

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: P685020

Luminaire Tested: **LX6C45D010 EX6459030 6LCSWLI**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P685020
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P252180)
Test Lab: INNOVATION CENTER
Issue Date: 2/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX6C45D010 EX6459030 6LCSWLI
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 6LCSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

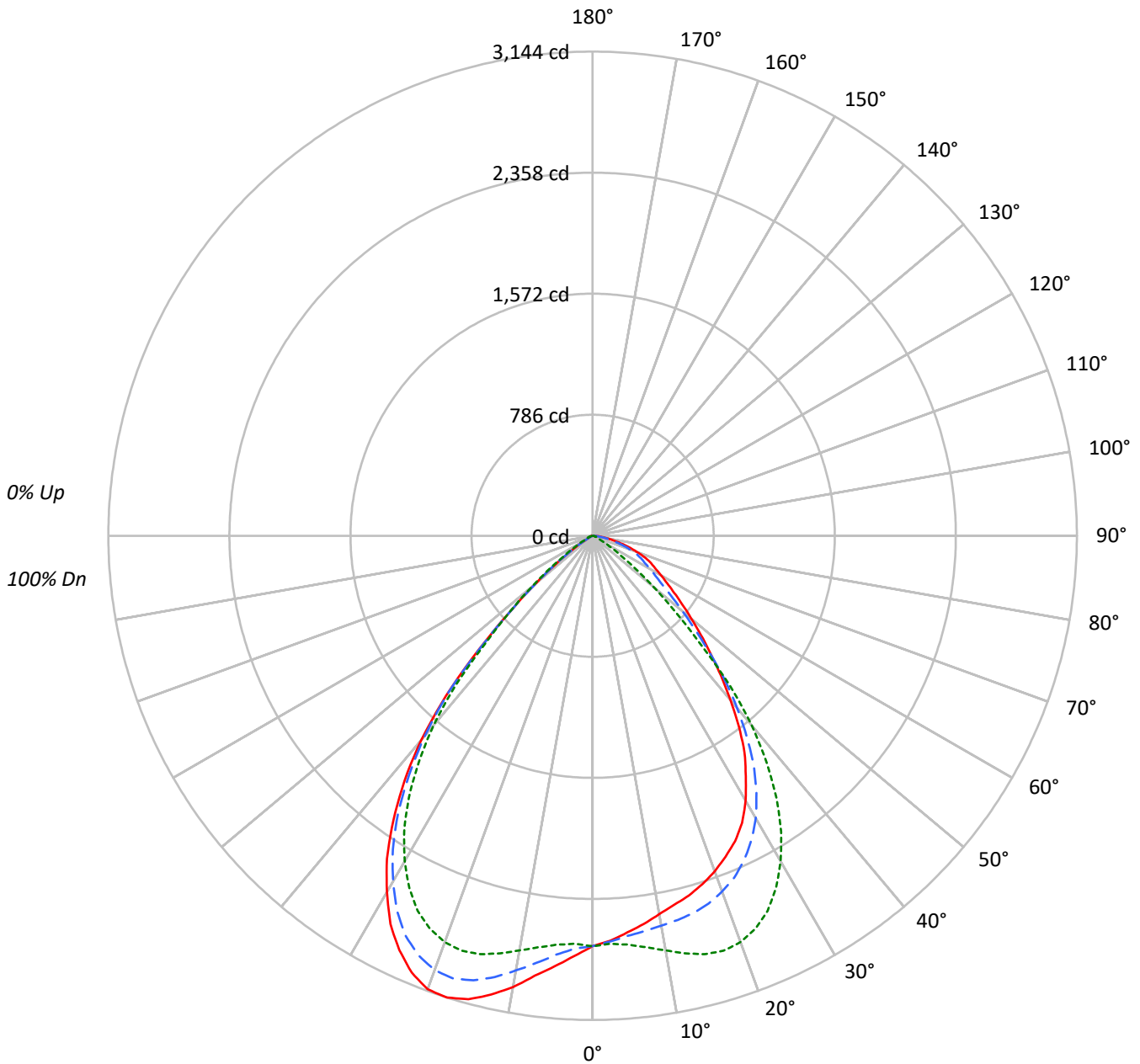
Lumens per Lamp: N/A
Luminaire Lumens: 4871.0 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P685020

CATALOG NUMBER: LX6C45D010 EX6459030 6LCSWLI

Luminous Intensity Polar Plot





TEST NUMBER: P685020

CATALOG NUMBER: LX6C45D010 EX6459030 6LCSWLI

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	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	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	146085	146085	146085
5°	142295	146643	154352
10°	138836	152168	165639
15°	137214	159626	176828
20°	135246	163785	182803
25°	132377	162572	179526
30°	125792	154498	169007
35°	115081	139294	150885
40°	99544	115037	123789
45°	83947	75450	80977
50°	71264	43674	41065
55°	61847	20941	15827
60°	55862	9769	3903
65°	54195	5617	1310
70°	48598	4504	1234
75°	39926	3241	551
80°	29739	1610	0
85°	25663	0	0



TEST NUMBER: P685020

CATALOG NUMBER: LX6C45D010 EX6459030 6LCSWLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.4	5.3
10°-20°	784.5	16.1
20°-30°	1198.6	24.6
30°-40°	1253.6	25.7
40°-50°	813.2	16.7
50°-60°	322.9	6.6
60°-70°	153.2	3.1
70°-80°	72.9	1.5
80°-90°	14.9	0.3
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°	2240.4	46.0
0°-40°	3494.0	71.7
0°-60°	4630.1	95.1
0°-90°	4871.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4871.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2665	2665	2665	2665	2665	
5°	2586	2609	2665	2731	2805	244
15°	2418	2535	2813	2988	3116	681
25°	2188	2326	2688	2869	2968	1002
35°	1720	1824	2081	2204	2255	1063
45°	1083	1072	973	1032	1044	842
55°	647	550	219	171	166	586
65°	418	346	43	10	10	408
75°	188	153	15	5	3	203
85°	41	26	0	0	0	47
90°	0	0	0	0	0	



TEST NUMBER: P685020

CATALOG NUMBER: LX6C45D010 EX6459030 6LCSWLI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2664.8	2664.8	2664.8	2664.8	2664.8	2664.8	2664.8	2664.8	2664.8	2664.8	2664.8
2.5°	2631.7	2636.8	2608.8	2601.2	2621.5	2629.1	2631.7	2624.0	2626.6	2636.8	2636.8
5°	2585.8	2590.9	2565.4	2557.8	2578.2	2583.3	2590.9	2588.4	2596.1	2611.3	2608.8
7.5°	2542.6	2550.2	2522.2	2512.0	2537.5	2550.2	2555.3	2555.3	2565.4	2585.8	2588.4
10°	2494.1	2504.3	2478.9	2473.7	2501.8	2514.5	2517.1	2522.2	2537.5	2565.4	2570.5
12.5°	2453.4	2463.6	2445.7	2438.1	2468.6	2481.4	2486.4	2496.7	2514.5	2550.2	2555.3
15°	2417.7	2425.3	2405.0	2399.9	2430.4	2445.7	2448.2	2463.6	2486.4	2527.2	2534.9
17.5°	2371.8	2376.9	2361.7	2356.6	2387.1	2402.4	2405.0	2422.8	2450.8	2491.6	2504.3
20°	2318.3	2323.5	2308.1	2303.1	2333.6	2351.4	2354.0	2369.3	2402.4	2445.7	2458.5
22.5°	2254.6	2264.9	2247.1	2241.9	2272.5	2287.8	2295.4	2308.1	2341.3	2384.6	2402.4
25°	2188.5	2188.5	2175.7	2173.1	2201.2	2219.0	2216.4	2234.2	2267.4	2310.7	2326.0
27.5°	2101.8	2099.2	2086.5	2084.0	2114.5	2129.9	2124.7	2142.6	2173.1	2216.4	2231.7
30°	1987.2	1992.3	1974.4	1969.3	1994.8	2020.3	2017.7	2035.5	2066.1	2106.9	2117.1
32.5°	1849.6	1854.7	1852.2	1844.5	1867.4	1880.1	1887.8	1900.5	1926.0	1969.3	1979.5
35°	1719.6	1712.0	1701.8	1701.8	1724.7	1745.1	1737.5	1752.8	1778.2	1821.5	1824.1
37.5°	1559.2	1556.6	1551.5	1546.4	1571.9	1577.0	1579.6	1589.7	1612.7	1648.3	1643.2
40°	1391.0	1393.5	1391.0	1380.8	1396.1	1416.5	1413.9	1419.1	1439.4	1464.8	1457.3
42.5°	1233.0	1233.0	1233.0	1222.9	1240.7	1250.9	1256.0	1253.4	1258.5	1281.5	1271.2
45°	1082.8	1085.3	1082.8	1080.2	1082.8	1087.9	1082.8	1080.2	1080.2	1087.9	1072.5
47.5°	952.8	952.8	945.2	937.5	945.2	947.7	940.1	932.5	929.9	927.4	901.9
50°	835.6	833.1	830.6	817.8	825.4	828.0	817.8	812.7	802.5	789.8	759.2
52.5°	733.8	731.2	728.6	715.9	721.0	723.5	713.4	703.1	690.4	680.2	642.0
55°	647.1	644.5	644.5	637.0	631.8	637.0	626.7	619.0	601.2	588.5	550.3
57.5°	573.2	573.2	568.1	560.4	563.0	563.0	552.9	542.6	527.3	512.1	481.5
60°	509.5	509.5	509.5	501.8	501.8	501.8	496.8	486.6	473.9	458.6	428.0
62.5°	458.6	458.6	456.0	448.4	450.9	450.9	445.8	435.7	422.9	412.7	382.2
65°	417.8	417.8	417.8	410.2	410.2	412.7	407.6	397.5	387.2	374.5	346.4
67.5°	366.8	364.3	364.3	359.2	361.8	364.3	359.2	351.6	338.9	331.2	305.7
70°	303.2	305.7	308.2	300.7	303.2	303.2	300.7	293.0	285.3	277.7	254.8
72.5°	247.1	247.1	244.6	242.1	242.1	244.6	239.5	231.8	226.7	221.7	203.8
75°	188.5	186.0	188.5	183.5	183.5	183.5	178.3	175.8	173.2	165.6	152.8
77.5°	137.6	135.0	135.0	129.9	132.5	132.5	129.9	124.9	119.7	117.2	107.0
80°	94.2	94.2	94.2	91.7	91.7	89.1	89.1	86.7	81.5	79.0	73.9
82.5°	63.7	63.7	63.7	61.2	61.2	61.2	58.6	56.0	53.5	50.9	45.9
85°	40.8	40.8	40.8	38.2	38.2	38.2	35.6	35.6	33.1	30.5	25.5
87.5°	22.9	22.9	22.9	20.4	20.4	20.4	20.4	20.4	17.8	15.3	12.7
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: P685020

CATALOG NUMBER: LX6C45D010 EX6459030 6LCSWLI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2664.8	2664.8	2664.8	2664.8	2664.8	2664.8	2664.8	2664.8	2664.8	2664.8	2664.8
2.5°	2654.6	2619.0	2641.8	2641.8	2634.3	2654.6	2667.4	2677.6	2675.0	2652.1	2649.5
5°	2634.3	2603.6	2629.1	2631.7	2624.0	2652.1	2669.9	2682.6	2685.2	2664.8	2667.4
7.5°	2619.0	2593.5	2626.6	2636.8	2634.3	2659.8	2680.1	2700.4	2710.7	2695.4	2698.0
10°	2611.3	2590.9	2626.6	2641.8	2644.4	2672.5	2703.0	2731.1	2743.8	2733.6	2741.2
12.5°	2601.2	2588.4	2629.1	2652.1	2662.2	2690.3	2728.5	2761.6	2782.0	2777.0	2792.2
15°	2590.9	2580.8	2629.1	2662.2	2675.0	2700.4	2743.8	2792.2	2815.2	2812.6	2833.0
17.5°	2565.4	2562.9	2613.9	2649.5	2667.4	2698.0	2738.7	2797.3	2820.2	2825.3	2850.8
20°	2524.7	2524.7	2580.8	2619.0	2639.4	2667.4	2718.4	2774.4	2802.4	2807.5	2835.6
22.5°	2468.6	2473.7	2527.2	2565.4	2596.1	2616.4	2669.9	2728.5	2754.0	2761.6	2792.2
25°	2394.8	2399.9	2450.8	2489.0	2522.2	2545.0	2596.1	2649.5	2680.1	2687.7	2710.7
27.5°	2298.0	2308.1	2356.6	2394.8	2422.8	2438.1	2491.6	2547.6	2570.5	2578.2	2601.2
30°	2185.9	2188.5	2236.8	2269.9	2298.0	2310.7	2356.6	2415.2	2433.0	2440.7	2473.7
32.5°	2048.3	2045.8	2091.6	2122.2	2145.1	2160.4	2208.8	2247.1	2264.9	2277.6	2295.4
35°	1882.7	1880.1	1913.3	1949.0	1966.8	1971.9	2020.3	2061.0	2071.3	2081.4	2104.4
37.5°	1696.8	1696.8	1724.7	1742.6	1762.9	1770.6	1793.6	1839.4	1857.2	1854.7	1872.5
40°	1500.6	1490.4	1510.7	1528.6	1533.7	1536.2	1559.2	1594.8	1607.5	1607.5	1620.3
42.5°	1294.2	1278.9	1281.5	1291.6	1296.7	1278.9	1294.2	1317.1	1309.4	1319.7	1322.3
45°	1075.1	1052.1	1042.0	1019.0	1024.2	1006.3	996.1	1001.2	998.7	973.2	978.3
47.5°	896.7	856.0	838.1	805.1	797.4	777.0	764.3	741.3	721.0	721.0	708.2
50°	746.5	705.7	670.0	631.8	619.0	601.2	573.2	542.6	527.3	512.1	499.4
52.5°	626.7	583.4	540.1	499.4	481.5	458.6	420.4	389.8	361.8	346.4	331.2
55°	529.9	481.5	435.7	392.3	369.4	346.4	308.2	272.6	239.5	219.1	206.3
57.5°	456.0	410.2	361.8	315.9	295.5	270.0	229.3	191.0	160.5	137.6	124.9
60°	402.5	356.7	313.4	265.0	244.6	219.1	175.8	140.1	109.5	89.1	73.9
62.5°	356.7	315.9	270.0	226.7	206.3	180.9	140.1	104.5	76.4	56.0	43.3
65°	323.6	282.8	244.6	201.3	183.5	158.0	119.7	86.7	61.2	43.3	30.5
67.5°	285.3	249.6	211.4	175.8	158.0	137.6	101.9	73.9	50.9	35.6	25.5
70°	239.5	211.4	178.3	145.3	132.5	114.6	84.1	61.2	40.8	28.1	20.4
72.5°	191.0	168.1	142.7	117.2	107.0	89.1	68.8	48.5	30.5	20.4	15.3
75°	145.3	127.4	107.0	89.1	79.0	68.8	50.9	35.6	22.9	15.3	10.1
77.5°	99.4	91.7	76.4	61.2	56.0	48.5	33.1	22.9	15.3	10.1	5.1
80°	68.8	61.2	50.9	40.8	35.6	30.5	20.4	15.3	7.7	5.1	2.6
82.5°	43.3	35.6	30.5	25.5	22.9	17.8	12.7	7.7	5.1	2.6	2.6
85°	22.9	20.4	17.8	12.7	12.7	10.1	7.7	5.1	2.6	0.0	0.0
87.5°	12.7	10.1	7.7	5.1	5.1	2.6	2.6	2.6	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: P685020

CATALOG NUMBER: LX6C45D010 EX6459030 6LCSWLI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2664.8	2664.8	2664.8	2664.8	2664.8	2664.8	2664.8	2664.8	2664.8	2664.8	2664.8
2.5°	2680.1	2680.1	2677.6	2708.1	2672.5	2708.1	2690.3	2708.1	2682.6	2680.1	2682.6
5°	2700.4	2708.1	2710.7	2738.7	2705.6	2748.9	2733.6	2748.9	2731.1	2736.2	2743.8
7.5°	2741.2	2754.0	2751.5	2787.1	2754.0	2802.4	2792.2	2815.2	2797.3	2802.4	2812.6
10°	2787.1	2802.4	2804.9	2840.6	2810.0	2868.6	2855.9	2881.3	2866.1	2873.8	2886.5
12.5°	2840.6	2858.4	2861.0	2901.7	2868.6	2929.8	2922.1	2947.6	2934.9	2942.5	2957.8
15°	2881.3	2906.8	2912.0	2952.7	2917.0	2980.7	2975.6	3008.8	2988.4	3001.1	3013.9
17.5°	2901.7	2924.7	2934.9	2973.1	2942.5	3006.2	3001.1	3029.2	3013.9	3026.6	3041.9
20°	2889.0	2917.0	2924.7	2962.9	2932.4	2996.0	2988.4	3016.4	3001.1	3011.3	3026.6
22.5°	2843.1	2871.2	2881.3	2917.0	2889.0	2947.6	2945.1	2970.6	2950.2	2962.9	2975.6
25°	2761.6	2792.2	2797.3	2830.4	2799.8	2861.0	2855.9	2883.9	2868.6	2876.3	2894.1
27.5°	2644.4	2680.1	2687.7	2715.8	2692.9	2743.8	2743.8	2766.7	2748.9	2748.9	2766.7
30°	2504.3	2540.0	2545.0	2568.0	2547.6	2593.5	2596.1	2619.0	2590.9	2606.2	2608.8
32.5°	2333.6	2356.6	2371.8	2392.2	2361.7	2420.3	2412.6	2430.4	2415.2	2415.2	2427.9
35°	2127.3	2155.3	2163.0	2188.5	2163.0	2208.8	2208.8	2219.0	2203.7	2203.7	2224.1
37.5°	1903.1	1923.5	1926.0	1951.5	1931.1	1969.3	1966.8	1974.4	1959.1	1969.3	1969.3
40°	1640.6	1656.0	1661.0	1673.8	1671.3	1699.2	1696.8	1701.8	1694.2	1696.8	1701.8
42.5°	1335.0	1355.3	1365.5	1375.7	1360.5	1398.7	1391.0	1398.7	1396.1	1398.7	1406.3
45°	983.4	998.7	1006.3	1008.9	1003.8	1026.7	1044.5	1029.3	1031.7	1026.7	1036.9
47.5°	710.8	713.4	708.2	723.5	710.8	721.0	726.1	728.6	713.4	710.8	721.0
50°	486.6	499.4	481.5	489.1	486.6	496.8	491.7	494.3	479.0	486.6	481.5
52.5°	323.6	321.0	315.9	318.5	313.4	313.4	313.4	318.5	308.2	303.2	298.1
55°	196.2	191.0	180.9	178.3	178.3	180.9	175.8	170.7	170.7	168.1	168.1
57.5°	114.6	107.0	101.9	99.4	94.2	91.7	89.1	89.1	84.1	84.1	84.1
60°	63.7	56.0	50.9	45.9	45.9	43.3	40.8	38.2	38.2	38.2	35.6
62.5°	33.1	28.1	22.9	20.4	20.4	17.8	15.3	15.3	15.3	15.3	12.7
65°	22.9	17.8	15.3	12.7	12.7	10.1	10.1	10.1	10.1	10.1	10.1
67.5°	17.8	15.3	12.7	10.1	10.1	10.1	7.7	7.7	7.7	7.7	7.7
70°	15.3	10.1	10.1	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
72.5°	10.1	10.1	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
75°	7.7	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
77.5°	2.6	2.6	2.6	2.6	2.6	2.6	0.0	0.0	0.0	0.0	0.0
80°	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	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	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: P685020

CATALOG NUMBER: LX6C45D010 EX6459030 6LCSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2664.8	2664.8	2664.8	2664.8	2664.8	2664.8	2664.8	2664.8
2.5°	2705.6	2703.0	2705.6	2710.7	2700.4	2731.1	2715.8	2731.1
5°	2764.2	2766.7	2769.3	2777.0	2764.2	2802.4	2782.0	2804.9
7.5°	2840.6	2843.1	2845.7	2853.4	2845.7	2883.9	2861.0	2881.3
10°	2919.6	2924.7	2924.7	2937.4	2929.8	2965.4	2950.2	2975.6
12.5°	2993.5	2998.5	3003.7	3011.3	3006.2	3044.4	3031.7	3052.1
15°	3052.1	3062.2	3064.8	3074.9	3069.9	3110.7	3095.3	3115.7
17.5°	3080.1	3090.3	3090.3	3103.0	3097.9	3141.2	3120.8	3143.8
20°	3064.8	3072.5	3074.9	3087.8	3082.6	3126.0	3105.6	3133.5
22.5°	3016.4	3018.9	3021.5	3034.2	3031.7	3069.9	3052.1	3069.9
25°	2927.2	2934.9	2932.4	2942.5	2942.5	2973.1	2952.7	2968.0
27.5°	2799.8	2807.5	2807.5	2820.2	2810.0	2840.6	2820.2	2843.1
30°	2644.4	2652.1	2647.0	2657.2	2647.0	2677.6	2662.2	2669.9
32.5°	2458.5	2458.5	2461.0	2463.6	2458.5	2486.4	2471.2	2486.4
35°	2236.8	2241.9	2244.5	2247.1	2241.9	2262.3	2244.5	2254.6
37.5°	1987.2	1999.9	1997.3	1999.9	1992.3	2017.7	2002.4	2007.6
40°	1719.6	1719.6	1717.1	1722.2	1714.6	1735.0	1724.7	1729.8
42.5°	1408.8	1416.5	1406.3	1419.1	1398.7	1426.6	1416.5	1408.8
45°	1057.3	1047.1	1044.5	1047.1	1039.4	1042.0	1049.7	1044.5
47.5°	721.0	721.0	715.9	708.2	718.4	721.0	710.8	710.8
50°	484.0	484.0	479.0	476.4	481.5	479.0	473.9	481.5
52.5°	308.2	298.1	298.1	303.2	298.1	293.0	300.7	295.5
55°	168.1	163.1	163.1	168.1	163.1	163.1	160.5	165.6
57.5°	81.5	84.1	81.5	81.5	81.5	81.5	79.0	81.5
60°	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6
62.5°	15.3	15.3	12.7	12.7	12.7	12.7	12.7	12.7
65°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
67.5°	7.7	7.7	7.7	7.7	7.7	10.1	7.7	7.7
70°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
72.5°	7.7	7.7	10.1	10.1	10.1	10.1	10.1	10.1
75°	5.1	5.1	5.1	2.6	2.6	2.6	2.6	2.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	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



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)