

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: P249073

Luminaire Tested: **LD8B60D010 ER8B60930 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249073
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 ER8B60930 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5096.1 lumens
Efficiency: N/A
Efficacy: 85.6 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

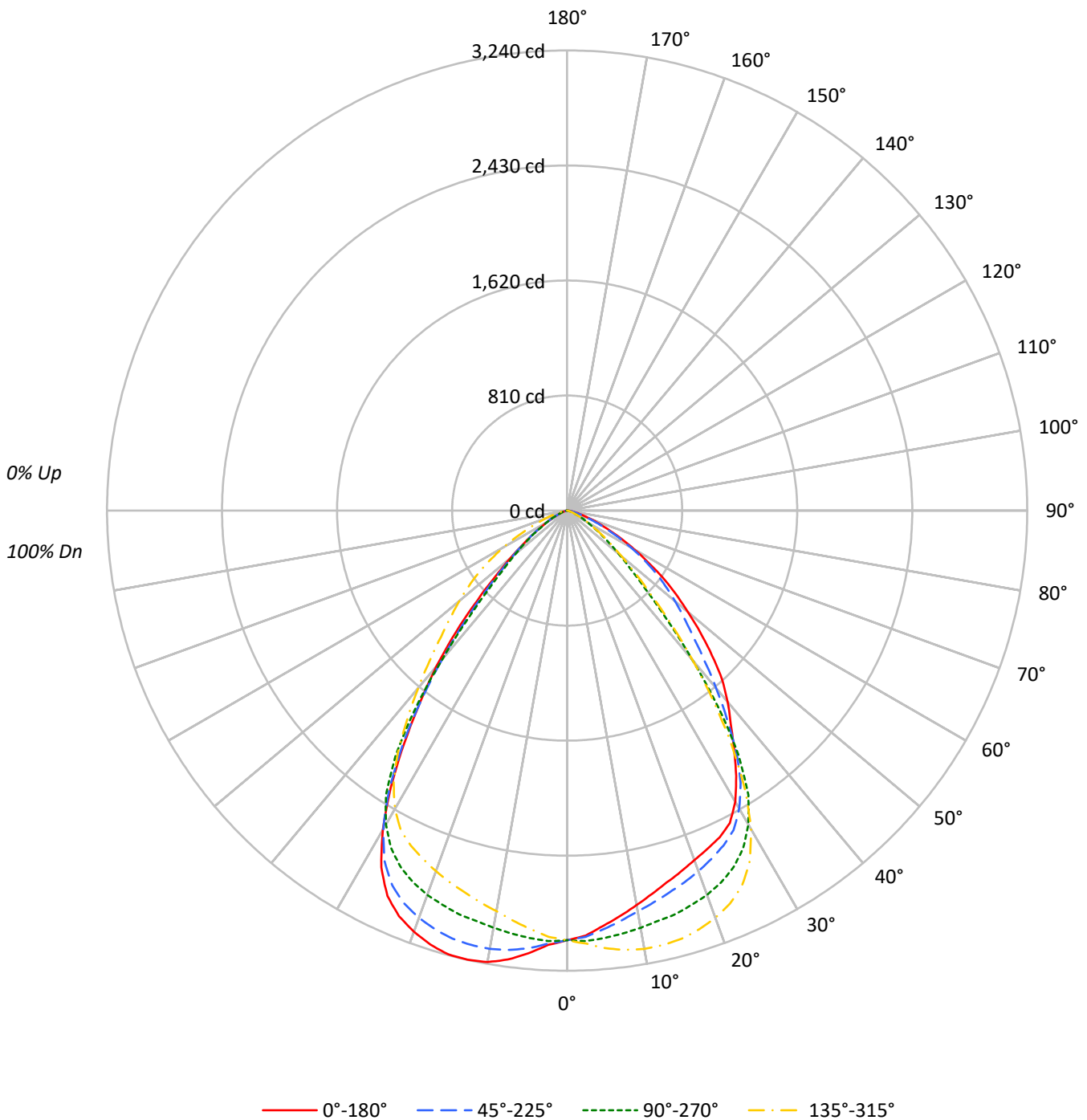
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P249073

CATALOG NUMBER: LD8B60D010 ER8B60930 8LBSW0MW

Luminous Intensity Polar Plot





TEST NUMBER: P249073

CATALOG NUMBER: LD8B60D010 ER8B60930 8LBSW0MW

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°				



TEST NUMBER: P249073

CATALOG NUMBER: LD8B60D010 ER8B60930 8LBSW0MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.0	5.7
10°-20°	833.9	16.4
20°-30°	1262.7	24.8
30°-40°	1265.5	24.8
40°-50°	794.7	15.6
50°-60°	423.5	8.3
60°-70°	174.1	3.4
70°-80°	46.0	0.9
80°-90°	7.8	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°	2384.5	46.8
0°-40°	3650.0	71.6
0°-60°	4868.1	95.5
0°-90°	5096.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5096.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3025	3025	3025	3025	3025	
5°	2934	3021	3129	3021	2934	277
15°	2711	2943	3235	2943	2711	767
25°	2539	2771	2994	2771	2539	1165
35°	2048	2105	1997	2105	2048	1283
45°	1442	771	892	771	1442	1109
55°	820	285	301	285	820	731
65°	326	87	80	87	326	339
75°	92	18	15	18	92	104
85°	19	0	2	0	19	21
90°	0	0	0	0	0	



TEST NUMBER: P249073

CATALOG NUMBER: LD8B60D010 ER8B60930 8LBSW0MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3025.4	3025.4	3025.4	3025.4	3025.4	3025.4	3025.4	3025.4	3025.4	3025.4	3025.4
2.5°	2994.4	2991.4	2989.9	2993.0	2994.4	3000.2	2998.8	3001.7	3001.7	3003.3	3006.2
5°	2933.8	2932.3	2933.8	2933.8	2939.7	2945.7	2944.2	2948.6	2951.5	2958.9	2961.8
7.5°	2877.7	2877.7	2876.1	2882.1	2885.0	2893.9	2892.4	2899.8	2904.3	2911.6	2922.0
10°	2820.0	2820.0	2821.4	2825.9	2827.5	2840.7	2840.7	2851.0	2857.0	2864.4	2877.7
12.5°	2763.9	2763.9	2772.8	2769.8	2775.7	2786.0	2790.5	2800.8	2809.7	2824.5	2837.8
15°	2710.7	2710.7	2713.7	2721.0	2725.5	2738.8	2746.1	2758.0	2768.3	2783.1	2802.4
17.5°	2665.0	2663.5	2665.0	2673.8	2682.7	2694.4	2700.4	2715.2	2725.5	2744.7	2762.5
20°	2619.1	2622.1	2622.1	2629.5	2635.4	2650.2	2656.1	2672.4	2684.1	2701.8	2722.6
22.5°	2579.2	2577.7	2577.7	2588.2	2592.5	2605.9	2611.7	2626.5	2639.8	2654.6	2673.8
25°	2539.4	2536.4	2542.3	2543.8	2546.7	2561.5	2566.0	2576.3	2589.6	2602.8	2622.1
27.5°	2480.2	2477.3	2478.8	2484.7	2489.2	2501.0	2503.9	2514.3	2524.6	2536.4	2552.6
30°	2366.5	2363.6	2362.2	2372.5	2376.9	2385.7	2390.2	2407.9	2410.8	2424.2	2435.9
32.5°	2215.9	2214.3	2217.3	2226.2	2230.6	2242.4	2248.4	2258.7	2266.1	2273.5	2285.3
35°	2047.5	2044.5	2047.5	2056.4	2056.4	2066.7	2071.2	2075.5	2074.1	2075.5	2072.6
37.5°	1890.9	1889.3	1890.9	1895.3	1890.9	1895.3	1890.9	1882.0	1865.8	1848.0	1830.3
40°	1758.0	1759.4	1750.6	1756.5	1740.1	1737.2	1721.0	1698.8	1666.4	1630.9	1580.6
42.5°	1616.1	1611.7	1605.8	1608.7	1595.4	1585.1	1558.5	1530.4	1489.0	1429.9	1369.4
45°	1441.8	1440.4	1437.3	1435.9	1427.0	1416.7	1394.5	1362.0	1316.3	1255.6	1183.2
47.5°	1271.9	1267.5	1267.5	1269.0	1258.5	1257.1	1239.4	1211.4	1171.4	1112.4	1037.0
50°	1109.3	1107.9	1110.9	1116.7	1109.3	1106.4	1094.7	1075.5	1040.0	989.7	918.8
52.5°	963.2	961.7	964.6	972.0	969.0	972.0	960.2	945.5	921.8	873.0	811.0
55°	819.9	819.9	819.9	828.8	828.8	828.8	822.8	814.0	791.8	756.3	698.7
57.5°	670.7	672.2	681.0	682.5	681.0	684.0	682.5	673.6	658.9	633.8	589.4
60°	545.1	545.1	549.5	554.0	552.4	554.0	554.0	549.5	534.7	514.1	478.7
62.5°	431.4	435.7	432.8	435.7	441.7	435.7	432.8	429.9	419.6	406.3	376.7
65°	326.4	329.5	329.5	330.9	327.9	329.5	323.5	319.1	313.2	298.4	279.2
67.5°	248.2	248.2	248.2	248.2	246.7	245.3	243.8	239.3	229.0	223.1	202.3
70°	190.6	181.7	181.7	181.7	181.7	183.2	178.8	172.9	169.8	159.5	144.7
72.5°	127.0	130.0	127.0	127.0	124.1	125.6	119.6	116.7	113.8	107.8	99.0
75°	91.6	84.2	87.1	88.7	84.2	87.1	81.3	75.3	75.3	70.8	66.5
77.5°	59.1	57.6	59.1	60.5	59.1	57.6	54.7	51.7	51.7	50.2	45.7
80°	42.8	41.4	41.4	41.4	39.9	41.4	38.5	38.5	35.4	34.0	31.1
82.5°	28.1	28.1	26.6	28.1	26.6	28.1	23.7	23.7	23.7	22.1	19.2
85°	19.2	16.3	16.3	17.7	14.8	17.7	16.3	14.8	13.3	13.3	11.8
87.5°	8.9	10.3	8.9	10.3	8.9	8.9	10.3	8.9	8.9	5.9	5.9
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: P249073

CATALOG NUMBER: LD8B60D010 ER8B60930 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3025.4	3025.4	3025.4	3025.4	3025.4	3025.4	3025.4	3025.4	3025.4	3025.4	3025.4
2.5°	3010.6	3012.0	3012.0	3018.1	3021.0	3022.4	3022.4	3034.2	3029.8	3032.8	3035.7
5°	2967.7	2976.6	2979.6	2979.6	2995.9	3001.7	3007.6	3021.0	3022.4	3031.3	3041.6
7.5°	2926.4	2936.7	2942.6	2956.0	2966.3	2976.6	2994.4	3003.3	3012.0	3023.9	3037.1
10°	2886.5	2898.3	2910.1	2920.5	2936.7	2950.0	2961.8	2982.5	2993.0	3009.1	3026.8
12.5°	2848.1	2864.4	2874.7	2892.4	2910.1	2922.0	2939.7	2958.9	2975.1	2991.4	3012.0
15°	2814.2	2833.3	2845.1	2864.4	2883.5	2899.8	2919.0	2942.6	2954.5	2973.7	2993.0
17.5°	2777.2	2797.9	2812.7	2830.4	2854.1	2871.7	2888.0	2911.6	2926.4	2947.1	2969.3
20°	2738.8	2759.5	2777.2	2794.9	2818.5	2836.2	2855.5	2879.2	2895.3	2916.1	2933.8
22.5°	2693.0	2712.3	2731.4	2752.1	2775.7	2790.5	2812.7	2833.3	2851.0	2870.2	2888.0
25°	2633.9	2657.6	2672.4	2691.5	2710.7	2726.9	2750.6	2771.2	2786.0	2803.8	2820.0
27.5°	2564.5	2582.2	2594.0	2610.2	2629.5	2644.2	2661.9	2682.7	2697.5	2713.7	2725.5
30°	2446.2	2462.6	2472.9	2484.7	2503.9	2517.2	2532.0	2551.2	2561.5	2573.4	2583.7
32.5°	2291.2	2304.4	2310.4	2319.2	2332.6	2345.8	2357.7	2373.9	2378.3	2385.7	2385.7
35°	2066.7	2069.6	2068.1	2071.2	2077.0	2084.4	2094.7	2105.0	2111.0	2111.0	2106.6
37.5°	1803.7	1786.0	1766.8	1752.0	1747.5	1744.6	1750.6	1754.9	1760.9	1763.8	1756.5
40°	1530.4	1490.6	1447.7	1409.2	1382.6	1370.9	1366.5	1369.4	1369.4	1379.7	1379.7
42.5°	1295.5	1233.4	1170.0	1112.4	1073.9	1044.4	1031.1	1031.1	1032.6	1040.0	1044.4
45°	1100.6	1022.2	948.4	884.9	831.7	793.2	775.5	771.1	769.7	772.6	782.9
47.5°	951.4	870.1	793.2	715.0	658.9	620.5	604.2	598.3	592.3	598.3	599.7
50°	834.7	750.4	669.2	590.9	531.8	497.8	477.1	468.2	466.8	466.8	469.8
52.5°	728.2	650.0	568.8	489.0	426.9	394.5	375.2	370.8	364.9	370.8	370.8
55°	627.8	549.5	469.8	394.5	342.7	308.7	291.0	285.1	282.2	286.5	286.5
57.5°	518.6	452.0	378.2	310.2	258.5	234.8	221.6	214.2	212.7	215.7	212.7
60°	425.4	369.4	305.8	243.8	203.9	178.8	168.4	165.5	162.4	165.5	165.5
62.5°	336.7	289.6	237.8	190.6	156.6	138.9	127.0	127.0	125.6	125.6	127.0
65°	249.6	212.7	175.8	135.9	109.3	96.0	87.1	87.1	85.6	87.1	85.6
67.5°	181.7	156.6	127.0	99.0	78.4	70.8	65.0	60.5	63.6	60.5	59.1
70°	133.0	112.2	91.6	75.3	60.5	53.2	48.8	47.2	44.3	44.3	44.3
72.5°	88.7	75.3	62.0	48.8	39.9	32.5	31.1	28.1	25.1	26.6	29.6
75°	59.1	50.2	44.3	35.4	26.6	26.6	17.7	17.7	14.8	17.7	13.3
77.5°	41.4	34.0	26.6	22.1	17.7	16.3	11.8	11.8	10.3	10.3	10.3
80°	29.6	25.1	19.2	16.3	11.8	11.8	10.3	8.9	7.4	7.4	8.9
82.5°	17.7	13.3	13.3	11.8	7.4	5.9	4.5	5.9	3.0	3.0	3.0
85°	10.3	8.9	7.4	4.5	3.0	3.0	1.5	0.0	1.5	1.5	0.0
87.5°	5.9	3.0	3.0	1.5	0.0	1.5	1.5	0.0	0.0	0.0	3.0
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: P249073

CATALOG NUMBER: LD8B60D010 ER8B60930 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3025.4	3025.4	3025.4	3025.4	3025.4	3025.4	3025.4	3025.4	3025.4	3025.4	3025.4
2.5°	3043.2	3041.6	3044.6	3044.6	3053.5	3051.9	3056.4	3056.4	3053.5	3054.9	3060.8
5°	3053.5	3057.9	3066.7	3074.1	3087.3	3093.4	3100.7	3108.1	3109.5	3114.0	3118.5
7.5°	3053.5	3068.3	3078.6	3091.8	3109.5	3120.0	3136.1	3149.4	3155.4	3162.7	3171.6
10°	3047.6	3062.2	3081.5	3096.3	3118.5	3134.7	3150.9	3171.6	3180.5	3192.3	3204.2
12.5°	3035.7	3051.9	3072.7	3091.8	3116.9	3131.7	3152.4	3171.6	3184.9	3201.1	3214.5
15°	3018.1	3037.1	3056.4	3075.6	3102.1	3120.0	3139.1	3161.2	3174.6	3192.3	3204.2
17.5°	2989.9	3010.6	3028.4	3046.1	3071.2	3091.8	3109.5	3130.3	3143.6	3158.3	3174.6
20°	2956.0	2975.1	2994.4	3009.1	3034.2	3051.9	3071.2	3090.4	3100.7	3103.7	3128.8
22.5°	2913.1	2926.4	2941.2	2964.8	2979.6	2995.9	3013.6	3031.3	3041.6	3057.9	3066.7
25°	2842.2	2855.5	2871.7	2882.1	2899.8	2913.1	2930.9	2950.0	2956.0	2967.7	2976.6
27.5°	2743.2	2750.6	2758.0	2766.9	2777.2	2784.6	2794.9	2803.8	2809.7	2815.6	2821.4
30°	2586.6	2586.6	2586.6	2580.8	2585.1	2589.6	2591.1	2589.6	2589.6	2588.2	2588.2
32.5°	2379.8	2368.0	2354.7	2342.9	2338.5	2332.6	2329.6	2325.2	2317.8	2313.4	2314.9
35°	2100.6	2074.1	2057.8	2043.0	2031.3	2022.4	2017.9	2013.4	2012.0	2006.1	2000.2
37.5°	1752.0	1732.8	1721.0	1712.1	1701.8	1692.9	1694.4	1695.8	1700.2	1697.3	1698.8
40°	1382.6	1378.3	1382.6	1372.3	1369.4	1372.3	1379.7	1390.2	1396.0	1401.9	1412.2
42.5°	1051.8	1059.1	1069.5	1069.5	1073.9	1079.9	1088.7	1105.0	1113.8	1124.1	1136.0
45°	791.8	800.6	814.0	818.3	821.4	828.8	839.1	852.4	858.2	867.1	877.5
47.5°	610.2	616.0	623.4	630.8	638.2	641.1	651.4	651.4	658.9	664.8	667.7
50°	475.6	481.6	487.5	491.9	494.9	499.3	502.2	506.7	508.1	511.2	512.6
52.5°	372.3	379.7	379.7	382.6	387.0	391.5	390.0	391.5	392.9	392.9	397.4
55°	291.0	291.0	295.5	295.5	298.4	297.0	298.4	298.4	298.4	298.4	299.9
57.5°	217.1	218.7	223.1	220.2	218.7	221.6	218.7	221.6	220.2	223.1	218.7
60°	166.9	166.9	168.4	168.4	169.8	169.8	169.8	168.4	168.4	166.9	166.9
62.5°	125.6	127.0	128.6	127.0	127.0	127.0	125.6	125.6	124.1	122.5	122.5
65°	84.2	82.7	85.6	82.7	84.2	84.2	82.7	84.2	79.8	81.3	79.8
67.5°	60.5	59.1	57.6	59.1	57.6	56.2	56.2	57.6	59.1	54.7	54.7
70°	39.9	41.4	39.9	41.4	42.8	42.8	41.4	39.9	41.4	38.5	39.9
72.5°	25.1	25.1	25.1	25.1	25.1	26.6	26.6	26.6	23.7	23.7	22.1
75°	11.8	16.3	13.3	11.8	16.3	16.3	14.8	14.8	13.3	13.3	13.3
77.5°	11.8	8.9	8.9	8.9	8.9	8.9	8.9	8.9	7.4	8.9	7.4
80°	5.9	5.9	5.9	4.5	5.9	5.9	7.4	5.9	5.9	4.5	7.4
82.5°	3.0	3.0	3.0	0.0	1.5	3.0	3.0	1.5	3.0	3.0	1.5
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: P249073

CATALOG NUMBER: LD8B60D010 ER8B60930 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3025.4	3025.4	3025.4	3025.4	3025.4	3025.4	3025.4	3025.4	3025.4	3025.4	3025.4
2.5°	3059.3	3057.9	3059.3	3060.8	3059.3	3057.9	3059.3	3060.8	3054.9	3053.5	3056.4
5°	3124.3	3124.3	3127.3	3128.8	3127.3	3124.3	3124.3	3118.5	3114.0	3109.5	3108.1
7.5°	3180.5	3183.4	3186.3	3187.8	3186.3	3183.4	3180.5	3171.6	3162.7	3155.4	3149.4
10°	3214.5	3219.0	3224.8	3227.7	3224.8	3219.0	3214.5	3204.2	3192.3	3180.5	3171.6
12.5°	3229.3	3233.6	3241.0	3239.6	3241.0	3233.6	3229.3	3214.5	3201.1	3184.9	3171.6
15°	3219.0	3224.8	3232.2	3235.1	3232.2	3224.8	3219.0	3204.2	3192.3	3174.6	3161.2
17.5°	3186.3	3195.3	3199.7	3204.2	3199.7	3195.3	3186.3	3174.6	3158.3	3143.6	3130.3
20°	3142.1	3148.0	3153.9	3155.4	3153.9	3148.0	3142.1	3128.8	3103.7	3100.7	3090.4
22.5°	3078.6	3083.0	3096.3	3091.8	3096.3	3083.0	3078.6	3066.7	3057.9	3041.6	3031.3
25°	2986.9	2991.4	2993.0	2994.4	2993.0	2991.4	2986.9	2976.6	2967.7	2956.0	2950.0
27.5°	2829.0	2829.0	2831.9	2833.3	2831.9	2829.0	2829.0	2821.4	2815.6	2809.7	2803.8
30°	2589.6	2589.6	2589.6	2597.0	2589.6	2589.6	2589.6	2588.2	2588.2	2589.6	2589.6
32.5°	2313.4	2310.4	2307.5	2310.4	2307.5	2310.4	2313.4	2314.9	2313.4	2317.8	2325.2
35°	2000.2	1998.7	2003.1	1997.3	2003.1	1998.7	2000.2	2000.2	2006.1	2012.0	2013.4
37.5°	1700.2	1697.3	1703.2	1697.3	1703.2	1697.3	1700.2	1698.8	1697.3	1700.2	1695.8
40°	1415.3	1418.2	1418.2	1429.9	1418.2	1418.2	1415.3	1412.2	1401.9	1396.0	1390.2
42.5°	1141.9	1150.8	1147.8	1156.6	1147.8	1150.8	1141.9	1136.0	1124.1	1113.8	1105.0
45°	883.3	889.3	889.3	892.2	889.3	889.3	883.3	877.5	867.1	858.2	852.4
47.5°	678.0	678.0	678.0	679.6	678.0	678.0	678.0	667.7	664.8	658.9	651.4
50°	515.5	517.0	518.6	520.0	518.6	517.0	515.5	512.6	511.2	508.1	506.7
52.5°	395.9	397.4	394.5	397.4	394.5	397.4	395.9	397.4	392.9	392.9	391.5
55°	299.9	298.4	299.9	301.3	299.9	298.4	299.9	299.9	298.4	298.4	298.4
57.5°	220.2	217.1	217.1	217.1	217.1	217.1	220.2	218.7	223.1	220.2	221.6
60°	164.0	165.5	165.5	166.9	165.5	165.5	164.0	166.9	166.9	168.4	168.4
62.5°	121.1	125.6	122.5	125.6	122.5	125.6	121.1	122.5	122.5	124.1	125.6
65°	78.4	78.4	78.4	79.8	78.4	78.4	78.4	79.8	81.3	79.8	84.2
67.5°	53.2	54.7	57.6	56.2	57.6	54.7	53.2	54.7	54.7	59.1	57.6
70°	42.8	38.5	38.5	42.8	38.5	38.5	42.8	39.9	38.5	41.4	39.9
72.5°	25.1	22.1	25.1	25.1	25.1	22.1	25.1	22.1	23.7	23.7	26.6
75°	13.3	11.8	10.3	14.8	10.3	11.8	13.3	13.3	13.3	13.3	14.8
77.5°	8.9	7.4	10.3	10.3	10.3	7.4	8.9	7.4	8.9	7.4	8.9
80°	4.5	5.9	4.5	7.4	4.5	5.9	4.5	7.4	4.5	5.9	5.9
82.5°	1.5	3.0	3.0	3.0	3.0	3.0	1.5	1.5	3.0	3.0	1.5
85°	0.0	3.0	1.5	1.5	1.5	3.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.5	0.0	0.0	1.5	0.0	0.0	1.5	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: P249073

CATALOG NUMBER: LD8B60D010 ER8B60930 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3025.4	3025.4	3025.4	3025.4	3025.4	3025.4	3025.4	3025.4	3025.4	3025.4	3025.4
2.5°	3056.4	3051.9	3053.5	3044.6	3044.6	3041.6	3043.2	3035.7	3032.8	3029.8	3034.2
5°	3100.7	3093.4	3087.3	3074.1	3066.7	3057.9	3053.5	3041.6	3031.3	3022.4	3021.0
7.5°	3136.1	3120.0	3109.5	3091.8	3078.6	3068.3	3053.5	3037.1	3023.9	3012.0	3003.3
10°	3150.9	3134.7	3118.5	3096.3	3081.5	3062.2	3047.6	3026.8	3009.1	2993.0	2982.5
12.5°	3152.4	3131.7	3116.9	3091.8	3072.7	3051.9	3035.7	3012.0	2991.4	2975.1	2958.9
15°	3139.1	3120.0	3102.1	3075.6	3056.4	3037.1	3018.1	2993.0	2973.7	2954.5	2942.6
17.5°	3109.5	3091.8	3071.2	3046.1	3028.4	3010.6	2989.9	2969.3	2947.1	2926.4	2911.6
20°	3071.2	3051.9	3034.2	3009.1	2994.4	2975.1	2956.0	2933.8	2916.1	2895.3	2879.2
22.5°	3013.6	2995.9	2979.6	2964.8	2941.2	2926.4	2913.1	2888.0	2870.2	2851.0	2833.3
25°	2930.9	2913.1	2899.8	2882.1	2871.7	2855.5	2842.2	2820.0	2803.8	2786.0	2771.2
27.5°	2794.9	2784.6	2777.2	2766.9	2758.0	2750.6	2743.2	2725.5	2713.7	2697.5	2682.7
30°	2591.1	2589.6	2585.1	2580.8	2586.6	2586.6	2586.6	2583.7	2573.4	2561.5	2551.2
32.5°	2329.6	2332.6	2338.5	2342.9	2354.7	2368.0	2379.8	2385.7	2385.7	2378.3	2373.9
35°	2017.9	2022.4	2031.3	2043.0	2057.8	2074.1	2100.6	2106.6	2111.0	2111.0	2105.0
37.5°	1694.4	1692.9	1701.8	1712.1	1721.0	1732.8	1752.0	1756.5	1763.8	1760.9	1754.9
40°	1379.7	1372.3	1369.4	1372.3	1382.6	1378.3	1382.6	1379.7	1379.7	1369.4	1369.4
42.5°	1088.7	1079.9	1073.9	1069.5	1069.5	1059.1	1051.8	1044.4	1040.0	1032.6	1031.1
45°	839.1	828.8	821.4	818.3	814.0	800.6	791.8	782.9	772.6	769.7	771.1
47.5°	651.4	641.1	638.2	630.8	623.4	616.0	610.2	599.7	598.3	592.3	598.3
50°	502.2	499.3	494.9	491.9	487.5	481.6	475.6	469.8	466.8	466.8	468.2
52.5°	390.0	391.5	387.0	382.6	379.7	379.7	372.3	370.8	370.8	364.9	370.8
55°	298.4	297.0	298.4	295.5	295.5	291.0	291.0	286.5	286.5	282.2	285.1
57.5°	218.7	221.6	218.7	220.2	223.1	218.7	217.1	212.7	215.7	212.7	214.2
60°	169.8	169.8	169.8	168.4	168.4	166.9	166.9	165.5	165.5	162.4	165.5
62.5°	125.6	127.0	127.0	127.0	128.6	127.0	125.6	127.0	125.6	125.6	127.0
65°	82.7	84.2	84.2	82.7	85.6	82.7	84.2	85.6	87.1	85.6	87.1
67.5°	56.2	56.2	57.6	59.1	57.6	59.1	60.5	59.1	60.5	63.6	60.5
70°	41.4	42.8	42.8	41.4	39.9	41.4	39.9	44.3	44.3	44.3	47.2
72.5°	26.6	26.6	25.1	25.1	25.1	25.1	25.1	29.6	26.6	25.1	28.1
75°	14.8	16.3	16.3	11.8	13.3	16.3	11.8	13.3	17.7	14.8	17.7
77.5°	8.9	8.9	8.9	8.9	8.9	8.9	11.8	10.3	10.3	10.3	11.8
80°	7.4	5.9	5.9	4.5	5.9	5.9	5.9	8.9	7.4	7.4	8.9
82.5°	3.0	3.0	1.5	0.0	3.0	3.0	3.0	3.0	3.0	3.0	5.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	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: P249073

CATALOG NUMBER: LD8B60D010 ER8B60930 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3025.4	3025.4	3025.4	3025.4	3025.4	3025.4	3025.4	3025.4	3025.4	3025.4	3025.4
2.5°	3022.4	3022.4	3021.0	3018.1	3012.0	3012.0	3010.6	3006.2	3003.3	3001.7	3001.7
5°	3007.6	3001.7	2995.9	2979.6	2979.6	2976.6	2967.7	2961.8	2958.9	2951.5	2948.6
7.5°	2994.4	2976.6	2966.3	2956.0	2942.6	2936.7	2926.4	2922.0	2911.6	2904.3	2899.8
10°	2961.8	2950.0	2936.7	2920.5	2910.1	2898.3	2886.5	2877.7	2864.4	2857.0	2851.0
12.5°	2939.7	2922.0	2910.1	2892.4	2874.7	2864.4	2848.1	2837.8	2824.5	2809.7	2800.8
15°	2919.0	2899.8	2883.5	2864.4	2845.1	2833.3	2814.2	2802.4	2783.1	2768.3	2758.0
17.5°	2888.0	2871.7	2854.1	2830.4	2812.7	2797.9	2777.2	2762.5	2744.7	2725.5	2715.2
20°	2855.5	2836.2	2818.5	2794.9	2777.2	2759.5	2738.8	2722.6	2701.8	2684.1	2672.4
22.5°	2812.7	2790.5	2775.7	2752.1	2731.4	2712.3	2693.0	2673.8	2654.6	2639.8	2626.5
25°	2750.6	2726.9	2710.7	2691.5	2672.4	2657.6	2633.9	2622.1	2602.8	2589.6	2576.3
27.5°	2661.9	2644.2	2629.5	2610.2	2594.0	2582.2	2564.5	2552.6	2536.4	2524.6	2514.3
30°	2532.0	2517.2	2503.9	2484.7	2472.9	2462.6	2446.2	2435.9	2424.2	2410.8	2407.9
32.5°	2357.7	2345.8	2332.6	2319.2	2310.4	2304.4	2291.2	2285.3	2273.5	2266.1	2258.7
35°	2094.7	2084.4	2077.0	2071.2	2068.1	2069.6	2066.7	2072.6	2075.5	2074.1	2075.5
37.5°	1750.6	1744.6	1747.5	1752.0	1766.8	1786.0	1803.7	1830.3	1848.0	1865.8	1882.0
40°	1366.5	1370.9	1382.6	1409.2	1447.7	1490.6	1530.4	1580.6	1630.9	1666.4	1698.8
42.5°	1031.1	1044.4	1073.9	1112.4	1170.0	1233.4	1295.5	1369.4	1429.9	1489.0	1530.4
45°	775.5	793.2	831.7	884.9	948.4	1022.2	1100.6	1183.2	1255.6	1316.3	1362.0
47.5°	604.2	620.5	658.9	715.0	793.2	870.1	951.4	1037.0	1112.4	1171.4	1211.4
50°	477.1	497.8	531.8	590.9	669.2	750.4	834.7	918.8	989.7	1040.0	1075.5
52.5°	375.2	394.5	426.9	489.0	568.8	650.0	728.2	811.0	873.0	921.8	945.5
55°	291.0	308.7	342.7	394.5	469.8	549.5	627.8	698.7	756.3	791.8	814.0
57.5°	221.6	234.8	258.5	310.2	378.2	452.0	518.6	589.4	633.8	658.9	673.6
60°	168.4	178.8	203.9	243.8	305.8	369.4	425.4	478.7	514.1	534.7	549.5
62.5°	127.0	138.9	156.6	190.6	237.8	289.6	336.7	376.7	406.3	419.6	429.9
65°	87.1	96.0	109.3	135.9	175.8	212.7	249.6	279.2	298.4	313.2	319.1
67.5°	65.0	70.8	78.4	99.0	127.0	156.6	181.7	202.3	223.1	229.0	239.3
70°	48.8	53.2	60.5	75.3	91.6	112.2	133.0	144.7	159.5	169.8	172.9
72.5°	31.1	32.5	39.9	48.8	62.0	75.3	88.7	99.0	107.8	113.8	116.7
75°	17.7	26.6	26.6	35.4	44.3	50.2	59.1	66.5	70.8	75.3	75.3
77.5°	11.8	16.3	17.7	22.1	26.6	34.0	41.4	45.7	50.2	51.7	51.7
80°	10.3	11.8	11.8	16.3	19.2	25.1	29.6	31.1	34.0	35.4	38.5
82.5°	4.5	5.9	7.4	11.8	13.3	13.3	17.7	19.2	22.1	23.7	23.7
85°	1.5	3.0	3.0	4.5	7.4	8.9	10.3	11.8	13.3	13.3	14.8
87.5°	1.5	1.5	0.0	1.5	3.0	3.0	5.9	5.9	5.9	8.9	8.9
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: P249073

CATALOG NUMBER: LD8B60D010 ER8B60930 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3025.4	3025.4	3025.4	3025.4	3025.4	3025.4	3025.4
2.5°	2998.8	3000.2	2994.4	2993.0	2989.9	2991.4	2994.4
5°	2944.2	2945.7	2939.7	2933.8	2933.8	2932.3	2933.8
7.5°	2892.4	2893.9	2885.0	2882.1	2876.1	2877.7	2877.7
10°	2840.7	2840.7	2827.5	2825.9	2821.4	2820.0	2820.0
12.5°	2790.5	2786.0	2775.7	2769.8	2772.8	2763.9	2763.9
15°	2746.1	2738.8	2725.5	2721.0	2713.7	2710.7	2710.7
17.5°	2700.4	2694.4	2682.7	2673.8	2665.0	2663.5	2665.0
20°	2656.1	2650.2	2635.4	2629.5	2622.1	2622.1	2619.1
22.5°	2611.7	2605.9	2592.5	2588.2	2577.7	2577.7	2579.2
25°	2566.0	2561.5	2546.7	2543.8	2542.3	2536.4	2539.4
27.5°	2503.9	2501.0	2489.2	2484.7	2478.8	2477.3	2480.2
30°	2390.2	2385.7	2376.9	2372.5	2362.2	2363.6	2366.5
32.5°	2248.4	2242.4	2230.6	2226.2	2217.3	2214.3	2215.9
35°	2071.2	2066.7	2056.4	2056.4	2047.5	2044.5	2047.5
37.5°	1890.9	1895.3	1890.9	1895.3	1890.9	1889.3	1890.9
40°	1721.0	1737.2	1740.1	1756.5	1750.6	1759.4	1758.0
42.5°	1558.5	1585.1	1595.4	1608.7	1605.8	1611.7	1616.1
45°	1394.5	1416.7	1427.0	1435.9	1437.3	1440.4	1441.8
47.5°	1239.4	1257.1	1258.5	1269.0	1267.5	1267.5	1271.9
50°	1094.7	1106.4	1109.3	1116.7	1110.9	1107.9	1109.3
52.5°	960.2	972.0	969.0	972.0	964.6	961.7	963.2
55°	822.8	828.8	828.8	828.8	819.9	819.9	819.9
57.5°	682.5	684.0	681.0	682.5	681.0	672.2	670.7
60°	554.0	554.0	552.4	554.0	549.5	545.1	545.1
62.5°	432.8	435.7	441.7	435.7	432.8	435.7	431.4
65°	323.5	329.5	327.9	330.9	329.5	329.5	326.4
67.5°	243.8	245.3	246.7	248.2	248.2	248.2	248.2
70°	178.8	183.2	181.7	181.7	181.7	181.7	190.6
72.5°	119.6	125.6	124.1	127.0	127.0	130.0	127.0
75°	81.3	87.1	84.2	88.7	87.1	84.2	91.6
77.5°	54.7	57.6	59.1	60.5	59.1	57.6	59.1
80°	38.5	41.4	39.9	41.4	41.4	41.4	42.8
82.5°	23.7	28.1	26.6	28.1	26.6	28.1	28.1
85°	16.3	17.7	14.8	17.7	16.3	16.3	19.2
87.5°	10.3	8.9	8.9	10.3	8.9	10.3	8.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)