

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: P684314

Luminaire Tested: **LX6C45D010 EX6C459040 6LCSWH**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P684314
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 EX6C459040 6LCSWH
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

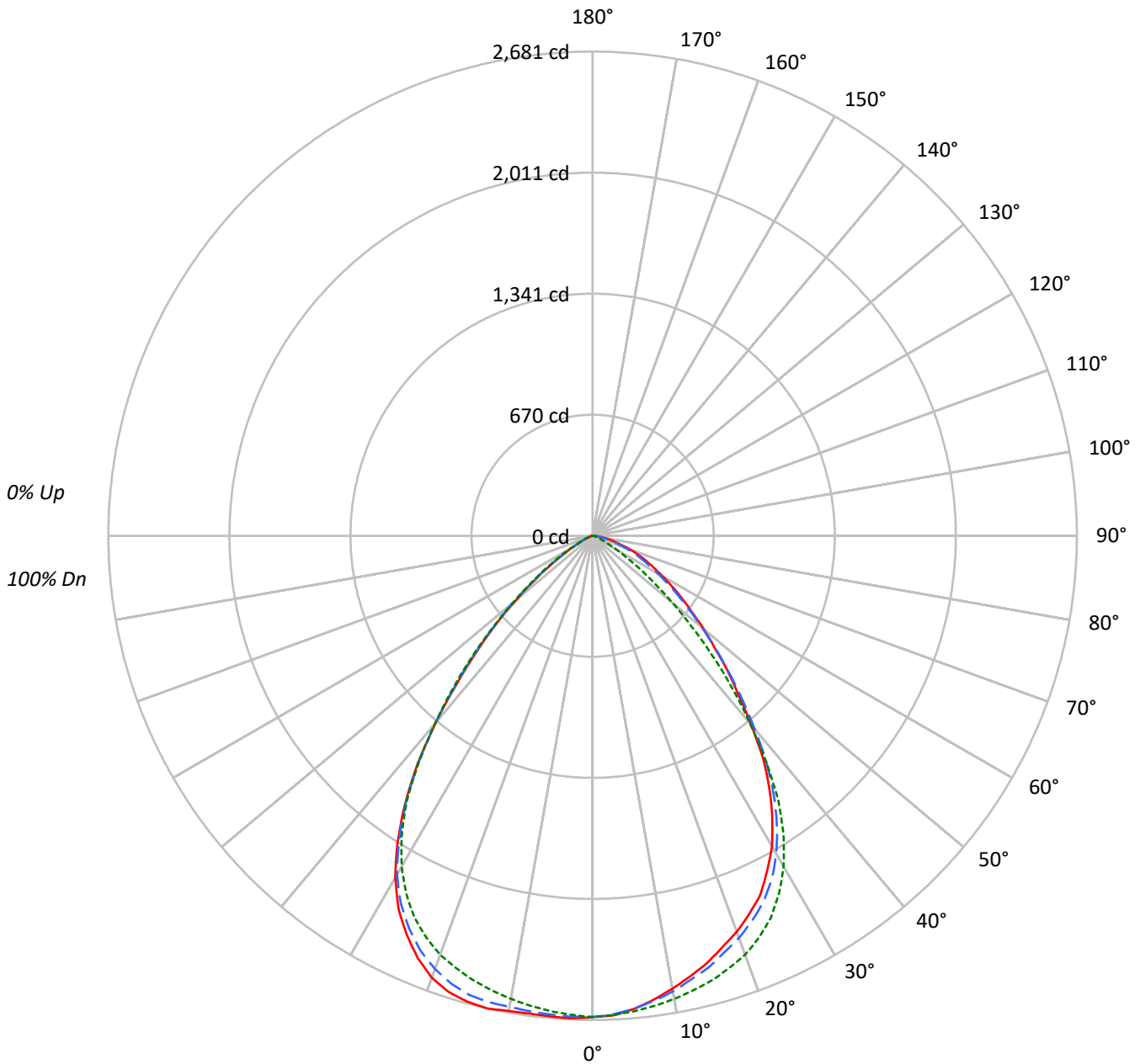
Lumens per Lamp: N/A
Luminaire Lumens: 4471.0 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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				
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°	146096	146096	146096
5°	144706	145410	147012
10°	141720	144943	148711
15°	139013	144672	151618
20°	136127	144014	151902
25°	132776	141141	147371
30°	125709	133856	138338
35°	114157	119980	121050
40°	97433	96967	96509
45°	81846	72612	70364
50°	68356	49133	46668
55°	57527	30145	27383
60°	48702	15887	13760
65°	42171	8354	6667
70°	35070	5161	3606
75°	25925	3410	2055
80°	20331	2020	1042
85°	16228	2076	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.2	5.6
10°-20°	719.1	16.1
20°-30°	1061.9	23.8
30°-40°	1094.4	24.5
40°-50°	755.9	16.9
50°-60°	372.6	8.3
60°-70°	151.0	3.4
70°-80°	53.8	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°	2032.2	45.5
0°-40°	3126.6	69.9
0°-60°	4255.1	95.2
0°-90°	4471.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4471.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2665	2665	2665	2665	2665	
5°	2630	2630	2642	2662	2672	248
15°	2449	2475	2549	2633	2672	690
25°	2195	2237	2333	2401	2436	1004
35°	1706	1748	1793	1802	1809	1057
45°	1056	1062	937	924	908	816
55°	602	579	315	296	286	544
65°	325	293	64	51	51	323
75°	122	103	16	10	10	137
85°	26	19	3	0	0	32
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°	2665.0	2665.0	2665.0	2665.0	2665.0	2665.0	2665.0	2665.0	2665.0	2665.0	2665.0
2.5°	2658.5	2648.9	2655.4	2642.4	2658.5	2642.4	2645.7	2648.9	2645.7	2648.9	2652.1
5°	2629.6	2619.9	2629.6	2613.5	2629.6	2619.9	2619.9	2623.2	2623.2	2626.3	2629.6
7.5°	2591.0	2581.3	2591.0	2574.9	2594.1	2584.6	2584.6	2591.0	2587.7	2591.0	2597.4
10°	2545.9	2533.0	2542.7	2533.0	2552.4	2539.4	2545.9	2545.9	2545.9	2555.5	2562.0
12.5°	2497.7	2484.7	2497.7	2481.6	2500.8	2491.2	2494.4	2504.1	2507.2	2513.7	2516.9
15°	2449.4	2433.3	2439.7	2430.0	2449.4	2439.7	2442.9	2455.8	2455.8	2465.5	2475.1
17.5°	2388.2	2375.3	2388.2	2375.3	2391.4	2385.0	2391.4	2401.1	2401.1	2410.7	2420.3
20°	2333.4	2320.6	2330.3	2320.6	2339.9	2330.3	2333.4	2346.4	2349.5	2359.2	2368.9
22.5°	2265.9	2256.2	2262.6	2253.0	2272.3	2265.9	2269.1	2282.0	2285.2	2291.7	2307.7
25°	2195.1	2175.7	2185.4	2179.0	2198.3	2188.7	2195.1	2207.9	2214.4	2224.0	2236.9
27.5°	2092.1	2082.4	2088.8	2088.8	2104.9	2095.3	2098.5	2111.4	2121.0	2130.7	2146.8
30°	1985.9	1969.8	1976.2	1979.4	1992.3	1985.9	1992.3	2005.2	2008.4	2021.3	2034.1
32.5°	1850.7	1844.2	1857.1	1850.7	1857.1	1857.1	1860.3	1870.0	1876.4	1882.9	1899.0
35°	1705.8	1693.0	1705.8	1699.4	1715.5	1705.8	1715.5	1725.2	1725.2	1738.0	1747.7
37.5°	1548.1	1532.0	1538.5	1538.5	1544.9	1541.7	1541.7	1557.8	1561.0	1570.7	1580.3
40°	1361.5	1355.0	1367.9	1364.7	1367.9	1367.9	1371.1	1380.8	1387.2	1390.4	1393.7
42.5°	1194.1	1197.3	1200.5	1200.5	1200.5	1200.5	1200.5	1213.4	1210.2	1219.9	1223.0
45°	1055.7	1042.8	1049.2	1046.1	1055.7	1046.1	1055.7	1065.3	1058.9	1068.6	1062.1
47.5°	914.0	914.0	914.0	910.9	917.3	914.0	920.5	923.7	923.7	923.7	920.5
50°	801.5	791.8	794.9	794.9	798.2	794.9	801.5	804.6	804.6	798.2	785.4
52.5°	691.9	688.8	688.8	695.2	695.2	691.9	691.9	691.9	691.9	682.4	675.9
55°	601.9	595.5	598.6	598.6	598.6	598.6	601.9	598.6	598.6	588.9	579.4
57.5°	521.4	515.0	515.0	515.0	518.1	515.0	515.0	515.0	511.7	502.0	489.2
60°	444.2	440.9	444.2	444.2	447.3	444.2	444.2	444.2	437.8	428.1	415.1
62.5°	379.8	379.8	379.8	383.0	383.0	379.8	379.8	376.5	373.4	360.4	347.6
65°	325.1	321.8	325.1	325.1	328.2	328.2	325.1	321.8	318.7	305.7	292.9
67.5°	270.4	267.1	270.4	270.4	273.5	270.4	270.4	270.4	260.7	254.3	241.3
70°	218.8	215.7	215.7	215.7	218.8	212.4	215.7	215.7	209.3	199.6	186.6
72.5°	167.4	167.4	167.4	167.4	167.4	167.4	164.1	164.1	157.7	148.0	141.6
75°	122.4	122.4	125.5	125.5	122.4	122.4	122.4	119.1	115.8	109.4	103.0
77.5°	90.2	90.2	90.2	90.2	86.9	86.9	86.9	83.6	80.5	77.2	70.8
80°	64.4	64.4	64.4	61.1	64.4	61.1	61.1	61.1	54.7	51.4	48.3
82.5°	45.0	41.9	41.9	41.9	41.9	41.9	41.9	38.6	38.6	35.5	32.2
85°	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	22.5	19.4	19.4
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°	2665.0	2665.0	2665.0	2665.0	2665.0	2665.0	2665.0	2665.0	2665.0	2665.0	2665.0
2.5°	2652.1	2652.1	2658.5	2648.9	2665.0	2655.4	2652.1	2668.2	2658.5	2655.4	2661.8
5°	2629.6	2632.8	2636.0	2629.6	2645.7	2636.0	2636.0	2652.1	2645.7	2642.4	2652.1
7.5°	2600.7	2603.8	2610.2	2607.1	2619.9	2613.5	2616.7	2632.8	2626.3	2626.3	2636.0
10°	2565.2	2571.6	2578.1	2578.1	2594.1	2587.7	2587.7	2607.1	2600.7	2603.8	2616.7
12.5°	2523.3	2533.0	2542.7	2545.9	2562.0	2552.4	2555.5	2578.1	2574.9	2578.1	2591.0
15°	2478.3	2491.2	2500.8	2500.8	2520.2	2510.5	2520.2	2542.7	2536.3	2549.1	2565.2
17.5°	2426.8	2439.7	2452.5	2455.8	2475.1	2468.6	2481.6	2504.1	2504.1	2510.5	2529.8
20°	2378.6	2394.7	2401.1	2410.7	2430.0	2426.8	2433.3	2459.0	2459.0	2468.6	2488.0
22.5°	2314.2	2330.3	2343.1	2352.8	2368.9	2368.9	2378.6	2401.1	2401.1	2407.5	2426.8
25°	2243.4	2262.6	2272.3	2282.0	2298.1	2294.8	2304.5	2323.8	2327.0	2333.4	2352.8
27.5°	2153.2	2169.3	2182.2	2188.7	2211.2	2198.3	2207.9	2230.5	2227.3	2233.7	2249.8
30°	2040.6	2056.7	2069.6	2069.6	2088.8	2088.8	2098.5	2108.2	2108.2	2114.6	2127.5
32.5°	1908.6	1927.9	1927.9	1937.6	1950.5	1937.6	1950.5	1963.3	1956.9	1966.6	1976.2
35°	1757.3	1767.0	1770.2	1770.2	1779.9	1776.7	1773.4	1783.1	1776.7	1792.8	1802.4
37.5°	1573.9	1586.8	1580.3	1586.8	1583.5	1573.9	1573.9	1590.0	1577.1	1580.3	1590.0
40°	1396.8	1396.8	1393.7	1377.6	1380.8	1371.1	1367.9	1371.1	1358.2	1355.0	1367.9
42.5°	1213.4	1210.2	1200.5	1178.0	1181.2	1165.1	1152.2	1152.2	1145.8	1142.6	1145.8
45°	1049.2	1039.6	1023.5	997.8	991.3	978.4	952.7	946.2	936.6	936.6	939.8
47.5°	897.9	885.1	859.3	830.4	814.3	798.2	772.4	762.8	746.7	740.2	746.7
50°	772.4	749.9	717.7	675.9	659.8	640.5	614.7	598.6	582.5	576.1	572.9
52.5°	656.6	624.4	592.2	540.8	527.8	508.6	473.1	457.0	440.9	428.1	428.1
55°	556.8	527.8	482.8	434.5	415.1	395.9	360.4	337.9	321.8	315.4	309.0
57.5°	466.7	434.5	392.6	341.2	321.8	302.6	267.1	244.6	228.5	218.8	212.4
60°	392.6	357.3	315.4	270.4	247.9	228.5	193.2	170.5	154.4	144.9	138.3
62.5°	321.8	292.9	251.0	209.3	189.9	170.5	141.6	119.1	103.0	96.6	86.9
65°	270.4	241.3	202.7	167.4	151.3	131.9	106.3	86.9	74.1	64.4	58.0
67.5°	218.8	196.3	164.1	131.9	115.8	103.0	80.5	64.4	51.4	45.0	41.9
70°	173.8	151.3	125.5	99.7	90.2	77.2	61.1	45.0	38.6	32.2	28.9
72.5°	128.8	112.7	93.3	74.1	64.4	58.0	41.9	35.5	25.8	22.5	19.4
75°	93.3	80.5	67.5	51.4	45.0	41.9	32.2	22.5	19.4	16.1	12.8
77.5°	64.4	58.0	45.0	35.5	32.2	28.9	22.5	16.1	12.8	9.7	9.7
80°	41.9	35.5	28.9	22.5	22.5	19.4	12.8	9.7	9.7	6.4	6.4
82.5°	25.8	22.5	19.4	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°	2665.0	2665.0	2665.0	2665.0	2665.0	2665.0	2665.0	2665.0	2665.0	2665.0	2665.0
2.5°	2661.8	2661.8	2668.2	2658.5	2665.0	2665.0	2671.5	2658.5	2665.0	2668.2	2674.6
5°	2648.9	2652.1	2658.5	2655.4	2658.5	2658.5	2665.0	2648.9	2661.8	2661.8	2671.5
7.5°	2636.0	2636.0	2642.4	2639.3	2645.7	2648.9	2655.4	2642.4	2655.4	2655.4	2665.0
10°	2619.9	2619.9	2629.6	2626.3	2636.0	2639.3	2648.9	2636.0	2648.9	2652.1	2661.8
12.5°	2597.4	2600.7	2610.2	2610.2	2619.9	2626.3	2636.0	2629.6	2645.7	2648.9	2661.8
15°	2571.6	2578.1	2591.0	2587.7	2597.4	2607.1	2619.9	2610.2	2632.8	2639.3	2652.1
17.5°	2539.4	2545.9	2555.5	2555.5	2565.2	2571.6	2587.7	2581.3	2600.7	2603.8	2619.9
20°	2491.2	2500.8	2513.7	2510.5	2520.2	2526.6	2539.4	2533.0	2552.4	2558.8	2574.9
22.5°	2433.3	2439.7	2449.4	2449.4	2459.0	2465.5	2478.3	2468.6	2488.0	2491.2	2504.1
25°	2356.0	2362.5	2368.9	2372.1	2381.7	2385.0	2391.4	2385.0	2401.1	2404.3	2420.3
27.5°	2256.2	2259.5	2269.1	2269.1	2275.6	2278.7	2288.4	2275.6	2298.1	2298.1	2307.7
30°	2137.1	2133.9	2146.8	2140.4	2146.8	2146.8	2156.5	2150.0	2166.1	2159.7	2169.3
32.5°	1979.4	1985.9	1985.9	1979.4	1992.3	1989.1	1989.1	1982.7	1992.3	1995.5	2001.9
35°	1796.0	1805.6	1805.6	1808.8	1812.1	1802.4	1805.6	1786.3	1802.4	1805.6	1808.8
37.5°	1596.4	1586.8	1593.2	1583.5	1599.6	1580.3	1580.3	1567.5	1580.3	1580.3	1583.5
40°	1367.9	1364.7	1371.1	1364.7	1361.5	1358.2	1351.8	1342.1	1355.0	1348.6	1358.2
42.5°	1152.2	1149.0	1149.0	1142.6	1139.4	1139.4	1133.0	1126.5	1123.3	1123.3	1139.4
45°	930.1	936.6	930.1	927.0	933.4	927.0	930.1	917.3	923.7	917.3	923.7
47.5°	743.5	746.7	740.2	733.8	743.5	733.8	733.8	724.1	737.1	737.1	730.6
50°	576.1	572.9	566.4	572.9	569.7	569.7	569.7	560.0	566.4	556.8	563.3
52.5°	424.8	421.7	421.7	418.4	421.7	418.4	418.4	415.1	415.1	412.0	415.1
55°	309.0	305.7	299.3	299.3	299.3	302.6	299.3	296.2	296.2	292.9	296.2
57.5°	209.3	202.7	202.7	202.7	202.7	199.6	199.6	196.3	199.6	196.3	199.6
60°	135.2	135.2	128.8	128.8	128.8	128.8	128.8	125.5	128.8	128.8	128.8
62.5°	83.6	83.6	80.5	77.2	80.5	77.2	77.2	77.2	80.5	77.2	80.5
65°	54.7	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
67.5°	38.6	35.5	35.5	35.5	35.5	35.5	35.5	32.2	35.5	35.5	35.5
70°	25.8	25.8	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: P684314

CATALOG NUMBER: LX6C45D010 EX6C459040 6LCSWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2665.0	2665.0	2665.0	2665.0	2665.0	2665.0	2665.0	2665.0
2.5°	2665.0	2668.2	2661.8	2665.0	2658.5	2665.0	2668.2	2674.6
5°	2658.5	2661.8	2655.4	2661.8	2655.4	2661.8	2665.0	2671.5
7.5°	2652.1	2658.5	2652.1	2658.5	2652.1	2658.5	2661.8	2668.2
10°	2652.1	2661.8	2655.4	2665.0	2655.4	2661.8	2668.2	2671.5
12.5°	2652.1	2661.8	2658.5	2665.0	2661.8	2668.2	2674.6	2681.0
15°	2645.7	2655.4	2648.9	2658.5	2655.4	2658.5	2671.5	2671.5
17.5°	2610.2	2619.9	2619.9	2626.3	2626.3	2636.0	2642.4	2648.9
20°	2565.2	2574.9	2571.6	2581.3	2581.3	2591.0	2597.4	2603.8
22.5°	2497.7	2510.5	2507.2	2516.9	2513.7	2520.2	2533.0	2529.8
25°	2410.7	2426.8	2423.6	2430.0	2426.8	2426.8	2433.3	2436.4
27.5°	2304.5	2314.2	2310.9	2317.4	2310.9	2317.4	2323.8	2327.0
30°	2166.1	2172.6	2169.3	2172.6	2169.3	2175.7	2179.0	2185.4
32.5°	1998.7	2008.4	1998.7	2005.2	2001.9	2001.9	2014.8	2008.4
35°	1799.2	1802.4	1805.6	1805.6	1799.2	1802.4	1808.8	1808.8
37.5°	1577.1	1593.2	1573.9	1583.5	1580.3	1580.3	1580.3	1590.0
40°	1345.4	1348.6	1342.1	1342.1	1342.1	1338.9	1351.8	1348.6
42.5°	1126.5	1129.7	1126.5	1116.9	1120.0	1120.0	1129.7	1116.9
45°	914.0	920.5	917.3	917.3	910.9	910.9	914.0	907.6
47.5°	724.1	730.6	721.0	724.1	717.7	724.1	721.0	727.4
50°	550.3	556.8	553.6	556.8	556.8	550.3	560.0	547.2
52.5°	412.0	415.1	412.0	408.7	405.6	405.6	412.0	408.7
55°	292.9	289.6	289.6	289.6	292.9	292.9	289.6	286.5
57.5°	196.3	196.3	193.2	193.2	196.3	189.9	193.2	189.9
60°	125.5	125.5	125.5	125.5	122.4	125.5	125.5	125.5
62.5°	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2
65°	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
67.5°	32.2	35.5	35.5	35.5	32.2	32.2	32.2	32.2
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)