

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: P563953

Luminaire Tested: **LX6C45D010 EX6C459030 6LCSWH**

Issue Date: 2/15/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P563953  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P252284)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LX6C45D010 EX6C459030 6LCSWH  
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 6LCSW TRIM WITH H FINISH, DIM TO WARM  
Light Source: -  
Ballast/Driver: -

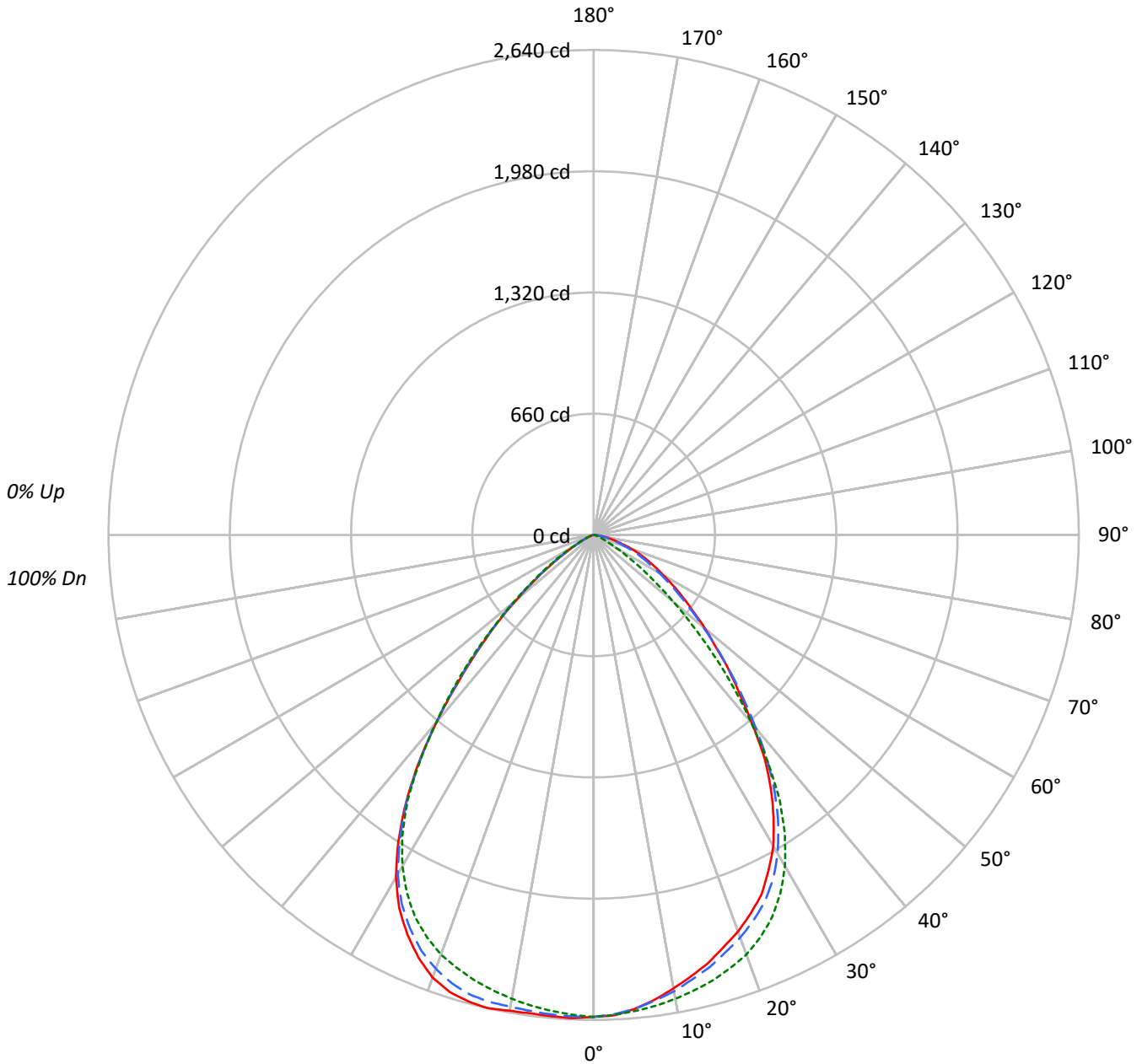
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4402.0 lumens  
Efficiency: N/A  
Efficacy: 88.7 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 49.6  
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: P563953

CATALOG NUMBER: LX6C45D010 EX6C459030 6LCSWH

### 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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80																			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72																			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64																			
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58																			
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52																			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47																			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43																			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40																			
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37																			

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

	0°	90°	180°
0°	143843	143843	143843
5°	142472	143165	144739
10°	139538	142705	146412
15°	136868	142441	149274
20°	134027	141791	149556
25°	130725	138964	145097
30°	123772	131786	136205
35°	112397	118126	119183
40°	95930	95472	95014
45°	80582	71488	69279
50°	67298	48374	45943
55°	56638	29676	26962
60°	47946	15635	13552
65°	41522	8224	6564
70°	34541	5081	3558
75°	25523	3347	2012
80°	20015	1989	1010
85°	15976	2013	0



TEST NUMBER: P563953

CATALOG NUMBER: LX6C45D010 EX6C459030 6LCSWH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	247.3	5.6
10°-20°	708.0	16.1
20°-30°	1045.5	23.8
30°-40°	1077.5	24.5
40°-50°	744.2	16.9
50°-60°	366.8	8.3
60°-70°	148.6	3.4
70°-80°	53.0	1.2
80°-90°	10.9	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°	2000.9	45.5
0°-40°	3078.4	69.9
0°-60°	4189.4	95.2
0°-90°	4402.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4402.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2624	2624	2624	2624	2624	
5°	2589	2589	2602	2621	2630	245
15°	2412	2437	2510	2592	2630	679
25°	2161	2202	2297	2364	2399	988
35°	1680	1721	1765	1775	1781	1041
45°	1039	1046	922	910	894	803
55°	593	570	310	292	282	535
65°	320	288	63	51	51	318
75°	120	101	16	10	10	135
85°	25	19	3	0	0	31
90°	0	0	0	0	0	



TEST NUMBER: P563953

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2623.9	2623.9	2623.9	2623.9	2623.9	2623.9	2623.9	2623.9	2623.9	2623.9	2623.9
2.5°	2617.5	2608.1	2614.4	2601.6	2617.5	2601.6	2604.8	2608.1	2604.8	2608.1	2611.2
5°	2589.0	2579.5	2589.0	2573.1	2589.0	2579.5	2579.5	2582.7	2582.7	2585.8	2589.0
7.5°	2551.0	2541.4	2551.0	2535.1	2554.1	2544.7	2544.7	2551.0	2547.8	2551.0	2557.3
10°	2506.7	2493.9	2503.4	2493.9	2513.0	2500.2	2506.7	2506.7	2506.7	2516.1	2522.5
12.5°	2459.1	2446.4	2459.1	2443.3	2462.2	2452.8	2455.9	2465.4	2468.5	2475.0	2478.1
15°	2411.6	2395.7	2402.0	2392.5	2411.6	2402.0	2405.2	2417.9	2417.9	2427.4	2436.9
17.5°	2351.4	2338.6	2351.4	2338.6	2354.5	2348.2	2354.5	2364.0	2364.0	2373.5	2383.0
20°	2297.4	2284.8	2294.3	2284.8	2303.8	2294.3	2297.4	2310.1	2313.2	2322.8	2332.3
22.5°	2230.9	2221.4	2227.7	2218.3	2237.2	2230.9	2234.1	2246.8	2250.0	2256.3	2272.1
25°	2161.2	2142.1	2151.7	2145.3	2164.4	2154.9	2161.2	2173.8	2180.3	2189.7	2202.4
27.5°	2059.8	2050.2	2056.6	2056.6	2072.4	2063.0	2066.1	2078.8	2088.3	2097.8	2113.6
30°	1955.3	1939.4	1945.7	1948.8	1961.6	1955.3	1961.6	1974.2	1977.4	1990.1	2002.7
32.5°	1822.2	1815.7	1828.5	1822.2	1828.5	1828.5	1831.6	1841.1	1847.4	1853.9	1869.7
35°	1679.5	1666.9	1679.5	1673.2	1689.1	1679.5	1689.1	1698.6	1698.6	1711.2	1720.8
37.5°	1524.2	1508.4	1514.7	1514.7	1521.0	1517.9	1517.9	1533.8	1536.9	1546.4	1555.9
40°	1340.5	1334.1	1346.8	1343.6	1346.8	1346.8	1349.9	1359.4	1365.8	1369.0	1372.2
42.5°	1175.7	1178.8	1182.0	1182.0	1182.0	1182.0	1182.0	1194.6	1191.5	1201.1	1204.2
45°	1039.4	1026.7	1033.0	1029.9	1039.4	1029.9	1039.4	1048.9	1042.6	1052.1	1045.7
47.5°	899.9	899.9	899.9	896.8	903.2	899.9	906.3	909.5	909.5	909.5	906.3
50°	789.1	779.6	782.7	782.7	785.9	782.7	789.1	792.2	792.2	785.9	773.3
52.5°	681.3	678.2	678.2	684.5	684.5	681.3	681.3	681.3	681.3	671.9	665.4
55°	592.6	586.3	589.4	589.4	589.4	589.4	592.6	589.4	589.4	579.9	570.4
57.5°	513.4	507.1	507.1	507.1	510.1	507.1	507.1	507.1	503.8	494.3	481.7
60°	437.3	434.1	437.3	437.3	440.4	437.3	437.3	437.3	431.0	421.5	408.7
62.5°	373.9	373.9	373.9	377.0	377.0	373.9	373.9	370.7	367.6	354.9	342.2
65°	320.1	316.9	320.1	320.1	323.2	323.2	320.1	316.9	313.8	301.0	288.4
67.5°	266.2	263.0	266.2	266.2	269.3	266.2	266.2	266.2	256.7	250.4	237.6
70°	215.5	212.4	212.4	212.4	215.5	209.1	212.4	212.4	206.0	196.5	183.8
72.5°	164.8	164.8	164.8	164.8	164.8	164.8	161.6	161.6	155.3	145.7	139.4
75°	120.5	120.5	123.6	123.6	120.5	120.5	120.5	117.3	114.0	107.7	101.4
77.5°	88.8	88.8	88.8	88.8	85.6	85.6	85.6	82.3	79.2	76.0	69.7
80°	63.4	63.4	63.4	60.2	63.4	60.2	60.2	60.2	53.9	50.6	47.5
82.5°	44.3	41.2	41.2	41.2	41.2	41.2	41.2	38.0	38.0	34.9	31.7
85°	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	22.2	19.1	19.1
87.5°	12.6	15.8	15.8	15.8	15.8	15.8	15.8	12.6	12.6	12.6	9.5
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: P563953

CATALOG NUMBER: LX6C45D010 EX6C459030 6LCSWH

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2623.9	2623.9	2623.9	2623.9	2623.9	2623.9	2623.9	2623.9	2623.9	2623.9	2623.9
2.5°	2611.2	2611.2	2617.5	2608.1	2623.9	2614.4	2611.2	2627.0	2617.5	2614.4	2620.7
5°	2589.0	2592.2	2595.3	2589.0	2604.8	2595.3	2595.3	2611.2	2604.8	2601.6	2611.2
7.5°	2560.5	2563.6	2569.9	2566.8	2579.5	2573.1	2576.4	2592.2	2585.8	2585.8	2595.3
10°	2525.6	2531.9	2538.3	2538.3	2554.1	2547.8	2547.8	2566.8	2560.5	2563.6	2576.4
12.5°	2484.4	2493.9	2503.4	2506.7	2522.5	2513.0	2516.1	2538.3	2535.1	2538.3	2551.0
15°	2440.0	2452.8	2462.2	2462.2	2481.3	2471.7	2481.3	2503.4	2497.1	2509.8	2525.6
17.5°	2389.4	2402.0	2414.7	2417.9	2436.9	2430.5	2443.3	2465.4	2465.4	2471.7	2490.8
20°	2341.8	2357.7	2364.0	2373.5	2392.5	2389.4	2395.7	2421.1	2421.1	2430.5	2449.6
22.5°	2278.4	2294.3	2306.9	2316.5	2332.3	2332.3	2341.8	2364.0	2364.0	2370.3	2389.4
25°	2208.7	2227.7	2237.2	2246.8	2262.6	2259.4	2268.9	2288.0	2291.1	2297.4	2316.5
27.5°	2120.0	2135.8	2148.6	2154.9	2177.0	2164.4	2173.8	2196.1	2192.9	2199.2	2215.1
30°	2009.1	2025.0	2037.6	2037.6	2056.6	2056.6	2066.1	2075.6	2075.6	2081.9	2094.7
32.5°	1879.1	1898.2	1898.2	1907.7	1920.4	1907.7	1920.4	1933.0	1926.7	1936.2	1945.7
35°	1730.2	1739.7	1742.9	1742.9	1752.5	1749.2	1746.0	1755.6	1749.2	1765.1	1774.6
37.5°	1549.6	1562.3	1555.9	1562.3	1559.0	1549.6	1549.6	1565.5	1552.7	1555.9	1565.5
40°	1375.3	1375.3	1372.2	1356.3	1359.4	1349.9	1346.8	1349.9	1337.3	1334.1	1346.8
42.5°	1194.6	1191.5	1182.0	1159.8	1162.9	1147.1	1134.5	1134.5	1128.1	1124.9	1128.1
45°	1033.0	1023.5	1007.7	982.4	976.0	963.3	938.0	931.6	922.1	922.1	925.3
47.5°	884.1	871.5	846.1	817.6	801.7	785.9	760.5	751.0	735.1	728.8	735.1
50°	760.5	738.4	706.7	665.4	649.6	630.6	605.2	589.4	573.5	567.2	564.0
52.5°	646.5	614.8	583.1	532.4	519.7	500.7	465.8	450.0	434.1	421.5	421.5
55°	548.2	519.7	475.4	427.8	408.7	389.8	354.9	332.7	316.9	310.5	304.2
57.5°	459.5	427.8	386.6	335.9	316.9	297.9	263.0	240.8	225.0	215.5	209.1
60°	386.6	351.8	310.5	266.2	244.1	225.0	190.2	167.9	152.1	142.6	136.2
62.5°	316.9	288.4	247.1	206.0	187.0	167.9	139.4	117.3	101.4	95.1	85.6
65°	266.2	237.6	199.6	164.8	149.0	129.9	104.6	85.6	72.9	63.4	57.1
67.5°	215.5	193.3	161.6	129.9	114.0	101.4	79.2	63.4	50.6	44.3	41.2
70°	171.1	149.0	123.6	98.2	88.8	76.0	60.2	44.3	38.0	31.7	28.5
72.5°	126.8	110.9	91.9	72.9	63.4	57.1	41.2	34.9	25.4	22.2	19.1
75°	91.9	79.2	66.5	50.6	44.3	41.2	31.7	22.2	19.1	15.8	12.6
77.5°	63.4	57.1	44.3	34.9	31.7	28.5	22.2	15.8	12.6	9.5	9.5
80°	41.2	34.9	28.5	22.2	22.2	19.1	12.6	9.5	9.5	6.3	6.3
82.5°	25.4	22.2	19.1	15.8	12.6	12.6	9.5	6.3	6.3	3.2	3.2
85°	15.8	12.6	9.5	9.5	6.3	6.3	6.3	3.2	3.2	3.2	3.2
87.5°	6.3	6.3	6.3	3.2	3.2	3.2	3.2	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: P563953

CATALOG NUMBER: LX6C45D010 EX6C459030 6LCSWH

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2623.9	2623.9	2623.9	2623.9	2623.9	2623.9	2623.9	2623.9	2623.9	2623.9	2623.9
2.5°	2620.7	2620.7	2627.0	2617.5	2623.9	2623.9	2630.2	2617.5	2623.9	2627.0	2633.3
5°	2608.1	2611.2	2617.5	2614.4	2617.5	2617.5	2623.9	2608.1	2620.7	2620.7	2630.2
7.5°	2595.3	2595.3	2601.6	2598.5	2604.8	2608.1	2614.4	2601.6	2614.4	2614.4	2623.9
10°	2579.5	2579.5	2589.0	2585.8	2595.3	2598.5	2608.1	2595.3	2608.1	2611.2	2620.7
12.5°	2557.3	2560.5	2569.9	2569.9	2579.5	2585.8	2595.3	2589.0	2604.8	2608.1	2620.7
15°	2531.9	2538.3	2551.0	2547.8	2557.3	2566.8	2579.5	2569.9	2592.2	2598.5	2611.2
17.5°	2500.2	2506.7	2516.1	2516.1	2525.6	2531.9	2547.8	2541.4	2560.5	2563.6	2579.5
20°	2452.8	2462.2	2475.0	2471.7	2481.3	2487.6	2500.2	2493.9	2513.0	2519.3	2535.1
22.5°	2395.7	2402.0	2411.6	2411.6	2421.1	2427.4	2440.0	2430.5	2449.6	2452.8	2465.4
25°	2319.7	2326.0	2332.3	2335.5	2344.9	2348.2	2354.5	2348.2	2364.0	2367.2	2383.0
27.5°	2221.4	2224.6	2234.1	2234.1	2240.4	2243.5	2253.1	2240.4	2262.6	2262.6	2272.1
30°	2104.1	2101.0	2113.6	2107.3	2113.6	2113.6	2123.2	2116.9	2132.7	2126.4	2135.8
32.5°	1948.8	1955.3	1955.3	1948.8	1961.6	1958.4	1958.4	1952.1	1961.6	1964.7	1971.0
35°	1768.3	1777.7	1777.7	1780.9	1784.1	1774.6	1777.7	1758.8	1774.6	1777.7	1780.9
37.5°	1571.8	1562.3	1568.6	1559.0	1574.9	1555.9	1555.9	1543.3	1555.9	1555.9	1559.0
40°	1346.8	1343.6	1349.9	1343.6	1340.5	1337.3	1331.0	1321.4	1334.1	1327.7	1337.3
42.5°	1134.5	1131.2	1131.2	1124.9	1121.8	1121.8	1115.5	1109.1	1106.0	1106.0	1121.8
45°	915.8	922.1	915.8	912.7	919.0	912.7	915.8	903.2	909.5	903.2	909.5
47.5°	732.0	735.1	728.8	722.5	732.0	722.5	722.5	713.0	725.7	725.7	719.3
50°	567.2	564.0	557.7	564.0	560.9	560.9	560.9	551.4	557.7	548.2	554.6
52.5°	418.3	415.2	415.2	412.0	415.2	412.0	412.0	408.7	408.7	405.6	408.7
55°	304.2	301.0	294.7	294.7	294.7	297.9	294.7	291.6	291.6	288.4	291.6
57.5°	206.0	199.6	199.6	199.6	199.6	196.5	196.5	193.3	196.5	193.3	196.5
60°	133.1	133.1	126.8	126.8	126.8	126.8	126.8	123.6	126.8	126.8	126.8
62.5°	82.3	82.3	79.2	76.0	79.2	76.0	76.0	76.0	79.2	76.0	79.2
65°	53.9	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6
67.5°	38.0	34.9	34.9	34.9	34.9	34.9	34.9	31.7	34.9	34.9	34.9
70°	25.4	25.4	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2
72.5°	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8
75°	12.6	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
77.5°	9.5	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
80°	6.3	6.3	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
82.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
85°	3.2	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	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
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: P563953

CATALOG NUMBER: LX6C45D010 EX6C459030 6LCSWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2623.9	2623.9	2623.9	2623.9	2623.9	2623.9	2623.9	2623.9
2.5°	2623.9	2627.0	2620.7	2623.9	2617.5	2623.9	2627.0	2633.3
5°	2617.5	2620.7	2614.4	2620.7	2614.4	2620.7	2623.9	2630.2
7.5°	2611.2	2617.5	2611.2	2617.5	2611.2	2617.5	2620.7	2627.0
10°	2611.2	2620.7	2614.4	2623.9	2614.4	2620.7	2627.0	2630.2
12.5°	2611.2	2620.7	2617.5	2623.9	2620.7	2627.0	2633.3	2639.6
15°	2604.8	2614.4	2608.1	2617.5	2614.4	2617.5	2630.2	2630.2
17.5°	2569.9	2579.5	2579.5	2585.8	2585.8	2595.3	2601.6	2608.1
20°	2525.6	2535.1	2531.9	2541.4	2541.4	2551.0	2557.3	2563.6
22.5°	2459.1	2471.7	2468.5	2478.1	2475.0	2481.3	2493.9	2490.8
25°	2373.5	2389.4	2386.2	2392.5	2389.4	2389.4	2395.7	2398.8
27.5°	2268.9	2278.4	2275.2	2281.7	2275.2	2281.7	2288.0	2291.1
30°	2132.7	2139.0	2135.8	2139.0	2135.8	2142.1	2145.3	2151.7
32.5°	1967.9	1977.4	1967.9	1974.2	1971.0	1971.0	1983.8	1977.4
35°	1771.4	1774.6	1777.7	1777.7	1771.4	1774.6	1780.9	1780.9
37.5°	1552.7	1568.6	1549.6	1559.0	1555.9	1555.9	1555.9	1565.5
40°	1324.6	1327.7	1321.4	1321.4	1321.4	1318.2	1331.0	1327.7
42.5°	1109.1	1112.3	1109.1	1099.7	1102.8	1102.8	1112.3	1099.7
45°	899.9	906.3	903.2	903.2	896.8	896.8	899.9	893.6
47.5°	713.0	719.3	709.9	713.0	706.7	713.0	709.9	716.2
50°	541.8	548.2	545.1	548.2	548.2	541.8	551.4	538.7
52.5°	405.6	408.7	405.6	402.4	399.3	399.3	405.6	402.4
55°	288.4	285.2	285.2	285.2	288.4	288.4	285.2	282.1
57.5°	193.3	193.3	190.2	190.2	193.3	187.0	190.2	187.0
60°	123.6	123.6	123.6	123.6	120.5	123.6	123.6	123.6
62.5°	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
65°	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6
67.5°	31.7	34.9	34.9	34.9	31.7	31.7	31.7	31.7
70°	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2
72.5°	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8
75°	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
77.5°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
80°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
82.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.2	3.2	3.2	3.2	3.2	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)