

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: P859520

Luminaire Tested: **LX4C70D010 EX4C709050 4LBLWW\***

Issue Date: 2/9/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P859520  
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 EX4C709050 4LBLWW\*  
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 4LRLWW TRIM WITH \* FINISH  
Light Source: -  
Ballast/Driver: -

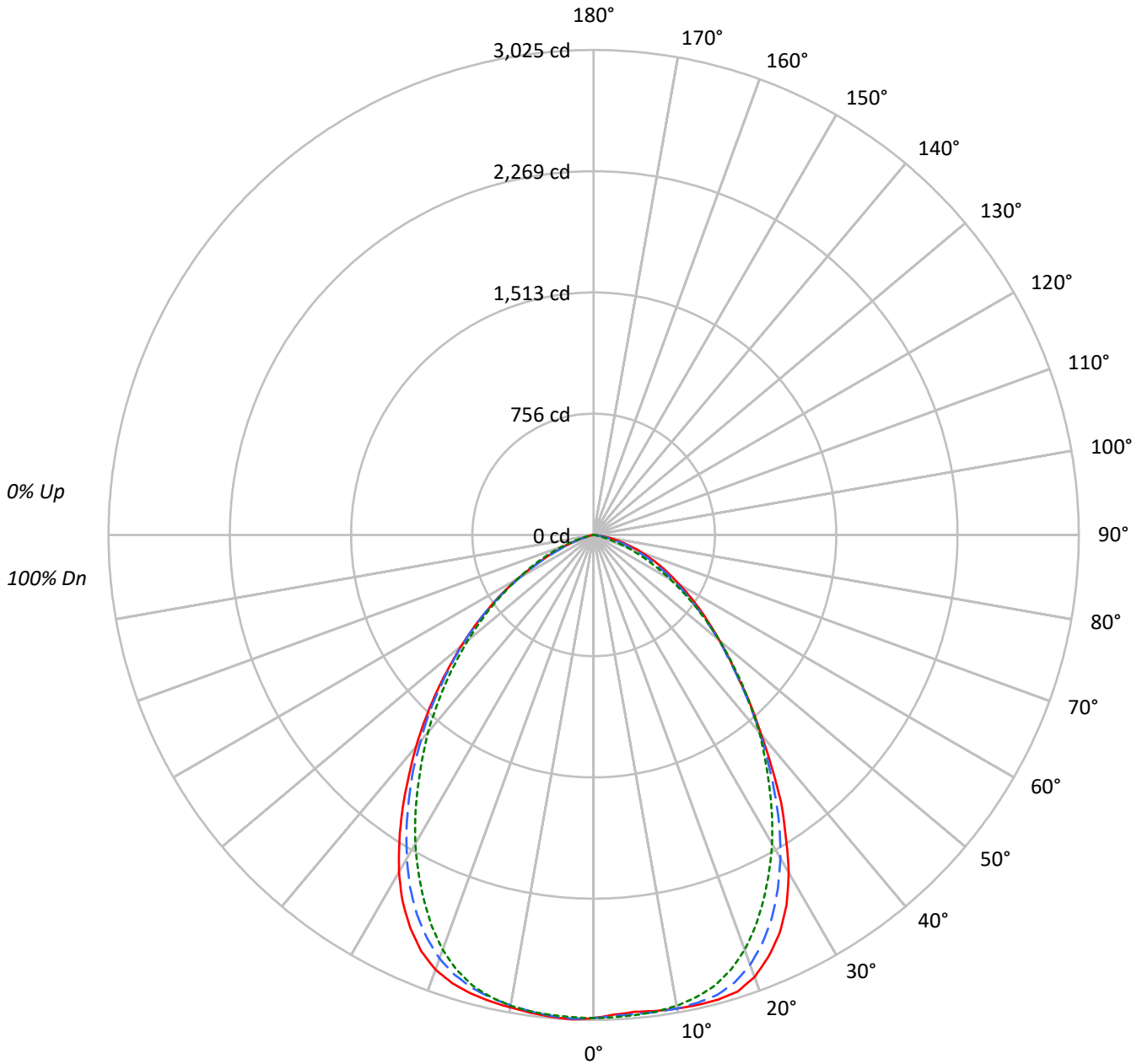
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5778.0 lumens  
Efficiency: N/A  
Efficacy: 74.1 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

TEST NUMBER: P859520

CATALOG NUMBER: LX4C70D010 EX4C709050 4LBLWW\*

### 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								
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°	370256	370256	370256
5°	368180	370696	372089
10°	374271	372013	373423
15°	381587	370357	376551
20°	383507	359987	377153
25°	371716	339955	366646
30°	345015	315466	344377
35°	305517	286170	311291
40°	260447	257737	276067
45°	223761	226315	240475
50°	195331	195751	206129
55°	172593	165311	170901
60°	151282	134869	134303
65°	133895	104622	93110
70°	114225	71948	55281
75°	92418	38686	25252
80°	63249	9622	6438
85°	19170	3242	3242



TEST NUMBER: P859520

CATALOG NUMBER: LX4C70D010 EX4C709050 4LBLWW\*

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	286.4	5.0
10°-20°	829.2	14.4
20°-30°	1198.1	20.7
30°-40°	1238.6	21.4
40°-50°	1023.4	17.7
50°-60°	706.3	12.2
60°-70°	369.8	6.4
70°-80°	116.4	2.0
80°-90°	9.9	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°	2313.7	40.0
0°-40°	3552.3	61.5
0°-60°	5282.0	91.4
0°-90°	5778.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5778.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3014	3014	3014	3014	3014	
5°	2986	3000	3006	3012	3017	286
15°	3000	2972	2912	2926	2961	846
25°	2742	2631	2508	2609	2705	1252
35°	2037	1969	1908	2008	2076	1264
45°	1288	1282	1303	1363	1384	1004
55°	806	781	772	793	798	724
65°	461	418	360	299	320	456
75°	195	153	82	56	53	209
85°	14	7	2	2	2	28
90°	0	0	0	0	0	



TEST NUMBER: P859520

CATALOG NUMBER: LX4C70D010 EX4C709050 4LBLWW\*

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3013.8	3013.8	3013.8	3013.8	3013.8	3013.8	3013.8	3013.8	3013.8	3013.8	3013.8
2.5°	2994.6	2995.7	2995.7	2998.0	2998.0	2998.0	2999.1	2999.1	3000.2	3001.3	3002.5
5°	2985.5	2985.5	2987.8	2988.9	2991.2	2992.3	2994.6	2995.7	2998.0	2999.1	3000.2
7.5°	2994.6	2994.6	2995.7	2996.8	2996.8	2998.0	2998.0	2999.1	3000.2	3001.3	3001.3
10°	3000.2	3000.2	3000.2	3000.2	3001.3	3001.3	3001.3	3000.2	3000.2	3000.2	2999.1
12.5°	3002.5	3002.5	3001.3	3000.2	3001.3	3000.2	3000.2	2996.8	2994.6	2992.3	2988.9
15°	3000.2	3000.2	2999.1	2998.0	2996.8	2994.6	2993.4	2987.8	2983.2	2976.4	2971.9
17.5°	2985.5	2983.2	2981.0	2978.7	2974.2	2970.8	2968.5	2958.3	2950.4	2939.1	2926.7
20°	2933.4	2931.2	2927.8	2922.1	2916.5	2911.9	2905.1	2890.4	2882.5	2865.5	2853.1
22.5°	2848.6	2846.3	2847.4	2837.2	2825.9	2819.1	2814.6	2802.2	2788.6	2767.1	2753.5
25°	2742.2	2735.4	2735.4	2719.5	2713.9	2709.4	2703.7	2689.0	2668.6	2649.4	2631.3
27.5°	2604.1	2595.1	2590.5	2588.3	2574.7	2564.5	2556.6	2545.3	2528.3	2511.3	2486.4
30°	2432.1	2431.0	2425.3	2415.1	2404.9	2400.4	2391.3	2372.1	2356.3	2343.8	2328.0
32.5°	2229.5	2228.4	2228.4	2228.4	2221.6	2220.5	2206.9	2196.7	2184.2	2165.0	2154.8
35°	2037.1	2036.0	2037.1	2020.1	2015.6	2012.2	2011.1	2004.3	1987.3	1978.3	1969.2
37.5°	1819.8	1823.2	1821.0	1816.4	1822.1	1811.9	1819.8	1805.1	1798.3	1796.1	1785.9
40°	1624.0	1633.1	1624.0	1625.2	1630.8	1620.6	1620.6	1618.4	1613.8	1611.6	1609.3
42.5°	1456.5	1445.2	1452.0	1446.4	1452.0	1448.6	1443.0	1446.4	1447.5	1443.0	1441.8
45°	1287.9	1290.2	1292.4	1289.0	1289.0	1285.6	1294.7	1289.0	1289.0	1290.2	1282.2
47.5°	1151.0	1147.6	1149.8	1147.6	1148.7	1146.4	1148.7	1149.8	1147.6	1147.6	1140.8
50°	1022.0	1019.7	1027.6	1020.8	1020.8	1019.7	1020.8	1018.6	1015.2	1015.2	1017.4
52.5°	909.9	905.4	904.3	909.9	902.0	902.0	903.1	900.9	896.3	894.1	888.4
55°	805.8	804.7	805.8	801.3	799.0	799.0	793.3	791.1	789.9	784.3	780.9
57.5°	708.5	705.1	706.2	705.1	700.5	699.4	694.9	694.9	690.4	685.8	680.2
60°	615.7	615.7	619.1	614.5	611.1	608.9	606.6	604.3	596.4	588.5	581.7
62.5°	533.0	534.2	533.0	529.6	527.4	525.1	522.9	516.1	509.3	504.8	496.8
65°	460.6	459.5	456.1	453.8	448.2	448.2	443.6	440.2	432.3	425.5	417.6
67.5°	385.9	383.7	383.7	383.7	376.9	375.7	373.5	366.7	359.9	350.8	344.0
70°	318.0	320.3	316.9	313.5	310.1	309.0	305.6	298.8	290.9	281.8	276.1
72.5°	253.5	255.8	252.4	251.2	244.5	242.2	241.1	235.4	226.3	220.7	211.6
75°	194.7	195.8	193.5	191.3	186.7	185.6	179.9	175.4	169.8	160.7	152.8
77.5°	140.3	138.1	138.1	133.5	129.0	129.0	127.9	121.1	113.2	106.4	99.6
80°	89.4	88.3	84.9	82.6	79.2	78.1	77.0	71.3	65.6	61.1	56.6
82.5°	45.3	44.1	43.0	41.9	39.6	37.3	38.5	34.0	31.7	27.2	23.8
85°	13.6	14.7	14.7	13.6	12.4	12.4	12.4	11.3	9.1	7.9	6.8
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: P859520

CATALOG NUMBER: LX4C70D010 EX4C709050 4LBLWW\*

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3013.8	3013.8	3013.8	3013.8	3013.8	3013.8	3013.8	3013.8	3013.8	3013.8	3013.8
2.5°	3003.6	3004.7	3005.9	3007.0	3007.0	3008.1	3009.3	3010.4	3011.5	3011.5	3012.7
5°	3001.3	3003.6	3003.6	3004.7	3004.7	3004.7	3005.9	3005.9	3005.9	3005.9	3007.0
7.5°	3002.5	3002.5	3002.5	3001.3	3001.3	3000.2	3000.2	3000.2	2998.0	2998.0	2998.0
10°	2996.8	2995.7	2994.6	2992.3	2991.2	2990.0	2987.8	2985.5	2983.2	2982.1	2979.8
12.5°	2985.5	2981.0	2976.4	2971.9	2969.7	2968.5	2964.0	2960.6	2957.2	2953.8	2951.6
15°	2962.9	2956.1	2948.2	2939.1	2936.8	2934.6	2926.7	2919.9	2915.3	2911.9	2906.3
17.5°	2917.6	2904.0	2895.0	2881.4	2875.7	2873.5	2861.0	2854.2	2846.3	2844.0	2839.5
20°	2837.2	2824.8	2807.8	2795.4	2788.6	2781.8	2771.6	2762.6	2753.5	2753.5	2747.8
22.5°	2736.5	2720.7	2699.2	2683.3	2682.2	2668.6	2659.6	2649.4	2646.0	2639.2	2639.2
25°	2609.8	2596.2	2572.4	2558.8	2552.1	2548.7	2533.9	2520.4	2513.6	2507.9	2512.4
27.5°	2469.4	2449.1	2431.0	2414.0	2408.3	2401.5	2387.9	2382.3	2369.8	2368.7	2367.6
30°	2308.7	2288.4	2270.2	2262.3	2251.0	2245.4	2235.2	2228.4	2223.8	2223.8	2221.6
32.5°	2140.1	2122.0	2112.9	2096.0	2090.3	2082.4	2075.6	2068.8	2071.1	2068.8	2069.9
35°	1957.9	1953.4	1936.4	1926.2	1926.2	1925.1	1913.8	1909.2	1907.0	1908.1	1913.8
37.5°	1784.7	1771.2	1759.8	1753.0	1758.7	1751.9	1750.8	1750.8	1757.6	1753.0	1762.1
40°	1600.3	1599.1	1594.6	1596.9	1598.0	1590.1	1592.3	1593.5	1598.0	1607.1	1608.2
42.5°	1439.6	1438.4	1438.4	1438.4	1436.2	1431.6	1436.2	1444.1	1443.0	1449.7	1455.4
45°	1284.5	1282.2	1286.8	1283.4	1290.2	1292.4	1289.0	1291.3	1298.1	1302.6	1311.7
47.5°	1143.0	1143.0	1144.2	1146.4	1139.7	1145.3	1147.6	1152.1	1155.5	1157.8	1162.3
50°	1011.8	1011.8	1009.5	1009.5	1009.5	1012.9	1008.4	1014.0	1015.2	1024.2	1029.9
52.5°	890.7	885.0	888.4	886.1	881.6	879.4	881.6	882.7	889.5	891.8	898.6
55°	775.2	775.2	766.2	763.9	767.3	766.2	765.0	765.0	768.4	771.8	777.5
57.5°	673.4	666.6	659.8	658.7	655.3	656.4	656.4	655.3	653.0	654.1	655.3
60°	577.2	572.7	562.5	562.5	561.3	560.2	554.5	553.4	547.8	548.9	544.4
62.5°	488.9	486.6	473.1	468.5	468.5	465.1	459.5	458.4	450.4	450.4	445.9
65°	409.7	402.9	395.0	387.1	387.1	382.5	379.1	368.9	363.3	359.9	353.1
67.5°	337.3	327.1	319.1	312.4	307.8	306.7	298.8	292.0	282.9	277.3	267.1
70°	267.1	259.2	251.2	244.5	239.9	235.4	227.5	217.3	210.5	200.3	193.5
72.5°	201.4	194.7	187.9	178.8	173.2	169.8	161.8	152.8	141.5	134.7	125.6
75°	144.9	136.9	127.9	120.0	116.6	113.2	104.1	97.3	89.4	81.5	72.4
77.5°	93.9	84.9	78.1	69.0	67.9	65.6	56.6	49.8	44.1	39.6	34.0
80°	49.8	45.3	39.6	34.0	31.7	28.3	23.8	20.4	17.0	13.6	11.3
82.5°	21.5	18.1	14.7	12.4	11.3	10.2	7.9	6.8	5.7	5.7	4.5
85°	5.7	4.5	4.5	3.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3
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



TEST NUMBER: P859520

CATALOG NUMBER: LX4C70D010 EX4C709050 4LBLWW\*

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3013.8	3013.8	3013.8	3013.8	3013.8	3013.8	3013.8	3013.8	3013.8	3013.8	3013.8
2.5°	3013.8	3014.9	3016.1	3016.1	3017.2	3018.3	3018.3	3019.5	3020.6	3021.7	3021.7
5°	3008.1	3008.1	3008.1	3009.3	3009.3	3009.3	3009.3	3011.5	3011.5	3012.7	3013.8
7.5°	2996.8	2996.8	2996.8	2996.8	2995.7	2996.8	2995.7	2995.7	2998.0	2999.1	3000.2
10°	2978.7	2977.6	2977.6	2976.4	2976.4	2976.4	2977.6	2978.7	2979.8	2981.0	2984.4
12.5°	2950.4	2949.3	2949.3	2948.2	2948.2	2949.3	2950.4	2952.7	2957.2	2959.5	2964.0
15°	2905.1	2904.0	2905.1	2906.3	2908.5	2911.9	2915.3	2918.7	2925.5	2931.2	2936.8
17.5°	2839.5	2840.6	2841.8	2844.0	2847.4	2852.0	2861.0	2870.1	2878.0	2887.0	2896.1
20°	2749.0	2753.5	2754.6	2762.6	2764.8	2775.0	2785.2	2798.8	2811.2	2822.5	2835.0
22.5°	2640.3	2643.7	2648.2	2657.3	2663.0	2676.5	2689.0	2704.8	2718.4	2733.1	2751.2
25°	2517.0	2518.1	2531.7	2531.7	2545.3	2556.6	2571.3	2588.3	2608.6	2627.9	2640.3
27.5°	2376.6	2382.3	2392.5	2397.0	2407.2	2425.3	2437.7	2458.1	2478.5	2495.5	2509.0
30°	2229.5	2234.0	2251.0	2253.3	2261.2	2277.0	2294.0	2313.3	2329.1	2348.3	2360.8
32.5°	2074.5	2086.9	2097.1	2105.0	2107.3	2131.0	2140.1	2153.7	2171.8	2191.0	2203.5
35°	1923.9	1929.6	1944.3	1948.8	1955.6	1969.2	1987.3	1998.6	2007.7	2020.1	2034.8
37.5°	1764.4	1781.3	1784.7	1798.3	1800.6	1813.0	1822.1	1835.7	1847.0	1858.3	1860.6
40°	1616.1	1621.8	1634.2	1637.6	1639.9	1656.9	1668.2	1671.6	1677.2	1687.4	1701.0
42.5°	1465.6	1471.2	1484.8	1481.4	1491.6	1499.5	1505.2	1518.8	1524.4	1527.8	1527.8
45°	1317.3	1319.6	1328.7	1333.2	1338.8	1343.4	1353.5	1360.3	1362.6	1372.8	1376.2
47.5°	1175.9	1178.1	1184.9	1192.8	1190.6	1196.2	1207.6	1211.0	1212.1	1218.9	1222.3
50°	1036.7	1042.3	1051.4	1049.1	1055.9	1059.3	1069.5	1071.7	1071.7	1072.9	1074.0
52.5°	906.5	911.0	913.3	915.6	919.0	924.6	929.1	926.9	931.4	935.9	932.5
55°	777.5	780.9	786.6	788.8	788.8	789.9	787.7	797.9	793.3	792.2	793.3
57.5°	659.8	655.3	654.1	659.8	662.1	660.9	657.5	662.1	662.1	659.8	656.4
60°	545.5	542.1	541.0	542.1	537.6	534.2	536.4	534.2	528.5	526.3	527.4
62.5°	441.4	438.0	428.9	428.9	426.7	425.5	416.5	417.6	413.1	406.3	408.6
65°	345.2	336.1	331.6	330.5	322.5	315.8	313.5	305.6	298.8	297.6	298.8
67.5°	259.2	249.0	241.1	237.7	233.1	227.5	219.6	212.8	215.0	213.9	218.4
70°	179.9	173.2	165.2	159.6	161.8	155.0	150.5	150.5	151.7	152.8	155.0
72.5°	120.0	110.9	107.5	104.1	101.9	97.3	99.6	99.6	98.5	99.6	97.3
75°	67.9	63.4	60.0	58.8	56.6	56.6	56.6	56.6	55.5	54.3	54.3
77.5°	30.6	28.3	27.2	26.0	26.0	26.0	24.9	23.8	23.8	23.8	22.6
80°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
82.5°	4.5	4.5	5.7	5.7	5.7	4.5	5.7	5.7	4.5	4.5	5.7
85°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
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: P859520

CATALOG NUMBER: LX4C70D010 EX4C709050 4LBLWW\*

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3013.8	3013.8	3013.8	3013.8	3013.8	3013.8	3013.8	3013.8
2.5°	3022.8	3024.0	3024.0	3024.0	3025.1	3025.1	3025.1	3025.1
5°	3014.9	3016.1	3016.1	3016.1	3017.2	3017.2	3017.2	3017.2
7.5°	3001.3	3002.5	3002.5	3003.6	3003.6	3004.7	3004.7	3005.9
10°	2985.5	2987.8	2988.9	2990.0	2991.2	2992.3	2992.3	2993.4
12.5°	2968.5	2970.8	2971.9	2974.2	2976.4	2977.6	2978.7	2979.8
15°	2943.6	2948.2	2950.4	2951.6	2956.1	2958.3	2959.5	2960.6
17.5°	2904.0	2913.1	2916.5	2918.7	2923.3	2927.8	2931.2	2932.3
20°	2847.4	2857.6	2862.1	2867.8	2874.6	2880.3	2882.5	2884.8
22.5°	2768.2	2779.5	2786.3	2793.1	2798.8	2804.4	2813.5	2810.1
25°	2655.0	2674.3	2682.2	2685.6	2698.0	2704.8	2709.4	2704.8
27.5°	2528.3	2539.6	2546.4	2554.3	2563.4	2570.2	2572.4	2579.2
30°	2375.5	2394.7	2393.6	2401.5	2412.8	2419.6	2421.9	2427.6
32.5°	2217.1	2226.1	2232.9	2231.8	2236.3	2248.7	2244.2	2254.4
35°	2048.4	2049.6	2060.9	2059.7	2068.8	2068.8	2068.8	2075.6
37.5°	1868.5	1882.1	1876.4	1890.0	1885.5	1888.9	1888.9	1891.1
40°	1704.4	1708.9	1708.9	1713.4	1716.8	1713.4	1715.7	1721.4
42.5°	1534.6	1539.2	1540.3	1538.0	1541.4	1551.6	1543.7	1550.5
45°	1376.2	1379.6	1384.1	1380.7	1386.4	1383.0	1386.4	1384.1
47.5°	1226.8	1225.7	1224.5	1233.6	1225.7	1226.8	1231.3	1223.4
50°	1074.0	1080.8	1076.3	1079.7	1081.9	1081.9	1078.5	1078.5
52.5°	938.2	937.1	933.7	937.1	934.8	935.9	938.2	935.9
55°	797.9	802.4	800.1	799.0	800.1	800.1	806.9	797.9
57.5°	659.8	657.5	660.9	668.9	660.9	666.6	670.0	671.1
60°	528.5	528.5	535.3	531.9	538.7	544.4	548.9	546.6
62.5°	402.9	408.6	410.8	411.9	418.7	423.3	423.3	422.1
65°	298.8	306.7	306.7	311.2	313.5	313.5	315.8	320.3
67.5°	220.7	220.7	221.8	224.1	223.0	223.0	225.2	226.3
70°	153.9	151.7	155.0	153.9	153.9	152.8	153.9	153.9
72.5°	97.3	97.3	98.5	97.3	95.1	96.2	96.2	98.5
75°	52.1	54.3	52.1	52.1	53.2	50.9	52.1	53.2
77.5°	21.5	21.5	21.5	21.5	21.5	20.4	20.4	20.4
80°	10.2	10.2	10.2	10.2	10.2	10.2	9.1	9.1
82.5°	4.5	5.7	4.5	5.7	4.5	4.5	4.5	4.5
85°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
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)