

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: P248884

Luminaire Tested: **LD8B60D010 ER8B60835 8LBSW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248884  
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 ER8B60835 8LBSW0B  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 3500 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4766.0 lumens  
Efficiency: N/A  
Efficacy: 80.1 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

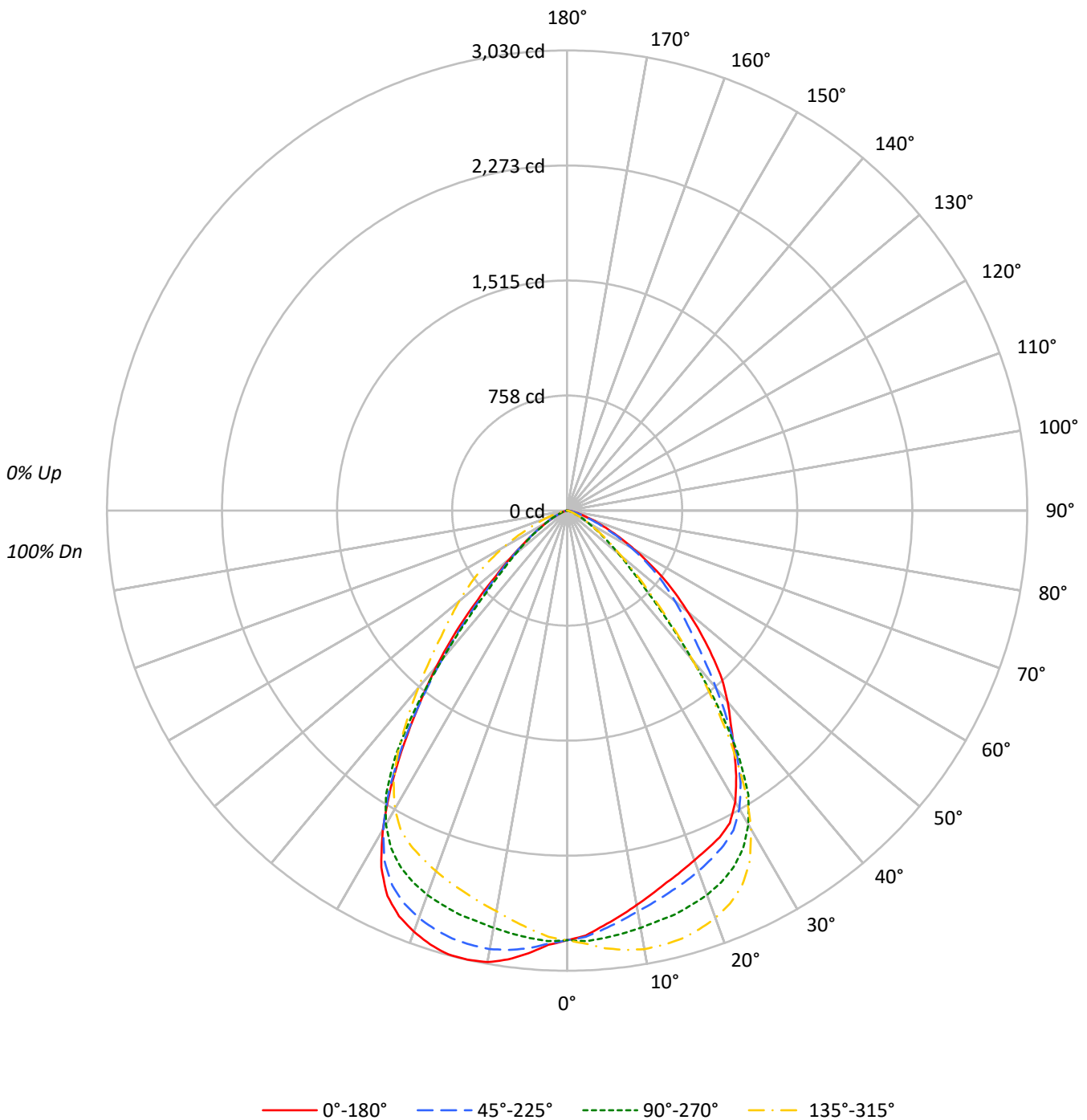
Input Watts (W): 59.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	87248	87248	87248	87248
5°	84932	87455	90578	87455
10°	82582	87339	94522	87339
15°	80931	87858	96590	87858
20°	80381	88362	96838	88362
25°	80804	88184	95281	88184
30°	78805	84954	86482	84954
35°	72081	74110	70316	74110
40°	66182	51553	53836	51553
45°	58803	31451	36392	31451
50°	49772	21007	23329	21007
55°	41224	14333	15150	14333
60°	31441	9541	9627	9541
65°	22276	5947	5443	5947
70°	16066	3985	3615	3985
75°	10199	1978	1644	1978
80°	7121	1474	1225	1474
85°	6369	0	495	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	269.3	5.7
10°-20°	779.9	16.4
20°-30°	1180.9	24.8
30°-40°	1183.5	24.8
40°-50°	743.2	15.6
50°-60°	396.1	8.3
60°-70°	162.9	3.4
70°-80°	43.0	0.9
80°-90°	7.3	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°	2230.1	46.8
0°-40°	3413.6	71.6
0°-60°	4552.8	95.5
0°-90°	4766.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4766.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2829	2829	2829	2829	2829	
5°	2744	2825	2926	2825	2744	259
15°	2535	2752	3026	2752	2535	717
25°	2375	2592	2800	2592	2375	1089
35°	1915	1969	1868	1969	1915	1200
45°	1348	721	834	721	1348	1037
55°	767	267	282	267	767	684
65°	305	82	75	82	305	317
75°	86	17	14	17	86	97
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°	2829.4	2829.4	2829.4	2829.4	2829.4	2829.4	2829.4	2829.4	2829.4	2829.4	2829.4
2.5°	2800.4	2797.6	2796.3	2799.1	2800.4	2805.9	2804.6	2807.3	2807.3	2808.7	2811.5
5°	2743.8	2742.4	2743.8	2743.8	2749.3	2754.8	2753.5	2757.6	2760.3	2767.3	2770.0
7.5°	2691.3	2691.3	2689.9	2695.4	2698.2	2706.5	2705.1	2712.0	2716.1	2723.0	2732.7
10°	2637.4	2637.4	2638.8	2642.9	2644.3	2656.7	2656.7	2666.4	2671.9	2678.8	2691.3
12.5°	2584.9	2584.9	2593.2	2590.4	2595.9	2605.6	2609.8	2619.4	2627.7	2641.5	2654.0
15°	2535.1	2535.1	2537.9	2544.8	2549.0	2561.4	2568.3	2579.4	2589.1	2602.9	2620.8
17.5°	2492.3	2491.0	2492.3	2500.6	2508.9	2520.0	2525.5	2539.3	2549.0	2566.9	2583.5
20°	2449.5	2452.3	2452.3	2459.2	2464.7	2478.5	2484.0	2499.3	2510.3	2526.8	2546.2
22.5°	2412.2	2410.8	2410.8	2420.5	2424.7	2437.0	2442.6	2456.4	2468.8	2482.7	2500.6
25°	2374.9	2372.1	2377.7	2379.0	2381.8	2395.6	2399.7	2409.4	2421.9	2434.3	2452.3
27.5°	2319.6	2316.9	2318.3	2323.8	2327.9	2339.0	2341.7	2351.4	2361.1	2372.1	2387.3
30°	2213.2	2210.5	2209.1	2218.8	2222.9	2231.2	2235.3	2251.9	2254.7	2267.1	2278.2
32.5°	2072.3	2070.9	2073.7	2082.0	2086.1	2097.2	2102.7	2112.4	2119.3	2126.2	2137.3
35°	1914.8	1912.1	1914.8	1923.2	1923.2	1932.8	1937.0	1941.1	1939.7	1941.1	1938.3
37.5°	1768.4	1767.0	1768.4	1772.5	1768.4	1772.5	1768.4	1760.1	1744.9	1728.3	1711.7
40°	1644.1	1645.4	1637.2	1642.7	1627.4	1624.7	1609.5	1588.8	1558.4	1525.3	1478.3
42.5°	1511.4	1507.3	1501.8	1504.5	1492.1	1482.4	1457.5	1431.3	1392.6	1337.4	1280.7
45°	1348.4	1347.0	1344.3	1342.9	1334.6	1324.9	1304.2	1273.8	1231.0	1174.3	1106.6
47.5°	1189.5	1185.4	1185.4	1186.7	1177.1	1175.7	1159.1	1132.9	1095.6	1040.3	969.8
50°	1037.5	1036.2	1038.9	1044.5	1037.5	1034.8	1023.8	1005.8	972.6	925.7	859.3
52.5°	900.8	899.4	902.2	909.1	906.3	909.1	898.0	884.2	862.1	816.5	758.5
55°	766.8	766.8	766.8	775.0	775.0	775.0	769.5	761.3	740.5	707.4	653.5
57.5°	627.2	628.6	636.9	638.3	636.9	639.7	638.3	630.0	616.2	592.7	551.3
60°	509.8	509.8	514.0	518.1	516.7	518.1	518.1	514.0	500.1	480.8	447.6
62.5°	403.4	407.6	404.8	407.6	413.1	407.6	404.8	402.0	392.4	379.9	352.3
65°	305.3	308.1	308.1	309.5	306.7	308.1	302.6	298.4	292.9	279.1	261.1
67.5°	232.1	232.1	232.1	232.1	230.7	229.3	228.0	223.8	214.2	208.6	189.2
70°	178.2	169.9	169.9	169.9	169.9	171.3	167.2	161.7	158.9	149.2	135.4
72.5°	118.8	121.6	118.8	118.8	116.1	117.4	111.9	109.1	106.4	100.9	92.6
75°	85.6	78.8	81.5	82.9	78.8	81.5	76.0	70.5	70.5	66.3	62.2
77.5°	55.3	53.9	55.3	56.6	55.3	53.9	51.1	48.3	48.3	47.0	42.8
80°	40.1	38.7	38.7	38.7	37.3	38.7	35.9	35.9	33.2	31.8	29.0
82.5°	26.3	26.3	24.9	26.3	24.9	26.3	22.1	22.1	22.1	20.7	18.0
85°	18.0	15.2	15.2	16.6	13.8	16.6	15.2	13.8	12.5	12.5	11.0
87.5°	8.3	9.7	8.3	9.7	8.3	8.3	9.7	8.3	8.3	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°	2829.4	2829.4	2829.4	2829.4	2829.4	2829.4	2829.4	2829.4	2829.4	2829.4	2829.4
2.5°	2815.6	2817.0	2817.0	2822.5	2825.3	2826.6	2826.6	2837.7	2833.6	2836.4	2839.1
5°	2775.6	2783.8	2786.6	2786.6	2801.8	2807.3	2812.8	2825.3	2826.6	2834.9	2844.6
7.5°	2736.8	2746.5	2752.1	2764.5	2774.1	2783.8	2800.4	2808.7	2817.0	2828.1	2840.5
10°	2699.5	2710.6	2721.7	2731.3	2746.5	2759.0	2770.0	2789.3	2799.1	2814.2	2830.8
12.5°	2663.7	2678.8	2688.5	2705.1	2721.7	2732.7	2749.3	2767.3	2782.5	2797.6	2817.0
15°	2631.9	2649.8	2660.9	2678.8	2696.8	2712.0	2730.0	2752.1	2763.1	2781.1	2799.1
17.5°	2597.3	2616.7	2630.5	2647.1	2669.2	2685.7	2701.0	2723.0	2736.8	2756.2	2776.9
20°	2561.4	2580.7	2597.3	2613.9	2636.0	2652.6	2670.5	2692.7	2707.8	2727.2	2743.8
22.5°	2518.6	2536.6	2554.5	2573.8	2595.9	2609.8	2630.5	2649.8	2666.4	2684.4	2701.0
25°	2463.3	2485.4	2499.3	2517.2	2535.1	2550.3	2572.4	2591.8	2605.6	2622.2	2637.4
27.5°	2398.4	2415.0	2426.0	2441.2	2459.2	2473.0	2489.5	2508.9	2522.7	2537.9	2549.0
30°	2287.8	2303.1	2312.7	2323.8	2341.7	2354.2	2368.0	2385.9	2395.6	2406.7	2416.3
32.5°	2142.8	2155.2	2160.7	2169.0	2181.5	2193.9	2205.0	2220.2	2224.3	2231.2	2231.2
35°	1932.8	1935.5	1934.2	1937.0	1942.5	1949.4	1959.0	1968.7	1974.2	1974.2	1970.1
37.5°	1686.9	1670.3	1652.4	1638.5	1634.4	1631.6	1637.2	1641.3	1646.8	1649.6	1642.7
40°	1431.3	1394.0	1353.9	1318.0	1293.1	1282.1	1277.9	1280.7	1280.7	1290.3	1290.3
42.5°	1211.6	1153.6	1094.2	1040.3	1004.4	976.8	964.3	964.3	965.7	972.6	976.8
45°	1029.3	956.0	886.9	827.6	777.8	741.9	725.3	721.2	719.8	722.5	732.2
47.5°	889.7	813.8	741.9	668.7	616.2	580.3	565.1	559.5	554.0	559.5	560.9
50°	780.6	701.8	625.9	552.6	497.3	465.6	446.2	437.9	436.6	436.6	439.3
52.5°	681.1	607.9	531.9	457.3	399.3	368.9	350.9	346.8	341.3	346.8	346.8
55°	587.1	514.0	439.3	368.9	320.5	288.8	272.2	266.6	263.9	268.0	268.0
57.5°	485.0	422.7	353.7	290.1	241.8	219.7	207.2	200.3	198.9	201.7	198.9
60°	397.9	345.4	286.0	228.0	190.7	167.2	157.5	154.7	151.9	154.7	154.7
62.5°	315.0	270.8	222.4	178.2	146.4	129.9	118.8	118.8	117.4	117.4	118.8
65°	233.5	198.9	164.4	127.1	102.2	89.8	81.5	81.5	80.1	81.5	80.1
67.5°	169.9	146.4	118.8	92.6	73.2	66.3	60.8	56.6	59.4	56.6	55.3
70°	124.4	105.0	85.6	70.5	56.6	49.8	45.6	44.2	41.5	41.5	41.5
72.5°	82.9	70.5	58.0	45.6	37.3	30.4	29.0	26.3	23.5	24.9	27.6
75°	55.3	47.0	41.5	33.2	24.9	24.9	16.6	16.6	13.8	16.6	12.5
77.5°	38.7	31.8	24.9	20.7	16.6	15.2	11.0	11.0	9.7	9.7	9.7
80°	27.6	23.5	18.0	15.2	11.0	11.0	9.7	8.3	6.9	6.9	8.3
82.5°	16.6	12.5	12.5	11.0	6.9	5.5	4.2	5.5	2.8	2.8	2.8
85°	9.7	8.3	6.9	4.2	2.8	2.8	1.4	0.0	1.4	1.4	0.0
87.5°	5.5	2.8	2.8	1.4	0.0	1.4	1.4	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°	2829.4	2829.4	2829.4	2829.4	2829.4	2829.4	2829.4	2829.4	2829.4	2829.4	2829.4
2.5°	2846.0	2844.6	2847.4	2847.4	2855.7	2854.3	2858.4	2858.4	2855.7	2857.1	2862.6
5°	2855.7	2859.8	2868.1	2875.0	2887.4	2893.0	2899.9	2906.8	2908.2	2912.3	2916.5
7.5°	2855.7	2869.5	2879.2	2891.6	2908.2	2917.8	2933.0	2945.5	2951.0	2957.9	2966.2
10°	2850.1	2863.9	2881.9	2895.7	2916.5	2931.7	2946.9	2966.2	2974.5	2985.5	2996.6
12.5°	2839.1	2854.3	2873.6	2891.6	2915.1	2928.9	2948.2	2966.2	2978.6	2993.8	3006.3
15°	2822.5	2840.5	2858.4	2876.4	2901.2	2917.8	2935.8	2956.5	2969.0	2985.5	2996.6
17.5°	2796.3	2815.6	2832.2	2848.8	2872.2	2891.6	2908.2	2927.5	2940.0	2953.8	2969.0
20°	2764.5	2782.5	2800.4	2814.2	2837.7	2854.3	2872.2	2890.2	2899.9	2902.7	2926.2
22.5°	2724.4	2736.8	2750.7	2772.8	2786.6	2801.8	2818.4	2834.9	2844.6	2859.8	2868.1
25°	2658.1	2670.5	2685.7	2695.4	2712.0	2724.4	2741.0	2759.0	2764.5	2775.6	2783.8
27.5°	2565.6	2572.4	2579.4	2587.6	2597.3	2604.2	2613.9	2622.2	2627.7	2633.2	2638.8
30°	2419.1	2419.1	2419.1	2413.6	2417.7	2421.9	2423.2	2421.9	2421.9	2420.5	2420.5
32.5°	2225.7	2214.6	2202.2	2191.2	2187.0	2181.5	2178.7	2174.6	2167.7	2163.5	2164.9
35°	1964.5	1939.7	1924.5	1910.7	1899.7	1891.4	1887.2	1883.1	1881.7	1876.2	1870.6
37.5°	1638.5	1620.6	1609.5	1601.2	1591.6	1583.3	1584.6	1586.0	1590.1	1587.4	1588.8
40°	1293.1	1289.0	1293.1	1283.5	1280.7	1283.5	1290.3	1300.1	1305.6	1311.1	1320.8
42.5°	983.7	990.5	1000.3	1000.3	1004.4	1009.9	1018.2	1033.4	1041.7	1051.3	1062.4
45°	740.5	748.8	761.3	765.4	768.1	775.0	784.8	797.1	802.7	811.0	820.6
47.5°	570.6	576.1	583.0	589.9	596.8	599.6	609.3	609.3	616.2	621.7	624.4
50°	444.9	450.4	455.9	460.0	462.8	467.0	469.7	473.9	475.2	478.0	479.4
52.5°	348.1	355.1	355.1	357.8	362.0	366.1	364.7	366.1	367.5	367.5	371.6
55°	272.2	272.2	276.3	276.3	279.1	277.7	279.1	279.1	279.1	279.1	280.5
57.5°	203.1	204.5	208.6	205.9	204.5	207.2	204.5	207.2	205.9	208.6	204.5
60°	156.1	156.1	157.5	157.5	158.9	158.9	158.9	157.5	157.5	156.1	156.1
62.5°	117.4	118.8	120.2	118.8	118.8	118.8	117.4	117.4	116.1	114.6	114.6
65°	78.8	77.4	80.1	77.4	78.8	78.8	77.4	78.8	74.6	76.0	74.6
67.5°	56.6	55.3	53.9	55.3	53.9	52.5	52.5	53.9	55.3	51.1	51.1
70°	37.3	38.7	37.3	38.7	40.1	40.1	38.7	37.3	38.7	35.9	37.3
72.5°	23.5	23.5	23.5	23.5	23.5	24.9	24.9	24.9	22.1	22.1	20.7
75°	11.0	15.2	12.5	11.0	15.2	15.2	13.8	13.8	12.5	12.5	12.5
77.5°	11.0	8.3	8.3	8.3	8.3	8.3	8.3	8.3	6.9	8.3	6.9
80°	5.5	5.5	5.5	4.2	5.5	5.5	6.9	5.5	5.5	4.2	6.9
82.5°	2.8	2.8	2.8	0.0	1.4	2.8	2.8	1.4	2.8	2.8	1.4
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: P248884

CATALOG NUMBER: LD8B60D010 ER8B60835 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2829.4	2829.4	2829.4	2829.4	2829.4	2829.4	2829.4	2829.4	2829.4	2829.4	2829.4
2.5°	2861.2	2859.8	2861.2	2862.6	2861.2	2859.8	2861.2	2862.6	2857.1	2855.7	2858.4
5°	2922.0	2922.0	2924.7	2926.2	2924.7	2922.0	2922.0	2916.5	2912.3	2908.2	2906.8
7.5°	2974.5	2977.3	2980.0	2981.4	2980.0	2977.3	2974.5	2966.2	2957.9	2951.0	2945.5
10°	3006.3	3010.4	3015.9	3018.7	3015.9	3010.4	3006.3	2996.6	2985.5	2974.5	2966.2
12.5°	3020.1	3024.2	3031.1	3029.8	3031.1	3024.2	3020.1	3006.3	2993.8	2978.6	2966.2
15°	3010.4	3015.9	3022.8	3025.6	3022.8	3015.9	3010.4	2996.6	2985.5	2969.0	2956.5
17.5°	2980.0	2988.3	2992.5	2996.6	2992.5	2988.3	2980.0	2969.0	2953.8	2940.0	2927.5
20°	2938.5	2944.1	2949.6	2951.0	2949.6	2944.1	2938.5	2926.2	2902.7	2899.9	2890.2
22.5°	2879.2	2883.3	2895.7	2891.6	2895.7	2883.3	2879.2	2868.1	2859.8	2844.6	2834.9
25°	2793.5	2797.6	2799.1	2800.4	2799.1	2797.6	2793.5	2783.8	2775.6	2764.5	2759.0
27.5°	2645.7	2645.7	2648.4	2649.8	2648.4	2645.7	2645.7	2638.8	2633.2	2627.7	2622.2
30°	2421.9	2421.9	2421.9	2428.8	2421.9	2421.9	2421.9	2420.5	2420.5	2421.9	2421.9
32.5°	2163.5	2160.7	2158.0	2160.7	2158.0	2160.7	2163.5	2164.9	2163.5	2167.7	2174.6
35°	1870.6	1869.2	1873.4	1867.9	1873.4	1869.2	1870.6	1870.6	1876.2	1881.7	1883.1
37.5°	1590.1	1587.4	1592.9	1587.4	1592.9	1587.4	1590.1	1588.8	1587.4	1590.1	1586.0
40°	1323.6	1326.3	1326.3	1337.4	1326.3	1326.3	1323.6	1320.8	1311.1	1305.6	1300.1
42.5°	1067.9	1076.2	1073.5	1081.8	1073.5	1076.2	1067.9	1062.4	1051.3	1041.7	1033.4
45°	826.1	831.7	831.7	834.5	831.7	831.7	826.1	820.6	811.0	802.7	797.1
47.5°	634.1	634.1	634.1	635.5	634.1	634.1	634.1	624.4	621.7	616.2	609.3
50°	482.2	483.5	485.0	486.3	485.0	483.5	482.2	479.4	478.0	475.2	473.9
52.5°	370.3	371.6	368.9	371.6	368.9	371.6	370.3	371.6	367.5	367.5	366.1
55°	280.5	279.1	280.5	281.8	280.5	279.1	280.5	280.5	279.1	279.1	279.1
57.5°	205.9	203.1	203.1	203.1	203.1	203.1	205.9	204.5	208.6	205.9	207.2
60°	153.4	154.7	154.7	156.1	154.7	154.7	153.4	156.1	156.1	157.5	157.5
62.5°	113.3	117.4	114.6	117.4	114.6	117.4	113.3	114.6	114.6	116.1	117.4
65°	73.2	73.2	73.2	74.6	73.2	73.2	73.2	74.6	76.0	74.6	78.8
67.5°	49.8	51.1	53.9	52.5	53.9	51.1	49.8	51.1	51.1	55.3	53.9
70°	40.1	35.9	35.9	40.1	35.9	35.9	40.1	37.3	35.9	38.7	37.3
72.5°	23.5	20.7	23.5	23.5	23.5	20.7	23.5	20.7	22.1	22.1	24.9
75°	12.5	11.0	9.7	13.8	9.7	11.0	12.5	12.5	12.5	12.5	13.8
77.5°	8.3	6.9	9.7	9.7	9.7	6.9	8.3	6.9	8.3	6.9	8.3
80°	4.2	5.5	4.2	6.9	4.2	5.5	4.2	6.9	4.2	5.5	5.5
82.5°	1.4	2.8	2.8	2.8	2.8	2.8	1.4	1.4	2.8	2.8	1.4
85°	0.0	2.8	1.4	1.4	1.4	2.8	0.0	0.0	0.0	0.0	0.0
87.5°	1.4	0.0	0.0	1.4	0.0	0.0	1.4	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: P248884

CATALOG NUMBER: LD8B60D010 ER8B60835 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2829.4	2829.4	2829.4	2829.4	2829.4	2829.4	2829.4	2829.4	2829.4	2829.4	2829.4
2.5°	2858.4	2854.3	2855.7	2847.4	2847.4	2844.6	2846.0	2839.1	2836.4	2833.6	2837.7
5°	2899.9	2893.0	2887.4	2875.0	2868.1	2859.8	2855.7	2844.6	2834.9	2826.6	2825.3
7.5°	2933.0	2917.8	2908.2	2891.6	2879.2	2869.5	2855.7	2840.5	2828.1	2817.0	2808.7
10°	2946.9	2931.7	2916.5	2895.7	2881.9	2863.9	2850.1	2830.8	2814.2	2799.1	2789.3
12.5°	2948.2	2928.9	2915.1	2891.6	2873.6	2854.3	2839.1	2817.0	2797.6	2782.5	2767.3
15°	2935.8	2917.8	2901.2	2876.4	2858.4	2840.5	2822.5	2799.1	2781.1	2763.1	2752.1
17.5°	2908.2	2891.6	2872.2	2848.8	2832.2	2815.6	2796.3	2776.9	2756.2	2736.8	2723.0
20°	2872.2	2854.3	2837.7	2814.2	2800.4	2782.5	2764.5	2743.8	2727.2	2707.8	2692.7
22.5°	2818.4	2801.8	2786.6	2772.8	2750.7	2736.8	2724.4	2701.0	2684.4	2666.4	2649.8
25°	2741.0	2724.4	2712.0	2695.4	2685.7	2670.5	2658.1	2637.4	2622.2	2605.6	2591.8
27.5°	2613.9	2604.2	2597.3	2587.6	2579.4	2572.4	2565.6	2549.0	2537.9	2522.7	2508.9
30°	2423.2	2421.9	2417.7	2413.6	2419.1	2419.1	2419.1	2416.3	2406.7	2395.6	2385.9
32.5°	2178.7	2181.5	2187.0	2191.2	2202.2	2214.6	2225.7	2231.2	2231.2	2224.3	2220.2
35°	1887.2	1891.4	1899.7	1910.7	1924.5	1939.7	1964.5	1970.1	1974.2	1974.2	1968.7
37.5°	1584.6	1583.3	1591.6	1601.2	1609.5	1620.6	1638.5	1642.7	1649.6	1646.8	1641.3
40°	1290.3	1283.5	1280.7	1283.5	1293.1	1289.0	1293.1	1290.3	1290.3	1280.7	1280.7
42.5°	1018.2	1009.9	1004.4	1000.3	1000.3	990.5	983.7	976.8	972.6	965.7	964.3
45°	784.8	775.0	768.1	765.4	761.3	748.8	740.5	732.2	722.5	719.8	721.2
47.5°	609.3	599.6	596.8	589.9	583.0	576.1	570.6	560.9	559.5	554.0	559.5
50°	469.7	467.0	462.8	460.0	455.9	450.4	444.9	439.3	436.6	436.6	437.9
52.5°	364.7	366.1	362.0	357.8	355.1	355.1	348.1	346.8	346.8	341.3	346.8
55°	279.1	277.7	279.1	276.3	276.3	272.2	272.2	268.0	268.0	263.9	266.6
57.5°	204.5	207.2	204.5	205.9	208.6	204.5	203.1	198.9	201.7	198.9	200.3
60°	158.9	158.9	158.9	157.5	157.5	156.1	156.1	154.7	154.7	151.9	154.7
62.5°	117.4	118.8	118.8	118.8	120.2	118.8	117.4	118.8	117.4	117.4	118.8
65°	77.4	78.8	78.8	77.4	80.1	77.4	78.8	80.1	81.5	80.1	81.5
67.5°	52.5	52.5	53.9	55.3	53.9	55.3	56.6	55.3	56.6	59.4	56.6
70°	38.7	40.1	40.1	38.7	37.3	38.7	37.3	41.5	41.5	41.5	44.2
72.5°	24.9	24.9	23.5	23.5	23.5	23.5	23.5	27.6	24.9	23.5	26.3
75°	13.8	15.2	15.2	11.0	12.5	15.2	11.0	12.5	16.6	13.8	16.6
77.5°	8.3	8.3	8.3	8.3	8.3	8.3	11.0	9.7	9.7	9.7	11.0
80°	6.9	5.5	5.5	4.2	5.5	5.5	5.5	8.3	6.9	6.9	8.3
82.5°	2.8	2.8	1.4	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	1.4	1.4	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: P248884

CATALOG NUMBER: LD8B60D010 ER8B60835 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2829.4	2829.4	2829.4	2829.4	2829.4	2829.4	2829.4	2829.4	2829.4	2829.4	2829.4
2.5°	2826.6	2826.6	2825.3	2822.5	2817.0	2817.0	2815.6	2811.5	2808.7	2807.3	2807.3
5°	2812.8	2807.3	2801.8	2786.6	2786.6	2783.8	2775.6	2770.0	2767.3	2760.3	2757.6
7.5°	2800.4	2783.8	2774.1	2764.5	2752.1	2746.5	2736.8	2732.7	2723.0	2716.1	2712.0
10°	2770.0	2759.0	2746.5	2731.3	2721.7	2710.6	2699.5	2691.3	2678.8	2671.9	2666.4
12.5°	2749.3	2732.7	2721.7	2705.1	2688.5	2678.8	2663.7	2654.0	2641.5	2627.7	2619.4
15°	2730.0	2712.0	2696.8	2678.8	2660.9	2649.8	2631.9	2620.8	2602.9	2589.1	2579.4
17.5°	2701.0	2685.7	2669.2	2647.1	2630.5	2616.7	2597.3	2583.5	2566.9	2549.0	2539.3
20°	2670.5	2652.6	2636.0	2613.9	2597.3	2580.7	2561.4	2546.2	2526.8	2510.3	2499.3
22.5°	2630.5	2609.8	2595.9	2573.8	2554.5	2536.6	2518.6	2500.6	2482.7	2468.8	2456.4
25°	2572.4	2550.3	2535.1	2517.2	2499.3	2485.4	2463.3	2452.3	2434.3	2421.9	2409.4
27.5°	2489.5	2473.0	2459.2	2441.2	2426.0	2415.0	2398.4	2387.3	2372.1	2361.1	2351.4
30°	2368.0	2354.2	2341.7	2323.8	2312.7	2303.1	2287.8	2278.2	2267.1	2254.7	2251.9
32.5°	2205.0	2193.9	2181.5	2169.0	2160.7	2155.2	2142.8	2137.3	2126.2	2119.3	2112.4
35°	1959.0	1949.4	1942.5	1937.0	1934.2	1935.5	1932.8	1938.3	1941.1	1939.7	1941.1
37.5°	1637.2	1631.6	1634.4	1638.5	1652.4	1670.3	1686.9	1711.7	1728.3	1744.9	1760.1
40°	1277.9	1282.1	1293.1	1318.0	1353.9	1394.0	1431.3	1478.3	1525.3	1558.4	1588.8
42.5°	964.3	976.8	1004.4	1040.3	1094.2	1153.6	1211.6	1280.7	1337.4	1392.6	1431.3
45°	725.3	741.9	777.8	827.6	886.9	956.0	1029.3	1106.6	1174.3	1231.0	1273.8
47.5°	565.1	580.3	616.2	668.7	741.9	813.8	889.7	969.8	1040.3	1095.6	1132.9
50°	446.2	465.6	497.3	552.6	625.9	701.8	780.6	859.3	925.7	972.6	1005.8
52.5°	350.9	368.9	399.3	457.3	531.9	607.9	681.1	758.5	816.5	862.1	884.2
55°	272.2	288.8	320.5	368.9	439.3	514.0	587.1	653.5	707.4	740.5	761.3
57.5°	207.2	219.7	241.8	290.1	353.7	422.7	485.0	551.3	592.7	616.2	630.0
60°	157.5	167.2	190.7	228.0	286.0	345.4	397.9	447.6	480.8	500.1	514.0
62.5°	118.8	129.9	146.4	178.2	222.4	270.8	315.0	352.3	379.9	392.4	402.0
65°	81.5	89.8	102.2	127.1	164.4	198.9	233.5	261.1	279.1	292.9	298.4
67.5°	60.8	66.3	73.2	92.6	118.8	146.4	169.9	189.2	208.6	214.2	223.8
70°	45.6	49.8	56.6	70.5	85.6	105.0	124.4	135.4	149.2	158.9	161.7
72.5°	29.0	30.4	37.3	45.6	58.0	70.5	82.9	92.6	100.9	106.4	109.1
75°	16.6	24.9	24.9	33.2	41.5	47.0	55.3	62.2	66.3	70.5	70.5
77.5°	11.0	15.2	16.6	20.7	24.9	31.8	38.7	42.8	47.0	48.3	48.3
80°	9.7	11.0	11.0	15.2	18.0	23.5	27.6	29.0	31.8	33.2	35.9
82.5°	4.2	5.5	6.9	11.0	12.5	12.5	16.6	18.0	20.7	22.1	22.1
85°	1.4	2.8	2.8	4.2	6.9	8.3	9.7	11.0	12.5	12.5	13.8
87.5°	1.4	1.4	0.0	1.4	2.8	2.8	5.5	5.5	5.5	8.3	8.3
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: P248884

CATALOG NUMBER: LD8B60D010 ER8B60835 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	2829.4	2829.4	2829.4	2829.4	2829.4	2829.4	2829.4
2.5°	2804.6	2805.9	2800.4	2799.1	2796.3	2797.6	2800.4
5°	2753.5	2754.8	2749.3	2743.8	2743.8	2742.4	2743.8
7.5°	2705.1	2706.5	2698.2	2695.4	2689.9	2691.3	2691.3
10°	2656.7	2656.7	2644.3	2642.9	2638.8	2637.4	2637.4
12.5°	2609.8	2605.6	2595.9	2590.4	2593.2	2584.9	2584.9
15°	2568.3	2561.4	2549.0	2544.8	2537.9	2535.1	2535.1
17.5°	2525.5	2520.0	2508.9	2500.6	2492.3	2491.0	2492.3
20°	2484.0	2478.5	2464.7	2459.2	2452.3	2452.3	2449.5
22.5°	2442.6	2437.0	2424.7	2420.5	2410.8	2410.8	2412.2
25°	2399.7	2395.6	2381.8	2379.0	2377.7	2372.1	2374.9
27.5°	2341.7	2339.0	2327.9	2323.8	2318.3	2316.9	2319.6
30°	2235.3	2231.2	2222.9	2218.8	2209.1	2210.5	2213.2
32.5°	2102.7	2097.2	2086.1	2082.0	2073.7	2070.9	2072.3
35°	1937.0	1932.8	1923.2	1923.2	1914.8	1912.1	1914.8
37.5°	1768.4	1772.5	1768.4	1772.5	1768.4	1767.0	1768.4
40°	1609.5	1624.7	1627.4	1642.7	1637.2	1645.4	1644.1
42.5°	1457.5	1482.4	1492.1	1504.5	1501.8	1507.3	1511.4
45°	1304.2	1324.9	1334.6	1342.9	1344.3	1347.0	1348.4
47.5°	1159.1	1175.7	1177.1	1186.7	1185.4	1185.4	1189.5
50°	1023.8	1034.8	1037.5	1044.5	1038.9	1036.2	1037.5
52.5°	898.0	909.1	906.3	909.1	902.2	899.4	900.8
55°	769.5	775.0	775.0	775.0	766.8	766.8	766.8
57.5°	638.3	639.7	636.9	638.3	636.9	628.6	627.2
60°	518.1	518.1	516.7	518.1	514.0	509.8	509.8
62.5°	404.8	407.6	413.1	407.6	404.8	407.6	403.4
65°	302.6	308.1	306.7	309.5	308.1	308.1	305.3
67.5°	228.0	229.3	230.7	232.1	232.1	232.1	232.1
70°	167.2	171.3	169.9	169.9	169.9	169.9	178.2
72.5°	111.9	117.4	116.1	118.8	118.8	121.6	118.8
75°	76.0	81.5	78.8	82.9	81.5	78.8	85.6
77.5°	51.1	53.9	55.3	56.6	55.3	53.9	55.3
80°	35.9	38.7	37.3	38.7	38.7	38.7	40.1
82.5°	22.1	26.3	24.9	26.3	24.9	26.3	26.3
85°	15.2	16.6	13.8	16.6	15.2	15.2	18.0
87.5°	9.7	8.3	8.3	9.7	8.3	9.7	8.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)