2556.7	2554.0	2559.4	2569.0	2573.1	2582.6	2590.8	2604.4	2616.7
15°	2499.5	2499.5	2502.3	2509.0	2513.1	2525.4	2532.2	2543.1	2552.7	2566.3	2584.0
17.5°	2457.3	2455.9	2457.3	2465.5	2473.7	2484.5	2490.0	2503.6	2513.1	2530.8	2547.2
20°	2415.1	2417.8	2417.8	2424.6	2430.0	2443.7	2449.1	2464.1	2475.0	2491.3	2510.4
22.5°	2378.3	2376.9	2376.9	2386.5	2390.6	2402.8	2408.2	2421.9	2434.1	2447.8	2465.5
25°	2341.5	2338.8	2344.3	2345.6	2348.3	2361.9	2366.0	2375.5	2387.8	2400.1	2417.8
27.5°	2287.0	2284.3	2285.7	2291.1	2295.2	2306.1	2308.8	2318.4	2327.9	2338.8	2353.8
30°	2182.1	2179.4	2178.1	2187.6	2191.7	2199.8	2203.9	2220.3	2223.0	2235.3	2246.1
32.5°	2043.2	2041.8	2044.6	2052.7	2056.8	2067.7	2073.2	2082.7	2089.5	2096.3	2107.2
35°	1887.9	1885.2	1887.9	1896.1	1896.1	1905.6	1909.7	1913.8	1912.4	1913.8	1911.1
37.5°	1743.6	1742.2	1743.6	1747.6	1743.6	1747.6	1743.6	1735.4	1720.4	1704.0	1687.7
40°	1620.9	1622.3	1614.2	1619.6	1604.6	1601.9	1586.9	1566.4	1536.5	1503.8	1457.5
42.5°	1490.2	1486.1	1480.7	1483.4	1471.1	1461.5	1437.0	1411.2	1373.0	1318.6	1262.7
45°	1329.5	1328.1	1325.4	1324.0	1315.8	1306.3	1285.8	1255.9	1213.7	1157.8	1091.1
47.5°	1172.8	1168.7	1168.7	1170.1	1160.5	1159.2	1142.8	1117.0	1080.2	1025.7	956.2
50°	1022.9	1021.6	1024.3	1029.8	1022.9	1020.2	1009.4	991.6	959.0	912.7	847.2
52.5°	888.1	886.7	889.5	896.3	893.5	896.3	885.4	871.8	850.0	805.0	747.8
55°	756.0	756.0	756.0	764.1	764.1	764.1	758.7	750.6	730.1	697.4	644.3
57.5°	618.4	619.8	627.9	629.3	627.9	630.7	629.3	621.1	607.5	584.4	543.5
60°	502.6	502.6	506.7	510.8	509.4	510.8	510.8	506.7	493.1	474.0	441.4
62.5°	397.7	401.8	399.1	401.8	407.3	401.8	399.1	396.4	386.9	374.6	347.3
65°	301.0	303.8	303.8	305.1	302.4	303.8	298.3	294.2	288.8	275.2	257.5
67.5°	228.9	228.9	228.9	228.9	227.5	226.1	224.8	220.7	211.1	205.7	186.6
70°	175.7	167.5	167.5	167.5	167.5	168.9	164.8	159.4	156.6	147.1	133.5
72.5°	117.1	119.9	117.1	117.1	114.4	115.8	110.3	107.6	104.9	99.5	91.3
75°	84.4	77.7	80.3	81.7	77.7	80.3	74.9	69.5	69.5	65.4	61.3
77.5°	54.5	53.2	54.5	55.8	54.5	53.2	50.4	47.7	47.7	46.3	42.2
80°	39.5	38.1	38.1	38.1	36.8	38.1	35.4	35.4	32.7	31.3	28.6
82.5°	25.9	25.9	24.5	25.9	24.5	25.9	21.8	21.8	21.8	20.4	17.7
85°	17.7	15.0	15.0	16.4	13.6	16.4	15.0	13.6	12.3	12.3	10.9
87.5°	8.2	9.5	8.2	9.5	8.2	8.2	9.5	8.2	8.2	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°	2789.6	2789.6	2789.6	2789.6	2789.6	2789.6	2789.6	2789.6	2789.6	2789.6	2789.6
2.5°	2776.0	2777.4	2777.4	2782.9	2785.6	2786.9	2786.9	2797.8	2793.7	2796.5	2799.2
5°	2736.6	2744.7	2747.4	2747.4	2762.4	2767.8	2773.3	2785.6	2786.9	2795.1	2804.6
7.5°	2698.4	2707.9	2713.4	2725.6	2735.2	2744.7	2761.1	2769.2	2777.4	2788.3	2800.5
10°	2661.6	2672.5	2683.4	2692.9	2707.9	2720.2	2731.1	2750.1	2759.7	2774.7	2791.0
12.5°	2626.2	2641.2	2650.7	2667.0	2683.4	2694.3	2710.6	2728.4	2743.3	2758.3	2777.4
15°	2594.9	2612.6	2623.5	2641.2	2658.9	2673.9	2691.6	2713.4	2724.3	2742.0	2759.7
17.5°	2560.8	2579.9	2593.5	2609.8	2631.7	2648.0	2663.0	2684.7	2698.4	2717.4	2737.9
20°	2525.4	2544.5	2560.8	2577.2	2599.0	2615.3	2633.0	2654.8	2669.8	2688.8	2705.2
22.5°	2483.2	2500.9	2518.6	2537.6	2559.4	2573.1	2593.5	2612.6	2628.9	2646.6	2663.0
25°	2428.7	2450.5	2464.1	2481.8	2499.5	2514.5	2536.3	2555.3	2569.0	2585.3	2600.3
27.5°	2364.7	2381.0	2391.9	2406.9	2424.6	2438.2	2454.5	2473.7	2487.3	2502.3	2513.1
30°	2255.7	2270.7	2280.2	2291.1	2308.8	2321.1	2334.7	2352.4	2361.9	2372.8	2382.4
32.5°	2112.6	2124.9	2130.4	2138.5	2150.8	2163.0	2174.0	2189.0	2193.0	2199.8	2199.8
35°	1905.6	1908.3	1907.0	1909.7	1915.2	1922.0	1931.5	1941.0	1946.5	1946.5	1942.4
37.5°	1663.2	1646.8	1629.1	1615.5	1611.4	1608.7	1614.2	1618.2	1623.7	1626.4	1619.6
40°	1411.2	1374.4	1334.9	1299.5	1275.0	1264.1	1260.0	1262.7	1262.7	1272.2	1272.2
42.5°	1194.6	1137.4	1078.8	1025.7	990.2	963.1	950.8	950.8	952.1	959.0	963.1
45°	1014.8	942.6	874.5	815.9	766.9	731.4	715.1	711.0	709.7	712.4	721.9
47.5°	877.2	802.3	731.4	659.3	607.5	572.1	557.1	551.6	546.2	551.6	553.0
50°	769.6	692.0	617.1	544.9	490.4	459.0	440.0	431.8	430.4	430.4	433.2
52.5°	671.5	599.4	524.4	450.9	393.6	363.7	346.0	341.9	336.5	341.9	341.9
55°	578.9	506.7	433.2	363.7	316.0	284.7	268.3	262.9	260.1	264.2	264.2
57.5°	478.1	416.8	348.7	286.1	238.4	216.6	204.3	197.5	196.1	198.9	196.1
60°	392.3	340.5	282.0	224.8	188.0	164.8	155.3	152.6	149.8	152.6	152.6
62.5°	310.6	267.0	219.3	175.7	144.4	128.1	117.1	117.1	115.8	115.8	117.1
65°	230.2	196.1	162.1	125.3	100.8	88.5	80.3	80.3	79.0	80.3	79.0
67.5°	167.5	144.4	117.1	91.3	72.2	65.4	59.9	55.8	58.6	55.8	54.5
70°	122.6	103.5	84.4	69.5	55.8	49.1	45.0	43.6	40.9	40.9	40.9
72.5°	81.7	69.5	57.2	45.0	36.8	29.9	28.6	25.9	23.2	24.5	27.2
75°	54.5	46.3	40.9	32.7	24.5	24.5	16.4	16.4	13.6	16.4	12.3
77.5°	38.1	31.3	24.5	20.4	16.4	15.0	10.9	10.9	9.5	9.5	9.5
80°	27.2	23.2	17.7	15.0	10.9	10.9	9.5	8.2	6.8	6.8	8.2
82.5°	16.4	12.3	12.3	10.9	6.8	5.4	4.1	5.4	2.7	2.7	2.7
85°	9.5	8.2	6.8	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°	2789.6	2789.6	2789.6	2789.6	2789.6	2789.6	2789.6	2789.6	2789.6	2789.6	2789.6
2.5°	2806.0	2804.6	2807.4	2807.4	2815.6	2814.1	2818.2	2818.2	2815.6	2816.9	2822.3
5°	2815.6	2819.6	2827.8	2834.6	2846.8	2852.3	2859.1	2866.0	2867.3	2871.4	2875.5
7.5°	2815.6	2829.2	2838.7	2850.9	2867.3	2876.8	2891.8	2904.1	2909.5	2916.3	2924.5
10°	2810.1	2823.7	2841.4	2855.0	2875.5	2890.5	2905.4	2924.5	2932.7	2943.6	2954.5
12.5°	2799.2	2814.1	2833.2	2850.9	2874.1	2887.7	2906.8	2924.5	2936.8	2951.7	2964.0
15°	2782.9	2800.5	2818.2	2836.0	2860.5	2876.8	2894.5	2915.0	2927.2	2943.6	2954.5
17.5°	2757.0	2776.0	2792.4	2808.7	2831.9	2850.9	2867.3	2886.4	2898.6	2912.3	2927.2
20°	2725.6	2743.3	2761.1	2774.7	2797.8	2814.1	2831.9	2849.6	2859.1	2861.9	2885.0
22.5°	2686.1	2698.4	2712.0	2733.8	2747.4	2762.4	2778.8	2795.1	2804.6	2819.6	2827.8
25°	2620.7	2633.0	2648.0	2657.5	2673.9	2686.1	2702.5	2720.2	2725.6	2736.6	2744.7
27.5°	2529.5	2536.3	2543.1	2551.3	2560.8	2567.6	2577.2	2585.3	2590.8	2596.2	2601.7
30°	2385.1	2385.1	2385.1	2379.6	2383.7	2387.8	2389.2	2387.8	2387.8	2386.5	2386.5
32.5°	2194.4	2183.5	2171.2	2160.4	2156.3	2150.8	2148.1	2144.0	2137.2	2133.1	2134.5
35°	1936.9	1912.4	1897.5	1883.8	1873.0	1864.8	1860.7	1856.6	1855.2	1849.8	1844.3
37.5°	1615.5	1597.8	1586.9	1578.7	1569.2	1561.0	1562.4	1563.8	1567.8	1565.1	1566.4
40°	1275.0	1270.9	1275.0	1265.4	1262.7	1265.4	1272.2	1281.8	1287.2	1292.7	1302.2
42.5°	969.8	976.6	986.2	986.2	990.2	995.7	1003.9	1018.9	1027.0	1036.6	1047.5
45°	730.1	738.3	750.6	754.6	757.3	764.1	773.7	785.9	791.4	799.6	809.1
47.5°	562.6	568.0	574.8	581.6	588.4	591.2	600.7	600.7	607.5	613.0	615.7
50°	438.6	444.0	449.5	453.6	456.3	460.4	463.1	467.2	468.5	471.3	472.6
52.5°	343.2	350.1	350.1	352.8	356.9	361.0	359.6	361.0	362.3	362.3	366.4
55°	268.3	268.3	272.4	272.4	275.2	273.8	275.2	275.2	275.2	275.2	276.5
57.5°	200.2	201.6	205.7	203.0	201.6	204.3	201.6	204.3	203.0	205.7	201.6
60°	153.9	153.9	155.3	155.3	156.6	156.6	156.6	155.3	155.3	153.9	153.9
62.5°	115.8	117.1	118.5	117.1	117.1	117.1	115.8	115.8	114.4	113.0	113.0
65°	77.7	76.3	79.0	76.3	77.7	77.7	76.3	77.7	73.6	74.9	73.6
67.5°	55.8	54.5	53.2	54.5	53.2	51.7	51.7	53.2	54.5	50.4	50.4
70°	36.8	38.1	36.8	38.1	39.5	39.5	38.1	36.8	38.1	35.4	36.8
72.5°	23.2	23.2	23.2	23.2	23.2	24.5	24.5	24.5	21.8	21.8	20.4
75°	10.9	15.0	12.3	10.9	15.0	15.0	13.6	13.6	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°	5.4	5.4	5.4	4.1	5.4	5.4	6.8	5.4	5.4	4.1	6.8
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: P245873

CATALOG NUMBER: LD8B50D010 ER8B50950 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2789.6	2789.6	2789.6	2789.6	2789.6	2789.6	2789.6	2789.6	2789.6	2789.6	2789.6
2.5°	2821.0	2819.6	2821.0	2822.3	2821.0	2819.6	2821.0	2822.3	2816.9	2815.6	2818.2
5°	2880.9	2880.9	2883.6	2885.0	2883.6	2880.9	2880.9	2875.5	2871.4	2867.3	2866.0
7.5°	2932.7	2935.4	2938.1	2939.5	2938.1	2935.4	2932.7	2924.5	2916.3	2909.5	2904.1
10°	2964.0	2968.1	2973.5	2976.2	2973.5	2968.1	2964.0	2954.5	2943.6	2932.7	2924.5
12.5°	2977.6	2981.7	2988.5	2987.2	2988.5	2981.7	2977.6	2964.0	2951.7	2936.8	2924.5
15°	2968.1	2973.5	2980.3	2983.1	2980.3	2973.5	2968.1	2954.5	2943.6	2927.2	2915.0
17.5°	2938.1	2946.3	2950.4	2954.5	2950.4	2946.3	2938.1	2927.2	2912.3	2898.6	2886.4
20°	2897.2	2902.7	2908.2	2909.5	2908.2	2902.7	2897.2	2885.0	2861.9	2859.1	2849.6
22.5°	2838.7	2842.8	2855.0	2850.9	2855.0	2842.8	2838.7	2827.8	2819.6	2804.6	2795.1
25°	2754.2	2758.3	2759.7	2761.1	2759.7	2758.3	2754.2	2744.7	2736.6	2725.6	2720.2
27.5°	2608.5	2608.5	2611.2	2612.6	2611.2	2608.5	2608.5	2601.7	2596.2	2590.8	2585.3
30°	2387.8	2387.8	2387.8	2394.7	2387.8	2387.8	2387.8	2386.5	2386.5	2387.8	2387.8
32.5°	2133.1	2130.4	2127.7	2130.4	2127.7	2130.4	2133.1	2134.5	2133.1	2137.2	2144.0
35°	1844.3	1843.0	1847.1	1841.6	1847.1	1843.0	1844.3	1844.3	1849.8	1855.2	1856.6
37.5°	1567.8	1565.1	1570.5	1565.1	1570.5	1565.1	1567.8	1566.4	1565.1	1567.8	1563.8
40°	1304.9	1307.6	1307.6	1318.6	1307.6	1307.6	1304.9	1302.2	1292.7	1287.2	1281.8
42.5°	1052.9	1061.1	1058.4	1066.6	1058.4	1061.1	1052.9	1047.5	1036.6	1027.0	1018.9
45°	814.5	820.0	820.0	822.7	820.0	820.0	814.5	809.1	799.6	791.4	785.9
47.5°	625.2	625.2	625.2	626.6	625.2	625.2	625.2	615.7	613.0	607.5	600.7
50°	475.4	476.7	478.1	479.5	478.1	476.7	475.4	472.6	471.3	468.5	467.2
52.5°	365.0	366.4	363.7	366.4	363.7	366.4	365.0	366.4	362.3	362.3	361.0
55°	276.5	275.2	276.5	277.9	276.5	275.2	276.5	276.5	275.2	275.2	275.2
57.5°	203.0	200.2	200.2	200.2	200.2	200.2	203.0	201.6	205.7	203.0	204.3
60°	151.2	152.6	152.6	153.9	152.6	152.6	151.2	153.9	153.9	155.3	155.3
62.5°	111.7	115.8	113.0	115.8	113.0	115.8	111.7	113.0	113.0	114.4	115.8
65°	72.2	72.2	72.2	73.6	72.2	72.2	72.2	73.6	74.9	73.6	77.7
67.5°	49.1	50.4	53.2	51.7	53.2	50.4	49.1	50.4	50.4	54.5	53.2
70°	39.5	35.4	35.4	39.5	35.4	35.4	39.5	36.8	35.4	38.1	36.8
72.5°	23.2	20.4	23.2	23.2	23.2	20.4	23.2	20.4	21.8	21.8	24.5
75°	12.3	10.9	9.5	13.6	9.5	10.9	12.3	12.3	12.3	12.3	13.6
77.5°	8.2	6.8	9.5	9.5	9.5	6.8	8.2	6.8	8.2	6.8	8.2
80°	4.1	5.4	4.1	6.8	4.1	5.4	4.1	6.8	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: P245873

CATALOG NUMBER: LD8B50D010 ER8B50950 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2789.6	2789.6	2789.6	2789.6	2789.6	2789.6	2789.6	2789.6	2789.6	2789.6	2789.6
2.5°	2818.2	2814.1	2815.6	2807.4	2807.4	2804.6	2806.0	2799.2	2796.5	2793.7	2797.8
5°	2859.1	2852.3	2846.8	2834.6	2827.8	2819.6	2815.6	2804.6	2795.1	2786.9	2785.6
7.5°	2891.8	2876.8	2867.3	2850.9	2838.7	2829.2	2815.6	2800.5	2788.3	2777.4	2769.2
10°	2905.4	2890.5	2875.5	2855.0	2841.4	2823.7	2810.1	2791.0	2774.7	2759.7	2750.1
12.5°	2906.8	2887.7	2874.1	2850.9	2833.2	2814.1	2799.2	2777.4	2758.3	2743.3	2728.4
15°	2894.5	2876.8	2860.5	2836.0	2818.2	2800.5	2782.9	2759.7	2742.0	2724.3	2713.4
17.5°	2867.3	2850.9	2831.9	2808.7	2792.4	2776.0	2757.0	2737.9	2717.4	2698.4	2684.7
20°	2831.9	2814.1	2797.8	2774.7	2761.1	2743.3	2725.6	2705.2	2688.8	2669.8	2654.8
22.5°	2778.8	2762.4	2747.4	2733.8	2712.0	2698.4	2686.1	2663.0	2646.6	2628.9	2612.6
25°	2702.5	2686.1	2673.9	2657.5	2648.0	2633.0	2620.7	2600.3	2585.3	2569.0	2555.3
27.5°	2577.2	2567.6	2560.8	2551.3	2543.1	2536.3	2529.5	2513.1	2502.3	2487.3	2473.7
30°	2389.2	2387.8	2383.7	2379.6	2385.1	2385.1	2385.1	2382.4	2372.8	2361.9	2352.4
32.5°	2148.1	2150.8	2156.3	2160.4	2171.2	2183.5	2194.4	2199.8	2199.8	2193.0	2189.0
35°	1860.7	1864.8	1873.0	1883.8	1897.5	1912.4	1936.9	1942.4	1946.5	1946.5	1941.0
37.5°	1562.4	1561.0	1569.2	1578.7	1586.9	1597.8	1615.5	1619.6	1626.4	1623.7	1618.2
40°	1272.2	1265.4	1262.7	1265.4	1275.0	1270.9	1275.0	1272.2	1272.2	1262.7	1262.7
42.5°	1003.9	995.7	990.2	986.2	986.2	976.6	969.8	963.1	959.0	952.1	950.8
45°	773.7	764.1	757.3	754.6	750.6	738.3	730.1	721.9	712.4	709.7	711.0
47.5°	600.7	591.2	588.4	581.6	574.8	568.0	562.6	553.0	551.6	546.2	551.6
50°	463.1	460.4	456.3	453.6	449.5	444.0	438.6	433.2	430.4	430.4	431.8
52.5°	359.6	361.0	356.9	352.8	350.1	350.1	343.2	341.9	341.9	336.5	341.9
55°	275.2	273.8	275.2	272.4	272.4	268.3	268.3	264.2	264.2	260.1	262.9
57.5°	201.6	204.3	201.6	203.0	205.7	201.6	200.2	196.1	198.9	196.1	197.5
60°	156.6	156.6	156.6	155.3	155.3	153.9	153.9	152.6	152.6	149.8	152.6
62.5°	115.8	117.1	117.1	117.1	118.5	117.1	115.8	117.1	115.8	115.8	117.1
65°	76.3	77.7	77.7	76.3	79.0	76.3	77.7	79.0	80.3	79.0	80.3
67.5°	51.7	51.7	53.2	54.5	53.2	54.5	55.8	54.5	55.8	58.6	55.8
70°	38.1	39.5	39.5	38.1	36.8	38.1	36.8	40.9	40.9	40.9	43.6
72.5°	24.5	24.5	23.2	23.2	23.2	23.2	23.2	27.2	24.5	23.2	25.9
75°	13.6	15.0	15.0	10.9	12.3	15.0	10.9	12.3	16.4	13.6	16.4
77.5°	8.2	8.2	8.2	8.2	8.2	8.2	10.9	9.5	9.5	9.5	10.9
80°	6.8	5.4	5.4	4.1	5.4	5.4	5.4	8.2	6.8	6.8	8.2
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: P245873

CATALOG NUMBER: LD8B50D010 ER8B50950 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2789.6	2789.6	2789.6	2789.6	2789.6	2789.6	2789.6	2789.6	2789.6	2789.6	2789.6
2.5°	2786.9	2786.9	2785.6	2782.9	2777.4	2777.4	2776.0	2771.9	2769.2	2767.8	2767.8
5°	2773.3	2767.8	2762.4	2747.4	2747.4	2744.7	2736.6	2731.1	2728.4	2721.5	2718.8
7.5°	2761.1	2744.7	2735.2	2725.6	2713.4	2707.9	2698.4	2694.3	2684.7	2678.0	2673.9
10°	2731.1	2720.2	2707.9	2692.9	2683.4	2672.5	2661.6	2653.5	2641.2	2634.3	2628.9
12.5°	2710.6	2694.3	2683.4	2667.0	2650.7	2641.2	2626.2	2616.7	2604.4	2590.8	2582.6
15°	2691.6	2673.9	2658.9	2641.2	2623.5	2612.6	2594.9	2584.0	2566.3	2552.7	2543.1
17.5°	2663.0	2648.0	2631.7	2609.8	2593.5	2579.9	2560.8	2547.2	2530.8	2513.1	2503.6
20°	2633.0	2615.3	2599.0	2577.2	2560.8	2544.5	2525.4	2510.4	2491.3	2475.0	2464.1
22.5°	2593.5	2573.1	2559.4	2537.6	2518.6	2500.9	2483.2	2465.5	2447.8	2434.1	2421.9
25°	2536.3	2514.5	2499.5	2481.8	2464.1	2450.5	2428.7	2417.8	2400.1	2387.8	2375.5
27.5°	2454.5	2438.2	2424.6	2406.9	2391.9	2381.0	2364.7	2353.8	2338.8	2327.9	2318.4
30°	2334.7	2321.1	2308.8	2291.1	2280.2	2270.7	2255.7	2246.1	2235.3	2223.0	2220.3
32.5°	2174.0	2163.0	2150.8	2138.5	2130.4	2124.9	2112.6	2107.2	2096.3	2089.5	2082.7
35°	1931.5	1922.0	1915.2	1909.7	1907.0	1908.3	1905.6	1911.1	1913.8	1912.4	1913.8
37.5°	1614.2	1608.7	1611.4	1615.5	1629.1	1646.8	1663.2	1687.7	1704.0	1720.4	1735.4
40°	1260.0	1264.1	1275.0	1299.5	1334.9	1374.4	1411.2	1457.5	1503.8	1536.5	1566.4
42.5°	950.8	963.1	990.2	1025.7	1078.8	1137.4	1194.6	1262.7	1318.6	1373.0	1411.2
45°	715.1	731.4	766.9	815.9	874.5	942.6	1014.8	1091.1	1157.8	1213.7	1255.9
47.5°	557.1	572.1	607.5	659.3	731.4	802.3	877.2	956.2	1025.7	1080.2	1117.0
50°	440.0	459.0	490.4	544.9	617.1	692.0	769.6	847.2	912.7	959.0	991.6
52.5°	346.0	363.7	393.6	450.9	524.4	599.4	671.5	747.8	805.0	850.0	871.8
55°	268.3	284.7	316.0	363.7	433.2	506.7	578.9	644.3	697.4	730.1	750.6
57.5°	204.3	216.6	238.4	286.1	348.7	416.8	478.1	543.5	584.4	607.5	621.1
60°	155.3	164.8	188.0	224.8	282.0	340.5	392.3	441.4	474.0	493.1	506.7
62.5°	117.1	128.1	144.4	175.7	219.3	267.0	310.6	347.3	374.6	386.9	396.4
65°	80.3	88.5	100.8	125.3	162.1	196.1	230.2	257.5	275.2	288.8	294.2
67.5°	59.9	65.4	72.2	91.3	117.1	144.4	167.5	186.6	205.7	211.1	220.7
70°	45.0	49.1	55.8	69.5	84.4	103.5	122.6	133.5	147.1	156.6	159.4
72.5°	28.6	29.9	36.8	45.0	57.2	69.5	81.7	91.3	99.5	104.9	107.6
75°	16.4	24.5	24.5	32.7	40.9	46.3	54.5	61.3	65.4	69.5	69.5
77.5°	10.9	15.0	16.4	20.4	24.5	31.3	38.1	42.2	46.3	47.7	47.7
80°	9.5	10.9	10.9	15.0	17.7	23.2	27.2	28.6	31.3	32.7	35.4
82.5°	4.1	5.4	6.8	10.9	12.3	12.3	16.4	17.7	20.4	21.8	21.8
85°	1.3	2.7	2.7	4.1	6.8	8.2	9.5	10.9	12.3	12.3	13.6
87.5°	1.3	1.3	0.0	1.3	2.7	2.7	5.4	5.4	5.4	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: P245873

CATALOG NUMBER: LD8B50D010 ER8B50950 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	2789.6	2789.6	2789.6	2789.6	2789.6	2789.6	2789.6
2.5°	2765.1	2766.5	2761.1	2759.7	2757.0	2758.3	2761.1
5°	2714.7	2716.1	2710.6	2705.2	2705.2	2703.8	2705.2
7.5°	2667.0	2668.4	2660.2	2657.5	2652.1	2653.5	2653.5
10°	2619.4	2619.4	2607.2	2605.7	2601.7	2600.3	2600.3
12.5°	2573.1	2569.0	2559.4	2554.0	2556.7	2548.6	2548.6
15°	2532.2	2525.4	2513.1	2509.0	2502.3	2499.5	2499.5
17.5°	2490.0	2484.5	2473.7	2465.5	2457.3	2455.9	2457.3
20°	2449.1	2443.7	2430.0	2424.6	2417.8	2417.8	2415.1
22.5°	2408.2	2402.8	2390.6	2386.5	2376.9	2376.9	2378.3
25°	2366.0	2361.9	2348.3	2345.6	2344.3	2338.8	2341.5
27.5°	2308.8	2306.1	2295.2	2291.1	2285.7	2284.3	2287.0
30°	2203.9	2199.8	2191.7	2187.6	2178.1	2179.4	2182.1
32.5°	2073.2	2067.7	2056.8	2052.7	2044.6	2041.8	2043.2
35°	1909.7	1905.6	1896.1	1896.1	1887.9	1885.2	1887.9
37.5°	1743.6	1747.6	1743.6	1747.6	1743.6	1742.2	1743.6
40°	1586.9	1601.9	1604.6	1619.6	1614.2	1622.3	1620.9
42.5°	1437.0	1461.5	1471.1	1483.4	1480.7	1486.1	1490.2
45°	1285.8	1306.3	1315.8	1324.0	1325.4	1328.1	1329.5
47.5°	1142.8	1159.2	1160.5	1170.1	1168.7	1168.7	1172.8
50°	1009.4	1020.2	1022.9	1029.8	1024.3	1021.6	1022.9
52.5°	885.4	896.3	893.5	896.3	889.5	886.7	888.1
55°	758.7	764.1	764.1	764.1	756.0	756.0	756.0
57.5°	629.3	630.7	627.9	629.3	627.9	619.8	618.4
60°	510.8	510.8	509.4	510.8	506.7	502.6	502.6
62.5°	399.1	401.8	407.3	401.8	399.1	401.8	397.7
65°	298.3	303.8	302.4	305.1	303.8	303.8	301.0
67.5°	224.8	226.1	227.5	228.9	228.9	228.9	228.9
70°	164.8	168.9	167.5	167.5	167.5	167.5	175.7
72.5°	110.3	115.8	114.4	117.1	117.1	119.9	117.1
75°	74.9	80.3	77.7	81.7	80.3	77.7	84.4
77.5°	50.4	53.2	54.5	55.8	54.5	53.2	54.5
80°	35.4	38.1	36.8	38.1	38.1	38.1	39.5
82.5°	21.8	25.9	24.5	25.9	24.5	25.9	25.9
85°	15.0	16.4	13.6	16.4	15.0	15.0	17.7
87.5°	9.5	8.2	8.2	9.5	8.2	9.5	8.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)