

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: P859536

Luminaire Tested: **LX4C70D010 EX4C709730 4LBLWW\***

Issue Date: 2/9/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P859536  
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: LX4C70D010 EX4C709730 4LBLWW\*  
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 97CRI LEDS  
AND 4LRLWW TRIM WITH \* FINISH  
Light Source: -  
Ballast/Driver: -

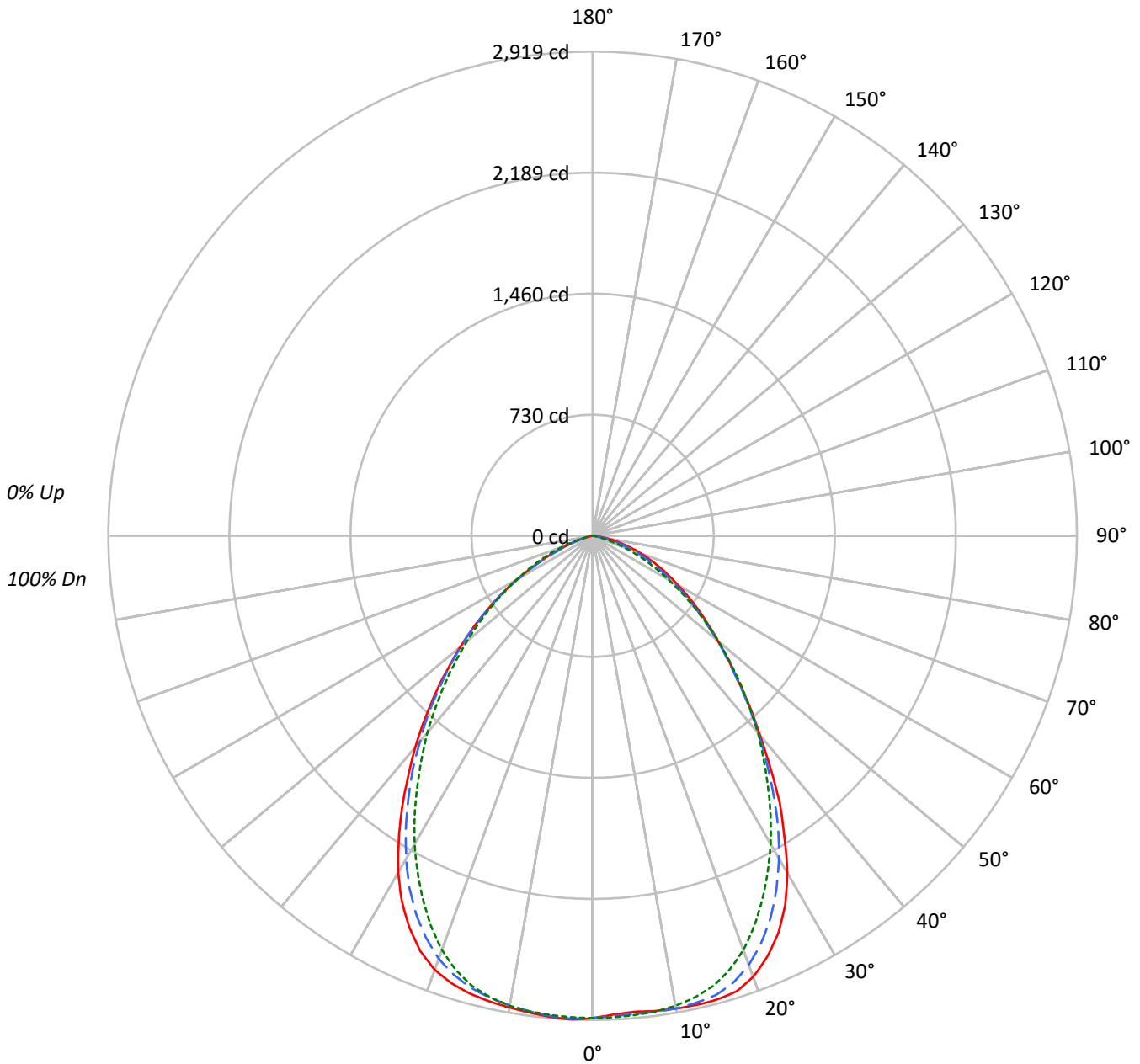
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5575.0 lumens  
Efficiency: N/A  
Efficacy: 71.5 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): 78  
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									
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°	357246	357246	357246
5°	355244	357673	359017
10°	361123	358939	360312
15°	368182	357345	363323
20°	370041	347345	363896
25°	358648	328013	353768
30°	332886	304387	332276
35°	294779	276122	300358
40°	251306	248676	266365
45°	215908	218375	232031
50°	188450	188871	198886
55°	166532	159506	164882
60°	145950	130126	129586
65°	129185	100930	89825
70°	110202	69433	53341
75°	89143	37309	24351
80°	61056	9268	6155
85°	18466	3101	3101



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	276.4	5.0
10°-20°	800.0	14.4
20°-30°	1156.0	20.7
30°-40°	1195.1	21.4
40°-50°	987.4	17.7
50°-60°	681.5	12.2
60°-70°	356.8	6.4
70°-80°	112.3	2.0
80°-90°	9.5	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°	2232.4	40.0
0°-40°	3427.5	61.5
0°-60°	5096.4	91.4
0°-90°	5575.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5575.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2908	2908	2908	2908	2908	
5°	2881	2895	2900	2906	2911	276
15°	2895	2868	2810	2823	2857	817
25°	2646	2539	2420	2517	2610	1208
35°	1966	1900	1841	1937	2003	1220
45°	1243	1237	1257	1315	1336	969
55°	778	754	745	766	770	698
65°	444	403	347	288	309	440
75°	188	147	79	54	51	201
85°	13	7	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°	2907.9	2907.9	2907.9	2907.9	2907.9	2907.9	2907.9	2907.9	2907.9	2907.9	2907.9
2.5°	2889.3	2890.4	2890.4	2892.6	2892.6	2892.6	2893.7	2893.7	2894.8	2895.9	2897.0
5°	2880.6	2880.6	2882.8	2883.9	2886.1	2887.2	2889.3	2890.4	2892.6	2893.7	2894.8
7.5°	2889.3	2889.3	2890.4	2891.5	2891.5	2892.6	2892.6	2893.7	2894.8	2895.9	2895.9
10°	2894.8	2894.8	2894.8	2894.8	2895.9	2895.9	2895.9	2894.8	2894.8	2894.8	2893.7
12.5°	2897.0	2897.0	2895.9	2894.8	2895.9	2894.8	2894.8	2891.5	2889.3	2887.2	2883.9
15°	2894.8	2894.8	2893.7	2892.6	2891.5	2889.3	2888.3	2882.8	2878.4	2871.9	2867.5
17.5°	2880.6	2878.4	2876.2	2874.1	2869.7	2866.4	2864.2	2854.4	2846.8	2835.8	2823.8
20°	2830.4	2828.2	2824.9	2819.5	2814.0	2809.6	2803.1	2788.9	2781.2	2764.9	2752.9
22.5°	2748.5	2746.3	2747.4	2737.6	2726.6	2720.1	2715.7	2703.7	2690.6	2669.9	2656.8
25°	2645.8	2639.3	2639.3	2624.0	2618.5	2614.2	2608.7	2594.5	2574.9	2556.3	2538.8
27.5°	2512.6	2503.9	2499.5	2497.3	2484.2	2474.4	2466.8	2455.8	2439.5	2423.1	2399.1
30°	2346.6	2345.5	2340.1	2330.3	2320.4	2316.1	2307.3	2288.8	2273.5	2261.5	2246.2
32.5°	2151.2	2150.1	2150.1	2150.1	2143.5	2142.4	2129.3	2119.5	2107.5	2088.9	2079.1
35°	1965.5	1964.5	1965.5	1949.2	1944.8	1941.5	1940.4	1933.9	1917.5	1908.8	1900.0
37.5°	1755.9	1759.2	1757.0	1752.6	1758.1	1748.2	1755.9	1741.7	1735.1	1733.0	1723.1
40°	1567.0	1575.7	1567.0	1568.1	1573.5	1563.7	1563.7	1561.5	1557.1	1555.0	1552.8
42.5°	1405.4	1394.4	1401.0	1395.5	1401.0	1397.7	1392.3	1395.5	1396.6	1392.3	1391.2
45°	1242.7	1244.8	1247.0	1243.8	1243.8	1240.5	1249.2	1243.8	1243.8	1244.8	1237.2
47.5°	1110.5	1107.3	1109.4	1107.3	1108.3	1106.2	1108.3	1109.4	1107.3	1107.3	1100.7
50°	986.0	983.9	991.5	985.0	985.0	983.9	985.0	982.8	979.5	979.5	981.7
52.5°	877.9	873.6	872.5	877.9	870.3	870.3	871.4	869.2	864.8	862.7	857.2
55°	777.5	776.4	777.5	773.1	770.9	770.9	765.5	763.3	762.2	756.7	753.5
57.5°	683.6	680.3	681.4	680.3	675.9	674.8	670.5	670.5	666.1	661.7	656.3
60°	594.0	594.0	597.3	592.9	589.7	587.5	585.3	583.1	575.5	567.8	561.3
62.5°	514.3	515.4	514.3	511.0	508.9	506.7	504.5	497.9	491.4	487.0	479.4
65°	444.4	443.3	440.1	437.9	432.4	432.4	428.1	424.8	417.1	410.6	402.9
67.5°	372.4	370.2	370.2	370.2	363.6	362.5	360.3	353.8	347.2	338.5	332.0
70°	306.8	309.0	305.8	302.5	299.2	298.1	294.8	288.3	280.6	271.9	266.4
72.5°	244.6	246.8	243.5	242.4	235.9	233.7	232.6	227.1	218.4	212.9	204.2
75°	187.8	188.9	186.7	184.5	180.2	179.1	173.6	169.3	163.8	155.1	147.4
77.5°	135.4	133.2	133.2	128.9	124.5	124.5	123.4	116.8	109.2	102.6	96.1
80°	86.3	85.2	81.9	79.7	76.4	75.3	74.3	68.8	63.3	59.0	54.6
82.5°	43.7	42.6	41.5	40.4	38.2	36.0	37.1	32.8	30.6	26.2	22.9
85°	13.1	14.2	14.2	13.1	12.0	12.0	12.0	10.9	8.7	7.6	6.6
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°	2907.9	2907.9	2907.9	2907.9	2907.9	2907.9	2907.9	2907.9	2907.9	2907.9	2907.9
2.5°	2898.1	2899.2	2900.3	2901.4	2901.4	2902.5	2903.5	2904.6	2905.7	2905.7	2906.8
5°	2895.9	2898.1	2898.1	2899.2	2899.2	2899.2	2900.3	2900.3	2900.3	2900.3	2901.4
7.5°	2897.0	2897.0	2897.0	2895.9	2895.9	2894.8	2894.8	2894.8	2892.6	2892.6	2892.6
10°	2891.5	2890.4	2889.3	2887.2	2886.1	2885.0	2882.8	2880.6	2878.4	2877.3	2875.2
12.5°	2880.6	2876.2	2871.9	2867.5	2865.3	2864.2	2859.9	2856.6	2853.3	2850.0	2847.9
15°	2858.8	2852.2	2844.6	2835.8	2833.7	2831.5	2823.8	2817.3	2812.9	2809.6	2804.2
17.5°	2815.1	2802.0	2793.3	2780.2	2774.7	2772.5	2760.5	2753.9	2746.3	2744.1	2739.7
20°	2737.6	2725.6	2709.2	2697.2	2690.6	2684.1	2674.2	2665.5	2656.8	2656.8	2651.3
22.5°	2640.4	2625.1	2604.3	2589.1	2588.0	2574.9	2566.1	2556.3	2553.0	2546.5	2546.5
25°	2518.1	2505.0	2482.0	2468.9	2462.4	2459.1	2444.9	2431.8	2425.3	2419.8	2424.2
27.5°	2382.7	2363.0	2345.5	2329.2	2323.7	2317.2	2304.1	2298.6	2286.6	2285.5	2284.4
30°	2227.6	2208.0	2190.5	2182.8	2171.9	2166.5	2156.6	2150.1	2145.7	2145.7	2143.5
32.5°	2064.9	2047.4	2038.7	2022.3	2016.9	2009.2	2002.7	1996.1	1998.3	1996.1	1997.2
35°	1889.1	1884.7	1868.4	1858.5	1858.5	1857.4	1846.5	1842.2	1840.0	1841.1	1846.5
37.5°	1722.0	1708.9	1698.0	1691.5	1696.9	1690.4	1689.3	1689.3	1695.8	1691.5	1700.2
40°	1544.0	1543.0	1538.6	1540.8	1541.9	1534.2	1536.4	1537.5	1541.9	1550.6	1551.7
42.5°	1389.0	1387.9	1387.9	1387.9	1385.7	1381.3	1385.7	1393.4	1392.3	1398.8	1404.3
45°	1239.4	1237.2	1241.6	1238.3	1244.8	1247.0	1243.8	1245.9	1252.5	1256.9	1265.6
47.5°	1102.9	1102.9	1104.0	1106.2	1099.6	1105.1	1107.3	1111.6	1114.9	1117.1	1121.5
50°	976.2	976.2	974.0	974.0	974.0	977.3	972.9	978.4	979.5	988.2	993.7
52.5°	859.4	853.9	857.2	855.0	850.6	848.5	850.6	851.7	858.3	860.5	867.0
55°	748.0	748.0	739.3	737.1	740.4	739.3	738.2	738.2	741.4	744.7	750.2
57.5°	649.7	643.2	636.6	635.5	632.2	633.3	633.3	632.2	630.1	631.2	632.2
60°	556.9	552.5	542.7	542.7	541.6	540.5	535.1	534.0	528.5	529.6	525.2
62.5°	471.7	469.5	456.4	452.1	452.1	448.8	443.3	442.2	434.6	434.6	430.2
65°	395.3	388.7	381.1	373.5	373.5	369.1	365.8	356.0	350.5	347.2	340.7
67.5°	325.4	315.6	307.9	301.4	297.0	295.9	288.3	281.7	273.0	267.5	257.7
70°	257.7	250.1	242.4	235.9	231.5	227.1	219.5	209.7	203.1	193.3	186.7
72.5°	194.4	187.8	181.3	172.5	167.1	163.8	156.2	147.4	136.5	129.9	121.2
75°	139.8	132.1	123.4	115.7	112.5	109.2	100.5	93.9	86.3	78.6	69.9
77.5°	90.6	81.9	75.3	66.6	65.5	63.3	54.6	48.0	42.6	38.2	32.8
80°	48.0	43.7	38.2	32.8	30.6	27.3	22.9	19.7	16.4	13.1	10.9
82.5°	20.7	17.5	14.2	12.0	10.9	9.8	7.6	6.6	5.5	5.5	4.4
85°	5.5	4.4	4.4	3.3	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°	2907.9	2907.9	2907.9	2907.9	2907.9	2907.9	2907.9	2907.9	2907.9	2907.9	2907.9
2.5°	2907.9	2909.0	2910.1	2910.1	2911.2	2912.3	2912.3	2913.4	2914.5	2915.6	2915.6
5°	2902.5	2902.5	2902.5	2903.5	2903.5	2903.5	2903.5	2905.7	2905.7	2906.8	2907.9
7.5°	2891.5	2891.5	2891.5	2891.5	2890.4	2891.5	2890.4	2890.4	2892.6	2893.7	2894.8
10°	2874.1	2873.0	2873.0	2871.9	2871.9	2871.9	2873.0	2874.1	2875.2	2876.2	2879.5
12.5°	2846.8	2845.7	2845.7	2844.6	2844.6	2845.7	2846.8	2848.9	2853.3	2855.5	2859.9
15°	2803.1	2802.0	2803.1	2804.2	2806.4	2809.6	2812.9	2816.2	2822.7	2828.2	2833.7
17.5°	2739.7	2740.8	2741.9	2744.1	2747.4	2751.8	2760.5	2769.2	2776.9	2785.6	2794.3
20°	2652.4	2656.8	2657.9	2665.5	2667.7	2677.5	2687.3	2700.4	2712.4	2723.4	2735.4
22.5°	2547.6	2550.8	2555.2	2563.9	2569.4	2582.5	2594.5	2609.8	2622.9	2637.1	2654.6
25°	2428.5	2429.6	2442.7	2442.7	2455.8	2466.8	2481.0	2497.3	2517.0	2535.6	2547.6
27.5°	2293.1	2298.6	2308.4	2312.8	2322.6	2340.1	2352.1	2371.8	2391.4	2407.8	2420.9
30°	2151.2	2155.5	2171.9	2174.1	2181.8	2197.0	2213.4	2232.0	2247.3	2265.8	2277.8
32.5°	2001.6	2013.6	2023.4	2031.1	2033.2	2056.2	2064.9	2078.0	2095.5	2114.1	2126.1
35°	1856.3	1861.8	1876.0	1880.4	1886.9	1900.0	1917.5	1928.4	1937.2	1949.2	1963.4
37.5°	1702.4	1718.8	1722.0	1735.1	1737.3	1749.3	1758.1	1771.2	1782.1	1793.0	1795.2
40°	1559.3	1564.8	1576.8	1580.1	1582.3	1598.6	1609.6	1612.8	1618.3	1628.1	1641.2
42.5°	1414.1	1419.6	1432.7	1429.4	1439.2	1446.9	1452.3	1465.4	1470.9	1474.2	1474.2
45°	1271.1	1273.2	1282.0	1286.3	1291.8	1296.2	1306.0	1312.5	1314.7	1324.6	1327.8
47.5°	1134.6	1136.7	1143.3	1150.9	1148.8	1154.2	1165.1	1168.4	1169.5	1176.0	1179.3
50°	1000.2	1005.7	1014.4	1012.3	1018.8	1022.1	1031.9	1034.1	1034.1	1035.2	1036.3
52.5°	874.7	879.0	881.2	883.4	886.7	892.1	896.5	894.3	898.7	903.1	899.8
55°	750.2	753.5	758.9	761.1	761.1	762.2	760.0	769.8	765.5	764.4	765.5
57.5°	636.6	632.2	631.2	636.6	638.8	637.7	634.4	638.8	638.8	636.6	633.3
60°	526.3	523.1	522.0	523.1	518.7	515.4	517.6	515.4	509.9	507.8	508.9
62.5°	425.9	422.6	413.9	413.9	411.7	410.6	401.8	402.9	398.6	392.0	394.2
65°	333.1	324.3	319.9	318.9	311.2	304.7	302.5	294.8	288.3	287.2	288.3
67.5°	250.1	240.2	232.6	229.3	224.9	219.5	211.8	205.3	207.5	206.4	210.7
70°	173.6	167.1	159.4	154.0	156.2	149.6	145.2	145.2	146.3	147.4	149.6
72.5°	115.7	107.0	103.7	100.5	98.3	93.9	96.1	96.1	95.0	96.1	93.9
75°	65.5	61.2	57.9	56.8	54.6	54.6	54.6	54.6	53.5	52.4	52.4
77.5°	29.5	27.3	26.2	25.1	25.1	25.1	24.0	22.9	22.9	22.9	21.8
80°	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
82.5°	4.4	4.4	5.5	5.5	5.5	4.4	5.5	5.5	4.4	4.4	5.5
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: P859536

CATALOG NUMBER: LX4C70D010 EX4C709730 4LBLWW\*

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2907.9	2907.9	2907.9	2907.9	2907.9	2907.9	2907.9	2907.9
2.5°	2916.6	2917.7	2917.7	2917.7	2918.8	2918.8	2918.8	2918.8
5°	2909.0	2910.1	2910.1	2910.1	2911.2	2911.2	2911.2	2911.2
7.5°	2895.9	2897.0	2897.0	2898.1	2898.1	2899.2	2899.2	2900.3
10°	2880.6	2882.8	2883.9	2885.0	2886.1	2887.2	2887.2	2888.3
12.5°	2864.2	2866.4	2867.5	2869.7	2871.9	2873.0	2874.1	2875.2
15°	2840.2	2844.6	2846.8	2847.9	2852.2	2854.4	2855.5	2856.6
17.5°	2802.0	2810.7	2814.0	2816.2	2820.6	2824.9	2828.2	2829.3
20°	2747.4	2757.2	2761.6	2767.0	2773.6	2779.1	2781.2	2783.4
22.5°	2671.0	2681.9	2688.4	2695.0	2700.4	2705.9	2714.6	2711.4
25°	2561.8	2580.3	2588.0	2591.2	2603.3	2609.8	2614.2	2609.8
27.5°	2439.5	2450.4	2456.9	2464.6	2473.3	2479.9	2482.0	2488.6
30°	2292.0	2310.6	2309.5	2317.2	2328.1	2334.6	2336.8	2342.3
32.5°	2139.2	2147.9	2154.5	2153.4	2157.7	2169.7	2165.4	2175.2
35°	1976.5	1977.6	1988.5	1987.4	1996.1	1996.1	1996.1	2002.7
37.5°	1802.8	1815.9	1810.5	1823.6	1819.2	1822.5	1822.5	1824.7
40°	1644.5	1648.9	1648.9	1653.2	1656.5	1653.2	1655.4	1660.9
42.5°	1480.7	1485.1	1486.2	1484.0	1487.3	1497.1	1489.4	1496.0
45°	1327.8	1331.1	1335.5	1332.2	1337.7	1334.4	1337.7	1335.5
47.5°	1183.7	1182.6	1181.5	1190.2	1182.6	1183.7	1188.1	1180.4
50°	1036.3	1042.8	1038.5	1041.7	1043.9	1043.9	1040.6	1040.6
52.5°	905.2	904.1	900.9	904.1	902.0	903.1	905.2	903.1
55°	769.8	774.2	772.0	770.9	772.0	772.0	778.6	769.8
57.5°	636.6	634.4	637.7	645.4	637.7	643.2	646.4	647.5
60°	509.9	509.9	516.5	513.2	519.8	525.2	529.6	527.4
62.5°	388.7	394.2	396.4	397.5	404.0	408.4	408.4	407.3
65°	288.3	295.9	295.9	300.3	302.5	302.5	304.7	309.0
67.5°	212.9	212.9	214.0	216.2	215.1	215.1	217.3	218.4
70°	148.5	146.3	149.6	148.5	148.5	147.4	148.5	148.5
72.5°	93.9	93.9	95.0	93.9	91.7	92.8	92.8	95.0
75°	50.2	52.4	50.2	50.2	51.3	49.1	50.2	51.3
77.5°	20.7	20.7	20.7	20.7	20.7	19.7	19.7	19.7
80°	9.8	9.8	9.8	9.8	9.8	9.8	8.7	8.7
82.5°	4.4	5.5	4.4	5.5	4.4	4.4	4.4	4.4
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



Report Generated By 670246072 / DESKTOP-50001EG





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















(END OF REPORT)