

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: P684990

Luminaire Tested: **LX6C40D010 EX6409027 6LCSWLI**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P684990
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 EX6409027 6LCSWLI
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LCSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

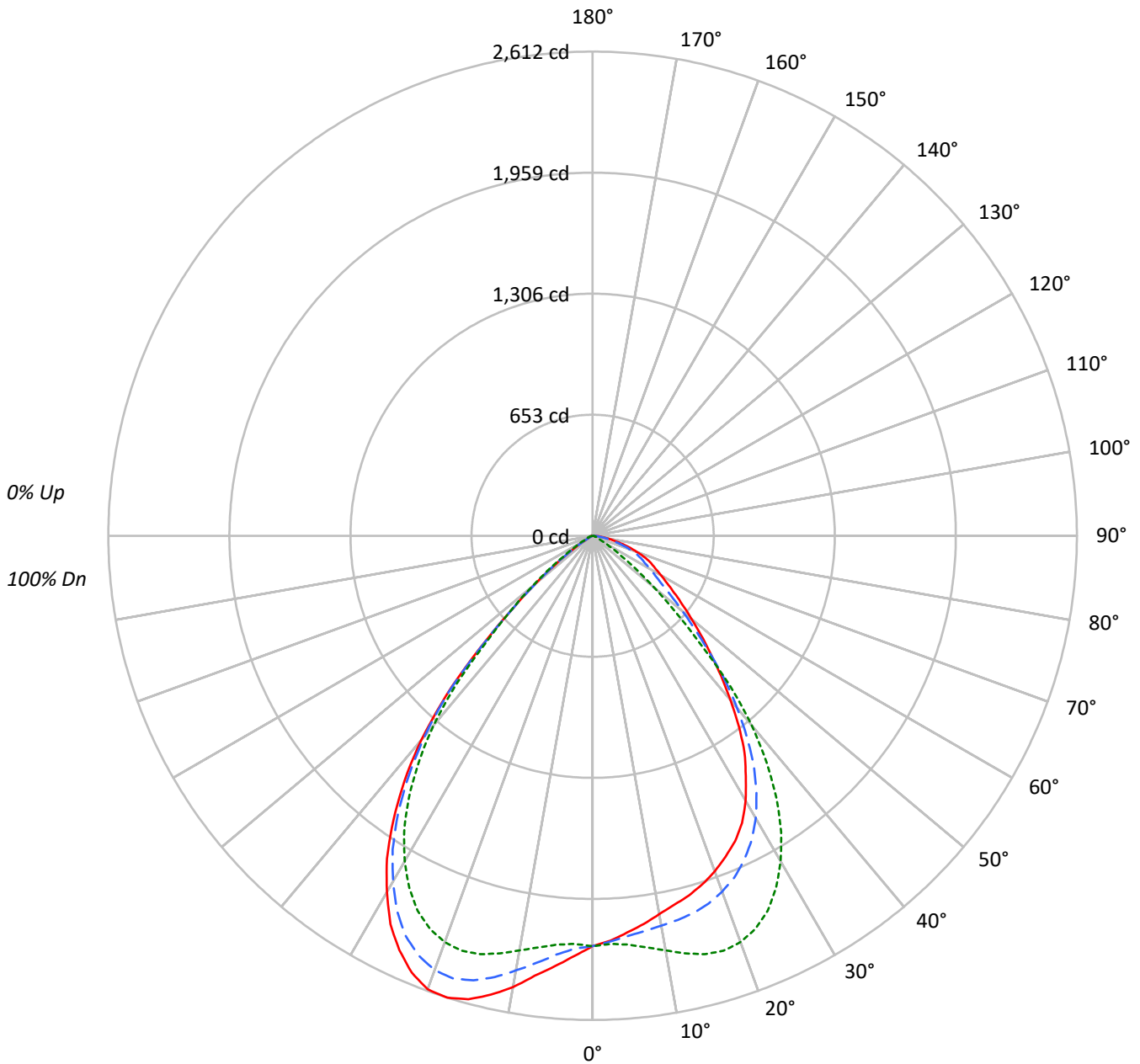
Lumens per Lamp: N/A
Luminaire Lumens: 4047.0 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

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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	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°	121372	121372	121372
5°	118226	121835	128241
10°	115351	126428	137623
15°	114002	132623	146919
20°	112366	136080	151884
25°	109978	135068	149156
30°	104510	128362	140420
35°	95613	115730	125360
40°	82705	95579	102850
45°	69744	62689	67278
50°	59213	36289	34123
55°	51382	17395	13151
60°	46411	8124	3245
65°	45024	4670	1090
70°	40375	3735	1026
75°	33169	2690	445
80°	24719	1326	0
85°	21323	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.9	5.3
10°-20°	651.8	16.1
20°-30°	995.8	24.6
30°-40°	1041.5	25.7
40°-50°	675.7	16.7
50°-60°	268.3	6.6
60°-70°	127.3	3.1
70°-80°	60.5	1.5
80°-90°	12.3	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°	1861.4	46.0
0°-40°	2903.0	71.7
0°-60°	3846.9	95.1
0°-90°	4047.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4047.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2214	2214	2214	2214	2214	
5°	2148	2168	2214	2269	2330	203
15°	2009	2106	2337	2483	2589	566
25°	1818	1932	2233	2383	2466	833
35°	1429	1516	1729	1831	1873	884
45°	900	891	809	857	868	700
55°	538	457	182	142	138	487
65°	347	288	36	8	8	339
75°	157	127	13	4	2	169
85°	34	21	0	0	0	39
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°	2214.0	2214.0	2214.0	2214.0	2214.0	2214.0	2214.0	2214.0	2214.0	2214.0	2214.0
2.5°	2186.5	2190.7	2167.5	2161.1	2178.1	2184.4	2186.5	2180.1	2182.3	2190.7	2190.7
5°	2148.4	2152.6	2131.5	2125.1	2142.0	2146.3	2152.6	2150.5	2156.9	2169.6	2167.5
7.5°	2112.4	2118.8	2095.5	2087.1	2108.2	2118.8	2123.0	2123.0	2131.5	2148.4	2150.5
10°	2072.2	2080.7	2059.5	2055.2	2078.6	2089.1	2091.3	2095.5	2108.2	2131.5	2135.7
12.5°	2038.4	2046.8	2032.0	2025.6	2051.0	2061.6	2065.8	2074.3	2089.1	2118.8	2123.0
15°	2008.7	2015.1	1998.1	1993.9	2019.3	2032.0	2034.1	2046.8	2065.8	2099.7	2106.1
17.5°	1970.6	1974.8	1962.2	1957.9	1983.3	1996.0	1998.1	2012.9	2036.2	2070.1	2080.7
20°	1926.1	1930.4	1917.7	1913.5	1938.9	1953.6	1955.8	1968.5	1996.0	2032.0	2042.6
22.5°	1873.2	1881.7	1866.9	1862.6	1888.1	1900.7	1907.1	1917.7	1945.2	1981.2	1996.0
25°	1818.2	1818.2	1807.7	1805.5	1828.8	1843.6	1841.5	1856.3	1883.8	1919.8	1932.5
27.5°	1746.2	1744.1	1733.5	1731.5	1756.8	1769.6	1765.3	1780.1	1805.5	1841.5	1854.2
30°	1651.0	1655.2	1640.4	1636.1	1657.4	1678.5	1676.4	1691.2	1716.6	1750.5	1759.0
32.5°	1536.7	1540.9	1538.8	1532.5	1551.5	1562.1	1568.4	1579.0	1600.2	1636.1	1644.7
35°	1428.7	1422.4	1413.9	1413.9	1433.0	1449.9	1443.5	1456.3	1477.4	1513.4	1515.5
37.5°	1295.4	1293.3	1289.0	1284.8	1306.0	1310.2	1312.4	1320.8	1339.9	1369.5	1365.3
40°	1155.7	1157.8	1155.7	1147.2	1159.9	1176.9	1174.7	1179.0	1195.9	1217.0	1210.8
42.5°	1024.4	1024.4	1024.4	1016.0	1030.8	1039.3	1043.5	1041.4	1045.6	1064.7	1056.2
45°	899.6	901.7	899.6	897.5	899.6	903.8	899.6	897.5	897.5	903.8	891.1
47.5°	791.7	791.7	785.3	778.9	785.3	787.4	781.1	774.7	772.6	770.5	749.3
50°	694.3	692.1	690.1	679.5	685.8	687.9	679.5	675.2	666.8	656.2	630.8
52.5°	609.6	607.5	605.3	594.8	599.1	601.1	592.7	584.2	573.6	565.2	533.4
55°	537.6	535.5	535.5	529.2	524.9	529.2	520.7	514.3	499.5	488.9	457.2
57.5°	476.2	476.2	472.0	465.6	467.8	467.8	459.4	450.8	438.1	425.5	400.1
60°	423.3	423.3	423.3	417.0	417.0	417.0	412.7	404.3	393.7	381.0	355.6
62.5°	381.0	381.0	378.8	372.6	374.6	374.6	370.4	362.0	351.4	342.9	317.5
65°	347.1	347.1	347.1	340.8	340.8	342.9	338.7	330.2	321.7	311.1	287.8
67.5°	304.8	302.7	302.7	298.4	300.6	302.7	298.4	292.1	281.5	275.2	254.0
70°	251.9	254.0	256.1	249.8	251.9	251.9	249.8	243.4	237.1	230.7	211.7
72.5°	205.3	205.3	203.2	201.1	201.1	203.2	199.0	192.6	188.4	184.2	169.3
75°	156.6	154.5	156.6	152.4	152.4	152.4	148.1	146.1	143.9	137.6	127.0
77.5°	114.3	112.2	112.2	108.0	110.1	110.1	108.0	103.7	99.4	97.4	88.9
80°	78.3	78.3	78.3	76.2	76.2	74.1	74.1	72.0	67.7	65.6	61.4
82.5°	52.9	52.9	52.9	50.8	50.8	50.8	48.7	46.5	44.5	42.3	38.1
85°	33.9	33.9	33.9	31.7	31.7	31.7	29.6	29.6	27.5	25.4	21.2
87.5°	19.0	19.0	19.0	16.9	16.9	16.9	16.9	16.9	14.8	12.7	10.6
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°	2214.0	2214.0	2214.0	2214.0	2214.0	2214.0	2214.0	2214.0	2214.0	2214.0	2214.0
2.5°	2205.5	2175.9	2194.9	2194.9	2188.7	2205.5	2216.2	2224.6	2222.5	2203.5	2201.3
5°	2188.7	2163.2	2184.4	2186.5	2180.1	2203.5	2218.3	2228.8	2231.0	2214.0	2216.2
7.5°	2175.9	2154.8	2182.3	2190.7	2188.7	2209.8	2226.8	2243.6	2252.1	2239.4	2241.6
10°	2169.6	2152.6	2182.3	2194.9	2197.1	2220.4	2245.8	2269.1	2279.7	2271.2	2277.5
12.5°	2161.1	2150.5	2184.4	2203.5	2211.9	2235.2	2266.9	2294.5	2311.4	2307.2	2319.8
15°	2152.6	2144.2	2184.4	2211.9	2222.5	2243.6	2279.7	2319.8	2338.9	2336.8	2353.7
17.5°	2131.5	2129.4	2171.7	2201.3	2216.2	2241.6	2275.4	2324.1	2343.2	2347.4	2368.5
20°	2097.6	2097.6	2144.2	2175.9	2192.9	2216.2	2258.5	2305.0	2328.4	2332.6	2355.9
22.5°	2051.0	2055.2	2099.7	2131.5	2156.9	2173.8	2218.3	2266.9	2288.1	2294.5	2319.8
25°	1989.7	1993.9	2036.2	2068.0	2095.5	2114.5	2156.9	2201.3	2226.8	2233.0	2252.1
27.5°	1909.3	1917.7	1957.9	1989.7	2012.9	2025.6	2070.1	2116.7	2135.7	2142.0	2161.1
30°	1816.1	1818.2	1858.4	1885.9	1909.3	1919.8	1957.9	2006.6	2021.4	2027.8	2055.2
32.5°	1701.8	1699.7	1737.8	1763.2	1782.2	1794.9	1835.1	1866.9	1881.7	1892.3	1907.1
35°	1564.2	1562.1	1589.6	1619.3	1634.1	1638.3	1678.5	1712.4	1720.9	1729.3	1748.4
37.5°	1409.7	1409.7	1433.0	1447.8	1464.7	1471.1	1490.2	1528.3	1543.1	1540.9	1555.7
40°	1246.7	1238.3	1255.2	1270.0	1274.2	1276.3	1295.4	1325.0	1335.6	1335.6	1346.2
42.5°	1075.3	1062.5	1064.7	1073.1	1077.3	1062.5	1075.3	1094.3	1087.9	1096.4	1098.6
45°	893.3	874.2	865.7	846.6	850.9	836.1	827.6	831.8	829.8	808.6	812.8
47.5°	745.0	711.2	696.4	668.9	662.5	645.6	635.0	615.9	599.1	599.1	588.4
50°	620.2	586.3	556.7	524.9	514.3	499.5	476.2	450.8	438.1	425.5	414.9
52.5°	520.7	484.7	448.7	414.9	400.1	381.0	349.2	323.9	300.6	287.8	275.2
55°	440.3	400.1	362.0	325.9	306.9	287.8	256.1	226.5	199.0	182.0	171.4
57.5°	378.8	340.8	300.6	262.5	245.5	224.3	190.5	158.7	133.3	114.3	103.7
60°	334.5	296.3	260.4	220.1	203.2	182.0	146.1	116.4	91.0	74.1	61.4
62.5°	296.3	262.5	224.3	188.4	171.4	150.3	116.4	86.8	63.5	46.5	36.0
65°	268.8	234.9	203.2	167.2	152.4	131.3	99.4	72.0	50.8	36.0	25.4
67.5°	237.1	207.4	175.7	146.1	131.3	114.3	84.6	61.4	42.3	29.6	21.2
70°	199.0	175.7	148.1	120.7	110.1	95.2	69.8	50.8	33.9	23.3	16.9
72.5°	158.7	139.7	118.5	97.4	88.9	74.1	57.1	40.3	25.4	16.9	12.7
75°	120.7	105.8	88.9	74.1	65.6	57.1	42.3	29.6	19.0	12.7	8.4
77.5°	82.6	76.2	63.5	50.8	46.5	40.3	27.5	19.0	12.7	8.4	4.2
80°	57.1	50.8	42.3	33.9	29.6	25.4	16.9	12.7	6.4	4.2	2.1
82.5°	36.0	29.6	25.4	21.2	19.0	14.8	10.6	6.4	4.2	2.1	2.1
85°	19.0	16.9	14.8	10.6	10.6	8.4	6.4	4.2	2.1	0.0	0.0
87.5°	10.6	8.4	6.4	4.2	4.2	2.1	2.1	2.1	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°	2214.0	2214.0	2214.0	2214.0	2214.0	2214.0	2214.0	2214.0	2214.0	2214.0	2214.0
2.5°	2226.8	2226.8	2224.6	2250.0	2220.4	2250.0	2235.2	2250.0	2228.8	2226.8	2228.8
5°	2243.6	2250.0	2252.1	2275.4	2247.9	2283.9	2271.2	2283.9	2269.1	2273.3	2279.7
7.5°	2277.5	2288.1	2286.0	2315.6	2288.1	2328.4	2319.8	2338.9	2324.1	2328.4	2336.8
10°	2315.6	2328.4	2330.4	2360.1	2334.6	2383.3	2372.7	2393.9	2381.3	2387.6	2398.2
12.5°	2360.1	2374.9	2377.0	2410.9	2383.3	2434.2	2427.8	2449.0	2438.4	2444.7	2457.5
15°	2393.9	2415.1	2419.4	2453.2	2423.6	2476.5	2472.3	2499.8	2482.9	2493.4	2504.0
17.5°	2410.9	2429.9	2438.4	2470.1	2444.7	2497.7	2493.4	2516.7	2504.0	2514.6	2527.3
20°	2400.3	2423.6	2429.9	2461.7	2436.3	2489.2	2482.9	2506.2	2493.4	2501.9	2514.6
22.5°	2362.2	2385.5	2393.9	2423.6	2400.3	2449.0	2446.9	2468.1	2451.1	2461.7	2472.3
25°	2294.5	2319.8	2324.1	2351.6	2326.2	2377.0	2372.7	2396.1	2383.3	2389.7	2404.5
27.5°	2197.1	2226.8	2233.0	2256.4	2237.3	2279.7	2279.7	2298.7	2283.9	2283.9	2298.7
30°	2080.7	2110.3	2114.5	2133.6	2116.7	2154.8	2156.9	2175.9	2152.6	2165.3	2167.5
32.5°	1938.9	1957.9	1970.6	1987.5	1962.2	2010.8	2004.5	2019.3	2006.6	2006.6	2017.2
35°	1767.4	1790.7	1797.1	1818.2	1797.1	1835.1	1835.1	1843.6	1830.9	1830.9	1847.8
37.5°	1581.2	1598.1	1600.2	1621.3	1604.4	1636.1	1634.1	1640.4	1627.7	1636.1	1636.1
40°	1363.1	1375.8	1380.1	1390.6	1388.6	1411.8	1409.7	1413.9	1407.6	1409.7	1413.9
42.5°	1109.2	1126.0	1134.5	1143.0	1130.3	1162.1	1155.7	1162.1	1159.9	1162.1	1168.4
45°	817.0	829.8	836.1	838.2	834.0	853.0	867.8	855.1	857.2	853.0	861.5
47.5°	590.5	592.7	588.4	601.1	590.5	599.1	603.3	605.3	592.7	590.5	599.1
50°	404.3	414.9	400.1	406.4	404.3	412.7	408.5	410.7	397.9	404.3	400.1
52.5°	268.8	266.7	262.5	264.6	260.4	260.4	260.4	264.6	256.1	251.9	247.7
55°	163.0	158.7	150.3	148.1	148.1	150.3	146.1	141.8	141.8	139.7	139.7
57.5°	95.2	88.9	84.6	82.6	78.3	76.2	74.1	74.1	69.8	69.8	69.8
60°	52.9	46.5	42.3	38.1	38.1	36.0	33.9	31.7	31.7	31.7	29.6
62.5°	27.5	23.3	19.0	16.9	16.9	14.8	12.7	12.7	12.7	12.7	10.6
65°	19.0	14.8	12.7	10.6	10.6	8.4	8.4	8.4	8.4	8.4	8.4
67.5°	14.8	12.7	10.6	8.4	8.4	8.4	6.4	6.4	6.4	6.4	6.4
70°	12.7	8.4	8.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
72.5°	8.4	8.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
75°	6.4	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
77.5°	2.1	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0
80°	2.1	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: P684990

CATALOG NUMBER: LX6C40D010 EX6409027 6LCSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2214.0	2214.0	2214.0	2214.0	2214.0	2214.0	2214.0	2214.0
2.5°	2247.9	2245.8	2247.9	2252.1	2243.6	2269.1	2256.4	2269.1
5°	2296.6	2298.7	2300.8	2307.2	2296.6	2328.4	2311.4	2330.4
7.5°	2360.1	2362.2	2364.3	2370.7	2364.3	2396.1	2377.0	2393.9
10°	2425.7	2429.9	2429.9	2440.5	2434.2	2463.8	2451.1	2472.3
12.5°	2487.1	2491.3	2495.6	2501.9	2497.7	2529.4	2518.8	2535.8
15°	2535.8	2544.2	2546.3	2554.8	2550.6	2584.4	2571.7	2588.7
17.5°	2559.1	2567.5	2567.5	2578.1	2573.9	2609.8	2592.9	2612.0
20°	2546.3	2552.7	2554.8	2565.4	2561.1	2597.2	2580.2	2603.5
22.5°	2506.2	2508.2	2510.4	2521.0	2518.8	2550.6	2535.8	2550.6
25°	2432.0	2438.4	2436.3	2444.7	2444.7	2470.1	2453.2	2465.9
27.5°	2326.2	2332.6	2332.6	2343.2	2334.6	2360.1	2343.2	2362.2
30°	2197.1	2203.5	2199.2	2207.7	2199.2	2224.6	2211.9	2218.3
32.5°	2042.6	2042.6	2044.7	2046.8	2042.6	2065.8	2053.2	2065.8
35°	1858.4	1862.6	1864.8	1866.9	1862.6	1879.6	1864.8	1873.2
37.5°	1651.0	1661.6	1659.5	1661.6	1655.2	1676.4	1663.7	1668.0
40°	1428.7	1428.7	1426.6	1430.9	1424.5	1441.5	1433.0	1437.2
42.5°	1170.5	1176.9	1168.4	1179.0	1162.1	1185.3	1176.9	1170.5
45°	878.5	869.9	867.8	869.9	863.6	865.7	872.1	867.8
47.5°	599.1	599.1	594.8	588.4	596.9	599.1	590.5	590.5
50°	402.2	402.2	397.9	395.8	400.1	397.9	393.7	400.1
52.5°	256.1	247.7	247.7	251.9	247.7	243.4	249.8	245.5
55°	139.7	135.5	135.5	139.7	135.5	135.5	133.3	137.6
57.5°	67.7	69.8	67.7	67.7	67.7	67.7	65.6	67.7
60°	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6
62.5°	12.7	12.7	10.6	10.6	10.6	10.6	10.6	10.6
65°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
67.5°	6.4	6.4	6.4	6.4	6.4	8.4	6.4	6.4
70°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
72.5°	6.4	6.4	8.4	8.4	8.4	8.4	8.4	8.4
75°	4.2	4.2	4.2	2.1	2.1	2.1	2.1	2.1
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)