

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: P859027

Luminaire Tested: **LX4C50D010 EX4C509040 4LBSWNH**

Issue Date: 2/18/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P859027  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P251634)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/18/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LX4C50D010 EX4C509040 4LBSWNH  
Description: 4 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 4LCSW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

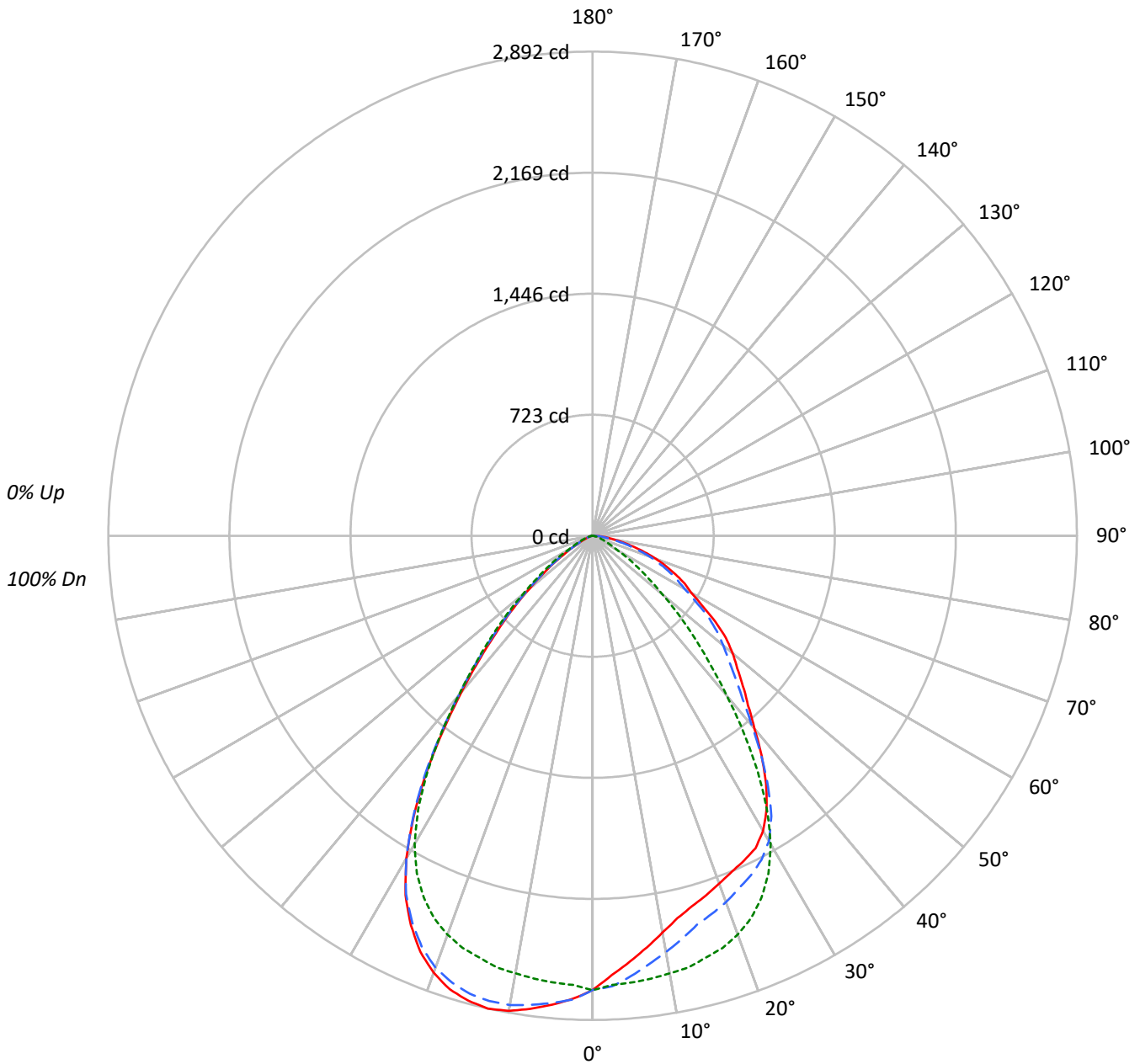
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4757.0 lumens  
Efficiency: N/A  
Efficacy: 81.5 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.15  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 58.4  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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	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	100	100
1	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89	89	89	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79	79	79	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70	70	70	70
4	90	80	72	67	88	78	72	66	76	70	66	74	69	65	72	68	64	62	62	62	62
5	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56	56	56	56
6	78	67	59	53	76	66	59	53	64	58	53	62	57	52	61	56	52	50	50	50	50
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	56	51	47	46	46	46	46
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	42	42	42	42
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38	38	38	38
10	61	49	42	37	59	48	42	37	47	41	37	47	41	37	46	40	37	35	35	35	35

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	333400	333400	333400
5°	314831	330357	346747
10°	300145	331120	359476
15°	291335	331819	365613
20°	288944	331473	363020
25°	290112	323309	347940
30°	288726	301621	315509
35°	270632	257539	260149
40°	241154	199665	195191
45°	220547	148861	139740
50°	208538	104278	94244
55°	191763	70404	59159
60°	167548	41230	32630
65°	158604	26424	18285
70°	144470	18858	11315
75°	119522	13291	8307
80°	93954	7499	4952
85°	83870	5075	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	256.4	5.4
10°-20°	735.6	15.5
20°-30°	1090.5	22.9
30°-40°	1091.9	23.0
40°-50°	763.1	16.0
50°-60°	454.1	9.5
60°-70°	237.0	5.0
70°-80°	105.4	2.2
80°-90°	23.0	0.5
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°	2082.4	43.8
0°-40°	3174.4	66.7
0°-60°	4391.6	92.3
0°-90°	4757.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4757.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2714	2714	2714	2714	2714	
5°	2553	2640	2679	2801	2812	239
15°	2291	2406	2609	2833	2875	649
25°	2140	2238	2385	2549	2567	986
35°	1804	1826	1717	1749	1735	1119
45°	1269	1206	857	829	804	986
55°	895	839	329	287	276	794
65°	546	500	91	66	63	540
75°	252	220	28	18	18	272
85°	60	46	4	4	0	67
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°	2713.8	2713.8	2713.8	2713.8	2713.8	2713.8	2713.8	2713.8	2713.8	2713.8	2713.8
2.5°	2626.3	2657.9	2626.3	2636.9	2678.8	2640.3	2661.3	2661.3	2650.9	2675.3	2692.8
5°	2552.9	2584.4	2552.9	2566.8	2612.4	2573.8	2598.4	2591.4	2594.9	2615.9	2640.3
7.5°	2479.5	2503.9	2476.0	2493.5	2535.4	2503.9	2524.9	2524.9	2528.5	2559.8	2581.0
10°	2406.0	2427.0	2406.0	2420.0	2465.5	2437.6	2451.5	2455.0	2465.5	2493.5	2524.9
12.5°	2339.5	2357.1	2336.1	2357.1	2395.5	2367.5	2385.1	2388.5	2399.0	2430.6	2465.5
15°	2290.6	2308.2	2287.2	2304.6	2339.5	2318.6	2332.6	2339.5	2346.5	2374.5	2406.0
17.5°	2252.2	2266.2	2248.7	2269.6	2297.6	2273.2	2294.2	2294.2	2304.6	2332.6	2367.5
20°	2210.1	2224.1	2210.1	2227.7	2259.2	2238.2	2255.6	2255.6	2266.2	2297.6	2329.1
22.5°	2171.8	2178.7	2171.8	2185.7	2217.1	2199.7	2210.1	2213.7	2224.1	2252.2	2280.2
25°	2140.2	2154.2	2147.2	2161.2	2182.2	2164.8	2175.2	2178.7	2189.2	2213.7	2238.2
27.5°	2105.3	2112.3	2105.3	2122.8	2140.2	2126.2	2136.8	2133.2	2140.2	2161.2	2182.2
30°	2035.3	2042.3	2042.3	2052.8	2066.9	2059.9	2070.3	2059.9	2066.9	2084.3	2105.3
32.5°	1933.9	1937.5	1940.9	1951.5	1961.9	1951.5	1958.4	1958.4	1958.4	1972.4	1986.4
35°	1804.5	1811.5	1808.1	1815.0	1825.5	1822.0	1822.0	1818.5	1811.5	1818.5	1825.5
37.5°	1657.7	1647.1	1647.1	1657.7	1664.7	1650.7	1657.7	1650.7	1650.7	1654.1	1654.1
40°	1503.7	1493.3	1503.7	1507.3	1510.7	1503.7	1500.3	1493.3	1482.7	1486.3	1479.3
42.5°	1374.4	1367.3	1370.9	1370.9	1374.4	1367.3	1370.9	1356.9	1346.3	1339.4	1328.9
45°	1269.4	1259.0	1269.4	1262.4	1262.4	1259.0	1255.5	1248.5	1234.5	1224.1	1206.5
47.5°	1171.6	1171.6	1175.0	1175.0	1175.0	1168.0	1168.0	1154.0	1140.0	1126.0	1101.6
50°	1091.1	1084.1	1098.1	1098.1	1087.7	1084.1	1087.7	1070.1	1059.7	1042.1	1017.6
52.5°	1003.6	1003.6	1007.2	1007.2	1003.6	996.6	1000.2	986.2	975.7	958.2	933.7
55°	895.3	888.3	898.8	898.8	895.3	891.8	895.3	884.8	874.3	860.4	839.3
57.5°	772.9	769.3	776.3	779.9	772.9	772.9	776.3	765.9	762.3	748.4	727.4
60°	681.9	678.4	685.4	689.0	681.9	681.9	681.9	667.9	660.9	646.9	632.9
62.5°	619.0	615.5	622.5	619.0	615.5	612.0	615.5	601.5	594.6	580.6	566.6
65°	545.6	549.0	552.6	552.6	549.0	545.6	545.6	538.6	531.6	517.6	500.1
67.5°	475.6	475.6	479.1	482.6	479.1	479.1	479.1	468.6	461.6	451.2	430.2
70°	402.2	398.7	409.2	409.2	402.2	405.6	402.2	398.7	391.7	377.7	360.3
72.5°	325.2	325.2	328.7	328.7	325.2	325.2	325.2	321.7	311.2	304.2	286.8
75°	251.8	251.8	255.3	258.8	251.8	251.8	255.3	248.3	241.3	230.9	220.3
77.5°	188.9	185.3	188.9	188.9	185.3	185.3	185.3	181.9	178.4	167.8	157.4
80°	132.8	129.4	132.8	132.8	132.8	129.4	129.4	125.8	125.8	118.9	108.4
82.5°	90.9	87.5	90.9	90.9	90.9	87.5	87.5	87.5	83.9	80.5	73.5
85°	59.5	55.9	55.9	59.5	55.9	55.9	55.9	55.9	52.5	48.9	45.5
87.5°	28.0	28.0	28.0	28.0	28.0	28.0	28.0	24.5	24.5	24.5	21.0
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°	2713.8	2713.8	2713.8	2713.8	2713.8	2713.8	2713.8	2713.8	2713.8	2713.8	2713.8
2.5°	2678.8	2671.8	2692.8	2685.8	2689.3	2671.8	2699.8	2685.8	2703.2	2685.8	2720.8
5°	2633.3	2626.3	2657.9	2654.3	2657.9	2643.9	2675.3	2671.8	2692.8	2678.8	2717.2
7.5°	2584.4	2577.4	2612.4	2615.9	2622.9	2608.9	2650.9	2650.9	2671.8	2668.3	2710.2
10°	2528.5	2531.9	2566.8	2573.8	2588.0	2581.0	2619.3	2629.9	2657.9	2654.3	2706.8
12.5°	2476.0	2476.0	2521.5	2535.4	2545.9	2542.4	2588.0	2601.9	2633.3	2640.3	2689.3
15°	2423.6	2427.0	2469.0	2489.9	2503.9	2500.5	2549.4	2566.8	2605.4	2608.9	2668.3
17.5°	2381.5	2378.1	2423.6	2441.0	2462.0	2458.5	2510.9	2531.9	2570.4	2581.0	2636.9
20°	2346.5	2343.1	2385.1	2406.0	2420.0	2416.6	2469.0	2493.5	2528.5	2535.4	2591.4
22.5°	2304.6	2297.6	2339.5	2357.1	2371.1	2367.5	2413.0	2430.6	2465.5	2472.5	2524.9
25°	2255.6	2248.7	2287.2	2297.6	2308.2	2301.2	2339.5	2350.1	2378.1	2385.1	2437.6
27.5°	2199.7	2182.2	2213.7	2213.7	2220.7	2210.1	2238.2	2248.7	2273.2	2273.2	2322.1
30°	2112.3	2087.9	2105.3	2101.8	2105.3	2091.3	2108.8	2112.3	2129.8	2126.2	2161.2
32.5°	1989.8	1954.9	1965.4	1954.9	1944.5	1923.5	1944.5	1937.5	1951.5	1937.5	1968.9
35°	1822.0	1787.1	1783.5	1769.5	1759.1	1741.6	1741.6	1724.2	1727.6	1717.2	1738.1
37.5°	1640.1	1594.7	1587.8	1559.8	1542.2	1521.3	1521.3	1507.3	1489.7	1482.7	1500.3
40°	1461.8	1412.8	1395.4	1349.9	1332.4	1311.4	1297.4	1280.0	1273.0	1245.0	1259.0
42.5°	1308.0	1255.5	1217.1	1168.0	1150.6	1119.1	1098.1	1077.1	1066.7	1035.2	1049.1
45°	1178.5	1115.6	1073.7	1010.6	986.2	951.3	919.7	895.3	870.8	856.8	849.8
47.5°	1070.1	1003.6	947.7	877.8	839.3	807.9	765.9	741.4	710.0	692.4	681.9
50°	979.2	905.7	842.8	762.3	724.0	689.0	639.9	601.5	573.6	545.6	538.6
52.5°	898.8	821.8	751.9	660.9	615.5	573.6	521.1	479.1	454.6	423.2	419.6
55°	804.3	737.9	660.9	566.6	521.1	479.1	423.2	381.2	349.7	328.7	321.7
57.5°	703.0	639.9	566.6	472.1	426.6	381.2	328.7	290.2	262.2	244.8	241.3
60°	608.5	549.0	479.1	384.7	339.2	300.8	244.8	206.3	181.9	167.8	160.8
62.5°	538.6	482.6	416.2	328.7	286.8	248.3	195.9	160.8	139.8	125.8	118.9
65°	472.1	416.2	356.7	276.2	241.3	206.3	157.4	125.8	104.9	90.9	83.9
67.5°	402.2	353.3	297.2	230.9	195.9	167.8	125.8	97.9	80.5	69.9	62.9
70°	332.2	286.8	241.3	185.3	160.8	132.8	97.9	76.9	59.5	52.5	45.5
72.5°	262.2	227.3	188.9	143.4	122.4	104.9	76.9	55.9	45.5	38.5	31.5
75°	195.9	171.4	139.8	108.4	90.9	76.9	55.9	41.9	35.0	28.0	24.5
77.5°	139.8	118.9	97.9	73.5	66.5	55.9	38.5	31.5	24.5	17.5	14.0
80°	94.5	83.9	66.5	52.5	41.9	38.5	28.0	21.0	14.0	10.6	10.6
82.5°	62.9	52.5	41.9	31.5	28.0	24.5	17.5	14.0	10.6	7.0	7.0
85°	38.5	31.5	24.5	17.5	17.5	14.0	10.6	7.0	3.6	3.6	3.6
87.5°	17.5	14.0	10.6	7.0	7.0	3.6	3.6	3.6	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):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2713.8	2713.8	2713.8	2713.8	2713.8	2713.8	2713.8	2713.8	2713.8	2713.8	2713.8
2.5°	2748.8	2727.8	2713.8	2731.2	2738.2	2727.8	2738.2	2755.7	2773.3	2776.7	2727.8
5°	2752.3	2731.2	2724.2	2745.2	2748.8	2745.2	2755.7	2780.3	2801.3	2808.3	2759.3
7.5°	2752.3	2738.2	2734.8	2759.3	2762.7	2759.3	2776.7	2804.7	2825.7	2839.6	2790.7
10°	2745.2	2738.2	2741.8	2762.7	2769.7	2769.7	2794.3	2825.7	2846.6	2860.6	2811.7
12.5°	2734.8	2734.8	2734.8	2759.3	2766.3	2769.7	2790.7	2832.7	2846.6	2867.6	2818.7
15°	2717.2	2717.2	2717.2	2741.8	2752.3	2752.3	2776.7	2815.2	2832.7	2853.6	2804.7
17.5°	2685.8	2685.8	2689.3	2710.2	2720.8	2720.8	2745.2	2787.3	2797.7	2822.2	2773.3
20°	2640.3	2640.3	2643.9	2664.9	2675.3	2668.3	2699.8	2734.8	2745.2	2766.3	2717.2
22.5°	2573.8	2573.8	2573.8	2594.9	2601.9	2598.4	2629.9	2661.3	2661.3	2689.3	2636.9
25°	2476.0	2482.9	2476.0	2496.9	2503.9	2500.5	2528.5	2556.4	2549.4	2581.0	2528.5
27.5°	2357.1	2353.5	2353.5	2371.1	2371.1	2367.5	2388.5	2420.0	2413.0	2434.0	2385.1
30°	2192.7	2203.1	2185.7	2210.1	2199.7	2192.7	2206.7	2234.7	2224.1	2241.7	2203.1
32.5°	2003.8	1989.8	1989.8	1989.8	1996.8	1979.4	1993.4	2007.4	1996.8	2014.4	1972.4
35°	1755.6	1759.1	1748.6	1752.1	1755.6	1734.6	1748.6	1762.5	1748.6	1759.1	1720.6
37.5°	1507.3	1510.7	1486.3	1500.3	1486.3	1479.3	1493.3	1500.3	1486.3	1496.7	1454.8
40°	1259.0	1252.0	1248.5	1248.5	1252.0	1234.5	1245.0	1255.5	1245.0	1252.0	1213.5
42.5°	1042.1	1038.7	1031.7	1035.2	1024.6	1021.2	1024.6	1035.2	1024.6	1031.7	1003.6
45°	853.2	846.2	835.8	839.3	839.3	821.8	832.3	839.3	828.8	832.3	807.9
47.5°	678.4	667.9	667.9	664.5	664.5	657.5	667.9	664.5	653.9	660.9	636.5
50°	528.1	521.1	521.1	521.1	521.1	510.5	514.1	521.1	510.5	510.5	496.5
52.5°	412.6	402.2	395.2	395.2	395.2	391.7	391.7	395.2	384.7	384.7	381.2
55°	311.2	307.8	297.2	297.2	297.2	286.8	290.2	290.2	286.8	286.8	276.2
57.5°	230.9	220.3	213.3	213.3	206.3	206.3	202.9	206.3	199.3	199.3	192.3
60°	153.8	146.8	143.4	139.8	139.8	136.4	139.8	136.4	136.4	132.8	129.4
62.5°	111.9	104.9	97.9	97.9	97.9	94.5	94.5	94.5	94.5	94.5	90.9
65°	80.5	73.5	73.5	69.9	69.9	66.5	66.5	66.5	66.5	66.5	62.9
67.5°	55.9	52.5	48.9	48.9	48.9	48.9	48.9	48.9	45.5	45.5	45.5
70°	41.9	38.5	35.0	35.0	35.0	35.0	35.0	31.5	35.0	35.0	31.5
72.5°	28.0	28.0	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
75°	21.0	21.0	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5
77.5°	14.0	14.0	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
80°	10.6	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
82.5°	7.0	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
85°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	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: P859027

CATALOG NUMBER: LX4C50D010 EX4C509040 4LBSWNH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2713.8	2713.8	2713.8	2713.8	2713.8	2713.8	2713.8	2713.8
2.5°	2780.3	2776.7	2769.7	2780.3	2752.3	2741.8	2738.2	2769.7
5°	2818.7	2811.7	2811.7	2822.2	2790.7	2783.7	2776.7	2811.7
7.5°	2853.6	2846.6	2846.6	2857.2	2829.2	2822.2	2815.2	2850.2
10°	2874.6	2874.6	2874.6	2881.6	2857.2	2850.2	2846.6	2881.6
12.5°	2885.2	2885.2	2881.6	2895.6	2864.2	2864.2	2857.2	2892.2
15°	2871.2	2871.2	2871.2	2881.6	2853.6	2846.6	2846.6	2874.6
17.5°	2836.2	2836.2	2832.7	2843.2	2811.7	2811.7	2808.3	2839.6
20°	2783.7	2783.7	2776.7	2790.7	2759.3	2748.8	2745.2	2776.7
22.5°	2699.8	2696.3	2692.8	2699.8	2671.8	2664.9	2661.3	2689.3
25°	2591.4	2588.0	2581.0	2588.0	2556.4	2545.9	2545.9	2566.8
27.5°	2437.6	2437.6	2427.0	2437.6	2402.5	2399.0	2395.5	2420.0
30°	2248.7	2234.7	2227.7	2241.7	2206.7	2206.7	2199.7	2224.1
32.5°	2014.4	2000.4	1996.8	2003.8	1972.4	1961.9	1975.9	1989.8
35°	1745.1	1748.6	1734.6	1734.6	1706.6	1710.0	1713.6	1734.6
37.5°	1486.3	1479.3	1475.8	1479.3	1458.3	1451.4	1444.4	1465.3
40°	1245.0	1227.5	1224.1	1224.1	1206.5	1203.1	1206.5	1217.1
42.5°	1017.6	1014.2	1000.2	1007.2	989.6	996.6	993.2	993.2
45°	821.8	825.3	811.3	821.8	807.9	797.3	797.3	804.3
47.5°	650.5	650.5	646.9	646.9	636.5	639.9	632.9	643.5
50°	503.5	503.5	496.5	500.1	493.1	493.1	489.5	493.1
52.5°	384.7	381.2	381.2	377.7	370.7	374.3	377.7	370.7
55°	279.8	283.2	276.2	279.8	272.8	276.2	272.8	276.2
57.5°	192.3	195.9	188.9	195.9	188.9	192.3	188.9	188.9
60°	132.8	132.8	129.4	132.8	129.4	129.4	125.8	132.8
62.5°	90.9	90.9	90.9	90.9	90.9	87.5	90.9	90.9
65°	66.5	62.9	62.9	62.9	62.9	62.9	62.9	62.9
67.5°	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5
70°	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
72.5°	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
75°	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5
77.5°	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
80°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
82.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
85°	3.6	3.6	3.6	0.0	3.6	0.0	0.0	0.0
87.5°	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



Report Generated By 670246072 / DESKTOP-50001EG





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















(END OF REPORT)