

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: P685005

Luminaire Tested: **LX6C40D010 EX6409040 6LCSWLI**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P685005
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: LX6C40D010 EX6409040 6LCSWLI
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LCSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

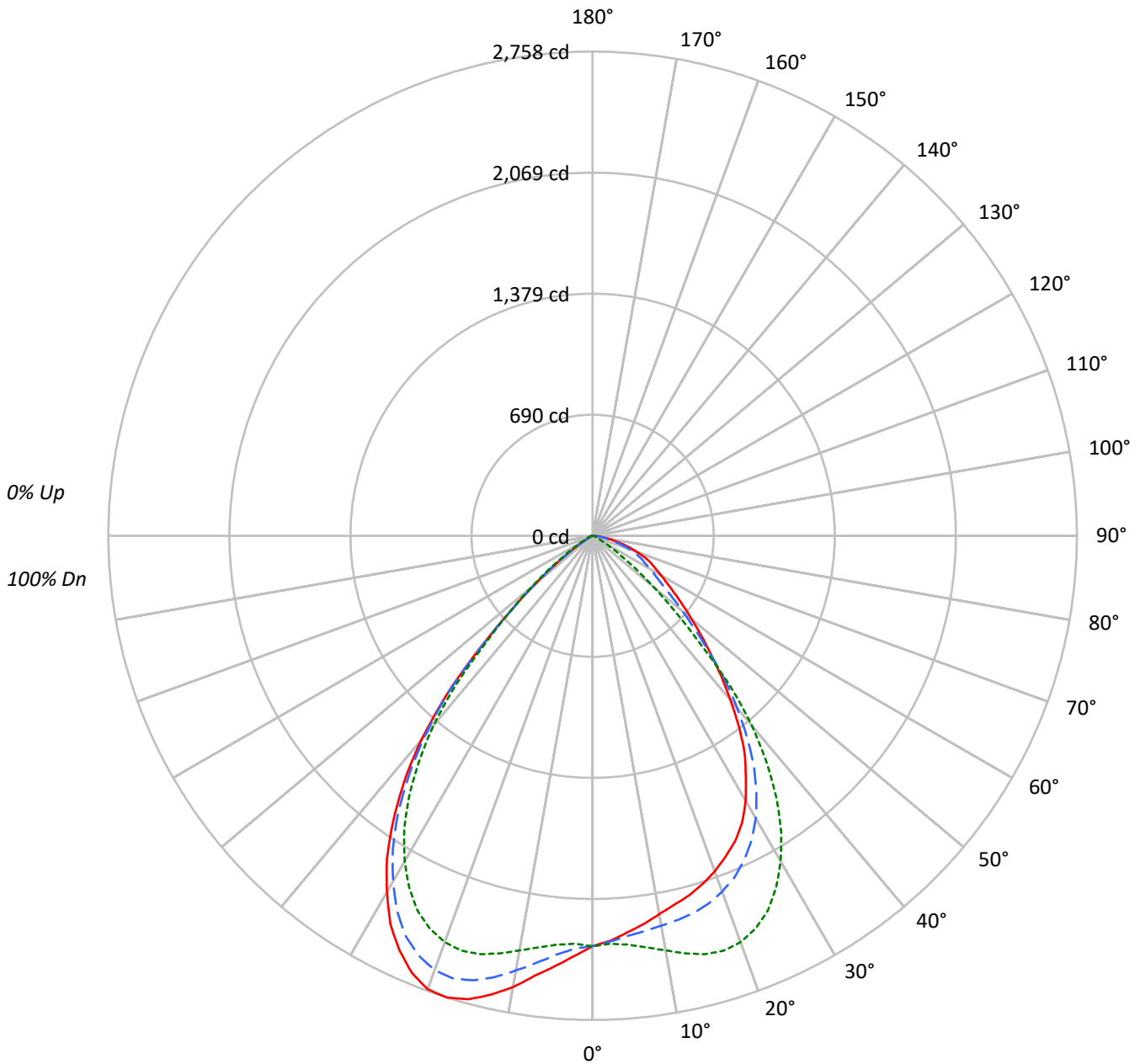
Lumens per Lamp: N/A
Luminaire Lumens: 4273.0 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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: P685005

CATALOG NUMBER: LX6C40D010 EX6409040 6LCSWLI

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			
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°	128153	128153	128153
5°	124829	128643	135406
10°	121791	133487	145305
15°	120370	140029	155120
20°	118643	143676	160361
25°	116124	142617	157485
30°	110346	135527	148257
35°	100953	122195	132360
40°	87321	100918	108589
45°	73643	66193	71038
50°	62522	38310	36024
55°	54259	18370	13878
60°	49009	8574	3421
65°	47541	4929	1154
70°	42619	3943	1074
75°	35033	2838	487
80°	26108	1421	0
85°	22518	0	0



TEST NUMBER: P685005

CATALOG NUMBER: LX6C40D010 EX6409040 6LCSWLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.8	5.3
10°-20°	688.1	16.1
20°-30°	1051.4	24.6
30°-40°	1099.7	25.7
40°-50°	713.4	16.7
50°-60°	283.2	6.6
60°-70°	134.4	3.1
70°-80°	63.9	1.5
80°-90°	13.0	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°	1965.4	46.0
0°-40°	3065.1	71.7
0°-60°	4061.7	95.1
0°-90°	4273.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4273.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2338	2338	2338	2338	2338	
5°	2268	2288	2338	2396	2461	214
15°	2121	2224	2467	2622	2733	598
25°	1920	2040	2358	2516	2604	879
35°	1508	1600	1826	1933	1978	933
45°	950	941	854	905	916	739
55°	568	483	192	150	145	514
65°	366	304	38	9	9	358
75°	165	134	13	4	2	178
85°	36	22	0	0	0	42
90°	0	0	0	0	0	



TEST NUMBER: P685005

CATALOG NUMBER: LX6C40D010 EX6409040 6LCSWLI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2337.7	2337.7	2337.7	2337.7	2337.7	2337.7	2337.7	2337.7	2337.7	2337.7	2337.7
2.5°	2308.6	2313.1	2288.5	2281.8	2299.7	2306.3	2308.6	2301.9	2304.2	2313.1	2313.1
5°	2268.4	2272.8	2250.5	2243.8	2261.7	2266.2	2272.8	2270.6	2277.4	2290.7	2288.5
7.5°	2230.4	2237.1	2212.5	2203.6	2226.0	2237.1	2241.6	2241.6	2250.5	2268.4	2270.6
10°	2187.9	2196.9	2174.6	2170.0	2194.6	2205.8	2208.1	2212.5	2226.0	2250.5	2254.9
12.5°	2152.2	2161.1	2145.5	2138.8	2165.6	2176.7	2181.2	2190.2	2205.8	2237.1	2241.6
15°	2120.9	2127.6	2109.7	2105.3	2132.0	2145.5	2147.7	2161.1	2181.2	2217.0	2223.7
17.5°	2080.6	2085.1	2071.7	2067.3	2094.1	2107.4	2109.7	2125.3	2149.9	2185.7	2196.9
20°	2033.7	2038.2	2024.8	2020.3	2047.1	2062.7	2065.0	2078.5	2107.4	2145.5	2156.7
22.5°	1977.8	1986.8	1971.2	1966.7	1993.5	2006.9	2013.6	2024.8	2053.8	2091.8	2107.4
25°	1919.8	1919.8	1908.6	1906.3	1931.0	1946.6	1944.3	1959.9	1989.0	2027.0	2040.4
27.5°	1843.8	1841.5	1830.3	1828.1	1854.9	1868.4	1863.8	1879.5	1906.3	1944.3	1957.8
30°	1743.2	1747.7	1732.0	1727.5	1749.9	1772.3	1770.0	1785.6	1812.4	1848.2	1857.2
32.5°	1622.5	1627.0	1624.8	1618.1	1638.1	1649.3	1656.0	1667.2	1689.5	1727.5	1736.5
35°	1508.5	1501.8	1492.9	1492.9	1513.0	1530.9	1524.2	1537.6	1559.9	1597.9	1600.2
37.5°	1367.7	1365.5	1361.0	1356.6	1378.9	1383.4	1385.6	1394.5	1414.7	1445.9	1441.5
40°	1220.2	1222.4	1220.2	1211.3	1224.7	1242.6	1240.3	1244.9	1262.7	1285.0	1278.4
42.5°	1081.6	1081.6	1081.6	1072.7	1088.4	1097.4	1101.8	1099.5	1104.0	1124.2	1115.2
45°	949.9	952.0	949.9	947.6	949.9	954.3	949.9	947.6	947.6	954.3	940.9
47.5°	835.9	835.9	829.1	822.4	829.1	831.3	824.7	818.0	815.7	813.5	791.2
50°	733.1	730.8	728.6	717.4	724.1	726.3	717.4	712.9	704.0	692.8	666.0
52.5°	643.7	641.4	639.1	628.0	632.5	634.7	625.8	616.8	605.6	596.7	563.2
55°	567.7	565.4	565.4	558.8	554.2	558.8	549.8	543.0	527.4	516.3	482.7
57.5°	502.8	502.8	498.4	491.6	493.9	493.9	485.0	476.0	462.6	449.2	422.4
60°	447.0	447.0	447.0	440.2	440.2	440.2	435.8	426.9	415.7	402.3	375.5
62.5°	402.3	402.3	400.0	393.4	395.5	395.5	391.1	382.2	371.0	362.0	335.2
65°	366.5	366.5	366.5	359.8	359.8	362.0	357.6	348.7	339.7	328.5	303.9
67.5°	321.8	319.6	319.6	315.1	317.3	319.6	315.1	308.4	297.3	290.6	268.2
70°	265.9	268.2	270.4	263.8	265.9	265.9	263.8	257.0	250.3	243.6	223.5
72.5°	216.8	216.8	214.5	212.3	212.3	214.5	210.1	203.4	198.9	194.5	178.7
75°	165.4	163.1	165.4	160.9	160.9	160.9	156.4	154.2	152.0	145.2	134.1
77.5°	120.7	118.4	118.4	114.0	116.3	116.3	114.0	109.5	105.0	102.8	93.8
80°	82.7	82.7	82.7	80.5	80.5	78.2	78.2	76.0	71.5	69.3	64.8
82.5°	55.9	55.9	55.9	53.7	53.7	53.7	51.4	49.1	47.0	44.7	40.2
85°	35.8	35.8	35.8	33.5	33.5	33.5	31.2	31.2	29.1	26.8	22.3
87.5°	20.1	20.1	20.1	17.9	17.9	17.9	17.9	17.9	15.6	13.4	11.2
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: P685005

CATALOG NUMBER: LX6C40D010 EX6409040 6LCSWLI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2337.7	2337.7	2337.7	2337.7	2337.7	2337.7	2337.7	2337.7	2337.7	2337.7	2337.7
2.5°	2328.7	2297.4	2317.5	2317.5	2310.9	2328.7	2339.9	2348.8	2346.6	2326.5	2324.2
5°	2310.9	2284.0	2306.3	2308.6	2301.9	2326.5	2342.1	2353.3	2355.6	2337.7	2339.9
7.5°	2297.4	2275.1	2304.2	2313.1	2310.9	2333.2	2351.1	2368.9	2377.9	2364.5	2366.7
10°	2290.7	2272.8	2304.2	2317.5	2319.8	2344.4	2371.2	2395.8	2407.0	2398.0	2404.7
12.5°	2281.8	2270.6	2306.3	2326.5	2335.4	2360.0	2393.5	2422.6	2440.5	2436.0	2449.4
15°	2272.8	2263.9	2306.3	2335.4	2346.6	2368.9	2407.0	2449.4	2469.6	2467.3	2485.2
17.5°	2250.5	2248.3	2293.0	2324.2	2339.9	2366.7	2402.4	2453.8	2474.0	2478.5	2500.8
20°	2214.8	2214.8	2263.9	2297.4	2315.3	2339.9	2384.6	2433.8	2458.4	2462.8	2487.4
22.5°	2165.6	2170.0	2217.0	2250.5	2277.4	2295.2	2342.1	2393.5	2415.9	2422.6	2449.4
25°	2100.8	2105.3	2149.9	2183.5	2212.5	2232.6	2277.4	2324.2	2351.1	2357.8	2377.9
27.5°	2015.9	2024.8	2067.3	2100.8	2125.3	2138.8	2185.7	2234.9	2254.9	2261.7	2281.8
30°	1917.5	1919.8	1962.2	1991.3	2015.9	2027.0	2067.3	2118.7	2134.3	2141.0	2170.0
32.5°	1796.8	1794.6	1834.9	1861.7	1881.7	1895.2	1937.6	1971.2	1986.8	1998.0	2013.6
35°	1651.6	1649.3	1678.4	1709.7	1725.3	1729.8	1772.3	1808.0	1817.0	1825.9	1846.0
37.5°	1488.5	1488.5	1513.0	1528.7	1546.5	1553.2	1573.4	1613.6	1629.2	1627.0	1642.6
40°	1316.3	1307.4	1325.2	1341.0	1345.4	1347.6	1367.7	1399.0	1410.2	1410.2	1421.3
42.5°	1135.3	1121.9	1124.2	1133.1	1137.5	1121.9	1135.3	1155.4	1148.7	1157.7	1159.9
45°	943.1	923.0	914.1	893.9	898.4	882.7	873.8	878.3	876.1	853.8	858.2
47.5°	786.6	750.9	735.2	706.3	699.5	681.6	670.5	650.3	632.5	632.5	621.3
50°	654.9	619.1	587.7	554.2	543.0	527.4	502.8	476.0	462.6	449.2	438.1
52.5°	549.8	511.8	473.8	438.1	422.4	402.3	368.8	342.0	317.3	303.9	290.6
55°	464.8	422.4	382.2	344.1	324.1	303.9	270.4	239.1	210.1	192.2	181.0
57.5°	400.0	359.8	317.3	277.1	259.2	236.9	201.2	167.6	140.8	120.7	109.5
60°	353.1	312.9	274.9	232.4	214.5	192.2	154.2	122.9	96.1	78.2	64.8
62.5°	312.9	277.1	236.9	198.9	181.0	158.7	122.9	91.6	67.0	49.1	38.0
65°	283.8	248.0	214.5	176.6	160.9	138.6	105.0	76.0	53.7	38.0	26.8
67.5°	250.3	219.0	185.5	154.2	138.6	120.7	89.4	64.8	44.7	31.2	22.3
70°	210.1	185.5	156.4	127.4	116.3	100.5	73.8	53.7	35.8	24.6	17.9
72.5°	167.6	147.5	125.2	102.8	93.8	78.2	60.3	42.5	26.8	17.9	13.4
75°	127.4	111.7	93.8	78.2	69.3	60.3	44.7	31.2	20.1	13.4	8.9
77.5°	87.2	80.5	67.0	53.7	49.1	42.5	29.1	20.1	13.4	8.9	4.5
80°	60.3	53.7	44.7	35.8	31.2	26.8	17.9	13.4	6.7	4.5	2.3
82.5°	38.0	31.2	26.8	22.3	20.1	15.6	11.2	6.7	4.5	2.3	2.3
85°	20.1	17.9	15.6	11.2	11.2	8.9	6.7	4.5	2.3	0.0	0.0
87.5°	11.2	8.9	6.7	4.5	4.5	2.3	2.3	2.3	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: P685005

CATALOG NUMBER: LX6C40D010 EX6409040 6LCSWLI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2337.7	2337.7	2337.7	2337.7	2337.7	2337.7	2337.7	2337.7	2337.7	2337.7	2337.7
2.5°	2351.1	2351.1	2348.8	2375.6	2344.4	2375.6	2360.0	2375.6	2353.3	2351.1	2353.3
5°	2368.9	2375.6	2377.9	2402.4	2373.5	2411.4	2398.0	2411.4	2395.8	2400.3	2407.0
7.5°	2404.7	2415.9	2413.7	2444.9	2415.9	2458.4	2449.4	2469.6	2453.8	2458.4	2467.3
10°	2444.9	2458.4	2460.6	2491.9	2465.0	2516.4	2505.3	2527.6	2514.2	2521.0	2532.1
12.5°	2491.9	2507.5	2509.8	2545.5	2516.4	2570.1	2563.4	2585.7	2574.6	2581.3	2594.7
15°	2527.6	2549.9	2554.5	2590.2	2558.9	2614.8	2610.3	2639.4	2621.5	2632.7	2643.8
17.5°	2545.5	2565.6	2574.6	2608.1	2581.3	2637.1	2632.7	2657.3	2643.8	2655.0	2668.5
20°	2534.3	2558.9	2565.6	2599.2	2572.4	2628.2	2621.5	2646.1	2632.7	2641.6	2655.0
22.5°	2494.1	2518.7	2527.6	2558.9	2534.3	2585.7	2583.5	2605.9	2588.0	2599.2	2610.3
25°	2422.6	2449.4	2453.8	2482.9	2456.1	2509.8	2505.3	2529.9	2516.4	2523.1	2538.8
27.5°	2319.8	2351.1	2357.8	2382.4	2362.3	2407.0	2407.0	2427.0	2411.4	2411.4	2427.0
30°	2196.9	2228.1	2232.6	2252.8	2234.9	2275.1	2277.4	2297.4	2272.8	2286.3	2288.5
32.5°	2047.1	2067.3	2080.6	2098.5	2071.7	2123.1	2116.4	2132.0	2118.7	2118.7	2129.9
35°	1866.1	1890.7	1897.4	1919.8	1897.4	1937.6	1937.6	1946.6	1933.1	1933.1	1951.0
37.5°	1669.5	1687.4	1689.5	1711.9	1694.0	1727.5	1725.3	1732.0	1718.6	1727.5	1727.5
40°	1439.2	1452.7	1457.1	1468.3	1466.1	1490.6	1488.5	1492.9	1486.2	1488.5	1492.9
42.5°	1171.1	1188.9	1197.9	1206.8	1193.4	1227.0	1220.2	1227.0	1224.7	1227.0	1233.7
45°	862.7	876.1	882.7	885.0	880.6	900.6	916.3	902.9	905.1	900.6	909.6
47.5°	623.5	625.8	621.3	634.7	623.5	632.5	637.0	639.1	625.8	623.5	632.5
50°	426.9	438.1	422.4	429.1	426.9	435.8	431.3	433.6	420.2	426.9	422.4
52.5°	283.8	281.6	277.1	279.4	274.9	274.9	274.9	279.4	270.4	265.9	261.5
55°	172.1	167.6	158.7	156.4	156.4	158.7	154.2	149.8	149.8	147.5	147.5
57.5°	100.5	93.8	89.4	87.2	82.7	80.5	78.2	78.2	73.8	73.8	73.8
60°	55.9	49.1	44.7	40.2	40.2	38.0	35.8	33.5	33.5	33.5	31.2
62.5°	29.1	24.6	20.1	17.9	17.9	15.6	13.4	13.4	13.4	13.4	11.2
65°	20.1	15.6	13.4	11.2	11.2	8.9	8.9	8.9	8.9	8.9	8.9
67.5°	15.6	13.4	11.2	8.9	8.9	8.9	6.7	6.7	6.7	6.7	6.7
70°	13.4	8.9	8.9	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
72.5°	8.9	8.9	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
75°	6.7	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
77.5°	2.3	2.3	2.3	2.3	2.3	2.3	0.0	0.0	0.0	0.0	0.0
80°	2.3	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: P685005

CATALOG NUMBER: LX6C40D010 EX6409040 6LCSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2337.7	2337.7	2337.7	2337.7	2337.7	2337.7	2337.7	2337.7
2.5°	2373.5	2371.2	2373.5	2377.9	2368.9	2395.8	2382.4	2395.8
5°	2424.9	2427.0	2429.3	2436.0	2424.9	2458.4	2440.5	2460.6
7.5°	2491.9	2494.1	2496.3	2503.1	2496.3	2529.9	2509.8	2527.6
10°	2561.2	2565.6	2565.6	2576.8	2570.1	2601.3	2588.0	2610.3
12.5°	2626.0	2630.4	2634.9	2641.6	2637.1	2670.6	2659.5	2677.4
15°	2677.4	2686.3	2688.5	2697.4	2693.0	2728.8	2715.3	2733.2
17.5°	2702.0	2710.9	2710.9	2722.1	2717.6	2755.6	2737.7	2757.8
20°	2688.5	2695.3	2697.4	2708.7	2704.2	2742.2	2724.3	2748.8
22.5°	2646.1	2648.3	2650.6	2661.7	2659.5	2693.0	2677.4	2693.0
25°	2567.8	2574.6	2572.4	2581.3	2581.3	2608.1	2590.2	2603.6
27.5°	2456.1	2462.8	2462.8	2474.0	2465.0	2491.9	2474.0	2494.1
30°	2319.8	2326.5	2322.1	2331.0	2322.1	2348.8	2335.4	2342.1
32.5°	2156.7	2156.7	2158.8	2161.1	2156.7	2181.2	2167.8	2181.2
35°	1962.2	1966.7	1968.9	1971.2	1966.7	1984.5	1968.9	1977.8
37.5°	1743.2	1754.4	1752.1	1754.4	1747.7	1770.0	1756.6	1761.1
40°	1508.5	1508.5	1506.3	1510.8	1504.1	1522.0	1513.0	1517.4
42.5°	1235.9	1242.6	1233.7	1244.9	1227.0	1251.5	1242.6	1235.9
45°	927.5	918.5	916.3	918.5	911.8	914.1	920.8	916.3
47.5°	632.5	632.5	628.0	621.3	630.2	632.5	623.5	623.5
50°	424.6	424.6	420.2	417.9	422.4	420.2	415.7	422.4
52.5°	270.4	261.5	261.5	265.9	261.5	257.0	263.8	259.2
55°	147.5	143.0	143.0	147.5	143.0	143.0	140.8	145.2
57.5°	71.5	73.8	71.5	71.5	71.5	71.5	69.3	71.5
60°	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2
62.5°	13.4	13.4	11.2	11.2	11.2	11.2	11.2	11.2
65°	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
67.5°	6.7	6.7	6.7	6.7	6.7	8.9	6.7	6.7
70°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
72.5°	6.7	6.7	8.9	8.9	8.9	8.9	8.9	8.9
75°	4.5	4.5	4.5	2.3	2.3	2.3	2.3	2.3
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)