

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

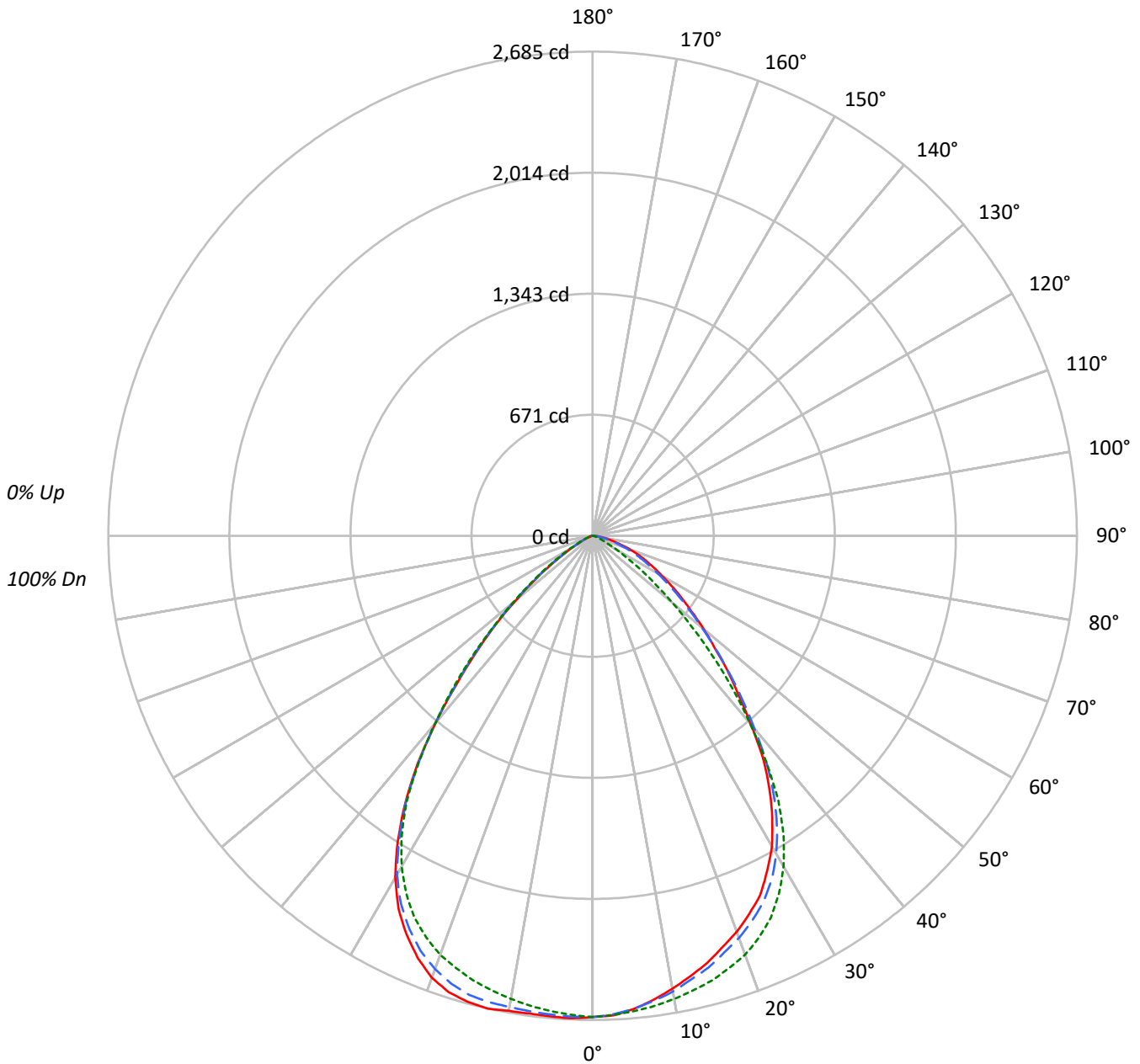
Lumens per Lamp: N/A
Luminaire Lumens: 4477.7 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

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°	146315	146315	146315
5°	144920	145625	147226
10°	141937	145160	148928
15°	139223	144893	151840
20°	136331	144230	152129
25°	132975	141353	147595
30°	125899	134052	138547
35°	114331	120160	121231
40°	97583	97111	96645
45°	81970	72721	70472
50°	68458	49209	46736
55°	57613	30183	27430
60°	48768	15909	13782
65°	42235	8367	6680
70°	35134	5161	3622
75°	25968	3410	2055
80°	20362	2020	1042
85°	16228	2076	0



TEST NUMBER: P563953

CATALOG NUMBER: LX6C45D010 EX6C459030 6LCSWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.5	5.6
10°-20°	720.2	16.1
20°-30°	1063.5	23.8
30°-40°	1096.0	24.5
40°-50°	757.0	16.9
50°-60°	373.1	8.3
60°-70°	151.2	3.4
70°-80°	53.9	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°	2035.3	45.5
0°-40°	3131.3	69.9
0°-60°	4261.5	95.2
0°-90°	4477.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4477.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2669	2669	2669	2669	2669	
5°	2634	2634	2646	2666	2675	249
15°	2453	2479	2553	2637	2675	691
25°	2198	2240	2337	2405	2440	1005
35°	1708	1750	1796	1805	1812	1059
45°	1057	1064	938	925	909	817
55°	603	580	316	297	287	545
65°	326	293	64	52	52	323
75°	123	103	16	10	10	138
85°	26	19	3	0	0	32
90°	0	0	0	0	0	



TEST NUMBER: P563953

CATALOG NUMBER: LX6C45D010 EX6C459030 6LCSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2669.0	2669.0	2669.0	2669.0	2669.0	2669.0	2669.0	2669.0	2669.0	2669.0	2669.0
2.5°	2662.5	2653.0	2659.4	2646.3	2662.5	2646.3	2649.6	2653.0	2649.6	2653.0	2656.1
5°	2633.5	2623.9	2633.5	2617.4	2633.5	2623.9	2623.9	2627.1	2627.1	2630.3	2633.5
7.5°	2594.9	2585.1	2594.9	2578.7	2598.0	2588.5	2588.5	2594.9	2591.6	2594.9	2601.3
10°	2549.8	2536.8	2546.5	2536.8	2556.2	2543.2	2549.8	2549.8	2549.8	2559.4	2565.9
12.5°	2501.4	2488.5	2501.4	2485.3	2504.5	2495.0	2498.1	2507.8	2511.0	2517.6	2520.7
15°	2453.1	2436.9	2443.3	2433.7	2453.1	2443.3	2446.6	2459.5	2459.5	2469.2	2478.8
17.5°	2391.8	2378.8	2391.8	2378.8	2395.0	2388.6	2395.0	2404.7	2404.7	2414.3	2424.0
20°	2336.9	2324.1	2333.8	2324.1	2343.4	2333.8	2336.9	2349.8	2353.0	2362.8	2372.4
22.5°	2269.3	2259.6	2266.0	2256.5	2275.7	2269.3	2272.5	2285.4	2288.7	2295.1	2311.2
25°	2198.4	2178.9	2188.7	2182.2	2201.6	2192.0	2198.4	2211.2	2217.8	2227.4	2240.3
27.5°	2095.2	2085.5	2092.0	2092.0	2108.0	2098.5	2101.6	2114.6	2124.2	2133.9	2150.0
30°	1988.9	1972.8	1979.2	1982.3	1995.3	1988.9	1995.3	2008.2	2011.4	2024.3	2037.1
32.5°	1853.5	1846.9	1860.0	1853.5	1860.0	1860.0	1863.1	1872.8	1879.2	1885.8	1901.9
35°	1708.4	1695.6	1708.4	1702.0	1718.2	1708.4	1718.2	1727.8	1727.8	1740.6	1750.4
37.5°	1550.4	1534.3	1540.8	1540.8	1547.2	1544.0	1544.0	1560.2	1563.3	1573.0	1582.7
40°	1363.6	1357.0	1370.0	1366.7	1370.0	1370.0	1373.1	1382.8	1389.3	1392.5	1395.8
42.5°	1195.9	1199.1	1202.3	1202.3	1202.3	1202.3	1202.3	1215.1	1212.0	1221.8	1224.9
45°	1057.3	1044.4	1050.8	1047.6	1057.3	1047.6	1057.3	1066.9	1060.5	1070.2	1063.7
47.5°	915.4	915.4	915.4	912.2	918.7	915.4	921.9	925.1	925.1	925.1	921.9
50°	802.7	793.0	796.2	796.2	799.4	796.2	802.7	805.8	805.8	799.4	786.6
52.5°	693.0	689.9	689.9	696.3	696.3	693.0	693.0	693.0	693.0	683.5	676.8
55°	602.8	596.4	599.5	599.5	599.5	599.5	602.8	599.5	599.5	589.9	580.2
57.5°	522.2	515.8	515.8	515.8	518.9	515.8	515.8	515.8	512.5	502.8	490.0
60°	444.8	441.6	444.8	444.8	448.0	444.8	444.8	444.8	438.4	428.7	415.7
62.5°	380.3	380.3	380.3	383.5	383.5	380.3	380.3	377.1	373.9	361.0	348.1
65°	325.6	322.4	325.6	325.6	328.8	328.8	325.6	322.4	319.2	306.2	293.4
67.5°	270.8	267.5	270.8	270.8	273.9	270.8	270.8	270.8	261.1	254.7	241.7
70°	219.2	216.1	216.1	216.1	219.2	212.7	216.1	216.1	209.5	199.9	187.0
72.5°	167.6	167.6	167.6	167.6	167.6	167.6	164.4	164.4	158.0	148.2	141.8
75°	122.6	122.6	125.7	125.7	122.6	122.6	122.6	119.3	116.0	109.6	103.1
77.5°	90.3	90.3	90.3	90.3	87.1	87.1	87.1	83.7	80.6	77.3	70.9
80°	64.5	64.5	64.5	61.2	64.5	61.2	61.2	61.2	54.8	51.5	48.3
82.5°	45.1	41.9	41.9	41.9	41.9	41.9	41.9	38.7	38.7	35.5	32.2
85°	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	22.6	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



TEST NUMBER: P563953

CATALOG NUMBER: LX6C45D010 EX6C459030 6LCSWH

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2669.0	2669.0	2669.0	2669.0	2669.0	2669.0	2669.0	2669.0	2669.0	2669.0	2669.0
2.5°	2656.1	2656.1	2662.5	2653.0	2669.0	2659.4	2656.1	2672.2	2662.5	2659.4	2665.8
5°	2633.5	2636.8	2639.9	2633.5	2649.6	2639.9	2639.9	2656.1	2649.6	2646.3	2656.1
7.5°	2604.5	2607.7	2614.1	2610.9	2623.9	2617.4	2620.7	2636.8	2630.3	2630.3	2639.9
10°	2569.0	2575.4	2582.0	2582.0	2598.0	2591.6	2591.6	2610.9	2604.5	2607.7	2620.7
12.5°	2527.1	2536.8	2546.5	2549.8	2565.9	2556.2	2559.4	2582.0	2578.7	2582.0	2594.9
15°	2482.0	2495.0	2504.5	2504.5	2524.0	2514.2	2524.0	2546.5	2540.1	2553.0	2569.0
17.5°	2430.5	2443.3	2456.2	2459.5	2478.8	2472.3	2485.3	2507.8	2507.8	2514.2	2533.6
20°	2382.1	2398.3	2404.7	2414.3	2433.7	2430.5	2436.9	2462.7	2462.7	2472.3	2491.7
22.5°	2317.6	2333.8	2346.6	2356.3	2372.4	2372.4	2382.1	2404.7	2404.7	2411.1	2430.5
25°	2246.7	2266.0	2275.7	2285.4	2301.5	2298.3	2307.9	2327.4	2330.5	2336.9	2356.3
27.5°	2156.5	2172.5	2185.6	2192.0	2214.4	2201.6	2211.2	2233.9	2230.6	2237.0	2253.2
30°	2043.7	2059.8	2072.6	2072.6	2092.0	2092.0	2101.6	2111.3	2111.3	2117.7	2130.7
32.5°	1911.4	1930.8	1930.8	1940.5	1953.4	1940.5	1953.4	1966.2	1959.8	1969.5	1979.2
35°	1760.0	1769.6	1772.9	1772.9	1782.6	1779.3	1776.0	1785.8	1779.3	1795.5	1805.1
37.5°	1576.3	1589.2	1582.7	1589.2	1585.8	1576.3	1576.3	1592.4	1579.4	1582.7	1592.4
40°	1399.0	1399.0	1395.8	1379.6	1382.8	1373.1	1370.0	1373.1	1360.3	1357.0	1370.0
42.5°	1215.1	1212.0	1202.3	1179.7	1182.9	1166.8	1154.0	1154.0	1147.5	1144.2	1147.5
45°	1050.8	1041.1	1025.0	999.3	992.8	979.9	954.1	947.6	938.0	938.0	941.2
47.5°	899.3	886.5	860.7	831.7	815.5	799.4	773.6	763.9	747.7	741.3	747.7
50°	773.6	751.1	718.9	676.8	660.8	641.4	615.6	599.5	583.4	577.0	573.7
52.5°	657.6	625.4	593.1	541.6	528.6	509.3	473.8	457.7	441.6	428.7	428.7
55°	557.6	528.6	483.6	435.2	415.7	396.5	361.0	338.4	322.4	315.8	309.4
57.5°	467.4	435.2	393.2	341.7	322.4	303.0	267.5	244.9	228.9	219.2	212.7
60°	393.2	357.9	315.8	270.8	248.3	228.9	193.5	170.8	154.7	145.1	138.5
62.5°	322.4	293.4	251.4	209.5	190.2	170.8	141.8	119.3	103.1	96.7	87.1
65°	270.8	241.7	203.0	167.6	151.6	132.1	106.4	87.1	74.2	64.5	58.1
67.5°	219.2	196.6	164.4	132.1	116.0	103.1	80.6	64.5	51.5	45.1	41.9
70°	174.0	151.6	125.7	99.9	90.3	77.3	61.2	45.1	38.7	32.2	29.0
72.5°	129.0	112.8	93.5	74.2	64.5	58.1	41.9	35.5	25.8	22.6	19.4
75°	93.5	80.6	67.6	51.5	45.1	41.9	32.2	22.6	19.4	16.1	12.8
77.5°	64.5	58.1	45.1	35.5	32.2	29.0	22.6	16.1	12.8	9.7	9.7
80°	41.9	35.5	29.0	22.6	22.6	19.4	12.8	9.7	9.7	6.4	6.4
82.5°	25.8	22.6	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



TEST NUMBER: P563953

CATALOG NUMBER: LX6C45D010 EX6C459030 6LCSWH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2669.0	2669.0	2669.0	2669.0	2669.0	2669.0	2669.0	2669.0	2669.0	2669.0	2669.0
2.5°	2665.8	2665.8	2672.2	2662.5	2669.0	2669.0	2675.4	2662.5	2669.0	2672.2	2678.6
5°	2653.0	2656.1	2662.5	2659.4	2662.5	2662.5	2669.0	2653.0	2665.8	2665.8	2675.4
7.5°	2639.9	2639.9	2646.3	2643.2	2649.6	2653.0	2659.4	2646.3	2659.4	2659.4	2669.0
10°	2623.9	2623.9	2633.5	2630.3	2639.9	2643.2	2653.0	2639.9	2653.0	2656.1	2665.8
12.5°	2601.3	2604.5	2614.1	2614.1	2623.9	2630.3	2639.9	2633.5	2649.6	2653.0	2665.8
15°	2575.4	2582.0	2594.9	2591.6	2601.3	2610.9	2623.9	2614.1	2636.8	2643.2	2656.1
17.5°	2543.2	2549.8	2559.4	2559.4	2569.0	2575.4	2591.6	2585.1	2604.5	2607.7	2623.9
20°	2495.0	2504.5	2517.6	2514.2	2524.0	2530.4	2543.2	2536.8	2556.2	2562.6	2578.7
22.5°	2436.9	2443.3	2453.1	2453.1	2462.7	2469.2	2482.0	2472.3	2491.7	2495.0	2507.8
25°	2359.6	2366.0	2372.4	2375.7	2385.2	2388.6	2395.0	2388.6	2404.7	2407.9	2424.0
27.5°	2259.6	2262.9	2272.5	2272.5	2278.9	2282.1	2291.9	2278.9	2301.5	2301.5	2311.2
30°	2140.3	2137.1	2150.0	2143.5	2150.0	2150.0	2159.7	2153.3	2169.4	2163.0	2172.5
32.5°	1982.3	1988.9	1988.9	1982.3	1995.3	1992.1	1992.1	1985.7	1995.3	1998.5	2004.9
35°	1798.7	1808.3	1808.3	1811.5	1814.8	1805.1	1808.3	1789.1	1805.1	1808.3	1811.5
37.5°	1598.8	1589.2	1595.6	1585.8	1602.0	1582.7	1582.7	1569.8	1582.7	1582.7	1585.8
40°	1370.0	1366.7	1373.1	1366.7	1363.6	1360.3	1353.9	1344.1	1357.0	1350.5	1360.3
42.5°	1154.0	1150.7	1150.7	1144.2	1141.1	1141.1	1134.7	1128.2	1125.0	1125.0	1141.1
45°	931.6	938.0	931.6	928.4	934.8	928.4	931.6	918.7	925.1	918.7	925.1
47.5°	744.6	747.7	741.3	734.9	744.6	734.9	734.9	725.3	738.2	738.2	731.7
50°	577.0	573.7	567.3	573.7	570.5	570.5	570.5	560.9	567.3	557.6	564.1
52.5°	425.5	422.3	422.3	419.1	422.3	419.1	419.1	415.7	415.7	412.6	415.7
55°	309.4	306.2	299.8	299.8	299.8	303.0	299.8	296.6	296.6	293.4	296.6
57.5°	209.5	203.0	203.0	203.0	203.0	199.9	199.9	196.6	199.9	196.6	199.9
60°	135.4	135.4	129.0	129.0	129.0	129.0	129.0	125.7	129.0	129.0	129.0
62.5°	83.7	83.7	80.6	77.3	80.6	77.3	77.3	77.3	80.6	77.3	80.6
65°	54.8	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5
67.5°	38.7	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	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6
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: P563953

CATALOG NUMBER: LX6C45D010 EX6C459030 6LCSWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2669.0	2669.0	2669.0	2669.0	2669.0	2669.0	2669.0	2669.0
2.5°	2669.0	2672.2	2665.8	2669.0	2662.5	2669.0	2672.2	2678.6
5°	2662.5	2665.8	2659.4	2665.8	2659.4	2665.8	2669.0	2675.4
7.5°	2656.1	2662.5	2656.1	2662.5	2656.1	2662.5	2665.8	2672.2
10°	2656.1	2665.8	2659.4	2669.0	2659.4	2665.8	2672.2	2675.4
12.5°	2656.1	2665.8	2662.5	2669.0	2665.8	2672.2	2678.6	2685.0
15°	2649.6	2659.4	2653.0	2662.5	2659.4	2662.5	2675.4	2675.4
17.5°	2614.1	2623.9	2623.9	2630.3	2630.3	2639.9	2646.3	2653.0
20°	2569.0	2578.7	2575.4	2585.1	2585.1	2594.9	2601.3	2607.7
22.5°	2501.4	2514.2	2511.0	2520.7	2517.6	2524.0	2536.8	2533.6
25°	2414.3	2430.5	2427.2	2433.7	2430.5	2430.5	2436.9	2440.1
27.5°	2307.9	2317.6	2314.3	2320.9	2314.3	2320.9	2327.4	2330.5
30°	2169.4	2175.8	2172.5	2175.8	2172.5	2178.9	2182.2	2188.7
32.5°	2001.7	2011.4	2001.7	2008.2	2004.9	2004.9	2017.9	2011.4
35°	1801.9	1805.1	1808.3	1808.3	1801.9	1805.1	1811.5	1811.5
37.5°	1579.4	1595.6	1576.3	1585.8	1582.7	1582.7	1582.7	1592.4
40°	1347.4	1350.5	1344.1	1344.1	1344.1	1340.9	1353.9	1350.5
42.5°	1128.2	1131.4	1128.2	1118.6	1121.8	1121.8	1131.4	1118.6
45°	915.4	921.9	918.7	918.7	912.2	912.2	915.4	909.0
47.5°	725.3	731.7	722.1	725.3	718.9	725.3	722.1	728.5
50°	551.1	557.6	554.5	557.6	557.6	551.1	560.9	548.0
52.5°	412.6	415.7	412.6	409.3	406.2	406.2	412.6	409.3
55°	293.4	290.1	290.1	290.1	293.4	293.4	290.1	287.0
57.5°	196.6	196.6	193.5	193.5	196.6	190.2	193.5	190.2
60°	125.7	125.7	125.7	125.7	122.6	125.7	125.7	125.7
62.5°	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
65°	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5
67.5°	32.2	35.5	35.5	35.5	32.2	32.2	32.2	32.2
70°	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6
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)