

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: P248749

Luminaire Tested: **LD8B60D010 ER8B60930 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248749
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 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: 5106.2 lumens
Efficiency: N/A
Efficacy: 85.8 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

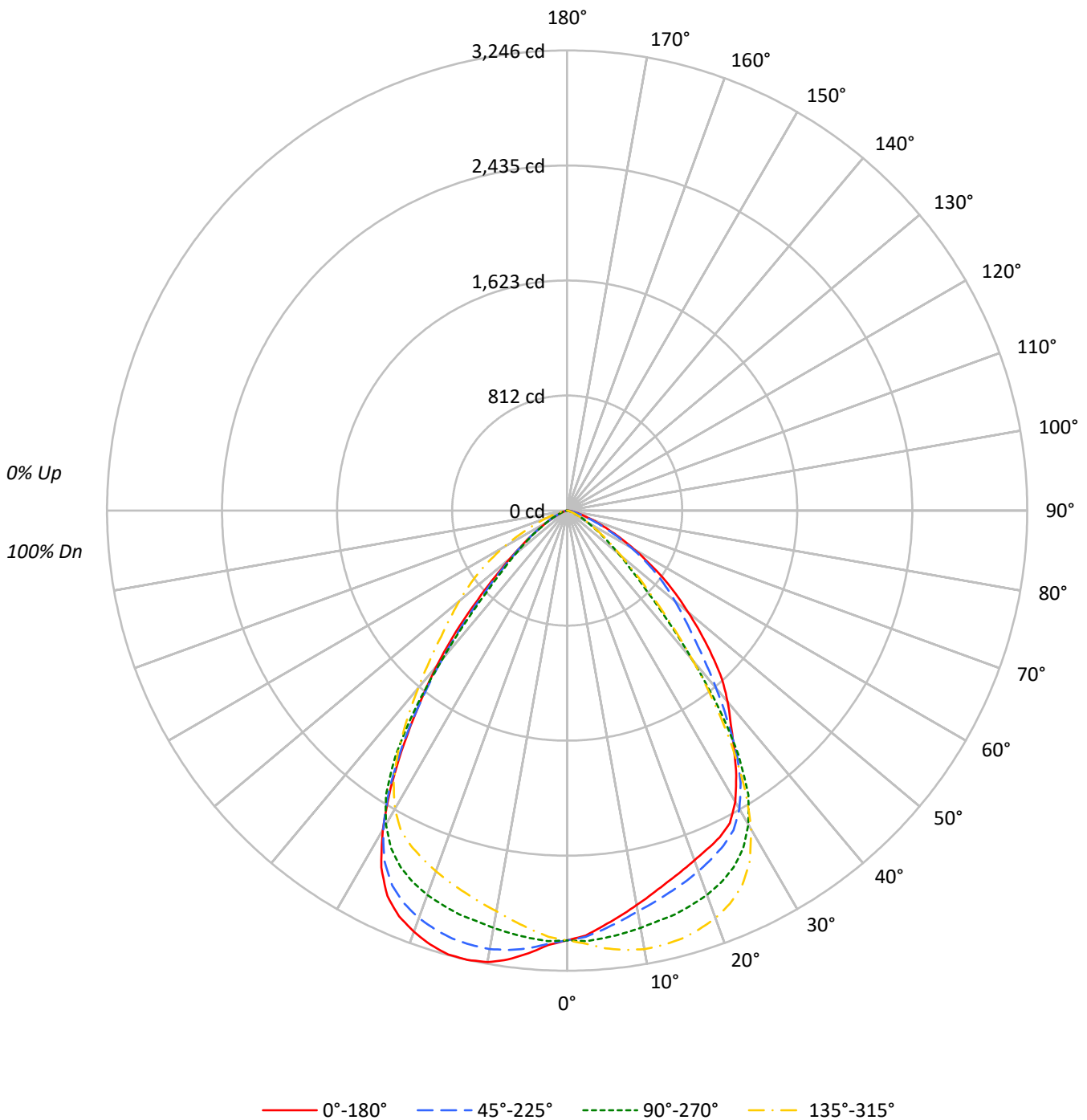
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	288.5	5.7
10°-20°	835.5	16.4
20°-30°	1265.2	24.8
30°-40°	1268.0	24.8
40°-50°	796.2	15.6
50°-60°	424.3	8.3
60°-70°	174.5	3.4
70°-80°	46.1	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°	2389.2	46.8
0°-40°	3657.2	71.6
0°-60°	4877.8	95.5
0°-90°	5106.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5106.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3031	3031	3031	3031	3031	
5°	2940	3027	3135	3027	2940	277
15°	2716	2948	3242	2948	2716	768
25°	2544	2777	3000	2777	2544	1167
35°	2052	2109	2001	2109	2052	1285
45°	1445	773	894	773	1445	1111
55°	822	286	302	286	822	732
65°	327	87	80	87	327	339
75°	92	18	15	18	92	104
85°	19	0	2	0	19	21
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°	3031.4	3031.4	3031.4	3031.4	3031.4	3031.4	3031.4	3031.4	3031.4	3031.4	3031.4
2.5°	3000.2	2997.3	2995.9	2998.8	3000.2	3006.2	3004.7	3007.6	3007.6	3009.2	3012.1
5°	2939.6	2938.1	2939.6	2939.6	2945.5	2951.5	2949.9	2954.4	2957.3	2964.8	2967.7
7.5°	2883.3	2883.3	2881.9	2887.8	2890.7	2899.7	2898.1	2905.5	2910.0	2917.4	2927.7
10°	2825.6	2825.6	2827.0	2831.5	2833.1	2846.3	2846.3	2856.6	2862.6	2870.0	2883.3
12.5°	2769.4	2769.4	2778.3	2775.3	2781.2	2791.5	2796.0	2806.4	2815.3	2830.1	2843.4
15°	2716.1	2716.1	2719.1	2726.4	2730.9	2744.2	2751.6	2763.5	2773.8	2788.6	2807.9
17.5°	2670.2	2668.8	2670.2	2679.1	2688.0	2699.8	2705.8	2720.6	2730.9	2750.1	2768.0
20°	2624.4	2627.3	2627.3	2634.7	2640.6	2655.4	2661.3	2677.6	2689.5	2707.2	2728.0
22.5°	2584.4	2582.9	2582.9	2593.2	2597.7	2611.0	2616.9	2631.7	2645.0	2659.8	2679.1
25°	2544.4	2541.4	2547.4	2548.8	2551.7	2566.5	2571.0	2581.3	2594.7	2608.0	2627.3
27.5°	2485.1	2482.2	2483.7	2489.6	2494.1	2505.9	2508.9	2519.2	2529.5	2541.4	2557.8
30°	2371.1	2368.2	2366.8	2377.2	2381.6	2390.4	2394.9	2412.7	2415.6	2429.0	2440.8
32.5°	2220.3	2218.8	2221.7	2230.6	2235.0	2246.9	2252.8	2263.2	2270.6	2278.0	2289.8
35°	2051.5	2048.5	2051.5	2060.4	2060.4	2070.7	2075.2	2079.6	2078.1	2079.6	2076.7
37.5°	1894.6	1893.1	1894.6	1899.0	1894.6	1899.0	1894.6	1885.7	1869.5	1851.7	1833.8
40°	1761.4	1762.9	1754.0	1760.0	1743.6	1740.7	1724.4	1702.1	1669.6	1634.1	1583.7
42.5°	1619.3	1614.9	1609.0	1611.9	1598.5	1588.2	1561.6	1533.4	1491.9	1432.9	1372.1
45°	1444.6	1443.2	1440.1	1438.7	1429.8	1419.5	1397.2	1364.7	1318.9	1258.1	1185.6
47.5°	1274.5	1270.0	1270.0	1271.4	1261.1	1259.7	1241.8	1213.7	1173.8	1114.5	1039.1
50°	1111.6	1110.1	1113.0	1119.0	1111.6	1108.7	1096.8	1077.6	1042.1	991.7	920.7
52.5°	965.1	963.6	966.5	973.9	971.0	973.9	962.2	947.4	923.6	874.7	812.6
55°	821.5	821.5	821.5	830.3	830.3	830.3	824.4	815.6	793.3	757.8	700.2
57.5°	672.0	673.5	682.4	683.8	682.4	685.4	683.8	675.0	660.2	635.0	590.7
60°	546.2	546.2	550.6	555.1	553.5	555.1	555.1	550.6	535.8	515.1	479.6
62.5°	432.1	436.6	433.7	436.6	442.6	436.6	433.7	430.7	420.4	407.0	377.4
65°	327.1	330.1	330.1	331.6	328.6	330.1	324.2	319.7	313.8	299.0	279.8
67.5°	248.7	248.7	248.7	248.7	247.2	245.7	244.3	239.8	229.5	223.5	202.8
70°	190.9	182.1	182.1	182.1	182.1	183.6	179.1	173.2	170.2	159.9	145.1
72.5°	127.2	130.3	127.2	127.2	124.3	125.8	119.9	116.9	114.0	108.1	99.2
75°	91.7	84.4	87.3	88.8	84.4	87.3	81.4	75.4	75.4	71.1	66.6
77.5°	59.2	57.7	59.2	60.6	59.2	57.7	54.8	51.8	51.8	50.3	45.8
80°	42.9	41.5	41.5	41.5	40.0	41.5	38.5	38.5	35.5	34.1	31.1
82.5°	28.1	28.1	26.7	28.1	26.7	28.1	23.7	23.7	23.7	22.2	19.3
85°	19.3	16.3	16.3	17.8	14.8	17.8	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3031.4	3031.4	3031.4	3031.4	3031.4	3031.4	3031.4	3031.4	3031.4	3031.4	3031.4
2.5°	3016.6	3018.1	3018.1	3024.0	3026.9	3028.4	3028.4	3040.3	3035.8	3038.8	3041.7
5°	2973.7	2982.5	2985.4	2985.4	3001.7	3007.6	3013.6	3026.9	3028.4	3037.2	3047.7
7.5°	2932.2	2942.5	2948.5	2961.8	2972.1	2982.5	3000.2	3009.2	3018.1	3030.0	3043.2
10°	2892.2	2904.1	2915.9	2926.3	2942.5	2955.9	2967.7	2988.4	2998.8	3015.0	3032.9
12.5°	2853.7	2870.0	2880.4	2898.1	2915.9	2927.7	2945.5	2964.8	2981.1	2997.3	3018.1
15°	2819.8	2838.9	2850.8	2870.0	2889.3	2905.5	2924.8	2948.5	2960.3	2979.6	2998.8
17.5°	2782.7	2803.4	2818.2	2836.0	2859.7	2877.4	2893.7	2917.4	2932.2	2952.9	2975.1
20°	2744.2	2764.9	2782.7	2800.5	2824.1	2841.8	2861.1	2884.9	2901.1	2921.8	2939.6
22.5°	2698.4	2717.6	2736.8	2757.5	2781.2	2796.0	2818.2	2838.9	2856.6	2875.9	2893.7
25°	2639.2	2662.8	2677.6	2696.8	2716.1	2732.3	2756.1	2776.7	2791.5	2809.3	2825.6
27.5°	2569.6	2587.4	2599.2	2615.4	2634.7	2649.5	2667.2	2688.0	2702.8	2719.1	2730.9
30°	2451.1	2467.4	2477.7	2489.6	2508.9	2522.2	2537.0	2556.2	2566.5	2578.4	2588.8
32.5°	2295.7	2309.0	2315.0	2323.8	2337.2	2350.5	2362.4	2378.6	2383.0	2390.4	2390.4
35°	2070.7	2073.7	2072.3	2075.2	2081.1	2088.5	2098.8	2109.2	2115.1	2115.1	2110.7
37.5°	1807.3	1789.6	1770.3	1755.5	1751.0	1748.1	1754.0	1758.4	1764.3	1767.3	1760.0
40°	1533.4	1493.5	1450.6	1412.0	1385.4	1373.6	1369.2	1372.1	1372.1	1382.4	1382.4
42.5°	1298.1	1235.9	1172.3	1114.5	1076.0	1046.5	1033.1	1033.1	1034.6	1042.1	1046.5
45°	1102.7	1024.3	950.3	886.6	833.4	794.8	777.1	772.6	771.1	774.2	784.5
47.5°	953.2	871.8	794.8	716.4	660.2	621.7	605.5	599.4	593.6	599.4	601.0
50°	836.3	752.0	670.6	592.1	532.8	498.8	478.1	469.1	467.7	467.7	470.7
52.5°	729.7	651.3	569.9	490.0	427.8	395.3	376.0	371.5	365.6	371.5	371.5
55°	629.0	550.6	470.7	395.3	343.4	309.4	291.6	285.6	282.7	287.1	287.1
57.5°	519.6	452.9	378.9	310.9	259.1	235.3	222.0	214.7	213.1	216.1	213.1
60°	426.3	370.0	306.4	244.3	204.2	179.1	168.7	165.8	162.8	165.8	165.8
62.5°	337.4	290.1	238.3	190.9	156.8	139.1	127.2	127.2	125.8	125.8	127.2
65°	250.2	213.1	176.1	136.2	109.5	96.2	87.3	87.3	85.9	87.3	85.9
67.5°	182.1	156.8	127.2	99.2	78.5	71.1	65.1	60.6	63.7	60.6	59.2
70°	133.3	112.4	91.7	75.4	60.6	53.4	48.9	47.3	44.4	44.4	44.4
72.5°	88.8	75.4	62.1	48.9	40.0	32.5	31.1	28.1	25.1	26.7	29.6
75°	59.2	50.3	44.4	35.5	26.7	26.7	17.8	17.8	14.8	17.8	13.3
77.5°	41.5	34.1	26.7	22.2	17.8	16.3	11.8	11.8	10.3	10.3	10.3
80°	29.6	25.1	19.3	16.3	11.8	11.8	10.3	8.9	7.4	7.4	8.9
82.5°	17.8	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



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3031.4	3031.4	3031.4	3031.4	3031.4	3031.4	3031.4	3031.4	3031.4	3031.4	3031.4
2.5°	3049.1	3047.7	3050.6	3050.6	3059.5	3058.0	3062.5	3062.5	3059.5	3061.0	3066.8
5°	3059.5	3063.9	3072.8	3080.2	3093.5	3099.5	3106.9	3114.3	3115.7	3120.2	3124.7
7.5°	3059.5	3074.3	3084.7	3098.0	3115.7	3126.1	3142.4	3155.7	3161.7	3169.0	3177.9
10°	3053.5	3068.3	3087.6	3102.4	3124.7	3140.9	3157.2	3177.9	3186.8	3198.5	3210.4
12.5°	3041.7	3058.0	3078.7	3098.0	3123.1	3137.9	3158.6	3177.9	3191.3	3207.5	3220.9
15°	3024.0	3043.2	3062.5	3081.7	3108.3	3126.1	3145.3	3167.5	3180.8	3198.5	3210.4
17.5°	2995.9	3016.6	3034.3	3052.0	3077.3	3098.0	3115.7	3136.4	3149.8	3164.6	3180.8
20°	2961.8	2981.1	3000.2	3015.0	3040.3	3058.0	3077.3	3096.5	3106.9	3109.9	3135.0
22.5°	2918.9	2932.2	2947.0	2970.6	2985.4	3001.7	3019.5	3037.2	3047.7	3063.9	3072.8
25°	2847.8	2861.1	2877.4	2887.8	2905.5	2918.9	2936.6	2955.9	2961.8	2973.7	2982.5
27.5°	2748.7	2756.1	2763.5	2772.3	2782.7	2790.1	2800.5	2809.3	2815.3	2821.2	2827.0
30°	2591.8	2591.8	2591.8	2585.8	2590.3	2594.7	2596.1	2594.7	2594.7	2593.2	2593.2
32.5°	2384.5	2372.7	2359.4	2347.6	2343.1	2337.2	2334.3	2329.8	2322.4	2317.9	2319.3
35°	2104.8	2078.1	2061.9	2047.1	2035.3	2026.3	2021.9	2017.5	2016.0	2010.1	2004.1
37.5°	1755.5	1736.2	1724.4	1715.5	1705.2	1696.3	1697.8	1699.2	1703.6	1700.7	1702.1
40°	1385.4	1381.0	1385.4	1375.0	1372.1	1375.0	1382.4	1392.8	1398.8	1404.7	1415.0
42.5°	1053.9	1061.3	1071.7	1071.7	1076.0	1082.0	1090.8	1107.2	1116.1	1126.4	1138.3
45°	793.3	802.3	815.6	820.0	822.9	830.3	840.8	854.1	859.9	868.9	879.2
47.5°	611.3	617.2	624.6	632.0	639.4	642.3	652.8	652.8	660.2	666.1	669.0
50°	476.6	482.5	488.4	492.9	495.8	500.3	503.2	507.7	509.2	512.2	513.6
52.5°	373.0	380.5	380.5	383.4	387.8	392.2	390.8	392.2	393.7	393.7	398.2
55°	291.6	291.6	296.1	296.1	299.0	297.5	299.0	299.0	299.0	299.0	300.4
57.5°	217.6	219.0	223.5	220.5	219.0	222.0	219.0	222.0	220.5	223.5	219.0
60°	167.3	167.3	168.7	168.7	170.2	170.2	170.2	168.7	168.7	167.3	167.3
62.5°	125.8	127.2	128.8	127.2	127.2	127.2	125.8	125.8	124.3	122.9	122.9
65°	84.4	83.0	85.9	83.0	84.4	84.4	83.0	84.4	79.9	81.4	79.9
67.5°	60.6	59.2	57.7	59.2	57.7	56.3	56.3	57.7	59.2	54.8	54.8
70°	40.0	41.5	40.0	41.5	42.9	42.9	41.5	40.0	41.5	38.5	40.0
72.5°	25.1	25.1	25.1	25.1	25.1	26.7	26.7	26.7	23.7	23.7	22.2
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: P248749

CATALOG NUMBER: LD8B60D010 ER8B60930 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3031.4	3031.4	3031.4	3031.4	3031.4	3031.4	3031.4	3031.4	3031.4	3031.4	3031.4
2.5°	3065.4	3063.9	3065.4	3066.8	3065.4	3063.9	3065.4	3066.8	3061.0	3059.5	3062.5
5°	3130.5	3130.5	3133.4	3135.0	3133.4	3130.5	3130.5	3124.7	3120.2	3115.7	3114.3
7.5°	3186.8	3189.8	3192.7	3194.2	3192.7	3189.8	3186.8	3177.9	3169.0	3161.7	3155.7
10°	3220.9	3225.3	3231.2	3234.1	3231.2	3225.3	3220.9	3210.4	3198.5	3186.8	3177.9
12.5°	3235.7	3240.1	3247.4	3246.0	3247.4	3240.1	3235.7	3220.9	3207.5	3191.3	3177.9
15°	3225.3	3231.2	3238.6	3241.6	3238.6	3231.2	3225.3	3210.4	3198.5	3180.8	3167.5
17.5°	3192.7	3201.6	3206.1	3210.4	3206.1	3201.6	3192.7	3180.8	3164.6	3149.8	3136.4
20°	3148.3	3154.3	3160.2	3161.7	3160.2	3154.3	3148.3	3135.0	3109.9	3106.9	3096.5
22.5°	3084.7	3089.1	3102.4	3098.0	3102.4	3089.1	3084.7	3072.8	3063.9	3047.7	3037.2
25°	2992.8	2997.3	2998.8	3000.2	2998.8	2997.3	2992.8	2982.5	2973.7	2961.8	2955.9
27.5°	2834.6	2834.6	2837.5	2838.9	2837.5	2834.6	2834.6	2827.0	2821.2	2815.3	2809.3
30°	2594.7	2594.7	2594.7	2602.2	2594.7	2594.7	2594.7	2593.2	2593.2	2594.7	2594.7
32.5°	2317.9	2315.0	2312.1	2315.0	2312.1	2315.0	2317.9	2319.3	2317.9	2322.4	2329.8
35°	2004.1	2002.7	2007.2	2001.2	2007.2	2002.7	2004.1	2004.1	2010.1	2016.0	2017.5
37.5°	1703.6	1700.7	1706.6	1700.7	1706.6	1700.7	1703.6	1702.1	1700.7	1703.6	1699.2
40°	1418.1	1421.0	1421.0	1432.9	1421.0	1421.0	1418.1	1415.0	1404.7	1398.8	1392.8
42.5°	1144.2	1153.1	1150.0	1159.0	1150.0	1153.1	1144.2	1138.3	1126.4	1116.1	1107.2
45°	885.1	891.1	891.1	894.0	891.1	891.1	885.1	879.2	868.9	859.9	854.1
47.5°	679.3	679.3	679.3	680.9	679.3	679.3	679.3	669.0	666.1	660.2	652.8
50°	516.6	518.0	519.6	521.0	519.6	518.0	516.6	513.6	512.2	509.2	507.7
52.5°	396.7	398.2	395.3	398.2	395.3	398.2	396.7	398.2	393.7	393.7	392.2
55°	300.4	299.0	300.4	302.0	300.4	299.0	300.4	300.4	299.0	299.0	299.0
57.5°	220.5	217.6	217.6	217.6	217.6	217.6	220.5	219.0	223.5	220.5	222.0
60°	164.3	165.8	165.8	167.3	165.8	165.8	164.3	167.3	167.3	168.7	168.7
62.5°	121.4	125.8	122.9	125.8	122.9	125.8	121.4	122.9	122.9	124.3	125.8
65°	78.5	78.5	78.5	79.9	78.5	78.5	78.5	79.9	81.4	79.9	84.4
67.5°	53.4	54.8	57.7	56.3	57.7	54.8	53.4	54.8	54.8	59.2	57.7
70°	42.9	38.5	38.5	42.9	38.5	38.5	42.9	40.0	38.5	41.5	40.0
72.5°	25.1	22.2	25.1	25.1	25.1	22.2	25.1	22.2	23.7	23.7	26.7
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: P248749

CATALOG NUMBER: LD8B60D010 ER8B60930 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3031.4	3031.4	3031.4	3031.4	3031.4	3031.4	3031.4	3031.4	3031.4	3031.4	3031.4
2.5°	3062.5	3058.0	3059.5	3050.6	3050.6	3047.7	3049.1	3041.7	3038.8	3035.8	3040.3
5°	3106.9	3099.5	3093.5	3080.2	3072.8	3063.9	3059.5	3047.7	3037.2	3028.4	3026.9
7.5°	3142.4	3126.1	3115.7	3098.0	3084.7	3074.3	3059.5	3043.2	3030.0	3018.1	3009.2
10°	3157.2	3140.9	3124.7	3102.4	3087.6	3068.3	3053.5	3032.9	3015.0	2998.8	2988.4
12.5°	3158.6	3137.9	3123.1	3098.0	3078.7	3058.0	3041.7	3018.1	2997.3	2981.1	2964.8
15°	3145.3	3126.1	3108.3	3081.7	3062.5	3043.2	3024.0	2998.8	2979.6	2960.3	2948.5
17.5°	3115.7	3098.0	3077.3	3052.0	3034.3	3016.6	2995.9	2975.1	2952.9	2932.2	2917.4
20°	3077.3	3058.0	3040.3	3015.0	3000.2	2981.1	2961.8	2939.6	2921.8	2901.1	2884.9
22.5°	3019.5	3001.7	2985.4	2970.6	2947.0	2932.2	2918.9	2893.7	2875.9	2856.6	2838.9
25°	2936.6	2918.9	2905.5	2887.8	2877.4	2861.1	2847.8	2825.6	2809.3	2791.5	2776.7
27.5°	2800.5	2790.1	2782.7	2772.3	2763.5	2756.1	2748.7	2730.9	2719.1	2702.8	2688.0
30°	2596.1	2594.7	2590.3	2585.8	2591.8	2591.8	2591.8	2588.8	2578.4	2566.5	2556.2
32.5°	2334.3	2337.2	2343.1	2347.6	2359.4	2372.7	2384.5	2390.4	2390.4	2383.0	2378.6
35°	2021.9	2026.3	2035.3	2047.1	2061.9	2078.1	2104.8	2110.7	2115.1	2115.1	2109.2
37.5°	1697.8	1696.3	1705.2	1715.5	1724.4	1736.2	1755.5	1760.0	1767.3	1764.3	1758.4
40°	1382.4	1375.0	1372.1	1375.0	1385.4	1381.0	1385.4	1382.4	1382.4	1372.1	1372.1
42.5°	1090.8	1082.0	1076.0	1071.7	1071.7	1061.3	1053.9	1046.5	1042.1	1034.6	1033.1
45°	840.8	830.3	822.9	820.0	815.6	802.3	793.3	784.5	774.2	771.1	772.6
47.5°	652.8	642.3	639.4	632.0	624.6	617.2	611.3	601.0	599.4	593.6	599.4
50°	503.2	500.3	495.8	492.9	488.4	482.5	476.6	470.7	467.7	467.7	469.1
52.5°	390.8	392.2	387.8	383.4	380.5	380.5	373.0	371.5	371.5	365.6	371.5
55°	299.0	297.5	299.0	296.1	296.1	291.6	291.6	287.1	287.1	282.7	285.6
57.5°	219.0	222.0	219.0	220.5	223.5	219.0	217.6	213.1	216.1	213.1	214.7
60°	170.2	170.2	170.2	168.7	168.7	167.3	167.3	165.8	165.8	162.8	165.8
62.5°	125.8	127.2	127.2	127.2	128.8	127.2	125.8	127.2	125.8	125.8	127.2
65°	83.0	84.4	84.4	83.0	85.9	83.0	84.4	85.9	87.3	85.9	87.3
67.5°	56.3	56.3	57.7	59.2	57.7	59.2	60.6	59.2	60.6	63.7	60.6
70°	41.5	42.9	42.9	41.5	40.0	41.5	40.0	44.4	44.4	44.4	47.3
72.5°	26.7	26.7	25.1	25.1	25.1	25.1	25.1	29.6	26.7	25.1	28.1
75°	14.8	16.3	16.3	11.8	13.3	16.3	11.8	13.3	17.8	14.8	17.8
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: P248749

CATALOG NUMBER: LD8B60D010 ER8B60930 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3031.4	3031.4	3031.4	3031.4	3031.4	3031.4	3031.4	3031.4	3031.4	3031.4	3031.4
2.5°	3028.4	3028.4	3026.9	3024.0	3018.1	3018.1	3016.6	3012.1	3009.2	3007.6	3007.6
5°	3013.6	3007.6	3001.7	2985.4	2985.4	2982.5	2973.7	2967.7	2964.8	2957.3	2954.4
7.5°	3000.2	2982.5	2972.1	2961.8	2948.5	2942.5	2932.2	2927.7	2917.4	2910.0	2905.5
10°	2967.7	2955.9	2942.5	2926.3	2915.9	2904.1	2892.2	2883.3	2870.0	2862.6	2856.6
12.5°	2945.5	2927.7	2915.9	2898.1	2880.4	2870.0	2853.7	2843.4	2830.1	2815.3	2806.4
15°	2924.8	2905.5	2889.3	2870.0	2850.8	2838.9	2819.8	2807.9	2788.6	2773.8	2763.5
17.5°	2893.7	2877.4	2859.7	2836.0	2818.2	2803.4	2782.7	2768.0	2750.1	2730.9	2720.6
20°	2861.1	2841.8	2824.1	2800.5	2782.7	2764.9	2744.2	2728.0	2707.2	2689.5	2677.6
22.5°	2818.2	2796.0	2781.2	2757.5	2736.8	2717.6	2698.4	2679.1	2659.8	2645.0	2631.7
25°	2756.1	2732.3	2716.1	2696.8	2677.6	2662.8	2639.2	2627.3	2608.0	2594.7	2581.3
27.5°	2667.2	2649.5	2634.7	2615.4	2599.2	2587.4	2569.6	2557.8	2541.4	2529.5	2519.2
30°	2537.0	2522.2	2508.9	2489.6	2477.7	2467.4	2451.1	2440.8	2429.0	2415.6	2412.7
32.5°	2362.4	2350.5	2337.2	2323.8	2315.0	2309.0	2295.7	2289.8	2278.0	2270.6	2263.2
35°	2098.8	2088.5	2081.1	2075.2	2072.3	2073.7	2070.7	2076.7	2079.6	2078.1	2079.6
37.5°	1754.0	1748.1	1751.0	1755.5	1770.3	1789.6	1807.3	1833.8	1851.7	1869.5	1885.7
40°	1369.2	1373.6	1385.4	1412.0	1450.6	1493.5	1533.4	1583.7	1634.1	1669.6	1702.1
42.5°	1033.1	1046.5	1076.0	1114.5	1172.3	1235.9	1298.1	1372.1	1432.9	1491.9	1533.4
45°	777.1	794.8	833.4	886.6	950.3	1024.3	1102.7	1185.6	1258.1	1318.9	1364.7
47.5°	605.5	621.7	660.2	716.4	794.8	871.8	953.2	1039.1	1114.5	1173.8	1213.7
50°	478.1	498.8	532.8	592.1	670.6	752.0	836.3	920.7	991.7	1042.1	1077.6
52.5°	376.0	395.3	427.8	490.0	569.9	651.3	729.7	812.6	874.7	923.6	947.4
55°	291.6	309.4	343.4	395.3	470.7	550.6	629.0	700.2	757.8	793.3	815.6
57.5°	222.0	235.3	259.1	310.9	378.9	452.9	519.6	590.7	635.0	660.2	675.0
60°	168.7	179.1	204.2	244.3	306.4	370.0	426.3	479.6	515.1	535.8	550.6
62.5°	127.2	139.1	156.8	190.9	238.3	290.1	337.4	377.4	407.0	420.4	430.7
65°	87.3	96.2	109.5	136.2	176.1	213.1	250.2	279.8	299.0	313.8	319.7
67.5°	65.1	71.1	78.5	99.2	127.2	156.8	182.1	202.8	223.5	229.5	239.8
70°	48.9	53.4	60.6	75.4	91.7	112.4	133.3	145.1	159.9	170.2	173.2
72.5°	31.1	32.5	40.0	48.9	62.1	75.4	88.8	99.2	108.1	114.0	116.9
75°	17.8	26.7	26.7	35.5	44.4	50.3	59.2	66.6	71.1	75.4	75.4
77.5°	11.8	16.3	17.8	22.2	26.7	34.1	41.5	45.8	50.3	51.8	51.8
80°	10.3	11.8	11.8	16.3	19.3	25.1	29.6	31.1	34.1	35.5	38.5
82.5°	4.5	5.9	7.4	11.8	13.3	13.3	17.8	19.3	22.2	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: P248749

CATALOG NUMBER: LD8B60D010 ER8B60930 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3031.4	3031.4	3031.4	3031.4	3031.4	3031.4	3031.4
2.5°	3004.7	3006.2	3000.2	2998.8	2995.9	2997.3	3000.2
5°	2949.9	2951.5	2945.5	2939.6	2939.6	2938.1	2939.6
7.5°	2898.1	2899.7	2890.7	2887.8	2881.9	2883.3	2883.3
10°	2846.3	2846.3	2833.1	2831.5	2827.0	2825.6	2825.6
12.5°	2796.0	2791.5	2781.2	2775.3	2778.3	2769.4	2769.4
15°	2751.6	2744.2	2730.9	2726.4	2719.1	2716.1	2716.1
17.5°	2705.8	2699.8	2688.0	2679.1	2670.2	2668.8	2670.2
20°	2661.3	2655.4	2640.6	2634.7	2627.3	2627.3	2624.4
22.5°	2616.9	2611.0	2597.7	2593.2	2582.9	2582.9	2584.4
25°	2571.0	2566.5	2551.7	2548.8	2547.4	2541.4	2544.4
27.5°	2508.9	2505.9	2494.1	2489.6	2483.7	2482.2	2485.1
30°	2394.9	2390.4	2381.6	2377.2	2366.8	2368.2	2371.1
32.5°	2252.8	2246.9	2235.0	2230.6	2221.7	2218.8	2220.3
35°	2075.2	2070.7	2060.4	2060.4	2051.5	2048.5	2051.5
37.5°	1894.6	1899.0	1894.6	1899.0	1894.6	1893.1	1894.6
40°	1724.4	1740.7	1743.6	1760.0	1754.0	1762.9	1761.4
42.5°	1561.6	1588.2	1598.5	1611.9	1609.0	1614.9	1619.3
45°	1397.2	1419.5	1429.8	1438.7	1440.1	1443.2	1444.6
47.5°	1241.8	1259.7	1261.1	1271.4	1270.0	1270.0	1274.5
50°	1096.8	1108.7	1111.6	1119.0	1113.0	1110.1	1111.6
52.5°	962.2	973.9	971.0	973.9	966.5	963.6	965.1
55°	824.4	830.3	830.3	830.3	821.5	821.5	821.5
57.5°	683.8	685.4	682.4	683.8	682.4	673.5	672.0
60°	555.1	555.1	553.5	555.1	550.6	546.2	546.2
62.5°	433.7	436.6	442.6	436.6	433.7	436.6	432.1
65°	324.2	330.1	328.6	331.6	330.1	330.1	327.1
67.5°	244.3	245.7	247.2	248.7	248.7	248.7	248.7
70°	179.1	183.6	182.1	182.1	182.1	182.1	190.9
72.5°	119.9	125.8	124.3	127.2	127.2	130.3	127.2
75°	81.4	87.3	84.4	88.8	87.3	84.4	91.7
77.5°	54.8	57.7	59.2	60.6	59.2	57.7	59.2
80°	38.5	41.5	40.0	41.5	41.5	41.5	42.9
82.5°	23.7	28.1	26.7	28.1	26.7	28.1	28.1
85°	16.3	17.8	14.8	17.8	16.3	16.3	19.3
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)