

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: P684323

Luminaire Tested: **LX6C45D010 EX6C459727 6LCSWH**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P684323
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 EX6C459727 6LCSWH
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 97CRI LEDS
AND 6LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

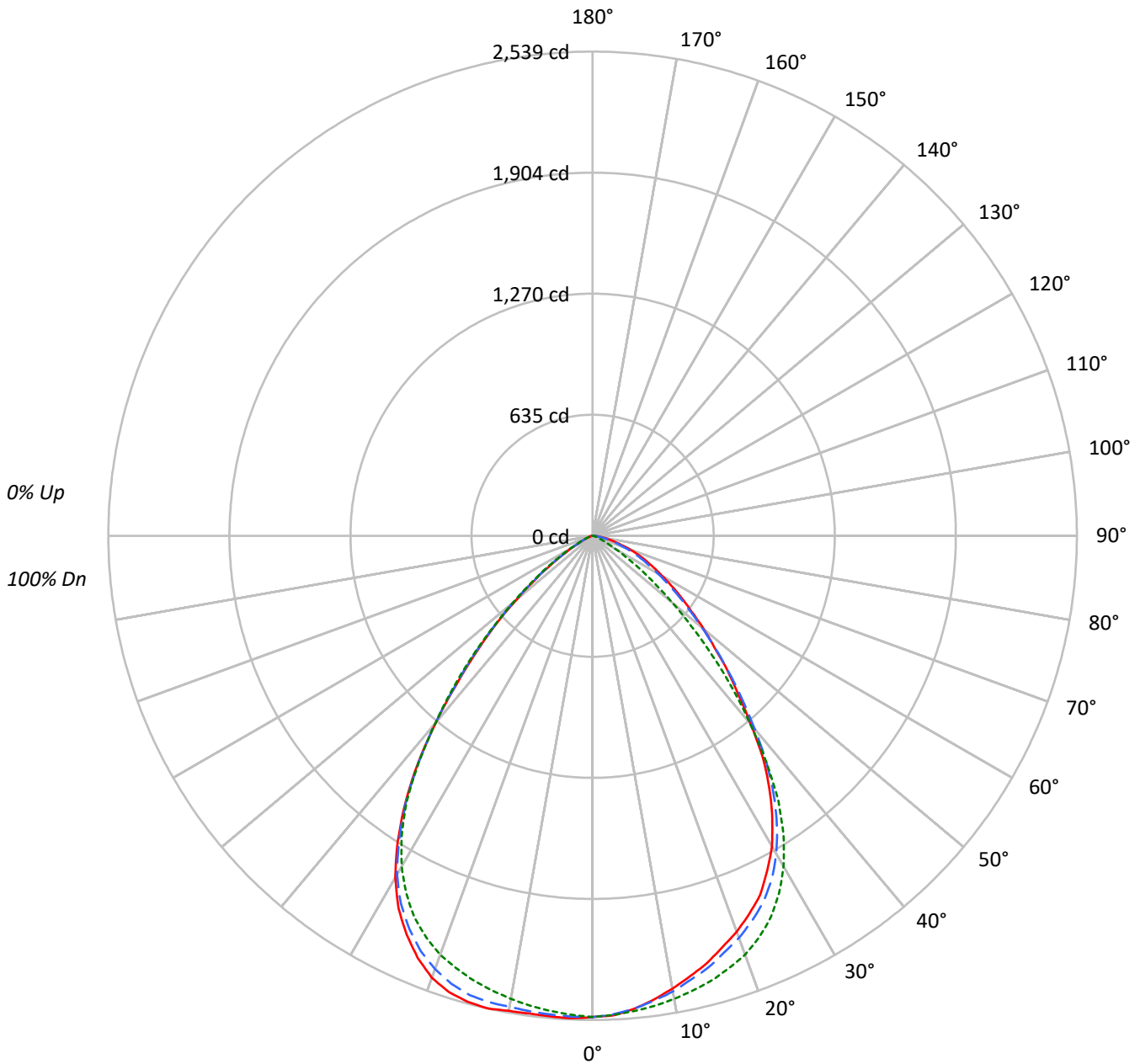
Lumens per Lamp: N/A
Luminaire Lumens: 4234.0 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
Input Voltage (V):
Input Current (A_{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	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°	138355	138355	138355
5°	137035	137701	139214
10°	134210	137261	140823
15°	131641	137004	143576
20°	128910	136378	143851
25°	125735	133659	139562
30°	119044	126760	131001
35°	108108	113615	114639
40°	92266	91822	91393
45°	77504	68759	66635
50°	64731	46532	44195
55°	54478	28549	25930
60°	46115	15043	13036
65°	39939	7913	6317
70°	33211	4889	3414
75°	24549	3219	1949
80°	19258	1926	979
85°	15347	1950	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.8	5.6
10°-20°	681.0	16.1
20°-30°	1005.6	23.8
30°-40°	1036.4	24.5
40°-50°	715.8	16.9
50°-60°	352.8	8.3
60°-70°	143.0	3.4
70°-80°	51.0	1.2
80°-90°	10.5	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°	1924.5	45.5
0°-40°	2960.9	69.9
0°-60°	4029.5	95.2
0°-90°	4234.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4234.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2524	2524	2524	2524	2524	
5°	2490	2490	2502	2521	2530	235
15°	2320	2344	2414	2493	2530	653
25°	2079	2118	2210	2274	2307	950
35°	1615	1655	1698	1707	1713	1001
45°	1000	1006	887	875	860	773
55°	570	549	299	280	271	515
65°	308	277	61	49	49	306
75°	116	98	15	9	9	130
85°	24	18	3	0	0	30
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°	2523.8	2523.8	2523.8	2523.8	2523.8	2523.8	2523.8	2523.8	2523.8	2523.8	2523.8
2.5°	2517.6	2508.5	2514.6	2502.3	2517.6	2502.3	2505.4	2508.5	2505.4	2508.5	2511.5
5°	2490.2	2481.0	2490.2	2474.9	2490.2	2481.0	2481.0	2484.1	2484.1	2487.1	2490.2
7.5°	2453.6	2444.5	2453.6	2438.4	2456.6	2447.5	2447.5	2453.6	2450.5	2453.6	2459.7
10°	2411.0	2398.7	2407.9	2398.7	2417.1	2404.8	2411.0	2411.0	2411.0	2420.0	2426.2
12.5°	2365.3	2353.0	2365.3	2350.0	2368.2	2359.2	2362.2	2371.3	2374.3	2380.5	2383.5
15°	2319.5	2304.3	2310.4	2301.2	2319.5	2310.4	2313.4	2325.6	2325.6	2334.8	2343.9
17.5°	2261.6	2249.4	2261.6	2249.4	2264.6	2258.5	2264.6	2273.8	2273.8	2283.0	2292.0
20°	2209.7	2197.6	2206.7	2197.6	2215.9	2206.7	2209.7	2222.0	2225.0	2234.1	2243.3
22.5°	2145.8	2136.6	2142.7	2133.6	2151.8	2145.8	2148.9	2161.0	2164.1	2170.2	2185.4
25°	2078.7	2060.4	2069.5	2063.5	2081.8	2072.6	2078.7	2090.9	2097.0	2106.1	2118.4
27.5°	1981.2	1972.0	1978.1	1978.1	1993.3	1984.3	1987.2	1999.5	2008.6	2017.7	2033.0
30°	1880.6	1865.4	1871.5	1874.5	1886.7	1880.6	1886.7	1898.9	1902.0	1914.1	1926.3
32.5°	1752.6	1746.4	1758.7	1752.6	1758.7	1758.7	1761.7	1770.8	1776.9	1783.1	1798.4
35°	1615.4	1603.3	1615.4	1609.3	1624.6	1615.4	1624.6	1633.8	1633.8	1645.9	1655.1
37.5°	1466.1	1450.8	1456.9	1456.9	1463.0	1460.0	1460.0	1475.2	1478.2	1487.4	1496.6
40°	1289.3	1283.1	1295.4	1292.3	1295.4	1295.4	1298.4	1307.6	1313.6	1316.7	1319.8
42.5°	1130.8	1133.8	1136.9	1136.9	1136.9	1136.9	1136.9	1149.0	1146.1	1155.2	1158.2
45°	999.7	987.5	993.6	990.6	999.7	990.6	999.7	1008.9	1002.8	1012.0	1005.8
47.5°	865.6	865.6	865.6	862.6	868.7	865.6	871.7	874.8	874.8	874.8	871.7
50°	759.0	749.8	752.8	752.8	755.9	752.8	759.0	762.0	762.0	755.9	743.8
52.5°	655.3	652.3	652.3	658.4	658.4	655.3	655.3	655.3	655.3	646.2	640.0
55°	570.0	563.9	566.9	566.9	566.9	566.9	570.0	566.9	566.9	557.7	548.7
57.5°	493.8	487.7	487.7	487.7	490.7	487.7	487.7	487.7	484.6	475.4	463.3
60°	420.6	417.6	420.6	420.6	423.6	420.6	420.6	420.6	414.6	405.4	393.1
62.5°	359.7	359.7	359.7	362.7	362.7	359.7	359.7	356.6	353.6	341.3	329.2
65°	307.9	304.8	307.9	307.9	310.8	310.8	307.9	304.8	301.8	289.5	277.4
67.5°	256.1	253.0	256.1	256.1	259.0	256.1	256.1	256.1	246.9	240.8	228.5
70°	207.2	204.2	204.2	204.2	207.2	201.2	204.2	204.2	198.2	189.0	176.7
72.5°	158.5	158.5	158.5	158.5	158.5	158.5	155.4	155.4	149.3	140.2	134.1
75°	115.9	115.9	118.9	118.9	115.9	115.9	115.9	112.8	109.7	103.6	97.5
77.5°	85.4	85.4	85.4	85.4	82.3	82.3	82.3	79.2	76.2	73.1	67.1
80°	61.0	61.0	61.0	57.9	61.0	57.9	57.9	57.9	51.8	48.7	45.7
82.5°	42.6	39.7	39.7	39.7	39.7	39.7	39.7	36.6	36.6	33.6	30.5
85°	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	21.3	18.3	18.3
87.5°	12.1	15.2	15.2	15.2	15.2	15.2	15.2	12.1	12.1	12.1	9.2
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°	2523.8	2523.8	2523.8	2523.8	2523.8	2523.8	2523.8	2523.8	2523.8	2523.8	2523.8
2.5°	2511.5	2511.5	2517.6	2508.5	2523.8	2514.6	2511.5	2526.8	2517.6	2514.6	2520.7
5°	2490.2	2493.3	2496.3	2490.2	2505.4	2496.3	2496.3	2511.5	2505.4	2502.3	2511.5
7.5°	2462.8	2465.8	2471.8	2468.9	2481.0	2474.9	2478.0	2493.3	2487.1	2487.1	2496.3
10°	2429.2	2435.3	2441.5	2441.5	2456.6	2450.5	2450.5	2468.9	2462.8	2465.8	2478.0
12.5°	2389.6	2398.7	2407.9	2411.0	2426.2	2417.1	2420.0	2441.5	2438.4	2441.5	2453.6
15°	2346.9	2359.2	2368.2	2368.2	2386.6	2377.4	2386.6	2407.9	2401.8	2414.0	2429.2
17.5°	2298.2	2310.4	2322.5	2325.6	2343.9	2337.7	2350.0	2371.3	2371.3	2377.4	2395.7
20°	2252.5	2267.7	2273.8	2283.0	2301.2	2298.2	2304.3	2328.7	2328.7	2337.7	2356.1
22.5°	2191.5	2206.7	2218.9	2228.1	2243.3	2243.3	2252.5	2273.8	2273.8	2279.9	2298.2
25°	2124.4	2142.7	2151.8	2161.0	2176.2	2173.2	2182.3	2200.7	2203.6	2209.7	2228.1
27.5°	2039.1	2054.3	2066.6	2072.6	2094.0	2081.8	2090.9	2112.3	2109.2	2115.3	2130.5
30°	1932.5	1947.7	1959.9	1959.9	1978.1	1978.1	1987.2	1996.4	1996.4	2002.5	2014.8
32.5°	1807.4	1825.7	1825.7	1834.9	1847.1	1834.9	1847.1	1859.2	1853.1	1862.3	1871.5
35°	1664.1	1673.3	1676.4	1676.4	1685.6	1682.5	1679.4	1688.6	1682.5	1697.7	1706.9
37.5°	1490.5	1502.6	1496.6	1502.6	1499.5	1490.5	1490.5	1505.7	1493.5	1496.6	1505.7
40°	1322.8	1322.8	1319.8	1304.6	1307.6	1298.4	1295.4	1298.4	1286.2	1283.1	1295.4
42.5°	1149.0	1146.1	1136.9	1115.6	1118.6	1103.3	1091.2	1091.2	1085.1	1082.0	1085.1
45°	993.6	984.5	969.2	944.9	938.7	926.6	902.2	896.1	886.9	886.9	890.0
47.5°	850.3	838.2	813.8	786.4	771.1	755.9	731.5	722.3	707.1	701.0	707.1
50°	731.5	710.2	679.7	640.0	624.8	606.6	582.1	566.9	551.7	545.6	542.5
52.5°	621.8	591.3	560.8	512.1	499.8	481.6	448.0	432.8	417.6	405.4	405.4
55°	527.2	499.8	457.2	411.5	393.1	374.9	341.3	320.0	304.8	298.7	292.6
57.5°	442.0	411.5	371.8	323.1	304.8	286.5	253.0	231.6	216.4	207.2	201.2
60°	371.8	338.4	298.7	256.1	234.7	216.4	182.9	161.5	146.3	137.2	131.0
62.5°	304.8	277.4	237.7	198.2	179.8	161.5	134.1	112.8	97.5	91.5	82.3
65°	256.1	228.5	192.0	158.5	143.3	124.9	100.6	82.3	70.1	61.0	54.9
67.5°	207.2	185.9	155.4	124.9	109.7	97.5	76.2	61.0	48.7	42.6	39.7
70°	164.6	143.3	118.9	94.4	85.4	73.1	57.9	42.6	36.6	30.5	27.4
72.5°	122.0	106.7	88.4	70.1	61.0	54.9	39.7	33.6	24.4	21.3	18.3
75°	88.4	76.2	64.0	48.7	42.6	39.7	30.5	21.3	18.3	15.2	12.1
77.5°	61.0	54.9	42.6	33.6	30.5	27.4	21.3	15.2	12.1	9.2	9.2
80°	39.7	33.6	27.4	21.3	21.3	18.3	12.1	9.2	9.2	6.1	6.1
82.5°	24.4	21.3	18.3	15.2	12.1	12.1	9.2	6.1	6.1	3.1	3.1
85°	15.2	12.1	9.2	9.2	6.1	6.1	6.1	3.1	3.1	3.1	3.1
87.5°	6.1	6.1	6.1	3.1	3.1	3.1	3.1	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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2523.8	2523.8	2523.8	2523.8	2523.8	2523.8	2523.8	2523.8	2523.8	2523.8	2523.8
2.5°	2520.7	2520.7	2526.8	2517.6	2523.8	2523.8	2529.8	2517.6	2523.8	2526.8	2532.8
5°	2508.5	2511.5	2517.6	2514.6	2517.6	2517.6	2523.8	2508.5	2520.7	2520.7	2529.8
7.5°	2496.3	2496.3	2502.3	2499.4	2505.4	2508.5	2514.6	2502.3	2514.6	2514.6	2523.8
10°	2481.0	2481.0	2490.2	2487.1	2496.3	2499.4	2508.5	2496.3	2508.5	2511.5	2520.7
12.5°	2459.7	2462.8	2471.8	2471.8	2481.0	2487.1	2496.3	2490.2	2505.4	2508.5	2520.7
15°	2435.3	2441.5	2453.6	2450.5	2459.7	2468.9	2481.0	2471.8	2493.3	2499.4	2511.5
17.5°	2404.8	2411.0	2420.0	2420.0	2429.2	2435.3	2450.5	2444.5	2462.8	2465.8	2481.0
20°	2359.2	2368.2	2380.5	2377.4	2386.6	2392.6	2404.8	2398.7	2417.1	2423.1	2438.4
22.5°	2304.3	2310.4	2319.5	2319.5	2328.7	2334.8	2346.9	2337.7	2356.1	2359.2	2371.3
25°	2231.2	2237.2	2243.3	2246.4	2255.5	2258.5	2264.6	2258.5	2273.8	2276.9	2292.0
27.5°	2136.6	2139.7	2148.9	2148.9	2154.9	2157.9	2167.1	2154.9	2176.2	2176.2	2185.4
30°	2023.8	2020.8	2033.0	2026.9	2033.0	2033.0	2042.1	2036.1	2051.3	2045.2	2054.3
32.5°	1874.5	1880.6	1880.6	1874.5	1886.7	1883.6	1883.6	1877.6	1886.7	1889.7	1895.8
35°	1700.8	1709.9	1709.9	1713.0	1716.1	1706.9	1709.9	1691.6	1706.9	1709.9	1713.0
37.5°	1511.8	1502.6	1508.7	1499.5	1514.8	1496.6	1496.6	1484.4	1496.6	1496.6	1499.5
40°	1295.4	1292.3	1298.4	1292.3	1289.3	1286.2	1280.2	1271.0	1283.1	1277.1	1286.2
42.5°	1091.2	1088.1	1088.1	1082.0	1079.0	1079.0	1072.9	1066.7	1063.8	1063.8	1079.0
45°	880.8	886.9	880.8	877.9	883.9	877.9	880.8	868.7	874.8	868.7	874.8
47.5°	704.1	707.1	701.0	694.9	704.1	694.9	694.9	685.8	698.0	698.0	691.8
50°	545.6	542.5	536.4	542.5	539.5	539.5	539.5	530.3	536.4	527.2	533.4
52.5°	402.3	399.3	399.3	396.2	399.3	396.2	396.2	393.1	393.1	390.2	393.1
55°	292.6	289.5	283.4	283.4	283.4	286.5	283.4	280.5	280.5	277.4	280.5
57.5°	198.2	192.0	192.0	192.0	192.0	189.0	189.0	185.9	189.0	185.9	189.0
60°	128.0	128.0	122.0	122.0	122.0	122.0	122.0	118.9	122.0	122.0	122.0
62.5°	79.2	79.2	76.2	73.1	76.2	73.1	73.1	73.1	76.2	73.1	76.2
65°	51.8	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
67.5°	36.6	33.6	33.6	33.6	33.6	33.6	33.6	30.5	33.6	33.6	33.6
70°	24.4	24.4	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3
72.5°	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2
75°	12.1	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
77.5°	9.2	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
80°	6.1	6.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
82.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
85°	3.1	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	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
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: P684323

CATALOG NUMBER: LX6C45D010 EX6C459727 6LCSWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2523.8	2523.8	2523.8	2523.8	2523.8	2523.8	2523.8	2523.8
2.5°	2523.8	2526.8	2520.7	2523.8	2517.6	2523.8	2526.8	2532.8
5°	2517.6	2520.7	2514.6	2520.7	2514.6	2520.7	2523.8	2529.8
7.5°	2511.5	2517.6	2511.5	2517.6	2511.5	2517.6	2520.7	2526.8
10°	2511.5	2520.7	2514.6	2523.8	2514.6	2520.7	2526.8	2529.8
12.5°	2511.5	2520.7	2517.6	2523.8	2520.7	2526.8	2532.8	2538.9
15°	2505.4	2514.6	2508.5	2517.6	2514.6	2517.6	2529.8	2529.8
17.5°	2471.8	2481.0	2481.0	2487.1	2487.1	2496.3	2502.3	2508.5
20°	2429.2	2438.4	2435.3	2444.5	2444.5	2453.6	2459.7	2465.8
22.5°	2365.3	2377.4	2374.3	2383.5	2380.5	2386.6	2398.7	2395.7
25°	2283.0	2298.2	2295.1	2301.2	2298.2	2298.2	2304.3	2307.3
27.5°	2182.3	2191.5	2188.4	2194.6	2188.4	2194.6	2200.7	2203.6
30°	2051.3	2057.4	2054.3	2057.4	2054.3	2060.4	2063.5	2069.5
32.5°	1892.8	1902.0	1892.8	1898.9	1895.8	1895.8	1908.0	1902.0
35°	1703.8	1706.9	1709.9	1709.9	1703.8	1706.9	1713.0	1713.0
37.5°	1493.5	1508.7	1490.5	1499.5	1496.6	1496.6	1496.6	1505.7
40°	1274.1	1277.1	1271.0	1271.0	1271.0	1267.9	1280.2	1277.1
42.5°	1066.7	1069.8	1066.7	1057.7	1060.7	1060.7	1069.8	1057.7
45°	865.6	871.7	868.7	868.7	862.6	862.6	865.6	859.5
47.5°	685.8	691.8	682.8	685.8	679.7	685.8	682.8	688.9
50°	521.2	527.2	524.3	527.2	527.2	521.2	530.3	518.2
52.5°	390.2	393.1	390.2	387.1	384.1	384.1	390.2	387.1
55°	277.4	274.3	274.3	274.3	277.4	277.4	274.3	271.3
57.5°	185.9	185.9	182.9	182.9	185.9	179.8	182.9	179.8
60°	118.9	118.9	118.9	118.9	115.9	118.9	118.9	118.9
62.5°	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
65°	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
67.5°	30.5	33.6	33.6	33.6	30.5	30.5	30.5	30.5
70°	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3
72.5°	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2
75°	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
77.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
80°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
82.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.1	3.1	3.1	3.1	3.1	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)