

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: P684307

Luminaire Tested: **LX6C45D010 EX6C459035 6LCSWH**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P684307
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 EX6C459035 6LCSWH
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

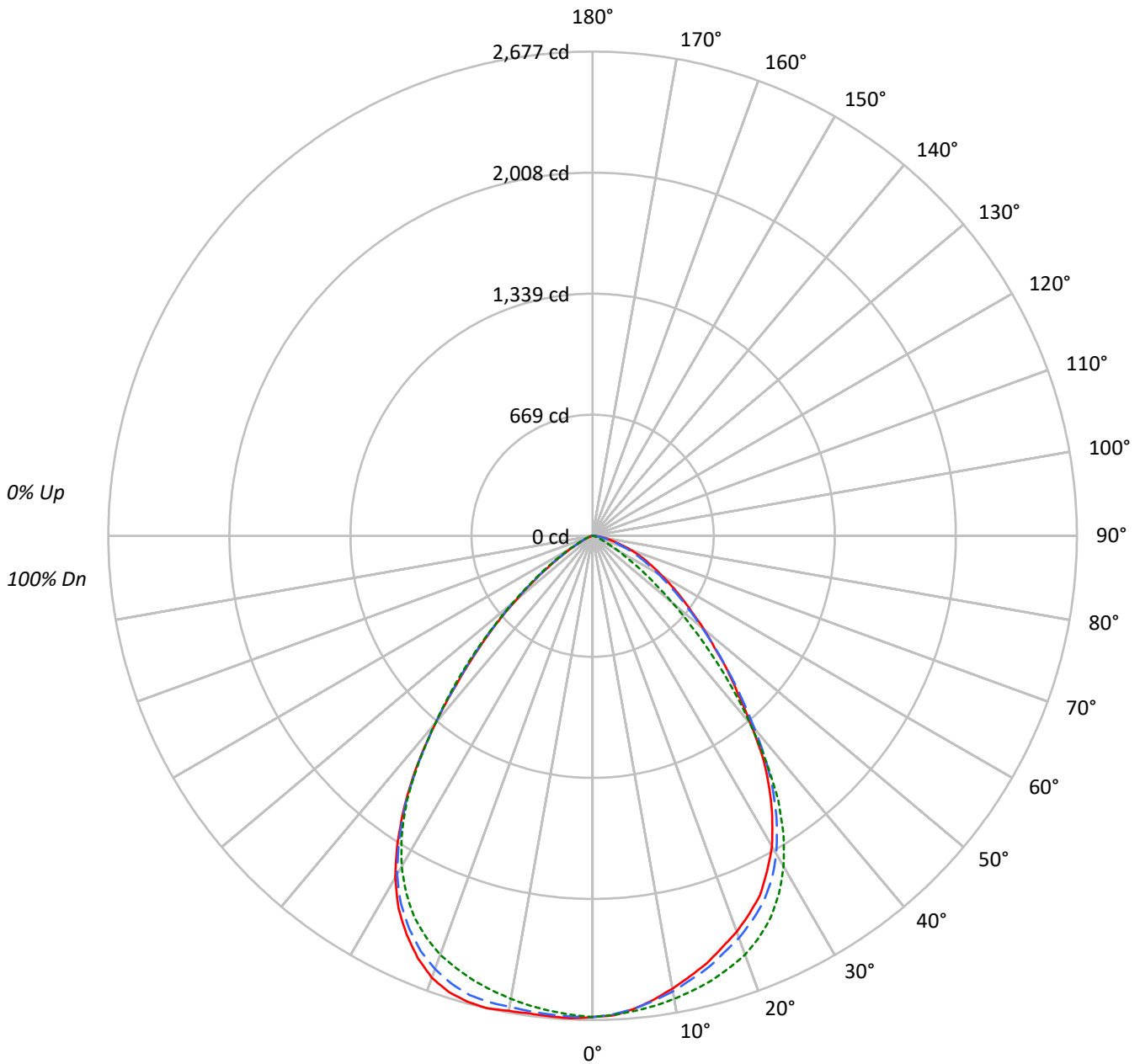
Lumens per Lamp: N/A
Luminaire Lumens: 4464.0 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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				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
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90				90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80				80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72				72
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64				64
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58				58
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52				52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47				47
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43				43
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40				40
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37				37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	145871	145871	145871
5°	144480	145185	146780
10°	141503	144715	148478
15°	138792	144445	151380
20°	135917	143787	151662
25°	132564	140923	147142
30°	125513	133647	138123
35°	113983	119786	120863
40°	97282	96817	96352
45°	81714	72496	70255
50°	68245	49056	46591
55°	57441	30097	27335
60°	48625	15865	13738
65°	42106	8341	6667
70°	35022	5145	3606
75°	25883	3410	2055
80°	20299	2020	1042
85°	16165	2076	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.8	5.6
10°-20°	718.0	16.1
20°-30°	1060.3	23.8
30°-40°	1092.7	24.5
40°-50°	754.7	16.9
50°-60°	372.0	8.3
60°-70°	150.7	3.4
70°-80°	53.7	1.2
80°-90°	11.1	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°	2029.0	45.5
0°-40°	3121.7	69.9
0°-60°	4248.4	95.2
0°-90°	4464.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4464.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2661	2661	2661	2661	2661	
5°	2626	2626	2638	2658	2667	248
15°	2446	2471	2545	2629	2667	689
25°	2192	2233	2330	2397	2433	1002
35°	1703	1745	1790	1800	1806	1055
45°	1054	1060	935	922	906	815
55°	601	578	315	296	286	543
65°	325	292	64	51	51	322
75°	122	103	16	10	10	137
85°	26	19	3	0	0	31
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°	2660.9	2660.9	2660.9	2660.9	2660.9	2660.9	2660.9	2660.9	2660.9	2660.9	2660.9
2.5°	2654.3	2644.8	2651.2	2638.3	2654.3	2638.3	2641.5	2644.8	2641.5	2644.8	2647.9
5°	2625.5	2615.8	2625.5	2609.4	2625.5	2615.8	2615.8	2619.1	2619.1	2622.2	2625.5
7.5°	2586.9	2577.2	2586.9	2570.8	2590.1	2580.5	2580.5	2586.9	2583.6	2586.9	2593.3
10°	2542.0	2529.0	2538.7	2529.0	2548.4	2535.4	2542.0	2542.0	2542.0	2551.5	2558.0
12.5°	2493.7	2480.8	2493.7	2477.7	2496.9	2487.3	2490.5	2500.1	2503.3	2509.8	2513.0
15°	2445.5	2429.5	2435.9	2426.2	2445.5	2435.9	2439.1	2451.9	2451.9	2461.6	2471.3
17.5°	2384.5	2371.6	2384.5	2371.6	2387.6	2381.2	2387.6	2397.3	2397.3	2407.0	2416.5
20°	2329.8	2316.9	2326.6	2316.9	2336.3	2326.6	2329.8	2342.7	2345.8	2355.5	2365.2
22.5°	2262.3	2252.7	2259.1	2249.5	2268.7	2262.3	2265.6	2278.4	2281.7	2288.1	2304.1
25°	2191.6	2172.3	2182.0	2175.6	2194.9	2185.2	2191.6	2204.4	2211.0	2220.5	2233.4
27.5°	2088.8	2079.1	2085.5	2085.5	2101.6	2092.1	2095.2	2108.1	2117.7	2127.3	2143.4
30°	1982.8	1966.7	1973.1	1976.3	1989.2	1982.8	1989.2	2002.0	2005.3	2018.1	2030.9
32.5°	1847.8	1841.3	1854.2	1847.8	1854.2	1854.2	1857.4	1867.0	1873.4	1880.0	1896.0
35°	1703.2	1690.4	1703.2	1696.8	1712.8	1703.2	1712.8	1722.5	1722.5	1735.3	1745.0
37.5°	1545.7	1529.6	1536.1	1536.1	1542.5	1539.3	1539.3	1555.4	1558.5	1568.2	1577.9
40°	1359.4	1352.9	1365.8	1362.5	1365.8	1365.8	1368.9	1378.6	1385.0	1388.3	1391.5
42.5°	1192.2	1195.4	1198.7	1198.7	1198.7	1198.7	1198.7	1211.5	1208.3	1218.0	1221.1
45°	1054.0	1041.2	1047.6	1044.5	1054.0	1044.5	1054.0	1063.7	1057.3	1066.9	1060.4
47.5°	912.6	912.6	912.6	909.5	915.9	912.6	919.0	922.3	922.3	922.3	919.0
50°	800.2	790.6	793.7	793.7	797.0	793.7	800.2	803.4	803.4	797.0	784.2
52.5°	690.9	687.7	687.7	694.1	694.1	690.9	690.9	690.9	690.9	681.3	674.8
55°	601.0	594.6	597.7	597.7	597.7	597.7	601.0	597.7	597.7	588.0	578.5
57.5°	520.6	514.2	514.2	514.2	517.3	514.2	514.2	514.2	510.9	501.3	488.5
60°	443.5	440.2	443.5	443.5	446.6	443.5	443.5	443.5	437.1	427.4	414.5
62.5°	379.2	379.2	379.2	382.4	382.4	379.2	379.2	375.9	372.8	359.9	347.1
65°	324.6	321.3	324.6	324.6	327.7	327.7	324.6	321.3	318.2	305.3	292.4
67.5°	270.0	266.7	270.0	270.0	273.1	270.0	270.0	270.0	260.3	253.9	241.0
70°	218.5	215.3	215.3	215.3	218.5	212.1	215.3	215.3	208.9	199.3	186.3
72.5°	167.1	167.1	167.1	167.1	167.1	167.1	163.9	163.9	157.5	147.8	141.4
75°	122.2	122.2	125.3	125.3	122.2	122.2	122.2	118.9	115.6	109.2	102.8
77.5°	90.0	90.0	90.0	90.0	86.8	86.8	86.8	83.5	80.4	77.1	70.7
80°	64.3	64.3	64.3	61.0	64.3	61.0	61.0	61.0	54.6	51.4	48.2
82.5°	45.0	41.8	41.8	41.8	41.8	41.8	41.8	38.5	38.5	35.4	32.1
85°	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	22.5	19.3	19.3
87.5°	12.8	16.1	16.1	16.1	16.1	16.1	16.1	12.8	12.8	12.8	9.7
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°	2660.9	2660.9	2660.9	2660.9	2660.9	2660.9	2660.9	2660.9	2660.9	2660.9	2660.9
2.5°	2647.9	2647.9	2654.3	2644.8	2660.9	2651.2	2647.9	2664.0	2654.3	2651.2	2657.6
5°	2625.5	2628.7	2631.9	2625.5	2641.5	2631.9	2631.9	2647.9	2641.5	2638.3	2647.9
7.5°	2596.6	2599.7	2606.1	2603.0	2615.8	2609.4	2612.7	2628.7	2622.2	2622.2	2631.9
10°	2561.2	2567.6	2574.1	2574.1	2590.1	2583.6	2583.6	2603.0	2596.6	2599.7	2612.7
12.5°	2519.4	2529.0	2538.7	2542.0	2558.0	2548.4	2551.5	2574.1	2570.8	2574.1	2586.9
15°	2474.4	2487.3	2496.9	2496.9	2516.2	2506.5	2516.2	2538.7	2532.3	2545.1	2561.2
17.5°	2423.0	2435.9	2448.7	2451.9	2471.3	2464.7	2477.7	2500.1	2500.1	2506.5	2525.9
20°	2374.8	2390.9	2397.3	2407.0	2426.2	2423.0	2429.5	2455.2	2455.2	2464.7	2484.1
22.5°	2310.5	2326.6	2339.4	2349.1	2365.2	2365.2	2374.8	2397.3	2397.3	2403.7	2423.0
25°	2239.8	2259.1	2268.7	2278.4	2294.5	2291.2	2300.9	2320.2	2323.3	2329.8	2349.1
27.5°	2149.8	2165.9	2178.8	2185.2	2207.7	2194.9	2204.4	2227.0	2223.8	2230.2	2246.3
30°	2037.4	2053.5	2066.3	2066.3	2085.5	2085.5	2095.2	2104.9	2104.9	2111.3	2124.2
32.5°	1905.6	1924.9	1924.9	1934.6	1947.4	1934.6	1947.4	1960.2	1953.8	1963.5	1973.1
35°	1754.5	1764.2	1767.5	1767.5	1777.1	1773.9	1770.6	1780.3	1773.9	1789.9	1799.6
37.5°	1571.5	1584.3	1577.9	1584.3	1581.0	1571.5	1571.5	1587.5	1574.6	1577.9	1587.5
40°	1394.7	1394.7	1391.5	1375.4	1378.6	1368.9	1365.8	1368.9	1356.1	1352.9	1365.8
42.5°	1211.5	1208.3	1198.7	1176.2	1179.3	1163.2	1150.4	1150.4	1144.0	1140.8	1144.0
45°	1047.6	1037.9	1021.9	996.2	989.7	976.9	951.2	944.8	935.1	935.1	938.4
47.5°	896.5	883.7	858.0	829.1	813.0	797.0	771.2	761.6	745.5	739.1	745.5
50°	771.2	748.8	716.6	674.8	658.7	639.5	613.8	597.7	581.6	575.2	572.0
52.5°	655.6	623.4	591.3	539.9	527.0	507.8	472.4	456.3	440.2	427.4	427.4
55°	555.9	527.0	482.0	433.8	414.5	395.3	359.9	337.4	321.3	314.9	308.5
57.5°	466.0	433.8	392.0	340.7	321.3	302.1	266.7	244.2	228.2	218.5	212.1
60°	392.0	356.7	314.9	270.0	247.5	228.2	192.9	170.3	154.2	144.7	138.1
62.5°	321.3	292.4	250.6	208.9	189.6	170.3	141.4	118.9	102.8	96.4	86.8
65°	270.0	241.0	202.4	167.1	151.1	131.7	106.1	86.8	74.0	64.3	57.9
67.5°	218.5	196.0	163.9	131.7	115.6	102.8	80.4	64.3	51.4	45.0	41.8
70°	173.5	151.1	125.3	99.6	90.0	77.1	61.0	45.0	38.5	32.1	28.9
72.5°	128.6	112.5	93.2	74.0	64.3	57.9	41.8	35.4	25.7	22.5	19.3
75°	93.2	80.4	67.4	51.4	45.0	41.8	32.1	22.5	19.3	16.1	12.8
77.5°	64.3	57.9	45.0	35.4	32.1	28.9	22.5	16.1	12.8	9.7	9.7
80°	41.8	35.4	28.9	22.5	22.5	19.3	12.8	9.7	9.7	6.4	6.4
82.5°	25.7	22.5	19.3	16.1	12.8	12.8	9.7	6.4	6.4	3.3	3.3
85°	16.1	12.8	9.7	9.7	6.4	6.4	6.4	3.3	3.3	3.3	3.3
87.5°	6.4	6.4	6.4	3.3	3.3	3.3	3.3	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°	2660.9	2660.9	2660.9	2660.9	2660.9	2660.9	2660.9	2660.9	2660.9	2660.9	2660.9
2.5°	2657.6	2657.6	2664.0	2654.3	2660.9	2660.9	2667.3	2654.3	2660.9	2664.0	2670.4
5°	2644.8	2647.9	2654.3	2651.2	2654.3	2654.3	2660.9	2644.8	2657.6	2657.6	2667.3
7.5°	2631.9	2631.9	2638.3	2635.1	2641.5	2644.8	2651.2	2638.3	2651.2	2651.2	2660.9
10°	2615.8	2615.8	2625.5	2622.2	2631.9	2635.1	2644.8	2631.9	2644.8	2647.9	2657.6
12.5°	2593.3	2596.6	2606.1	2606.1	2615.8	2622.2	2631.9	2625.5	2641.5	2644.8	2657.6
15°	2567.6	2574.1	2586.9	2583.6	2593.3	2603.0	2615.8	2606.1	2628.7	2635.1	2647.9
17.5°	2535.4	2542.0	2551.5	2551.5	2561.2	2567.6	2583.6	2577.2	2596.6	2599.7	2615.8
20°	2487.3	2496.9	2509.8	2506.5	2516.2	2522.6	2535.4	2529.0	2548.4	2554.8	2570.8
22.5°	2429.5	2435.9	2445.5	2445.5	2455.2	2461.6	2474.4	2464.7	2484.1	2487.3	2500.1
25°	2352.4	2358.8	2365.2	2368.4	2378.0	2381.2	2387.6	2381.2	2397.3	2400.6	2416.5
27.5°	2252.7	2255.9	2265.6	2265.6	2272.0	2275.1	2284.8	2272.0	2294.5	2294.5	2304.1
30°	2133.7	2130.6	2143.4	2137.0	2143.4	2143.4	2153.1	2146.7	2162.7	2156.3	2165.9
32.5°	1976.3	1982.8	1982.8	1976.3	1989.2	1986.0	1986.0	1979.5	1989.2	1992.4	1998.8
35°	1793.2	1802.8	1802.8	1806.0	1809.3	1799.6	1802.8	1783.5	1799.6	1802.8	1806.0
37.5°	1593.9	1584.3	1590.7	1581.0	1597.1	1577.9	1577.9	1565.1	1577.9	1577.9	1581.0
40°	1365.8	1362.5	1368.9	1362.5	1359.4	1356.1	1349.7	1340.0	1352.9	1346.4	1356.1
42.5°	1150.4	1147.2	1147.2	1140.8	1137.6	1137.6	1131.2	1124.7	1121.6	1121.6	1137.6
45°	928.7	935.1	928.7	925.5	932.0	925.5	928.7	915.9	922.3	915.9	922.3
47.5°	742.3	745.5	739.1	732.7	742.3	732.7	732.7	723.0	735.9	735.9	729.4
50°	575.2	572.0	565.6	572.0	568.8	568.8	568.8	559.1	565.6	555.9	562.4
52.5°	424.2	421.0	421.0	417.8	421.0	417.8	417.8	414.5	414.5	411.4	414.5
55°	308.5	305.3	298.8	298.8	298.8	302.1	298.8	295.7	295.7	292.4	295.7
57.5°	208.9	202.4	202.4	202.4	202.4	199.3	199.3	196.0	199.3	196.0	199.3
60°	135.0	135.0	128.6	128.6	128.6	128.6	128.6	125.3	128.6	128.6	128.6
62.5°	83.5	83.5	80.4	77.1	80.4	77.1	77.1	77.1	80.4	77.1	80.4
65°	54.6	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
67.5°	38.5	35.4	35.4	35.4	35.4	35.4	35.4	32.1	35.4	35.4	35.4
70°	25.7	25.7	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
72.5°	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1
75°	12.8	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
77.5°	9.7	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
80°	6.4	6.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
82.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
85°	3.3	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	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
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: P684307

CATALOG NUMBER: LX6C45D010 EX6C459035 6LCSWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2660.9	2660.9	2660.9	2660.9	2660.9	2660.9	2660.9	2660.9
2.5°	2660.9	2664.0	2657.6	2660.9	2654.3	2660.9	2664.0	2670.4
5°	2654.3	2657.6	2651.2	2657.6	2651.2	2657.6	2660.9	2667.3
7.5°	2647.9	2654.3	2647.9	2654.3	2647.9	2654.3	2657.6	2664.0
10°	2647.9	2657.6	2651.2	2660.9	2651.2	2657.6	2664.0	2667.3
12.5°	2647.9	2657.6	2654.3	2660.9	2657.6	2664.0	2670.4	2676.8
15°	2641.5	2651.2	2644.8	2654.3	2651.2	2654.3	2667.3	2667.3
17.5°	2606.1	2615.8	2615.8	2622.2	2622.2	2631.9	2638.3	2644.8
20°	2561.2	2570.8	2567.6	2577.2	2577.2	2586.9	2593.3	2599.7
22.5°	2493.7	2506.5	2503.3	2513.0	2509.8	2516.2	2529.0	2525.9
25°	2407.0	2423.0	2419.8	2426.2	2423.0	2423.0	2429.5	2432.6
27.5°	2300.9	2310.5	2307.3	2313.8	2307.3	2313.8	2320.2	2323.3
30°	2162.7	2169.2	2165.9	2169.2	2165.9	2172.3	2175.6	2182.0
32.5°	1995.6	2005.3	1995.6	2002.0	1998.8	1998.8	2011.7	2005.3
35°	1796.3	1799.6	1802.8	1802.8	1796.3	1799.6	1806.0	1806.0
37.5°	1574.6	1590.7	1571.5	1581.0	1577.9	1577.9	1577.9	1587.5
40°	1343.3	1346.4	1340.0	1340.0	1340.0	1336.8	1349.7	1346.4
42.5°	1124.7	1128.0	1124.7	1115.1	1118.3	1118.3	1128.0	1115.1
45°	912.6	919.0	915.9	915.9	909.5	909.5	912.6	906.2
47.5°	723.0	729.4	719.9	723.0	716.6	723.0	719.9	726.3
50°	549.5	555.9	552.7	555.9	555.9	549.5	559.1	546.3
52.5°	411.4	414.5	411.4	408.1	404.9	404.9	411.4	408.1
55°	292.4	289.2	289.2	289.2	292.4	292.4	289.2	286.0
57.5°	196.0	196.0	192.9	192.9	196.0	189.6	192.9	189.6
60°	125.3	125.3	125.3	125.3	122.2	125.3	125.3	125.3
62.5°	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
65°	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
67.5°	32.1	35.4	35.4	35.4	32.1	32.1	32.1	32.1
70°	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
72.5°	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1
75°	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
77.5°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
80°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
82.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.3	3.3	3.3	3.3	3.3	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)