

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: P684282

Luminaire Tested: **LX6C40D010 EX6C409050 6LCSWH**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P684282
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: LX6C40D010 EX6C409050 6LCSWH
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

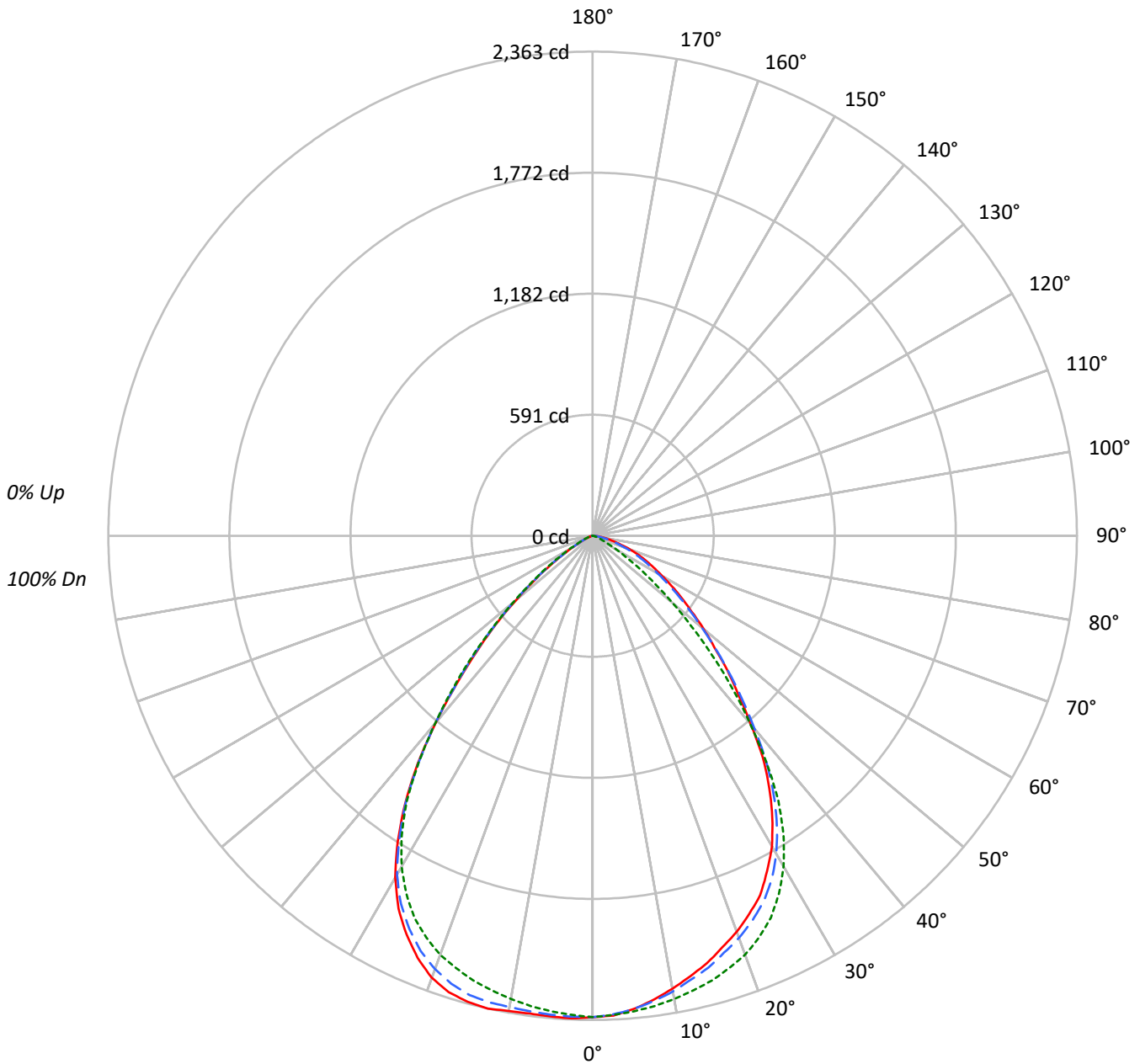
Lumens per Lamp: N/A
Luminaire Lumens: 3941.0 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P684282

CATALOG NUMBER: LX6C40D010 EX6C409050 6LCSWH

Luminous Intensity Polar Plot





TEST NUMBER: P684282

CATALOG NUMBER: LX6C40D010 EX6C409050 6LCSWH

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	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°	128778	128778	128778
5°	127553	128175	129584
10°	124920	127759	131082
15°	122532	127521	133644
20°	119990	126944	133892
25°	117037	124410	129903
30°	110808	117987	121936
35°	100626	105752	106702
40°	85882	85474	85067
45°	72139	63999	62022
50°	60254	43308	41133
55°	50713	26570	24133
60°	42924	14001	12126
65°	37176	7368	5876
70°	30919	4552	3174
75°	22854	3008	1800
80°	17932	1799	916
85°	14278	1824	0



TEST NUMBER: P684282

CATALOG NUMBER: LX6C40D010 EX6C409050 6LCSWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.4	5.6
10°-20°	633.9	16.1
20°-30°	936.0	23.8
30°-40°	964.7	24.5
40°-50°	666.3	16.9
50°-60°	328.4	8.3
60°-70°	133.1	3.4
70°-80°	47.4	1.2
80°-90°	9.8	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°	1791.3	45.5
0°-40°	2756.0	69.9
0°-60°	3750.7	95.2
0°-90°	3941.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3941.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2349	2349	2349	2349	2349	
5°	2318	2318	2329	2346	2355	219
15°	2159	2182	2247	2321	2355	608
25°	1935	1972	2057	2116	2148	885
35°	1504	1540	1580	1589	1594	932
45°	930	936	826	814	800	719
55°	531	511	278	261	252	479
65°	287	258	57	45	45	285
75°	108	91	14	8	8	121
85°	23	17	3	0	0	28
90°	0	0	0	0	0	



TEST NUMBER: P684282

CATALOG NUMBER: LX6C40D010 EX6C409050 6LCSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2349.1	2349.1	2349.1	2349.1	2349.1	2349.1	2349.1	2349.1	2349.1	2349.1	2349.1
2.5°	2343.4	2334.9	2340.6	2329.2	2343.4	2329.2	2332.1	2334.9	2332.1	2334.9	2337.7
5°	2317.9	2309.3	2317.9	2303.7	2317.9	2309.3	2309.3	2312.2	2312.2	2315.0	2317.9
7.5°	2283.8	2275.3	2283.8	2269.6	2286.6	2278.2	2278.2	2283.8	2280.9	2283.8	2289.5
10°	2244.1	2232.7	2241.3	2232.7	2249.8	2238.4	2244.1	2244.1	2244.1	2252.6	2258.3
12.5°	2201.6	2190.2	2201.6	2187.4	2204.3	2195.9	2198.7	2207.2	2210.0	2215.8	2218.5
15°	2159.0	2144.8	2150.5	2141.9	2159.0	2150.5	2153.4	2164.7	2164.7	2173.2	2181.7
17.5°	2105.1	2093.7	2105.1	2093.7	2107.9	2102.2	2107.9	2116.4	2116.4	2125.0	2133.4
20°	2056.8	2045.5	2054.0	2045.5	2062.6	2054.0	2056.8	2068.2	2071.0	2079.5	2088.1
22.5°	1997.3	1988.7	1994.4	1986.0	2002.9	1997.3	2000.2	2011.5	2014.3	2020.0	2034.2
25°	1934.9	1917.8	1926.3	1920.7	1937.7	1929.2	1934.9	1946.2	1951.9	1960.4	1971.8
27.5°	1844.1	1835.5	1841.2	1841.2	1855.4	1847.0	1849.7	1861.1	1869.6	1878.1	1892.3
30°	1750.5	1736.3	1742.0	1744.7	1756.2	1750.5	1756.2	1767.5	1770.3	1781.7	1793.0
32.5°	1631.3	1625.6	1637.0	1631.3	1637.0	1637.0	1639.8	1648.3	1654.0	1659.7	1673.9
35°	1503.6	1492.3	1503.6	1498.0	1512.2	1503.6	1512.2	1520.7	1520.7	1532.0	1540.5
37.5°	1364.6	1350.4	1356.1	1356.1	1361.7	1359.0	1359.0	1373.2	1375.9	1384.5	1393.0
40°	1200.1	1194.4	1205.8	1202.9	1205.8	1205.8	1208.5	1217.1	1222.7	1225.6	1228.5
42.5°	1052.6	1055.3	1058.2	1058.2	1058.2	1058.2	1058.2	1069.5	1066.8	1075.3	1078.1
45°	930.5	919.2	924.9	922.1	930.5	922.1	930.5	939.1	933.4	941.9	936.2
47.5°	805.7	805.7	805.7	802.9	808.6	805.7	811.3	814.2	814.2	814.2	811.3
50°	706.5	697.9	700.7	700.7	703.6	700.7	706.5	709.2	709.2	703.6	692.3
52.5°	609.9	607.2	607.2	612.8	612.8	609.9	609.9	609.9	609.9	601.5	595.7
55°	530.6	524.9	527.7	527.7	527.7	527.7	530.6	527.7	527.7	519.1	510.7
57.5°	459.6	453.9	453.9	453.9	456.7	453.9	453.9	453.9	451.1	442.5	431.2
60°	391.5	388.7	391.5	391.5	394.3	391.5	391.5	391.5	385.9	377.3	365.9
62.5°	334.8	334.8	334.8	337.6	337.6	334.8	334.8	331.9	329.1	317.7	306.4
65°	286.6	283.7	286.6	286.6	289.3	289.3	286.6	283.7	280.9	269.5	258.2
67.5°	238.3	235.5	238.3	238.3	241.1	238.3	238.3	238.3	229.8	224.1	212.7
70°	192.9	190.1	190.1	190.1	192.9	187.2	190.1	190.1	184.5	175.9	164.5
72.5°	147.5	147.5	147.5	147.5	147.5	147.5	144.7	144.7	139.0	130.5	124.8
75°	107.9	107.9	110.6	110.6	107.9	107.9	107.9	105.0	102.1	96.4	90.8
77.5°	79.5	79.5	79.5	79.5	76.6	76.6	76.6	73.7	70.9	68.1	62.4
80°	56.8	56.8	56.8	53.9	56.8	53.9	53.9	53.9	48.2	45.3	42.6
82.5°	39.7	36.9	36.9	36.9	36.9	36.9	36.9	34.0	34.0	31.3	28.4
85°	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	19.8	17.1	17.1
87.5°	11.3	14.2	14.2	14.2	14.2	14.2	14.2	11.3	11.3	11.3	8.5
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: P684282

CATALOG NUMBER: LX6C40D010 EX6C409050 6LCSWH

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2349.1	2349.1	2349.1	2349.1	2349.1	2349.1	2349.1	2349.1	2349.1	2349.1	2349.1
2.5°	2337.7	2337.7	2343.4	2334.9	2349.1	2340.6	2337.7	2351.9	2343.4	2340.6	2346.2
5°	2317.9	2320.7	2323.5	2317.9	2332.1	2323.5	2323.5	2337.7	2332.1	2329.2	2337.7
7.5°	2292.4	2295.1	2300.8	2298.0	2309.3	2303.7	2306.6	2320.7	2315.0	2315.0	2323.5
10°	2261.1	2266.8	2272.5	2272.5	2286.6	2280.9	2280.9	2298.0	2292.4	2295.1	2306.6
12.5°	2224.2	2232.7	2241.3	2244.1	2258.3	2249.8	2252.6	2272.5	2269.6	2272.5	2283.8
15°	2184.5	2195.9	2204.3	2204.3	2221.4	2212.9	2221.4	2241.3	2235.6	2246.9	2261.1
17.5°	2139.2	2150.5	2161.8	2164.7	2181.7	2176.0	2187.4	2207.2	2207.2	2212.9	2230.0
20°	2096.6	2110.8	2116.4	2125.0	2141.9	2139.2	2144.8	2167.5	2167.5	2176.0	2193.0
22.5°	2039.8	2054.0	2065.3	2073.9	2088.1	2088.1	2096.6	2116.4	2116.4	2122.1	2139.2
25°	1977.4	1994.4	2002.9	2011.5	2025.6	2022.8	2031.3	2048.4	2051.1	2056.8	2073.9
27.5°	1897.9	1912.1	1923.6	1929.2	1949.0	1937.7	1946.2	1966.1	1963.2	1968.9	1983.1
30°	1798.7	1812.9	1824.2	1824.2	1841.2	1841.2	1849.7	1858.3	1858.3	1863.9	1875.3
32.5°	1682.3	1699.4	1699.4	1707.9	1719.2	1707.9	1719.2	1730.6	1724.9	1733.4	1742.0
35°	1549.0	1557.5	1560.4	1560.4	1568.9	1566.0	1563.2	1571.7	1566.0	1580.2	1588.8
37.5°	1387.3	1398.7	1393.0	1398.7	1395.8	1387.3	1387.3	1401.5	1390.1	1393.0	1401.5
40°	1231.3	1231.3	1228.5	1214.3	1217.1	1208.5	1205.8	1208.5	1197.2	1194.4	1205.8
42.5°	1069.5	1066.8	1058.2	1038.4	1041.1	1027.0	1015.7	1015.7	1010.0	1007.1	1010.0
45°	924.9	916.3	902.1	879.5	873.8	862.5	839.7	834.1	825.5	825.5	828.4
47.5°	791.5	780.2	757.5	732.0	717.8	703.6	680.9	672.3	658.1	652.5	658.1
50°	680.9	661.0	632.6	595.7	581.5	564.6	541.9	527.7	513.5	507.8	504.9
52.5°	578.8	550.4	522.0	476.7	465.3	448.3	417.0	402.8	388.7	377.3	377.3
55°	490.8	465.3	425.6	383.0	365.9	349.0	317.7	297.9	283.7	278.0	272.4
57.5°	411.4	383.0	346.1	300.7	283.7	266.7	235.5	215.6	201.4	192.9	187.2
60°	346.1	314.9	278.0	238.3	218.5	201.4	170.3	150.3	136.1	127.7	121.9
62.5°	283.7	258.2	221.3	184.5	167.4	150.3	124.8	105.0	90.8	85.1	76.6
65°	238.3	212.7	178.7	147.5	133.4	116.3	93.7	76.6	65.3	56.8	51.1
67.5°	192.9	173.0	144.7	116.3	102.1	90.8	70.9	56.8	45.3	39.7	36.9
70°	153.2	133.4	110.6	87.9	79.5	68.1	53.9	39.7	34.0	28.4	25.5
72.5°	113.5	99.3	82.3	65.3	56.8	51.1	36.9	31.3	22.7	19.8	17.1
75°	82.3	70.9	59.5	45.3	39.7	36.9	28.4	19.8	17.1	14.2	11.3
77.5°	56.8	51.1	39.7	31.3	28.4	25.5	19.8	14.2	11.3	8.5	8.5
80°	36.9	31.3	25.5	19.8	19.8	17.1	11.3	8.5	8.5	5.7	5.7
82.5°	22.7	19.8	17.1	14.2	11.3	11.3	8.5	5.7	5.7	2.9	2.9
85°	14.2	11.3	8.5	8.5	5.7	5.7	5.7	2.9	2.9	2.9	2.9
87.5°	5.7	5.7	5.7	2.9	2.9	2.9	2.9	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: P684282

CATALOG NUMBER: LX6C40D010 EX6C409050 6LCSWH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2349.1	2349.1	2349.1	2349.1	2349.1	2349.1	2349.1	2349.1	2349.1	2349.1	2349.1
2.5°	2346.2	2346.2	2351.9	2343.4	2349.1	2349.1	2354.8	2343.4	2349.1	2351.9	2357.5
5°	2334.9	2337.7	2343.4	2340.6	2343.4	2343.4	2349.1	2334.9	2346.2	2346.2	2354.8
7.5°	2323.5	2323.5	2329.2	2326.4	2332.1	2334.9	2340.6	2329.2	2340.6	2340.6	2349.1
10°	2309.3	2309.3	2317.9	2315.0	2323.5	2326.4	2334.9	2323.5	2334.9	2337.7	2346.2
12.5°	2289.5	2292.4	2300.8	2300.8	2309.3	2315.0	2323.5	2317.9	2332.1	2334.9	2346.2
15°	2266.8	2272.5	2283.8	2280.9	2289.5	2298.0	2309.3	2300.8	2320.7	2326.4	2337.7
17.5°	2238.4	2244.1	2252.6	2252.6	2261.1	2266.8	2280.9	2275.3	2292.4	2295.1	2309.3
20°	2195.9	2204.3	2215.8	2212.9	2221.4	2227.1	2238.4	2232.7	2249.8	2255.5	2269.6
22.5°	2144.8	2150.5	2159.0	2159.0	2167.5	2173.2	2184.5	2176.0	2193.0	2195.9	2207.2
25°	2076.8	2082.4	2088.1	2090.9	2099.4	2102.2	2107.9	2102.2	2116.4	2119.3	2133.4
27.5°	1988.7	1991.6	2000.2	2000.2	2005.8	2008.6	2017.1	2005.8	2025.6	2025.6	2034.2
30°	1883.8	1881.0	1892.3	1886.6	1892.3	1892.3	1900.8	1895.2	1909.4	1903.7	1912.1
32.5°	1744.7	1750.5	1750.5	1744.7	1756.2	1753.3	1753.3	1747.6	1756.2	1758.9	1764.6
35°	1583.1	1591.5	1591.5	1594.4	1597.3	1588.8	1591.5	1574.6	1588.8	1591.5	1594.4
37.5°	1407.2	1398.7	1404.3	1395.8	1410.0	1393.0	1393.0	1381.7	1393.0	1393.0	1395.8
40°	1205.8	1202.9	1208.5	1202.9	1200.1	1197.2	1191.6	1183.0	1194.4	1188.7	1197.2
42.5°	1015.7	1012.8	1012.8	1007.1	1004.3	1004.3	998.7	992.9	990.2	990.2	1004.3
45°	819.9	825.5	819.9	817.1	822.8	817.1	819.9	808.6	814.2	808.6	814.2
47.5°	655.4	658.1	652.5	646.8	655.4	646.8	646.8	638.3	649.7	649.7	644.0
50°	507.8	504.9	499.3	504.9	502.2	502.2	502.2	493.6	499.3	490.8	496.5
52.5°	374.5	371.7	371.7	368.8	371.7	368.8	368.8	365.9	365.9	363.2	365.9
55°	272.4	269.5	263.8	263.8	263.8	266.7	263.8	261.1	261.1	258.2	261.1
57.5°	184.5	178.7	178.7	178.7	178.7	175.9	175.9	173.0	175.9	173.0	175.9
60°	119.2	119.2	113.5	113.5	113.5	113.5	113.5	110.6	113.5	113.5	113.5
62.5°	73.7	73.7	70.9	68.1	70.9	68.1	68.1	68.1	70.9	68.1	70.9
65°	48.2	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
67.5°	34.0	31.3	31.3	31.3	31.3	31.3	31.3	28.4	31.3	31.3	31.3
70°	22.7	22.7	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8
72.5°	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
75°	11.3	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
77.5°	8.5	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
80°	5.7	5.7	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
82.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
85°	2.9	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	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
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: P684282

CATALOG NUMBER: LX6C40D010 EX6C409050 6LCSWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2349.1	2349.1	2349.1	2349.1	2349.1	2349.1	2349.1	2349.1
2.5°	2349.1	2351.9	2346.2	2349.1	2343.4	2349.1	2351.9	2357.5
5°	2343.4	2346.2	2340.6	2346.2	2340.6	2346.2	2349.1	2354.8
7.5°	2337.7	2343.4	2337.7	2343.4	2337.7	2343.4	2346.2	2351.9
10°	2337.7	2346.2	2340.6	2349.1	2340.6	2346.2	2351.9	2354.8
12.5°	2337.7	2346.2	2343.4	2349.1	2346.2	2351.9	2357.5	2363.2
15°	2332.1	2340.6	2334.9	2343.4	2340.6	2343.4	2354.8	2354.8
17.5°	2300.8	2309.3	2309.3	2315.0	2315.0	2323.5	2329.2	2334.9
20°	2261.1	2269.6	2266.8	2275.3	2275.3	2283.8	2289.5	2295.1
22.5°	2201.6	2212.9	2210.0	2218.5	2215.8	2221.4	2232.7	2230.0
25°	2125.0	2139.2	2136.3	2141.9	2139.2	2139.2	2144.8	2147.6
27.5°	2031.3	2039.8	2037.0	2042.7	2037.0	2042.7	2048.4	2051.1
30°	1909.4	1915.0	1912.1	1915.0	1912.1	1917.8	1920.7	1926.3
32.5°	1761.8	1770.3	1761.8	1767.5	1764.6	1764.6	1776.0	1770.3
35°	1585.9	1588.8	1591.5	1591.5	1585.9	1588.8	1594.4	1594.4
37.5°	1390.1	1404.3	1387.3	1395.8	1393.0	1393.0	1393.0	1401.5
40°	1185.9	1188.7	1183.0	1183.0	1183.0	1180.2	1191.6	1188.7
42.5°	992.9	995.8	992.9	984.5	987.3	987.3	995.8	984.5
45°	805.7	811.3	808.6	808.6	802.9	802.9	805.7	800.0
47.5°	638.3	644.0	635.5	638.3	632.6	638.3	635.5	641.2
50°	485.1	490.8	488.0	490.8	490.8	485.1	493.6	482.3
52.5°	363.2	365.9	363.2	360.3	357.5	357.5	363.2	360.3
55°	258.2	255.3	255.3	255.3	258.2	258.2	255.3	252.5
57.5°	173.0	173.0	170.3	170.3	173.0	167.4	170.3	167.4
60°	110.6	110.6	110.6	110.6	107.9	110.6	110.6	110.6
62.5°	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
65°	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
67.5°	28.4	31.3	31.3	31.3	28.4	28.4	28.4	28.4
70°	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8
72.5°	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
75°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
77.5°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
80°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
82.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.9	2.9	2.9	2.9	2.9	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)