

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: P859409

Luminaire Tested: **LX4C65D010 EX4C659050 4LBLWW***

Issue Date: 2/9/2022

Test Information

Test Method: LM-79-08
Report Number: P859409
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-1)
Test Lab: INNOVATION CENTER
Issue Date: 2/9/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C65D010 EX4C659050 4LBLWW*
Description: 4 INCH 6500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LRLWW TRIM WITH * FINISH
Light Source: -
Ballast/Driver: -

Summary

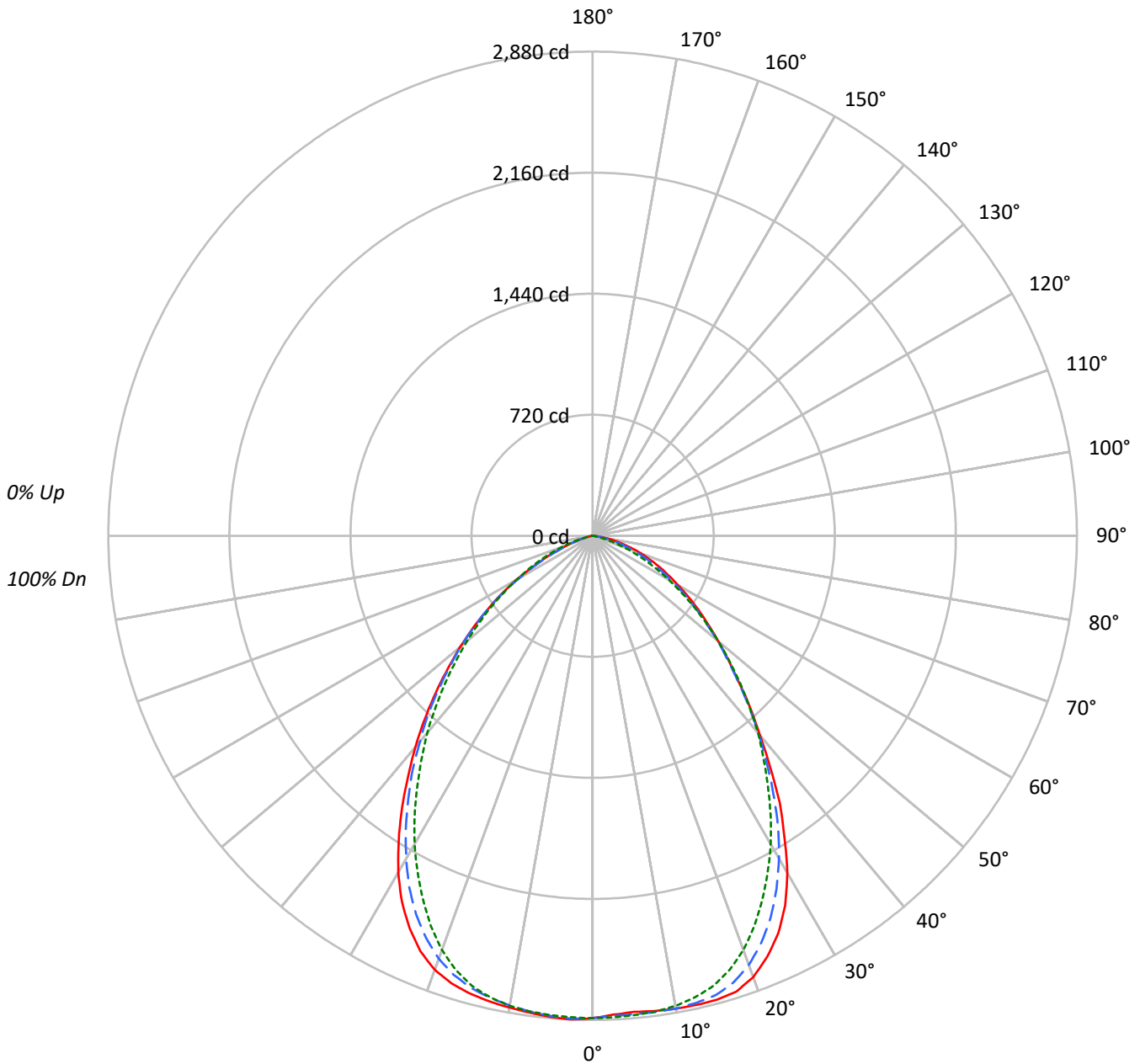
Lumens per Lamp: N/A
Luminaire Lumens: 5501.0 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 72.4
Input Voltage (V):
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									
RC	80									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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89																			
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78																			
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68																			
4	88	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60																			
5	82	71	63	57	80	70	63	57	68	61	57	66	60	56	64	59	55	54																			
6	76	65	57	51	75	64	56	51	62	56	51	61	55	50	59	54	50	48																			
7	71	59	51	46	70	59	51	46	57	50	46	56	50	45	54	49	45	43																			
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	50	45	41	39																			
9	63	51	43	38	61	50	43	38	49	42	38	48	42	38	47	41	37	36																			
10	59	47	40	35	58	46	39	35	45	39	35	45	39	35	44	38	34	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	352503	352503	352503
5°	350533	352925	354245
10°	356332	354174	355521
15°	363298	352601	358503
20°	365125	342730	359072
25°	353890	323662	349078
30°	328474	300344	327864
35°	290879	272447	296368
40°	247970	245372	262821
45°	213041	215474	228956
50°	185966	186367	196248
55°	164325	157386	162698
60°	144009	128406	127866
65°	127470	99592	88633
70°	108766	68499	52623
75°	87956	36834	24018
80°	60207	9127	6084
85°	18184	3101	3101



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.7	5.0
10°-20°	789.4	14.4
20°-30°	1140.7	20.7
30°-40°	1179.2	21.4
40°-50°	974.3	17.7
50°-60°	672.4	12.2
60°-70°	352.0	6.4
70°-80°	110.8	2.0
80°-90°	9.4	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°	2202.8	40.0
0°-40°	3382.0	61.5
0°-60°	5028.7	91.4
0°-90°	5501.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5501.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2869	2869	2869	2869	2869	
5°	2842	2856	2862	2867	2872	272
15°	2856	2829	2772	2785	2819	806
25°	2611	2505	2388	2484	2575	1192
35°	1940	1875	1817	1911	1976	1204
45°	1226	1221	1240	1297	1318	956
55°	767	744	735	755	760	689
65°	438	398	343	284	305	434
75°	185	146	78	53	51	199
85°	13	6	2	2	2	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2869.3	2869.3	2869.3	2869.3	2869.3	2869.3	2869.3	2869.3	2869.3	2869.3	2869.3
2.5°	2851.0	2852.1	2852.1	2854.2	2854.2	2854.2	2855.3	2855.3	2856.4	2857.5	2858.5
5°	2842.4	2842.4	2844.5	2845.6	2847.8	2848.8	2851.0	2852.1	2854.2	2855.3	2856.4
7.5°	2851.0	2851.0	2852.1	2853.2	2853.2	2854.2	2854.2	2855.3	2856.4	2857.5	2857.5
10°	2856.4	2856.4	2856.4	2856.4	2857.5	2857.5	2857.5	2856.4	2856.4	2856.4	2855.3
12.5°	2858.5	2858.5	2857.5	2856.4	2857.5	2856.4	2856.4	2853.2	2851.0	2848.8	2845.6
15°	2856.4	2856.4	2855.3	2854.2	2853.2	2851.0	2849.9	2844.5	2840.2	2833.8	2829.4
17.5°	2842.4	2840.2	2838.1	2835.9	2831.6	2828.4	2826.2	2816.5	2809.0	2798.2	2786.3
20°	2792.8	2790.7	2787.4	2782.0	2776.7	2772.3	2765.9	2751.9	2744.3	2728.2	2716.3
22.5°	2712.0	2709.8	2710.9	2701.2	2690.5	2684.0	2679.7	2667.8	2654.9	2634.4	2621.5
25°	2610.7	2604.3	2604.3	2589.2	2583.8	2579.5	2574.1	2560.1	2540.7	2522.4	2505.1
27.5°	2479.3	2470.6	2466.3	2464.2	2451.3	2441.6	2434.0	2423.2	2407.1	2390.9	2367.2
30°	2315.5	2314.4	2309.0	2299.3	2289.6	2285.3	2276.7	2258.4	2243.3	2231.4	2216.4
32.5°	2122.6	2121.5	2121.5	2121.5	2115.1	2114.0	2101.1	2091.4	2079.5	2061.2	2051.5
35°	1939.5	1938.4	1939.5	1923.3	1919.0	1915.7	1914.7	1908.2	1892.0	1883.4	1874.8
37.5°	1732.6	1735.8	1733.7	1729.3	1734.7	1725.0	1732.6	1718.6	1712.1	1710.0	1700.3
40°	1546.2	1554.8	1546.2	1547.3	1552.6	1542.9	1542.9	1540.8	1536.5	1534.3	1532.2
42.5°	1386.7	1375.9	1382.4	1377.0	1382.4	1379.2	1373.8	1377.0	1378.1	1373.8	1372.7
45°	1226.2	1228.3	1230.5	1227.2	1227.2	1224.0	1232.6	1227.2	1227.2	1228.3	1220.8
47.5°	1095.8	1092.6	1094.7	1092.6	1093.6	1091.5	1093.6	1094.7	1092.6	1092.6	1086.1
50°	973.0	970.8	978.3	971.9	971.9	970.8	971.9	969.7	966.5	966.5	968.6
52.5°	866.3	862.0	860.9	866.3	858.7	858.7	859.8	857.7	853.4	851.2	845.8
55°	767.2	766.1	767.2	762.9	760.7	760.7	755.3	753.2	752.1	746.7	743.5
57.5°	674.5	671.3	672.3	671.3	667.0	665.9	661.6	661.6	657.3	652.9	647.6
60°	586.1	586.1	589.4	585.1	581.8	579.7	577.5	575.4	567.8	560.3	553.8
62.5°	507.5	508.6	507.5	504.3	502.1	499.9	497.8	491.3	484.9	480.6	473.0
65°	438.5	437.5	434.2	432.1	426.7	426.7	422.4	419.1	411.6	405.1	397.6
67.5°	367.4	365.3	365.3	365.3	358.8	357.7	355.6	349.1	342.6	334.0	327.6
70°	302.8	304.9	301.7	298.5	295.2	294.2	290.9	284.5	276.9	268.3	262.9
72.5°	241.4	243.5	240.3	239.2	232.7	230.6	229.5	224.1	215.5	210.1	201.5
75°	185.3	186.4	184.2	182.1	177.8	176.7	171.3	167.0	161.6	153.0	145.5
77.5°	133.6	131.5	131.5	127.1	122.8	122.8	121.8	115.3	107.7	101.3	94.8
80°	85.1	84.0	80.8	78.7	75.4	74.3	73.3	67.9	62.5	58.2	53.9
82.5°	43.1	42.0	40.9	39.9	37.7	35.6	36.6	32.3	30.2	25.9	22.6
85°	12.9	14.0	14.0	12.9	11.9	11.9	11.9	10.8	8.6	7.5	6.5
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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2869.3	2869.3	2869.3	2869.3	2869.3	2869.3	2869.3	2869.3	2869.3	2869.3	2869.3
2.5°	2859.6	2860.7	2861.8	2862.8	2862.8	2863.9	2865.0	2866.1	2867.2	2867.2	2868.2
5°	2857.5	2859.6	2859.6	2860.7	2860.7	2860.7	2861.8	2861.8	2861.8	2861.8	2862.8
7.5°	2858.5	2858.5	2858.5	2857.5	2857.5	2856.4	2856.4	2856.4	2854.2	2854.2	2854.2
10°	2853.2	2852.1	2851.0	2848.8	2847.8	2846.7	2844.5	2842.4	2840.2	2839.1	2837.0
12.5°	2842.4	2838.1	2833.8	2829.4	2827.3	2826.2	2821.9	2818.7	2815.4	2812.2	2810.1
15°	2820.8	2814.4	2806.8	2798.2	2796.0	2793.9	2786.3	2779.9	2775.6	2772.3	2767.0
17.5°	2777.7	2764.8	2756.2	2743.2	2737.9	2735.7	2723.9	2717.4	2709.8	2707.7	2703.4
20°	2701.2	2689.4	2673.2	2661.4	2654.9	2648.4	2638.7	2630.1	2621.5	2621.5	2616.1
22.5°	2605.3	2590.2	2569.8	2554.7	2553.6	2540.7	2532.1	2522.4	2519.1	2512.7	2512.7
25°	2484.7	2471.7	2449.1	2436.2	2429.7	2426.5	2412.5	2399.5	2393.1	2387.7	2392.0
27.5°	2351.0	2331.7	2314.4	2298.3	2292.9	2286.4	2273.5	2268.1	2256.2	2255.2	2254.1
30°	2198.0	2178.7	2161.4	2153.9	2143.1	2137.7	2128.0	2121.5	2117.2	2117.2	2115.1
32.5°	2037.5	2020.3	2011.6	1995.5	1990.1	1982.6	1976.1	1969.6	1971.8	1969.6	1970.7
35°	1864.0	1859.7	1843.6	1833.9	1833.9	1832.8	1822.0	1817.7	1815.5	1816.6	1822.0
37.5°	1699.2	1686.2	1675.5	1669.0	1674.4	1667.9	1666.9	1666.9	1673.3	1669.0	1677.6
40°	1523.5	1522.5	1518.2	1520.3	1521.4	1513.9	1516.0	1517.1	1521.4	1530.0	1531.1
42.5°	1370.5	1369.5	1369.5	1369.5	1367.3	1363.0	1367.3	1374.9	1373.8	1380.2	1385.6
45°	1222.9	1220.8	1225.1	1221.9	1228.3	1230.5	1227.2	1229.4	1235.9	1240.2	1248.8
47.5°	1088.2	1088.2	1089.3	1091.5	1085.0	1090.4	1092.6	1096.9	1100.1	1102.3	1106.6
50°	963.3	963.3	961.1	961.1	961.1	964.3	960.0	965.4	966.5	975.1	980.5
52.5°	848.0	842.6	845.8	843.7	839.4	837.2	839.4	840.4	846.9	849.0	855.5
55°	738.1	738.1	729.4	727.3	730.5	729.4	728.4	728.4	731.6	734.8	740.2
57.5°	641.1	634.6	628.2	627.1	623.9	624.9	624.9	623.9	621.7	622.8	623.9
60°	549.5	545.2	535.5	535.5	534.4	533.3	528.0	526.9	521.5	522.6	518.3
62.5°	465.5	463.3	450.4	446.1	446.1	442.8	437.5	436.4	428.8	428.8	424.5
65°	390.0	383.6	376.0	368.5	368.5	364.2	361.0	351.3	345.9	342.6	336.2
67.5°	321.1	311.4	303.8	297.4	293.1	292.0	284.5	278.0	269.4	264.0	254.3
70°	254.3	246.7	239.2	232.7	228.4	224.1	216.6	206.9	200.4	190.7	184.2
72.5°	191.8	185.3	178.9	170.2	164.9	161.6	154.1	145.5	134.7	128.2	119.6
75°	137.9	130.4	121.8	114.2	111.0	107.7	99.1	92.7	85.1	77.6	69.0
77.5°	89.4	80.8	74.3	65.7	64.6	62.5	53.9	47.4	42.0	37.7	32.3
80°	47.4	43.1	37.7	32.3	30.2	26.9	22.6	19.4	16.2	12.9	10.8
82.5°	20.5	17.2	14.0	11.9	10.8	9.7	7.5	6.5	5.4	5.4	4.3
85°	5.4	4.3	4.3	3.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
87.5°	0.0	0.0	0.0	0.0	1.1	1.1	1.1	0.0	1.1	1.1	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2869.3	2869.3	2869.3	2869.3	2869.3	2869.3	2869.3	2869.3	2869.3	2869.3	2869.3
2.5°	2869.3	2870.4	2871.5	2871.5	2872.5	2873.6	2873.6	2874.7	2875.8	2876.9	2876.9
5°	2863.9	2863.9	2863.9	2865.0	2865.0	2865.0	2865.0	2867.2	2867.2	2868.2	2869.3
7.5°	2853.2	2853.2	2853.2	2853.2	2852.1	2853.2	2852.1	2852.1	2854.2	2855.3	2856.4
10°	2835.9	2834.8	2834.8	2833.8	2833.8	2833.8	2834.8	2835.9	2837.0	2838.1	2841.3
12.5°	2809.0	2807.9	2807.9	2806.8	2806.8	2807.9	2809.0	2811.1	2815.4	2817.6	2821.9
15°	2765.9	2764.8	2765.9	2767.0	2769.1	2772.3	2775.6	2778.8	2785.3	2790.7	2796.0
17.5°	2703.4	2704.5	2705.5	2707.7	2710.9	2715.2	2723.9	2732.5	2740.0	2748.6	2757.3
20°	2617.2	2621.5	2622.6	2630.1	2632.3	2642.0	2651.7	2664.6	2676.4	2687.2	2699.1
22.5°	2513.7	2517.0	2521.3	2529.9	2535.3	2548.2	2560.1	2575.2	2588.1	2602.1	2619.3
25°	2396.3	2397.4	2410.3	2410.3	2423.2	2434.0	2448.0	2464.2	2483.6	2501.9	2513.7
27.5°	2262.7	2268.1	2277.8	2282.1	2291.8	2309.0	2320.9	2340.3	2359.7	2375.8	2388.8
30°	2122.6	2126.9	2143.1	2145.3	2152.8	2167.9	2184.0	2202.4	2217.4	2235.8	2247.6
32.5°	1975.0	1986.9	1996.6	2004.1	2006.3	2028.9	2037.5	2050.4	2067.7	2086.0	2097.8
35°	1831.7	1837.1	1851.1	1855.4	1861.9	1874.8	1892.0	1902.8	1911.4	1923.3	1937.3
37.5°	1679.8	1695.9	1699.2	1712.1	1714.3	1726.1	1734.7	1747.7	1758.4	1769.2	1771.4
40°	1538.6	1544.0	1555.9	1559.1	1561.3	1577.4	1588.2	1591.4	1596.8	1606.5	1619.4
42.5°	1395.3	1400.7	1413.6	1410.4	1420.1	1427.7	1433.0	1446.0	1451.4	1454.6	1454.6
45°	1254.2	1256.3	1265.0	1269.3	1274.7	1279.0	1288.7	1295.1	1297.3	1307.0	1310.2
47.5°	1119.5	1121.7	1128.1	1135.7	1133.5	1138.9	1149.7	1152.9	1154.0	1160.4	1163.7
50°	987.0	992.4	1001.0	998.8	1005.3	1008.5	1018.2	1020.4	1020.4	1021.4	1022.5
52.5°	863.1	867.4	869.5	871.7	874.9	880.3	884.6	882.5	886.8	891.1	887.8
55°	740.2	743.5	748.8	751.0	751.0	752.1	749.9	759.6	755.3	754.2	755.3
57.5°	628.2	623.9	622.8	628.2	630.3	629.2	626.0	630.3	630.3	628.2	624.9
60°	519.3	516.1	515.0	516.1	511.8	508.6	510.7	508.6	503.2	501.0	502.1
62.5°	420.2	417.0	408.4	408.4	406.2	405.1	396.5	397.6	393.3	386.8	389.0
65°	328.6	320.0	315.7	314.6	307.1	300.6	298.5	290.9	284.5	283.4	284.5
67.5°	246.7	237.0	229.5	226.3	222.0	216.6	209.0	202.6	204.7	203.6	208.0
70°	171.3	164.9	157.3	151.9	154.1	147.6	143.3	143.3	144.4	145.5	147.6
72.5°	114.2	105.6	102.4	99.1	97.0	92.7	94.8	94.8	93.7	94.8	92.7
75°	64.6	60.3	57.1	56.0	53.9	53.9	53.9	53.9	52.8	51.7	51.7
77.5°	29.1	26.9	25.9	24.8	24.8	24.8	23.7	22.6	22.6	22.6	21.5
80°	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
82.5°	4.3	4.3	5.4	5.4	5.4	4.3	5.4	5.4	4.3	4.3	5.4
85°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
87.5°	1.1	1.1	1.1	0.0	1.1	1.1	1.1	1.1	0.0	1.1	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: P859409

CATALOG NUMBER: LX4C65D010 EX4C659050 4LBLWW*

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2869.3	2869.3	2869.3	2869.3	2869.3	2869.3	2869.3	2869.3
2.5°	2877.9	2879.0	2879.0	2879.0	2880.1	2880.1	2880.1	2880.1
5°	2870.4	2871.5	2871.5	2871.5	2872.5	2872.5	2872.5	2872.5
7.5°	2857.5	2858.5	2858.5	2859.6	2859.6	2860.7	2860.7	2861.8
10°	2842.4	2844.5	2845.6	2846.7	2847.8	2848.8	2848.8	2849.9
12.5°	2826.2	2828.4	2829.4	2831.6	2833.8	2834.8	2835.9	2837.0
15°	2802.5	2806.8	2809.0	2810.1	2814.4	2816.5	2817.6	2818.7
17.5°	2764.8	2773.4	2776.7	2778.8	2783.1	2787.4	2790.7	2791.7
20°	2710.9	2720.6	2724.9	2730.3	2736.8	2742.2	2744.3	2746.5
22.5°	2635.5	2646.3	2652.7	2659.2	2664.6	2670.0	2678.6	2675.4
25°	2527.8	2546.1	2553.6	2556.8	2568.7	2575.2	2579.5	2575.2
27.5°	2407.1	2417.9	2424.3	2431.9	2440.5	2446.9	2449.1	2455.6
30°	2261.6	2279.9	2278.9	2286.4	2297.2	2303.6	2305.8	2311.2
32.5°	2110.8	2119.4	2125.9	2124.8	2129.1	2140.9	2136.6	2146.3
35°	1950.2	1951.3	1962.1	1961.0	1969.6	1969.6	1969.6	1976.1
37.5°	1778.9	1791.8	1786.5	1799.4	1795.1	1798.3	1798.3	1800.5
40°	1622.7	1627.0	1627.0	1631.3	1634.5	1631.3	1633.5	1638.8
42.5°	1461.1	1465.4	1466.4	1464.3	1467.5	1477.2	1469.7	1476.1
45°	1310.2	1313.4	1317.8	1314.5	1319.9	1316.7	1319.9	1317.8
47.5°	1168.0	1166.9	1165.8	1174.4	1166.9	1168.0	1172.3	1164.7
50°	1022.5	1029.0	1024.7	1027.9	1030.1	1030.1	1026.8	1026.8
52.5°	893.2	892.1	888.9	892.1	890.0	891.1	893.2	891.1
55°	759.6	763.9	761.8	760.7	761.8	761.8	768.2	759.6
57.5°	628.2	626.0	629.2	636.8	629.2	634.6	637.9	638.9
60°	503.2	503.2	509.6	506.4	512.9	518.3	522.6	520.4
62.5°	383.6	389.0	391.1	392.2	398.7	403.0	403.0	401.9
65°	284.5	292.0	292.0	296.3	298.5	298.5	300.6	304.9
67.5°	210.1	210.1	211.2	213.3	212.3	212.3	214.4	215.5
70°	146.5	144.4	147.6	146.5	146.5	145.5	146.5	146.5
72.5°	92.7	92.7	93.7	92.7	90.5	91.6	91.6	93.7
75°	49.6	51.7	49.6	49.6	50.6	48.5	49.6	50.6
77.5°	20.5	20.5	20.5	20.5	20.5	19.4	19.4	19.4
80°	9.7	9.7	9.7	9.7	9.7	9.7	8.6	8.6
82.5°	4.3	5.4	4.3	5.4	4.3	4.3	4.3	4.3
85°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
87.5°	0.0	1.1	0.0	1.1	0.0	0.0	0.0	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)