

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: P248740

Luminaire Tested: **LD8B60D010 ER8B60927 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248740
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 ER8B60927 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 2700 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4843.1 lumens
Efficiency: N/A
Efficacy: 81.4 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

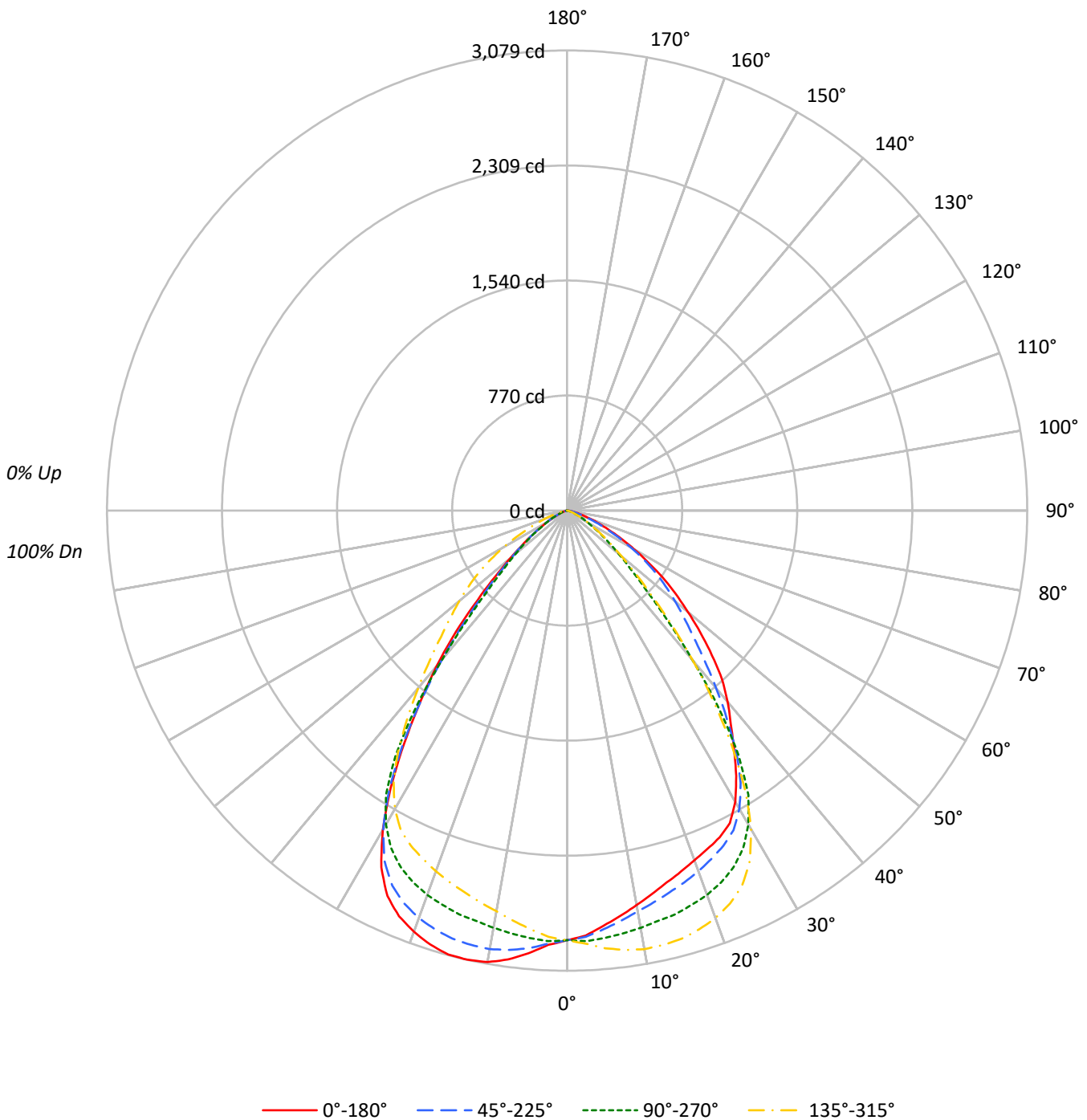
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	273.7	5.7
10°-20°	792.5	16.4
20°-30°	1200.0	24.8
30°-40°	1202.7	24.8
40°-50°	755.2	15.6
50°-60°	402.5	8.3
60°-70°	165.5	3.4
70°-80°	43.7	0.9
80°-90°	7.4	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°	2266.1	46.8
0°-40°	3468.8	71.6
0°-60°	4626.5	95.5
0°-90°	4843.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4843.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2875	2875	2875	2875	2875	
5°	2788	2871	2974	2871	2788	263
15°	2576	2797	3075	2797	2576	729
25°	2413	2634	2846	2634	2413	1107
35°	1946	2001	1898	2001	1946	1219
45°	1370	733	848	733	1370	1054
55°	779	271	286	271	779	695
65°	310	83	76	83	310	322
75°	87	17	14	17	87	99
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°	2875.2	2875.2	2875.2	2875.2	2875.2	2875.2	2875.2	2875.2	2875.2	2875.2	2875.2
2.5°	2845.7	2842.9	2841.5	2844.3	2845.7	2851.3	2850.0	2852.8	2852.8	2854.1	2856.9
5°	2788.2	2786.7	2788.2	2788.2	2793.8	2799.5	2798.0	2802.3	2805.0	2812.0	2814.9
7.5°	2734.9	2734.9	2733.4	2739.0	2741.8	2750.3	2748.8	2755.9	2760.1	2767.0	2777.0
10°	2680.1	2680.1	2681.4	2685.7	2687.1	2699.7	2699.7	2709.6	2715.2	2722.2	2734.9
12.5°	2626.8	2626.8	2635.2	2632.4	2637.9	2647.8	2652.0	2661.8	2670.2	2684.2	2697.0
15°	2576.1	2576.1	2579.0	2586.0	2590.2	2602.9	2609.9	2621.1	2630.9	2645.0	2663.2
17.5°	2532.6	2531.2	2532.6	2541.0	2549.5	2560.7	2566.4	2580.4	2590.2	2608.4	2625.3
20°	2489.2	2492.0	2492.0	2499.0	2504.6	2518.6	2524.2	2539.7	2550.9	2567.7	2587.4
22.5°	2451.3	2449.8	2449.8	2459.7	2463.9	2476.5	2482.1	2496.2	2508.8	2522.8	2541.0
25°	2413.4	2410.5	2416.2	2417.5	2420.3	2434.4	2438.5	2448.5	2461.0	2473.8	2492.0
27.5°	2357.2	2354.4	2355.8	2361.4	2365.5	2376.8	2379.6	2389.5	2399.3	2410.5	2426.0
30°	2249.0	2246.3	2244.8	2254.7	2258.9	2267.3	2271.5	2288.4	2291.2	2303.8	2315.0
32.5°	2105.9	2104.4	2107.2	2115.7	2119.8	2131.2	2136.7	2146.6	2153.6	2160.7	2171.8
35°	1945.8	1943.0	1945.8	1954.2	1954.2	1964.1	1968.3	1972.5	1971.1	1972.5	1969.6
37.5°	1797.1	1795.6	1797.1	1801.2	1797.1	1801.2	1797.1	1788.6	1773.2	1756.4	1739.5
40°	1670.6	1672.1	1663.6	1669.3	1653.8	1651.0	1635.5	1614.5	1583.7	1549.9	1502.2
42.5°	1535.9	1531.7	1526.1	1528.9	1516.3	1506.4	1481.1	1454.5	1415.1	1359.0	1301.4
45°	1370.2	1368.8	1366.0	1364.6	1356.2	1346.4	1325.2	1294.4	1250.9	1193.3	1124.6
47.5°	1208.8	1204.5	1204.5	1205.9	1196.1	1194.8	1177.9	1151.2	1113.3	1057.2	985.5
50°	1054.4	1052.9	1055.7	1061.3	1054.4	1051.5	1040.3	1022.1	988.4	940.6	873.2
52.5°	915.3	914.0	916.8	923.7	920.9	923.7	912.6	898.5	876.0	829.7	770.7
55°	779.2	779.2	779.2	787.6	787.6	787.6	782.0	773.6	752.5	718.8	664.1
57.5°	637.4	638.8	647.2	648.6	647.2	650.0	648.6	640.1	626.2	602.3	560.1
60°	518.1	518.1	522.2	526.5	525.0	526.5	526.5	522.2	508.3	488.6	454.8
62.5°	410.0	414.1	411.3	414.1	419.7	414.1	411.3	408.6	398.7	386.1	358.0
65°	310.3	313.1	313.1	314.4	311.6	313.1	307.5	303.3	297.7	283.6	265.4
67.5°	235.9	235.9	235.9	235.9	234.4	233.1	231.6	227.5	217.6	212.1	192.3
70°	181.1	172.7	172.7	172.7	172.7	174.2	169.9	164.2	161.4	151.6	137.6
72.5°	120.7	123.5	120.7	120.7	117.9	119.4	113.7	110.9	108.1	102.5	94.0
75°	87.1	80.0	82.8	84.3	80.0	82.8	77.2	71.6	71.6	67.4	63.1
77.5°	56.1	54.8	56.1	57.6	56.1	54.8	52.0	49.2	49.2	47.7	43.5
80°	40.7	39.3	39.3	39.3	37.9	39.3	36.6	36.6	33.6	32.3	29.5
82.5°	26.7	26.7	25.2	26.7	25.2	26.7	22.5	22.5	22.5	21.0	18.2
85°	18.2	15.4	15.4	16.9	14.1	16.9	15.4	14.1	12.6	12.6	11.2
87.5°	8.4	9.8	8.4	9.8	8.4	8.4	9.8	8.4	8.4	5.6	5.6
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°	2875.2	2875.2	2875.2	2875.2	2875.2	2875.2	2875.2	2875.2	2875.2	2875.2	2875.2
2.5°	2861.2	2862.6	2862.6	2868.2	2871.0	2872.4	2872.4	2883.6	2879.4	2882.2	2885.1
5°	2820.5	2828.8	2831.7	2831.7	2847.2	2852.8	2858.3	2871.0	2872.4	2880.8	2890.7
7.5°	2781.1	2791.0	2796.6	2809.2	2819.0	2828.8	2845.7	2854.1	2862.6	2873.8	2886.4
10°	2743.2	2754.5	2765.7	2775.5	2791.0	2803.6	2814.9	2834.4	2844.3	2859.8	2876.6
12.5°	2706.8	2722.2	2732.1	2748.8	2765.7	2777.0	2793.8	2812.0	2827.5	2842.9	2862.6
15°	2674.5	2692.7	2703.9	2722.2	2740.5	2755.9	2774.1	2796.6	2807.8	2826.1	2844.3
17.5°	2639.4	2659.0	2673.1	2689.9	2712.4	2729.1	2744.7	2767.0	2781.1	2800.8	2821.8
20°	2602.9	2622.5	2639.4	2656.2	2678.6	2695.5	2713.7	2736.2	2751.6	2771.3	2788.2
22.5°	2559.4	2577.6	2595.8	2615.5	2637.9	2652.0	2673.1	2692.7	2709.6	2727.8	2744.7
25°	2503.2	2525.6	2539.7	2557.9	2576.1	2591.5	2614.0	2633.7	2647.8	2664.7	2680.1
27.5°	2437.2	2454.1	2465.3	2480.7	2499.0	2513.0	2529.8	2549.5	2563.5	2579.0	2590.2
30°	2324.8	2340.3	2350.1	2361.4	2379.6	2392.3	2406.4	2424.5	2434.4	2445.6	2455.4
32.5°	2177.4	2190.2	2195.7	2204.1	2216.8	2229.4	2240.7	2256.1	2260.4	2267.3	2267.3
35°	1964.1	1966.8	1965.5	1968.3	1973.9	1980.9	1990.7	2000.6	2006.2	2006.2	2002.0
37.5°	1714.2	1697.4	1679.1	1665.0	1660.8	1658.0	1663.6	1667.8	1673.4	1676.2	1669.3
40°	1454.5	1416.6	1375.9	1339.3	1314.1	1302.9	1298.6	1301.4	1301.4	1311.2	1311.2
42.5°	1231.2	1172.2	1112.0	1057.2	1020.6	992.6	980.0	980.0	981.3	988.4	992.6
45°	1045.9	971.6	901.2	840.9	790.4	753.9	737.1	732.8	731.5	734.3	744.1
47.5°	904.2	826.9	753.9	679.5	626.2	589.6	574.2	568.6	562.9	568.6	570.0
50°	793.2	713.2	636.0	561.6	505.4	473.1	453.5	445.0	443.6	443.6	446.4
52.5°	692.1	617.7	540.6	464.7	405.7	374.8	356.6	352.3	346.7	352.3	352.3
55°	596.6	522.2	446.4	374.8	325.7	293.4	276.5	271.0	268.1	272.4	272.4
57.5°	492.8	429.6	359.4	294.9	245.7	223.2	210.6	203.6	202.2	205.0	202.2
60°	404.3	351.0	290.6	231.6	193.7	169.9	160.1	157.3	154.4	157.3	157.3
62.5°	320.1	275.2	226.0	181.1	148.8	132.0	120.7	120.7	119.4	119.4	120.7
65°	237.3	202.2	167.1	129.2	104.0	91.2	82.8	82.8	81.4	82.8	81.4
67.5°	172.7	148.8	120.7	94.0	74.5	67.4	61.8	57.6	60.4	57.6	56.1
70°	126.3	106.6	87.1	71.6	57.6	50.5	46.4	44.9	42.1	42.1	42.1
72.5°	84.3	71.6	59.0	46.4	37.9	30.8	29.5	26.7	23.8	25.2	28.1
75°	56.1	47.7	42.1	33.6	25.2	25.2	16.9	16.9	14.1	16.9	12.6
77.5°	39.3	32.3	25.2	21.0	16.9	15.4	11.2	11.2	9.8	9.8	9.8
80°	28.1	23.8	18.2	15.4	11.2	11.2	9.8	8.4	7.0	7.0	8.4
82.5°	16.9	12.6	12.6	11.2	7.0	5.6	4.2	5.6	2.8	2.8	2.8
85°	9.8	8.4	7.0	4.2	2.8	2.8	1.3	0.0	1.3	1.3	0.0
87.5°	5.6	2.8	2.8	1.3	0.0	1.3	1.3	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°	2875.2	2875.2	2875.2	2875.2	2875.2	2875.2	2875.2	2875.2	2875.2	2875.2	2875.2
2.5°	2892.0	2890.7	2893.5	2893.5	2901.9	2900.5	2904.6	2904.6	2901.9	2903.3	2908.9
5°	2901.9	2906.1	2914.5	2921.5	2934.1	2939.8	2946.8	2953.9	2955.3	2959.4	2963.7
7.5°	2901.9	2916.0	2925.8	2938.4	2955.3	2965.0	2980.5	2993.2	2998.8	3005.8	3014.2
10°	2896.2	2910.3	2928.6	2942.5	2963.7	2979.1	2994.5	3014.2	3022.6	3033.8	3045.2
12.5°	2885.1	2900.5	2920.2	2938.4	2962.2	2976.3	2995.9	3014.2	3026.8	3042.2	3054.9
15°	2868.2	2886.4	2904.6	2923.0	2948.2	2965.0	2983.3	3004.3	3017.0	3033.8	3045.2
17.5°	2841.5	2861.2	2878.1	2894.8	2918.7	2938.4	2955.3	2974.8	2987.5	3001.6	3017.0
20°	2809.2	2827.5	2845.7	2859.8	2883.6	2900.5	2918.7	2937.0	2946.8	2949.6	2973.5
22.5°	2768.5	2781.1	2795.2	2817.7	2831.7	2847.2	2864.0	2880.8	2890.7	2906.1	2914.5
25°	2701.1	2713.7	2729.1	2739.0	2755.9	2768.5	2785.4	2803.6	2809.2	2820.5	2828.8
27.5°	2607.1	2614.0	2621.1	2629.5	2639.4	2646.3	2656.2	2664.7	2670.2	2675.8	2681.4
30°	2458.2	2458.2	2458.2	2452.6	2456.9	2461.0	2462.4	2461.0	2461.0	2459.7	2459.7
32.5°	2261.7	2250.5	2237.8	2226.6	2222.4	2216.8	2214.0	2209.7	2202.8	2198.6	2199.9
35°	1996.3	1971.1	1955.7	1941.6	1930.4	1922.0	1917.8	1913.5	1912.2	1906.5	1900.9
37.5°	1665.0	1646.8	1635.5	1627.1	1617.3	1608.9	1610.3	1611.7	1615.8	1613.1	1614.5
40°	1314.1	1309.8	1314.1	1304.2	1301.4	1304.2	1311.2	1321.1	1326.7	1332.3	1342.1
42.5°	999.6	1006.5	1016.4	1016.4	1020.6	1026.3	1034.7	1050.2	1058.5	1068.3	1079.7
45°	752.5	760.9	773.6	777.7	780.5	787.6	797.4	810.0	815.6	824.1	834.0
47.5°	579.8	585.4	592.4	599.5	606.5	609.3	619.1	619.1	626.2	631.8	634.5
50°	452.0	457.6	463.3	467.4	470.4	474.5	477.3	481.5	483.0	485.8	487.1
52.5°	353.8	360.8	360.8	363.6	367.8	372.0	370.7	372.0	373.4	373.4	377.7
55°	276.5	276.5	280.8	280.8	283.6	282.2	283.6	283.6	283.6	283.6	285.0
57.5°	206.3	207.8	212.1	209.1	207.8	210.6	207.8	210.6	209.1	212.1	207.8
60°	158.6	158.6	160.1	160.1	161.4	161.4	161.4	160.1	160.1	158.6	158.6
62.5°	119.4	120.7	122.2	120.7	120.7	120.7	119.4	119.4	117.9	116.6	116.6
65°	80.0	78.6	81.4	78.6	80.0	80.0	78.6	80.0	75.8	77.2	75.8
67.5°	57.6	56.1	54.8	56.1	54.8	53.3	53.3	54.8	56.1	52.0	52.0
70°	37.9	39.3	37.9	39.3	40.7	40.7	39.3	37.9	39.3	36.6	37.9
72.5°	23.8	23.8	23.8	23.8	23.8	25.2	25.2	25.2	22.5	22.5	21.0
75°	11.2	15.4	12.6	11.2	15.4	15.4	14.1	14.1	12.6	12.6	12.6
77.5°	11.2	8.4	8.4	8.4	8.4	8.4	8.4	8.4	7.0	8.4	7.0
80°	5.6	5.6	5.6	4.2	5.6	5.6	7.0	5.6	5.6	4.2	7.0
82.5°	2.8	2.8	2.8	0.0	1.3	2.8	2.8	1.3	2.8	2.8	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: P248740

CATALOG NUMBER: LD8B60D010 ER8B60927 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2875.2	2875.2	2875.2	2875.2	2875.2	2875.2	2875.2	2875.2	2875.2	2875.2	2875.2
2.5°	2907.6	2906.1	2907.6	2908.9	2907.6	2906.1	2907.6	2908.9	2903.3	2901.9	2904.6
5°	2969.3	2969.3	2972.0	2973.5	2972.0	2969.3	2969.3	2963.7	2959.4	2955.3	2953.9
7.5°	3022.6	3025.5	3028.3	3029.6	3028.3	3025.5	3022.6	3014.2	3005.8	2998.8	2993.2
10°	3054.9	3059.1	3064.7	3067.5	3064.7	3059.1	3054.9	3045.2	3033.8	3022.6	3014.2
12.5°	3069.0	3073.2	3080.1	3078.8	3080.1	3073.2	3069.0	3054.9	3042.2	3026.8	3014.2
15°	3059.1	3064.7	3071.7	3074.6	3071.7	3064.7	3059.1	3045.2	3033.8	3017.0	3004.3
17.5°	3028.3	3036.7	3040.9	3045.2	3040.9	3036.7	3028.3	3017.0	3001.6	2987.5	2974.8
20°	2986.1	2991.7	2997.3	2998.8	2997.3	2991.7	2986.1	2973.5	2949.6	2946.8	2937.0
22.5°	2925.8	2930.0	2942.5	2938.4	2942.5	2930.0	2925.8	2914.5	2906.1	2890.7	2880.8
25°	2838.7	2842.9	2844.3	2845.7	2844.3	2842.9	2838.7	2828.8	2820.5	2809.2	2803.6
27.5°	2688.5	2688.5	2691.2	2692.7	2691.2	2688.5	2688.5	2681.4	2675.8	2670.2	2664.7
30°	2461.0	2461.0	2461.0	2468.1	2461.0	2461.0	2461.0	2459.7	2459.7	2461.0	2461.0
32.5°	2198.6	2195.7	2193.0	2195.7	2193.0	2195.7	2198.6	2199.9	2198.6	2202.8	2209.7
35°	1900.9	1899.4	1903.7	1898.1	1903.7	1899.4	1900.9	1900.9	1906.5	1912.2	1913.5
37.5°	1615.8	1613.1	1618.8	1613.1	1618.8	1613.1	1615.8	1614.5	1613.1	1615.8	1611.7
40°	1344.9	1347.8	1347.8	1359.0	1347.8	1347.8	1344.9	1342.1	1332.3	1326.7	1321.1
42.5°	1085.2	1093.6	1090.8	1099.2	1090.8	1093.6	1085.2	1079.7	1068.3	1058.5	1050.2
45°	839.5	845.2	845.2	847.9	845.2	845.2	839.5	834.0	824.1	815.6	810.0
47.5°	644.4	644.4	644.4	645.9	644.4	644.4	644.4	634.5	631.8	626.2	619.1
50°	489.9	491.4	492.8	494.2	492.8	491.4	489.9	487.1	485.8	483.0	481.5
52.5°	376.2	377.7	374.8	377.7	374.8	377.7	376.2	377.7	373.4	373.4	372.0
55°	285.0	283.6	285.0	286.4	285.0	283.6	285.0	285.0	283.6	283.6	283.6
57.5°	209.1	206.3	206.3	206.3	206.3	206.3	209.1	207.8	212.1	209.1	210.6
60°	155.8	157.3	157.3	158.6	157.3	157.3	155.8	158.6	158.6	160.1	160.1
62.5°	115.1	119.4	116.6	119.4	116.6	119.4	115.1	116.6	116.6	117.9	119.4
65°	74.5	74.5	74.5	75.8	74.5	74.5	74.5	75.8	77.2	75.8	80.0
67.5°	50.5	52.0	54.8	53.3	54.8	52.0	50.5	52.0	52.0	56.1	54.8
70°	40.7	36.6	36.6	40.7	36.6	36.6	40.7	37.9	36.6	39.3	37.9
72.5°	23.8	21.0	23.8	23.8	23.8	21.0	23.8	21.0	22.5	22.5	25.2
75°	12.6	11.2	9.8	14.1	9.8	11.2	12.6	12.6	12.6	12.6	14.1
77.5°	8.4	7.0	9.8	9.8	9.8	7.0	8.4	7.0	8.4	7.0	8.4
80°	4.2	5.6	4.2	7.0	4.2	5.6	4.2	7.0	4.2	5.6	5.6
82.5°	1.3	2.8	2.8	2.8	2.8	2.8	1.3	1.3	2.8	2.8	1.3
85°	0.0	2.8	1.3	1.3	1.3	2.8	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: P248740

CATALOG NUMBER: LD8B60D010 ER8B60927 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2875.2	2875.2	2875.2	2875.2	2875.2	2875.2	2875.2	2875.2	2875.2	2875.2	2875.2
2.5°	2904.6	2900.5	2901.9	2893.5	2893.5	2890.7	2892.0	2885.1	2882.2	2879.4	2883.6
5°	2946.8	2939.8	2934.1	2921.5	2914.5	2906.1	2901.9	2890.7	2880.8	2872.4	2871.0
7.5°	2980.5	2965.0	2955.3	2938.4	2925.8	2916.0	2901.9	2886.4	2873.8	2862.6	2854.1
10°	2994.5	2979.1	2963.7	2942.5	2928.6	2910.3	2896.2	2876.6	2859.8	2844.3	2834.4
12.5°	2995.9	2976.3	2962.2	2938.4	2920.2	2900.5	2885.1	2862.6	2842.9	2827.5	2812.0
15°	2983.3	2965.0	2948.2	2923.0	2904.6	2886.4	2868.2	2844.3	2826.1	2807.8	2796.6
17.5°	2955.3	2938.4	2918.7	2894.8	2878.1	2861.2	2841.5	2821.8	2800.8	2781.1	2767.0
20°	2918.7	2900.5	2883.6	2859.8	2845.7	2827.5	2809.2	2788.2	2771.3	2751.6	2736.2
22.5°	2864.0	2847.2	2831.7	2817.7	2795.2	2781.1	2768.5	2744.7	2727.8	2709.6	2692.7
25°	2785.4	2768.5	2755.9	2739.0	2729.1	2713.7	2701.1	2680.1	2664.7	2647.8	2633.7
27.5°	2656.2	2646.3	2639.4	2629.5	2621.1	2614.0	2607.1	2590.2	2579.0	2563.5	2549.5
30°	2462.4	2461.0	2456.9	2452.6	2458.2	2458.2	2458.2	2455.4	2445.6	2434.4	2424.5
32.5°	2214.0	2216.8	2222.4	2226.6	2237.8	2250.5	2261.7	2267.3	2267.3	2260.4	2256.1
35°	1917.8	1922.0	1930.4	1941.6	1955.7	1971.1	1996.3	2002.0	2006.2	2006.2	2000.6
37.5°	1610.3	1608.9	1617.3	1627.1	1635.5	1646.8	1665.0	1669.3	1676.2	1673.4	1667.8
40°	1311.2	1304.2	1301.4	1304.2	1314.1	1309.8	1314.1	1311.2	1311.2	1301.4	1301.4
42.5°	1034.7	1026.3	1020.6	1016.4	1016.4	1006.5	999.6	992.6	988.4	981.3	980.0
45°	797.4	787.6	780.5	777.7	773.6	760.9	752.5	744.1	734.3	731.5	732.8
47.5°	619.1	609.3	606.5	599.5	592.4	585.4	579.8	570.0	568.6	562.9	568.6
50°	477.3	474.5	470.4	467.4	463.3	457.6	452.0	446.4	443.6	443.6	445.0
52.5°	370.7	372.0	367.8	363.6	360.8	360.8	353.8	352.3	352.3	346.7	352.3
55°	283.6	282.2	283.6	280.8	280.8	276.5	276.5	272.4	272.4	268.1	271.0
57.5°	207.8	210.6	207.8	209.1	212.1	207.8	206.3	202.2	205.0	202.2	203.6
60°	161.4	161.4	161.4	160.1	160.1	158.6	158.6	157.3	157.3	154.4	157.3
62.5°	119.4	120.7	120.7	120.7	122.2	120.7	119.4	120.7	119.4	119.4	120.7
65°	78.6	80.0	80.0	78.6	81.4	78.6	80.0	81.4	82.8	81.4	82.8
67.5°	53.3	53.3	54.8	56.1	54.8	56.1	57.6	56.1	57.6	60.4	57.6
70°	39.3	40.7	40.7	39.3	37.9	39.3	37.9	42.1	42.1	42.1	44.9
72.5°	25.2	25.2	23.8	23.8	23.8	23.8	23.8	28.1	25.2	23.8	26.7
75°	14.1	15.4	15.4	11.2	12.6	15.4	11.2	12.6	16.9	14.1	16.9
77.5°	8.4	8.4	8.4	8.4	8.4	8.4	11.2	9.8	9.8	9.8	11.2
80°	7.0	5.6	5.6	4.2	5.6	5.6	5.6	8.4	7.0	7.0	8.4
82.5°	2.8	2.8	1.3	0.0	2.8	2.8	2.8	2.8	2.8	2.8	5.6
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	2.8	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: P248740

CATALOG NUMBER: LD8B60D010 ER8B60927 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2875.2	2875.2	2875.2	2875.2	2875.2	2875.2	2875.2	2875.2	2875.2	2875.2	2875.2
2.5°	2872.4	2872.4	2871.0	2868.2	2862.6	2862.6	2861.2	2856.9	2854.1	2852.8	2852.8
5°	2858.3	2852.8	2847.2	2831.7	2831.7	2828.8	2820.5	2814.9	2812.0	2805.0	2802.3
7.5°	2845.7	2828.8	2819.0	2809.2	2796.6	2791.0	2781.1	2777.0	2767.0	2760.1	2755.9
10°	2814.9	2803.6	2791.0	2775.5	2765.7	2754.5	2743.2	2734.9	2722.2	2715.2	2709.6
12.5°	2793.8	2777.0	2765.7	2748.8	2732.1	2722.2	2706.8	2697.0	2684.2	2670.2	2661.8
15°	2774.1	2755.9	2740.5	2722.2	2703.9	2692.7	2674.5	2663.2	2645.0	2630.9	2621.1
17.5°	2744.7	2729.1	2712.4	2689.9	2673.1	2659.0	2639.4	2625.3	2608.4	2590.2	2580.4
20°	2713.7	2695.5	2678.6	2656.2	2639.4	2622.5	2602.9	2587.4	2567.7	2550.9	2539.7
22.5°	2673.1	2652.0	2637.9	2615.5	2595.8	2577.6	2559.4	2541.0	2522.8	2508.8	2496.2
25°	2614.0	2591.5	2576.1	2557.9	2539.7	2525.6	2503.2	2492.0	2473.8	2461.0	2448.5
27.5°	2529.8	2513.0	2499.0	2480.7	2465.3	2454.1	2437.2	2426.0	2410.5	2399.3	2389.5
30°	2406.4	2392.3	2379.6	2361.4	2350.1	2340.3	2324.8	2315.0	2303.8	2291.2	2288.4
32.5°	2240.7	2229.4	2216.8	2204.1	2195.7	2190.2	2177.4	2171.8	2160.7	2153.6	2146.6
35°	1990.7	1980.9	1973.9	1968.3	1965.5	1966.8	1964.1	1969.6	1972.5	1971.1	1972.5
37.5°	1663.6	1658.0	1660.8	1665.0	1679.1	1697.4	1714.2	1739.5	1756.4	1773.2	1788.6
40°	1298.6	1302.9	1314.1	1339.3	1375.9	1416.6	1454.5	1502.2	1549.9	1583.7	1614.5
42.5°	980.0	992.6	1020.6	1057.2	1112.0	1172.2	1231.2	1301.4	1359.0	1415.1	1454.5
45°	737.1	753.9	790.4	840.9	901.2	971.6	1045.9	1124.6	1193.3	1250.9	1294.4
47.5°	574.2	589.6	626.2	679.5	753.9	826.9	904.2	985.5	1057.2	1113.3	1151.2
50°	453.5	473.1	505.4	561.6	636.0	713.2	793.2	873.2	940.6	988.4	1022.1
52.5°	356.6	374.8	405.7	464.7	540.6	617.7	692.1	770.7	829.7	876.0	898.5
55°	276.5	293.4	325.7	374.8	446.4	522.2	596.6	664.1	718.8	752.5	773.6
57.5°	210.6	223.2	245.7	294.9	359.4	429.6	492.8	560.1	602.3	626.2	640.1
60°	160.1	169.9	193.7	231.6	290.6	351.0	404.3	454.8	488.6	508.3	522.2
62.5°	120.7	132.0	148.8	181.1	226.0	275.2	320.1	358.0	386.1	398.7	408.6
65°	82.8	91.2	104.0	129.2	167.1	202.2	237.3	265.4	283.6	297.7	303.3
67.5°	61.8	67.4	74.5	94.0	120.7	148.8	172.7	192.3	212.1	217.6	227.5
70°	46.4	50.5	57.6	71.6	87.1	106.6	126.3	137.6	151.6	161.4	164.2
72.5°	29.5	30.8	37.9	46.4	59.0	71.6	84.3	94.0	102.5	108.1	110.9
75°	16.9	25.2	25.2	33.6	42.1	47.7	56.1	63.1	67.4	71.6	71.6
77.5°	11.2	15.4	16.9	21.0	25.2	32.3	39.3	43.5	47.7	49.2	49.2
80°	9.8	11.2	11.2	15.4	18.2	23.8	28.1	29.5	32.3	33.6	36.6
82.5°	4.2	5.6	7.0	11.2	12.6	12.6	16.9	18.2	21.0	22.5	22.5
85°	1.3	2.8	2.8	4.2	7.0	8.4	9.8	11.2	12.6	12.6	14.1
87.5°	1.3	1.3	0.0	1.3	2.8	2.8	5.6	5.6	5.6	8.4	8.4
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: P248740

CATALOG NUMBER: LD8B60D010 ER8B60927 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2875.2	2875.2	2875.2	2875.2	2875.2	2875.2	2875.2
2.5°	2850.0	2851.3	2845.7	2844.3	2841.5	2842.9	2845.7
5°	2798.0	2799.5	2793.8	2788.2	2788.2	2786.7	2788.2
7.5°	2748.8	2750.3	2741.8	2739.0	2733.4	2734.9	2734.9
10°	2699.7	2699.7	2687.1	2685.7	2681.4	2680.1	2680.1
12.5°	2652.0	2647.8	2637.9	2632.4	2635.2	2626.8	2626.8
15°	2609.9	2602.9	2590.2	2586.0	2579.0	2576.1	2576.1
17.5°	2566.4	2560.7	2549.5	2541.0	2532.6	2531.2	2532.6
20°	2524.2	2518.6	2504.6	2499.0	2492.0	2492.0	2489.2
22.5°	2482.1	2476.5	2463.9	2459.7	2449.8	2449.8	2451.3
25°	2438.5	2434.4	2420.3	2417.5	2416.2	2410.5	2413.4
27.5°	2379.6	2376.8	2365.5	2361.4	2355.8	2354.4	2357.2
30°	2271.5	2267.3	2258.9	2254.7	2244.8	2246.3	2249.0
32.5°	2136.7	2131.2	2119.8	2115.7	2107.2	2104.4	2105.9
35°	1968.3	1964.1	1954.2	1954.2	1945.8	1943.0	1945.8
37.5°	1797.1	1801.2	1797.1	1801.2	1797.1	1795.6	1797.1
40°	1635.5	1651.0	1653.8	1669.3	1663.6	1672.1	1670.6
42.5°	1481.1	1506.4	1516.3	1528.9	1526.1	1531.7	1535.9
45°	1325.2	1346.4	1356.2	1364.6	1366.0	1368.8	1370.2
47.5°	1177.9	1194.8	1196.1	1205.9	1204.5	1204.5	1208.8
50°	1040.3	1051.5	1054.4	1061.3	1055.7	1052.9	1054.4
52.5°	912.6	923.7	920.9	923.7	916.8	914.0	915.3
55°	782.0	787.6	787.6	787.6	779.2	779.2	779.2
57.5°	648.6	650.0	647.2	648.6	647.2	638.8	637.4
60°	526.5	526.5	525.0	526.5	522.2	518.1	518.1
62.5°	411.3	414.1	419.7	414.1	411.3	414.1	410.0
65°	307.5	313.1	311.6	314.4	313.1	313.1	310.3
67.5°	231.6	233.1	234.4	235.9	235.9	235.9	235.9
70°	169.9	174.2	172.7	172.7	172.7	172.7	181.1
72.5°	113.7	119.4	117.9	120.7	120.7	123.5	120.7
75°	77.2	82.8	80.0	84.3	82.8	80.0	87.1
77.5°	52.0	54.8	56.1	57.6	56.1	54.8	56.1
80°	36.6	39.3	37.9	39.3	39.3	39.3	40.7
82.5°	22.5	26.7	25.2	26.7	25.2	26.7	26.7
85°	15.4	16.9	14.1	16.9	15.4	15.4	18.2
87.5°	9.8	8.4	8.4	9.8	8.4	9.8	8.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)