

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: P248930

Luminaire Tested: **LD8B70D010 ER8B70935 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248930
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: LD8B70D010 ER8B70935 8LBSW0B
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 3500 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4906.0 lumens
Efficiency: N/A
Efficacy: 64.6 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

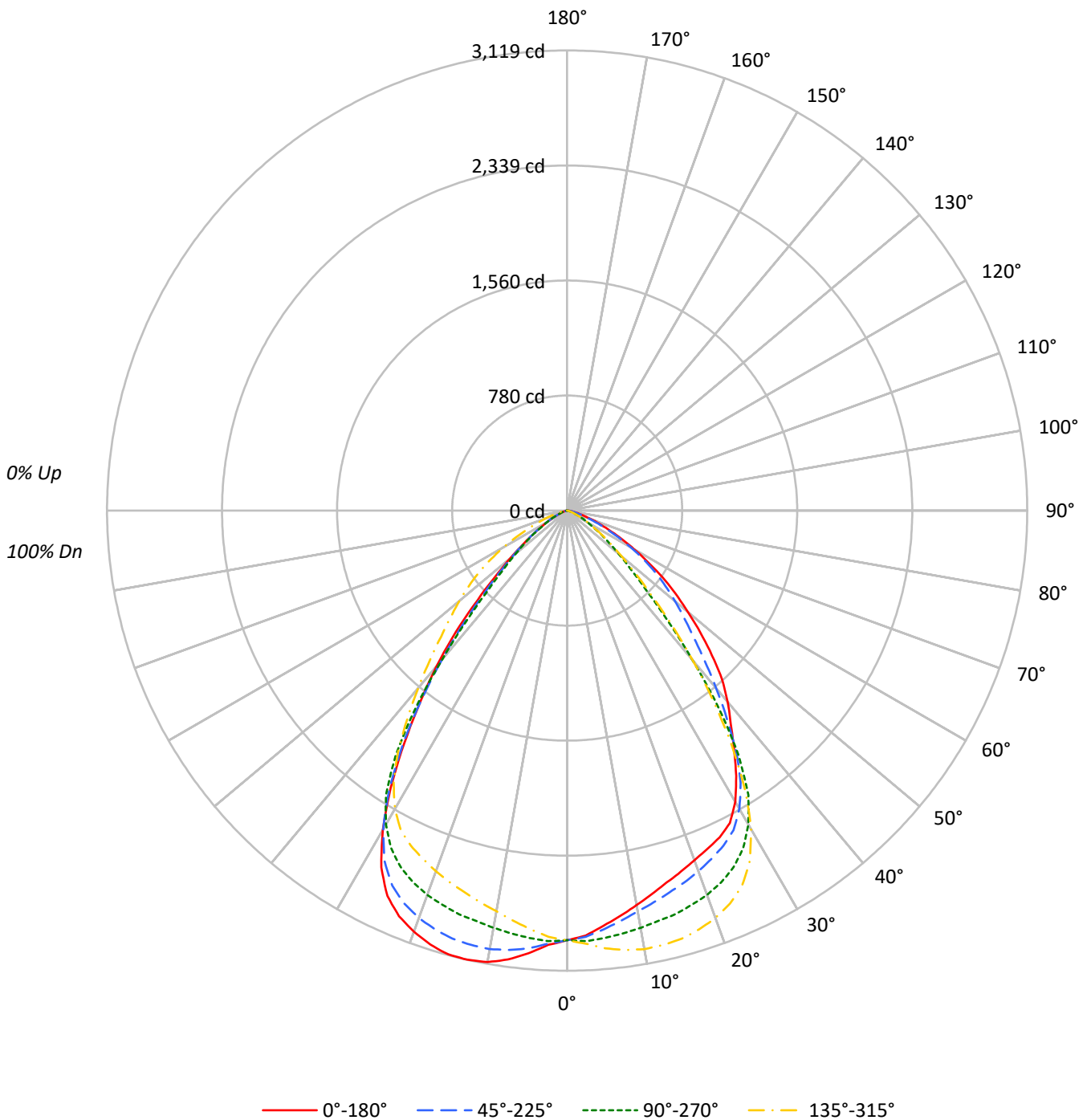
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P248930

CATALOG NUMBER: LD8B70D010 ER8B70935 8LBSW0B

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°	89811	89811	89811	89811
5°	87427	90024	93237	90024
10°	85009	89906	97296	89906
15°	83309	90438	99428	90438
20°	82744	90958	99683	90958
25°	83179	90773	98081	90773
30°	81119	87450	89020	87450
35°	74200	76286	72378	76286
40°	68122	53067	55418	53067
45°	60529	32375	37460	32375
50°	51235	21626	24015	21626
55°	42434	14758	15596	14758
60°	32366	9824	9911	9824
65°	22933	6122	5604	6122
70°	16544	4102	3724	4102
75°	10508	2037	1692	2037
80°	7334	1509	1261	1509
85°	6545	0	495	0



TEST NUMBER: P248930

CATALOG NUMBER: LD8B70D010 ER8B70935 8LBSW0B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.2	5.7
10°-20°	802.8	16.4
20°-30°	1215.6	24.8
30°-40°	1218.3	24.8
40°-50°	765.0	15.6
50°-60°	407.7	8.3
60°-70°	167.7	3.4
70°-80°	44.3	0.9
80°-90°	7.5	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°	2295.6	46.8
0°-40°	3513.9	71.6
0°-60°	4686.6	95.5
0°-90°	4906.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4906.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2912	2912	2912	2912	2912	
5°	2824	2908	3012	2908	2824	266
15°	2610	2833	3114	2833	2610	738
25°	2445	2668	2883	2668	2445	1121
35°	1971	2026	1923	2026	1971	1235
45°	1388	742	859	742	1388	1067
55°	789	274	290	274	789	704
65°	314	84	77	84	314	326
75°	88	17	14	17	88	100
85°	18	0	1	0	18	20
90°	0	0	0	0	0	



TEST NUMBER: P248930

CATALOG NUMBER: LD8B70D010 ER8B70935 8LBSW0B

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2912.5	2912.5	2912.5	2912.5	2912.5	2912.5	2912.5	2912.5	2912.5	2912.5	2912.5
2.5°	2882.7	2879.8	2878.4	2881.3	2882.7	2888.4	2887.0	2889.8	2889.8	2891.2	2894.0
5°	2824.4	2822.9	2824.4	2824.4	2830.1	2835.7	2834.3	2838.6	2841.4	2848.6	2851.4
7.5°	2770.4	2770.4	2768.9	2774.6	2777.4	2786.0	2784.5	2791.7	2795.9	2803.0	2813.0
10°	2714.9	2714.9	2716.3	2720.5	2722.0	2734.8	2734.8	2744.7	2750.4	2757.5	2770.4
12.5°	2660.8	2660.8	2669.4	2666.5	2672.2	2682.1	2686.4	2696.4	2704.9	2719.1	2732.0
15°	2609.6	2609.6	2612.5	2619.6	2623.8	2636.7	2643.7	2655.2	2665.1	2679.3	2697.8
17.5°	2565.5	2564.1	2565.5	2574.1	2582.6	2594.0	2599.7	2613.9	2623.8	2642.3	2659.4
20°	2521.5	2524.3	2524.3	2531.4	2537.1	2551.3	2557.0	2572.7	2584.0	2601.1	2621.0
22.5°	2483.1	2481.7	2481.7	2491.6	2495.9	2508.6	2514.3	2528.5	2541.4	2555.6	2574.1
25°	2444.7	2441.8	2447.5	2448.9	2451.7	2466.0	2470.2	2480.2	2493.0	2505.8	2524.3
27.5°	2387.8	2384.9	2386.4	2392.0	2396.3	2407.7	2410.5	2420.5	2430.4	2441.8	2457.5
30°	2278.2	2275.4	2274.0	2284.0	2288.2	2296.7	2301.0	2318.1	2320.9	2333.7	2345.1
32.5°	2133.2	2131.8	2134.6	2143.1	2147.4	2158.8	2164.5	2174.5	2181.5	2188.7	2200.0
35°	1971.1	1968.2	1971.1	1979.6	1979.6	1989.6	1993.9	1998.1	1996.7	1998.1	1995.3
37.5°	1820.4	1818.9	1820.4	1824.6	1820.4	1824.6	1820.4	1811.8	1796.2	1779.1	1762.0
40°	1692.3	1693.8	1685.3	1690.9	1675.3	1672.4	1656.8	1635.4	1604.2	1570.1	1521.7
42.5°	1555.8	1551.6	1545.9	1548.7	1535.9	1525.9	1500.3	1473.4	1433.5	1376.7	1318.3
45°	1388.0	1386.6	1383.7	1382.3	1373.8	1363.8	1342.5	1311.2	1267.1	1208.8	1139.1
47.5°	1224.5	1220.2	1220.2	1221.6	1211.6	1210.2	1193.1	1166.2	1127.8	1070.9	998.3
50°	1068.0	1066.6	1069.5	1075.1	1068.0	1065.2	1053.8	1035.3	1001.2	952.9	884.5
52.5°	927.2	925.8	928.7	935.8	932.9	935.8	924.4	910.2	887.4	840.5	780.8
55°	789.3	789.3	789.3	797.8	797.8	797.8	792.1	783.6	762.3	728.1	672.7
57.5°	645.7	647.1	655.6	657.0	655.6	658.5	657.0	648.5	634.3	610.1	567.5
60°	524.8	524.8	529.1	533.3	531.9	533.3	533.3	529.1	514.8	494.9	460.8
62.5°	415.3	419.5	416.7	419.5	425.2	419.5	416.7	413.9	403.9	391.1	362.6
65°	314.3	317.2	317.2	318.6	315.7	317.2	311.5	307.2	301.5	287.3	268.8
67.5°	238.9	238.9	238.9	238.9	237.5	236.1	234.7	230.4	220.4	214.8	194.8
70°	183.5	174.9	174.9	174.9	174.9	176.4	172.1	166.4	163.6	153.6	139.4
72.5°	122.3	125.2	122.3	122.3	119.5	120.9	115.2	112.3	109.5	103.8	95.3
75°	88.2	81.1	83.9	85.3	81.1	83.9	78.2	72.5	72.5	68.3	64.0
77.5°	56.9	55.5	56.9	58.3	56.9	55.5	52.6	49.8	49.8	48.4	44.1
80°	41.3	39.8	39.8	39.8	38.4	39.8	37.0	37.0	34.1	32.7	29.9
82.5°	27.0	27.0	25.6	27.0	25.6	27.0	22.8	22.8	22.8	21.3	18.5
85°	18.5	15.6	15.6	17.1	14.2	17.1	15.6	14.2	12.8	12.8	11.4
87.5°	8.5	10.0	8.5	10.0	8.5	8.5	10.0	8.5	8.5	5.7	5.7
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: P248930

CATALOG NUMBER: LD8B70D010 ER8B70935 8LBSW0B

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2912.5	2912.5	2912.5	2912.5	2912.5	2912.5	2912.5	2912.5	2912.5	2912.5	2912.5
2.5°	2898.3	2899.7	2899.7	2905.5	2908.3	2909.7	2909.7	2921.1	2916.8	2919.7	2922.5
5°	2857.1	2865.6	2868.5	2868.5	2884.1	2889.8	2895.4	2908.3	2909.7	2918.2	2928.2
7.5°	2817.2	2827.2	2832.9	2845.7	2855.6	2865.6	2882.7	2891.2	2899.7	2911.1	2923.9
10°	2778.8	2790.3	2801.6	2811.6	2827.2	2840.0	2851.4	2871.3	2881.3	2896.9	2913.9
12.5°	2741.9	2757.5	2767.5	2784.5	2801.6	2813.0	2830.1	2848.6	2864.2	2879.8	2899.7
15°	2709.2	2727.7	2739.0	2757.5	2776.0	2791.7	2810.2	2832.9	2844.3	2862.8	2881.3
17.5°	2673.6	2693.6	2707.8	2724.8	2747.6	2764.6	2780.3	2803.0	2817.2	2837.1	2858.5
20°	2636.7	2656.6	2673.6	2690.7	2713.5	2730.5	2749.0	2771.8	2787.4	2807.3	2824.4
22.5°	2592.6	2611.1	2629.5	2649.4	2672.2	2686.4	2707.8	2727.7	2744.7	2763.2	2780.3
25°	2535.7	2558.5	2572.7	2591.1	2609.6	2625.2	2648.0	2667.9	2682.1	2699.2	2714.9
27.5°	2468.8	2485.9	2497.3	2512.9	2531.4	2545.6	2562.7	2582.6	2596.9	2612.5	2623.8
30°	2355.0	2370.7	2380.7	2392.0	2410.5	2423.3	2437.6	2456.0	2466.0	2477.4	2487.3
32.5°	2205.7	2218.5	2224.2	2232.8	2245.6	2258.3	2269.7	2285.4	2289.7	2296.7	2296.7
35°	1989.6	1992.4	1991.0	1993.9	1999.5	2006.6	2016.6	2026.5	2032.2	2032.2	2028.0
37.5°	1736.4	1719.4	1700.9	1686.7	1682.4	1679.5	1685.3	1689.5	1695.2	1698.0	1690.9
40°	1473.4	1435.0	1393.7	1356.7	1331.1	1319.8	1315.5	1318.3	1318.3	1328.2	1328.2
42.5°	1247.2	1187.5	1126.4	1070.9	1033.9	1005.5	992.7	992.7	994.1	1001.2	1005.5
45°	1059.5	984.1	913.0	851.9	800.7	763.7	746.6	742.4	741.0	743.8	753.7
47.5°	915.9	837.7	763.7	688.3	634.3	597.3	581.7	575.9	570.3	575.9	577.4
50°	803.5	722.5	644.3	568.9	512.0	479.2	459.3	450.8	449.4	449.4	452.3
52.5°	701.1	625.8	547.5	470.7	411.0	379.7	361.2	357.0	351.3	357.0	357.0
55°	604.4	529.1	452.3	379.7	329.9	297.2	280.2	274.5	271.6	275.9	275.9
57.5°	499.2	435.2	364.1	298.7	248.9	226.1	213.3	206.2	204.8	207.6	204.8
60°	409.6	355.6	294.4	234.7	196.3	172.1	162.1	159.3	156.4	159.3	159.3
62.5°	324.2	278.8	228.9	183.5	150.7	133.7	122.3	122.3	120.9	120.9	122.3
65°	240.4	204.8	169.2	130.8	105.2	92.4	83.9	83.9	82.5	83.9	82.5
67.5°	174.9	150.7	122.3	95.3	75.4	68.3	62.6	58.3	61.2	58.3	56.9
70°	128.0	108.1	88.2	72.5	58.3	51.2	46.9	45.5	42.7	42.7	42.7
72.5°	85.3	72.5	59.7	46.9	38.4	31.3	29.9	27.0	24.2	25.6	28.4
75°	56.9	48.4	42.7	34.1	25.6	25.6	17.1	17.1	14.2	17.1	12.8
77.5°	39.8	32.7	25.6	21.3	17.1	15.6	11.4	11.4	10.0	10.0	10.0
80°	28.4	24.2	18.5	15.6	11.4	11.4	10.0	8.5	7.1	7.1	8.5
82.5°	17.1	12.8	12.8	11.4	7.1	5.7	4.3	5.7	2.9	2.9	2.9
85°	10.0	8.5	7.1	4.3	2.9	2.9	1.4	0.0	1.4	1.4	0.0
87.5°	5.7	2.9	2.9	1.4	0.0	1.4	1.4	0.0	0.0	0.0	2.9
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: P248930

CATALOG NUMBER: LD8B70D010 ER8B70935 8LBSW0B

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2912.5	2912.5	2912.5	2912.5	2912.5	2912.5	2912.5	2912.5	2912.5	2912.5	2912.5
2.5°	2929.6	2928.2	2931.0	2931.0	2939.6	2938.1	2942.4	2942.4	2939.6	2941.0	2946.7
5°	2939.6	2943.9	2952.3	2959.5	2972.2	2978.0	2985.1	2992.2	2993.6	2997.9	3002.2
7.5°	2939.6	2953.8	2963.8	2976.5	2993.6	3003.6	3019.2	3032.0	3037.7	3044.8	3053.3
10°	2933.8	2948.1	2966.6	2980.8	3002.2	3017.8	3033.4	3053.3	3061.9	3073.2	3084.6
12.5°	2922.5	2938.1	2958.0	2976.5	3000.7	3014.9	3034.8	3053.3	3066.1	3081.8	3094.6
15°	2905.5	2923.9	2942.4	2960.9	2986.5	3003.6	3022.1	3043.4	3056.2	3073.2	3084.6
17.5°	2878.4	2898.3	2915.4	2932.4	2956.6	2976.5	2993.6	3013.5	3026.3	3040.6	3056.2
20°	2845.7	2864.2	2882.7	2896.9	2921.1	2938.1	2956.6	2975.1	2985.1	2987.9	3012.1
22.5°	2804.5	2817.2	2831.5	2854.2	2868.5	2884.1	2901.2	2918.2	2928.2	2943.9	2952.3
25°	2736.2	2749.0	2764.6	2774.6	2791.7	2804.5	2821.5	2840.0	2845.7	2857.1	2865.6
27.5°	2640.9	2648.0	2655.2	2663.6	2673.6	2680.7	2690.7	2699.2	2704.9	2710.6	2716.3
30°	2490.1	2490.1	2490.1	2484.5	2488.7	2493.0	2494.4	2493.0	2493.0	2491.6	2491.6
32.5°	2291.1	2279.7	2266.9	2255.5	2251.3	2245.6	2242.7	2238.4	2231.3	2227.1	2228.5
35°	2022.3	1996.7	1981.0	1966.8	1955.5	1946.9	1942.6	1938.4	1937.0	1931.3	1925.6
37.5°	1686.7	1668.2	1656.8	1648.3	1638.3	1629.8	1631.2	1632.6	1636.9	1634.0	1635.4
40°	1331.1	1326.8	1331.1	1321.2	1318.3	1321.2	1328.2	1338.3	1343.9	1349.6	1359.6
42.5°	1012.6	1019.6	1029.7	1029.7	1033.9	1039.6	1048.1	1063.8	1072.3	1082.2	1093.6
45°	762.3	770.8	783.6	787.8	790.7	797.8	807.8	820.6	826.2	834.8	844.7
47.5°	587.4	593.0	600.1	607.3	614.3	617.2	627.2	627.2	634.3	640.0	642.8
50°	457.9	463.6	469.3	473.6	476.4	480.7	483.5	487.8	489.2	492.1	493.5
52.5°	358.4	365.5	365.5	368.3	372.6	376.9	375.5	376.9	378.3	378.3	382.5
55°	280.2	280.2	284.4	284.4	287.3	285.8	287.3	287.3	287.3	287.3	288.7
57.5°	209.0	210.5	214.8	211.9	210.5	213.3	210.5	213.3	211.9	214.8	210.5
60°	160.7	160.7	162.1	162.1	163.6	163.6	163.6	162.1	162.1	160.7	160.7
62.5°	120.9	122.3	123.7	122.3	122.3	122.3	120.9	120.9	119.5	118.0	118.0
65°	81.1	79.7	82.5	79.7	81.1	81.1	79.7	81.1	76.8	78.2	76.8
67.5°	58.3	56.9	55.5	56.9	55.5	54.0	54.0	55.5	56.9	52.6	52.6
70°	38.4	39.8	38.4	39.8	41.3	41.3	39.8	38.4	39.8	37.0	38.4
72.5°	24.2	24.2	24.2	24.2	24.2	25.6	25.6	25.6	22.8	22.8	21.3
75°	11.4	15.6	12.8	11.4	15.6	15.6	14.2	14.2	12.8	12.8	12.8
77.5°	11.4	8.5	8.5	8.5	8.5	8.5	8.5	8.5	7.1	8.5	7.1
80°	5.7	5.7	5.7	4.3	5.7	5.7	7.1	5.7	5.7	4.3	7.1
82.5°	2.9	2.9	2.9	0.0	1.4	2.9	2.9	1.4	2.9	2.9	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: P248930

CATALOG NUMBER: LD8B70D010 ER8B70935 8LBSW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2912.5	2912.5	2912.5	2912.5	2912.5	2912.5	2912.5	2912.5	2912.5	2912.5	2912.5
2.5°	2945.3	2943.9	2945.3	2946.7	2945.3	2943.9	2945.3	2946.7	2941.0	2939.6	2942.4
5°	3007.8	3007.8	3010.6	3012.1	3010.6	3007.8	3007.8	3002.2	2997.9	2993.6	2992.2
7.5°	3061.9	3064.7	3067.5	3068.9	3067.5	3064.7	3061.9	3053.3	3044.8	3037.7	3032.0
10°	3094.6	3098.9	3104.5	3107.3	3104.5	3098.9	3094.6	3084.6	3073.2	3061.9	3053.3
12.5°	3108.8	3113.1	3120.2	3118.8	3120.2	3113.1	3108.8	3094.6	3081.8	3066.1	3053.3
15°	3098.9	3104.5	3111.6	3114.5	3111.6	3104.5	3098.9	3084.6	3073.2	3056.2	3043.4
17.5°	3067.5	3076.1	3080.4	3084.6	3080.4	3076.1	3067.5	3056.2	3040.6	3026.3	3013.5
20°	3024.9	3030.6	3036.3	3037.7	3036.3	3030.6	3024.9	3012.1	2987.9	2985.1	2975.1
22.5°	2963.8	2968.0	2980.8	2976.5	2980.8	2968.0	2963.8	2952.3	2943.9	2928.2	2918.2
25°	2875.5	2879.8	2881.3	2882.7	2881.3	2879.8	2875.5	2865.6	2857.1	2845.7	2840.0
27.5°	2723.4	2723.4	2726.2	2727.7	2726.2	2723.4	2723.4	2716.3	2710.6	2704.9	2699.2
30°	2493.0	2493.0	2493.0	2500.1	2493.0	2493.0	2493.0	2491.6	2491.6	2493.0	2493.0
32.5°	2227.1	2224.2	2221.4	2224.2	2221.4	2224.2	2227.1	2228.5	2227.1	2231.3	2238.4
35°	1925.6	1924.1	1928.4	1922.7	1928.4	1924.1	1925.6	1925.6	1931.3	1937.0	1938.4
37.5°	1636.9	1634.0	1639.7	1634.0	1639.7	1634.0	1636.9	1635.4	1634.0	1636.9	1632.6
40°	1362.4	1365.2	1365.2	1376.7	1365.2	1365.2	1362.4	1359.6	1349.6	1343.9	1338.3
42.5°	1099.3	1107.9	1105.0	1113.5	1105.0	1107.9	1099.3	1093.6	1082.2	1072.3	1063.8
45°	850.4	856.2	856.2	859.0	856.2	856.2	850.4	844.7	834.8	826.2	820.6
47.5°	652.7	652.7	652.7	654.2	652.7	652.7	652.7	642.8	640.0	634.3	627.2
50°	496.3	497.7	499.2	500.6	499.2	497.7	496.3	493.5	492.1	489.2	487.8
52.5°	381.1	382.5	379.7	382.5	379.7	382.5	381.1	382.5	378.3	378.3	376.9
55°	288.7	287.3	288.7	290.1	288.7	287.3	288.7	288.7	287.3	287.3	287.3
57.5°	211.9	209.0	209.0	209.0	209.0	209.0	211.9	210.5	214.8	211.9	213.3
60°	157.9	159.3	159.3	160.7	159.3	159.3	157.9	160.7	160.7	162.1	162.1
62.5°	116.6	120.9	118.0	120.9	118.0	120.9	116.6	118.0	118.0	119.5	120.9
65°	75.4	75.4	75.4	76.8	75.4	75.4	75.4	76.8	78.2	76.8	81.1
67.5°	51.2	52.6	55.5	54.0	55.5	52.6	51.2	52.6	52.6	56.9	55.5
70°	41.3	37.0	37.0	41.3	37.0	37.0	41.3	38.4	37.0	39.8	38.4
72.5°	24.2	21.3	24.2	24.2	24.2	21.3	24.2	21.3	22.8	22.8	25.6
75°	12.8	11.4	10.0	14.2	10.0	11.4	12.8	12.8	12.8	12.8	14.2
77.5°	8.5	7.1	10.0	10.0	10.0	7.1	8.5	7.1	8.5	7.1	8.5
80°	4.3	5.7	4.3	7.1	4.3	5.7	4.3	7.1	4.3	5.7	5.7
82.5°	1.4	2.9	2.9	2.9	2.9	2.9	1.4	1.4	2.9	2.9	1.4
85°	0.0	2.9	1.4	1.4	1.4	2.9	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: P248930

CATALOG NUMBER: LD8B70D010 ER8B70935 8LBSW0B

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2912.5	2912.5	2912.5	2912.5	2912.5	2912.5	2912.5	2912.5	2912.5	2912.5	2912.5
2.5°	2942.4	2938.1	2939.6	2931.0	2931.0	2928.2	2929.6	2922.5	2919.7	2916.8	2921.1
5°	2985.1	2978.0	2972.2	2959.5	2952.3	2943.9	2939.6	2928.2	2918.2	2909.7	2908.3
7.5°	3019.2	3003.6	2993.6	2976.5	2963.8	2953.8	2939.6	2923.9	2911.1	2899.7	2891.2
10°	3033.4	3017.8	3002.2	2980.8	2966.6	2948.1	2933.8	2913.9	2896.9	2881.3	2871.3
12.5°	3034.8	3014.9	3000.7	2976.5	2958.0	2938.1	2922.5	2899.7	2879.8	2864.2	2848.6
15°	3022.1	3003.6	2986.5	2960.9	2942.4	2923.9	2905.5	2881.3	2862.8	2844.3	2832.9
17.5°	2993.6	2976.5	2956.6	2932.4	2915.4	2898.3	2878.4	2858.5	2837.1	2817.2	2803.0
20°	2956.6	2938.1	2921.1	2896.9	2882.7	2864.2	2845.7	2824.4	2807.3	2787.4	2771.8
22.5°	2901.2	2884.1	2868.5	2854.2	2831.5	2817.2	2804.5	2780.3	2763.2	2744.7	2727.7
25°	2821.5	2804.5	2791.7	2774.6	2764.6	2749.0	2736.2	2714.9	2699.2	2682.1	2667.9
27.5°	2690.7	2680.7	2673.6	2663.6	2655.2	2648.0	2640.9	2623.8	2612.5	2596.9	2582.6
30°	2494.4	2493.0	2488.7	2484.5	2490.1	2490.1	2490.1	2487.3	2477.4	2466.0	2456.0
32.5°	2242.7	2245.6	2251.3	2255.5	2266.9	2279.7	2291.1	2296.7	2296.7	2289.7	2285.4
35°	1942.6	1946.9	1955.5	1966.8	1981.0	1996.7	2022.3	2028.0	2032.2	2032.2	2026.5
37.5°	1631.2	1629.8	1638.3	1648.3	1656.8	1668.2	1686.7	1690.9	1698.0	1695.2	1689.5
40°	1328.2	1321.2	1318.3	1321.2	1331.1	1326.8	1331.1	1328.2	1328.2	1318.3	1318.3
42.5°	1048.1	1039.6	1033.9	1029.7	1029.7	1019.6	1012.6	1005.5	1001.2	994.1	992.7
45°	807.8	797.8	790.7	787.8	783.6	770.8	762.3	753.7	743.8	741.0	742.4
47.5°	627.2	617.2	614.3	607.3	600.1	593.0	587.4	577.4	575.9	570.3	575.9
50°	483.5	480.7	476.4	473.6	469.3	463.6	457.9	452.3	449.4	449.4	450.8
52.5°	375.5	376.9	372.6	368.3	365.5	365.5	358.4	357.0	357.0	351.3	357.0
55°	287.3	285.8	287.3	284.4	284.4	280.2	280.2	275.9	275.9	271.6	274.5
57.5°	210.5	213.3	210.5	211.9	214.8	210.5	209.0	204.8	207.6	204.8	206.2
60°	163.6	163.6	163.6	162.1	162.1	160.7	160.7	159.3	159.3	156.4	159.3
62.5°	120.9	122.3	122.3	122.3	123.7	122.3	120.9	122.3	120.9	120.9	122.3
65°	79.7	81.1	81.1	79.7	82.5	79.7	81.1	82.5	83.9	82.5	83.9
67.5°	54.0	54.0	55.5	56.9	55.5	56.9	58.3	56.9	58.3	61.2	58.3
70°	39.8	41.3	41.3	39.8	38.4	39.8	38.4	42.7	42.7	42.7	45.5
72.5°	25.6	25.6	24.2	24.2	24.2	24.2	24.2	28.4	25.6	24.2	27.0
75°	14.2	15.6	15.6	11.4	12.8	15.6	11.4	12.8	17.1	14.2	17.1
77.5°	8.5	8.5	8.5	8.5	8.5	8.5	11.4	10.0	10.0	10.0	11.4
80°	7.1	5.7	5.7	4.3	5.7	5.7	5.7	8.5	7.1	7.1	8.5
82.5°	2.9	2.9	1.4	0.0	2.9	2.9	2.9	2.9	2.9	2.9	5.7
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	2.9	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: P248930

CATALOG NUMBER: LD8B70D010 ER8B70935 8LBSW0B

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2912.5	2912.5	2912.5	2912.5	2912.5	2912.5	2912.5	2912.5	2912.5	2912.5	2912.5
2.5°	2909.7	2909.7	2908.3	2905.5	2899.7	2899.7	2898.3	2894.0	2891.2	2889.8	2889.8
5°	2895.4	2889.8	2884.1	2868.5	2868.5	2865.6	2857.1	2851.4	2848.6	2841.4	2838.6
7.5°	2882.7	2865.6	2855.6	2845.7	2832.9	2827.2	2817.2	2813.0	2803.0	2795.9	2791.7
10°	2851.4	2840.0	2827.2	2811.6	2801.6	2790.3	2778.8	2770.4	2757.5	2750.4	2744.7
12.5°	2830.1	2813.0	2801.6	2784.5	2767.5	2757.5	2741.9	2732.0	2719.1	2704.9	2696.4
15°	2810.2	2791.7	2776.0	2757.5	2739.0	2727.7	2709.2	2697.8	2679.3	2665.1	2655.2
17.5°	2780.3	2764.6	2747.6	2724.8	2707.8	2693.6	2673.6	2659.4	2642.3	2623.8	2613.9
20°	2749.0	2730.5	2713.5	2690.7	2673.6	2656.6	2636.7	2621.0	2601.1	2584.0	2572.7
22.5°	2707.8	2686.4	2672.2	2649.4	2629.5	2611.1	2592.6	2574.1	2555.6	2541.4	2528.5
25°	2648.0	2625.2	2609.6	2591.1	2572.7	2558.5	2535.7	2524.3	2505.8	2493.0	2480.2
27.5°	2562.7	2545.6	2531.4	2512.9	2497.3	2485.9	2468.8	2457.5	2441.8	2430.4	2420.5
30°	2437.6	2423.3	2410.5	2392.0	2380.7	2370.7	2355.0	2345.1	2333.7	2320.9	2318.1
32.5°	2269.7	2258.3	2245.6	2232.8	2224.2	2218.5	2205.7	2200.0	2188.7	2181.5	2174.5
35°	2016.6	2006.6	1999.5	1993.9	1991.0	1992.4	1989.6	1995.3	1998.1	1996.7	1998.1
37.5°	1685.3	1679.5	1682.4	1686.7	1700.9	1719.4	1736.4	1762.0	1779.1	1796.2	1811.8
40°	1315.5	1319.8	1331.1	1356.7	1393.7	1435.0	1473.4	1521.7	1570.1	1604.2	1635.4
42.5°	992.7	1005.5	1033.9	1070.9	1126.4	1187.5	1247.2	1318.3	1376.7	1433.5	1473.4
45°	746.6	763.7	800.7	851.9	913.0	984.1	1059.5	1139.1	1208.8	1267.1	1311.2
47.5°	581.7	597.3	634.3	688.3	763.7	837.7	915.9	998.3	1070.9	1127.8	1166.2
50°	459.3	479.2	512.0	568.9	644.3	722.5	803.5	884.5	952.9	1001.2	1035.3
52.5°	361.2	379.7	411.0	470.7	547.5	625.8	701.1	780.8	840.5	887.4	910.2
55°	280.2	297.2	329.9	379.7	452.3	529.1	604.4	672.7	728.1	762.3	783.6
57.5°	213.3	226.1	248.9	298.7	364.1	435.2	499.2	567.5	610.1	634.3	648.5
60°	162.1	172.1	196.3	234.7	294.4	355.6	409.6	460.8	494.9	514.8	529.1
62.5°	122.3	133.7	150.7	183.5	228.9	278.8	324.2	362.6	391.1	403.9	413.9
65°	83.9	92.4	105.2	130.8	169.2	204.8	240.4	268.8	287.3	301.5	307.2
67.5°	62.6	68.3	75.4	95.3	122.3	150.7	174.9	194.8	214.8	220.4	230.4
70°	46.9	51.2	58.3	72.5	88.2	108.1	128.0	139.4	153.6	163.6	166.4
72.5°	29.9	31.3	38.4	46.9	59.7	72.5	85.3	95.3	103.8	109.5	112.3
75°	17.1	25.6	25.6	34.1	42.7	48.4	56.9	64.0	68.3	72.5	72.5
77.5°	11.4	15.6	17.1	21.3	25.6	32.7	39.8	44.1	48.4	49.8	49.8
80°	10.0	11.4	11.4	15.6	18.5	24.2	28.4	29.9	32.7	34.1	37.0
82.5°	4.3	5.7	7.1	11.4	12.8	12.8	17.1	18.5	21.3	22.8	22.8
85°	1.4	2.9	2.9	4.3	7.1	8.5	10.0	11.4	12.8	12.8	14.2
87.5°	1.4	1.4	0.0	1.4	2.9	2.9	5.7	5.7	5.7	8.5	8.5
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: P248930

CATALOG NUMBER: LD8B70D010 ER8B70935 8LBSW0B

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2912.5	2912.5	2912.5	2912.5	2912.5	2912.5	2912.5
2.5°	2887.0	2888.4	2882.7	2881.3	2878.4	2879.8	2882.7
5°	2834.3	2835.7	2830.1	2824.4	2824.4	2822.9	2824.4
7.5°	2784.5	2786.0	2777.4	2774.6	2768.9	2770.4	2770.4
10°	2734.8	2734.8	2722.0	2720.5	2716.3	2714.9	2714.9
12.5°	2686.4	2682.1	2672.2	2666.5	2669.4	2660.8	2660.8
15°	2643.7	2636.7	2623.8	2619.6	2612.5	2609.6	2609.6
17.5°	2599.7	2594.0	2582.6	2574.1	2565.5	2564.1	2565.5
20°	2557.0	2551.3	2537.1	2531.4	2524.3	2524.3	2521.5
22.5°	2514.3	2508.6	2495.9	2491.6	2481.7	2481.7	2483.1
25°	2470.2	2466.0	2451.7	2448.9	2447.5	2441.8	2444.7
27.5°	2410.5	2407.7	2396.3	2392.0	2386.4	2384.9	2387.8
30°	2301.0	2296.7	2288.2	2284.0	2274.0	2275.4	2278.2
32.5°	2164.5	2158.8	2147.4	2143.1	2134.6	2131.8	2133.2
35°	1993.9	1989.6	1979.6	1979.6	1971.1	1968.2	1971.1
37.5°	1820.4	1824.6	1820.4	1824.6	1820.4	1818.9	1820.4
40°	1656.8	1672.4	1675.3	1690.9	1685.3	1693.8	1692.3
42.5°	1500.3	1525.9	1535.9	1548.7	1545.9	1551.6	1555.8
45°	1342.5	1363.8	1373.8	1382.3	1383.7	1386.6	1388.0
47.5°	1193.1	1210.2	1211.6	1221.6	1220.2	1220.2	1224.5
50°	1053.8	1065.2	1068.0	1075.1	1069.5	1066.6	1068.0
52.5°	924.4	935.8	932.9	935.8	928.7	925.8	927.2
55°	792.1	797.8	797.8	797.8	789.3	789.3	789.3
57.5°	657.0	658.5	655.6	657.0	655.6	647.1	645.7
60°	533.3	533.3	531.9	533.3	529.1	524.8	524.8
62.5°	416.7	419.5	425.2	419.5	416.7	419.5	415.3
65°	311.5	317.2	315.7	318.6	317.2	317.2	314.3
67.5°	234.7	236.1	237.5	238.9	238.9	238.9	238.9
70°	172.1	176.4	174.9	174.9	174.9	174.9	183.5
72.5°	115.2	120.9	119.5	122.3	122.3	125.2	122.3
75°	78.2	83.9	81.1	85.3	83.9	81.1	88.2
77.5°	52.6	55.5	56.9	58.3	56.9	55.5	56.9
80°	37.0	39.8	38.4	39.8	39.8	39.8	41.3
82.5°	22.8	27.0	25.6	27.0	25.6	27.0	27.0
85°	15.6	17.1	14.2	17.1	15.6	15.6	18.5
87.5°	10.0	8.5	8.5	10.0	8.5	10.0	8.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)