

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: P684365

Luminaire Tested: **LX6C50D010 EX6C509027 6LBLWWH**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P684365
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-10)
Test Lab: INNOVATION CENTER
Issue Date: 2/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX6C50D010 EX6C509027 6LBLWWH
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

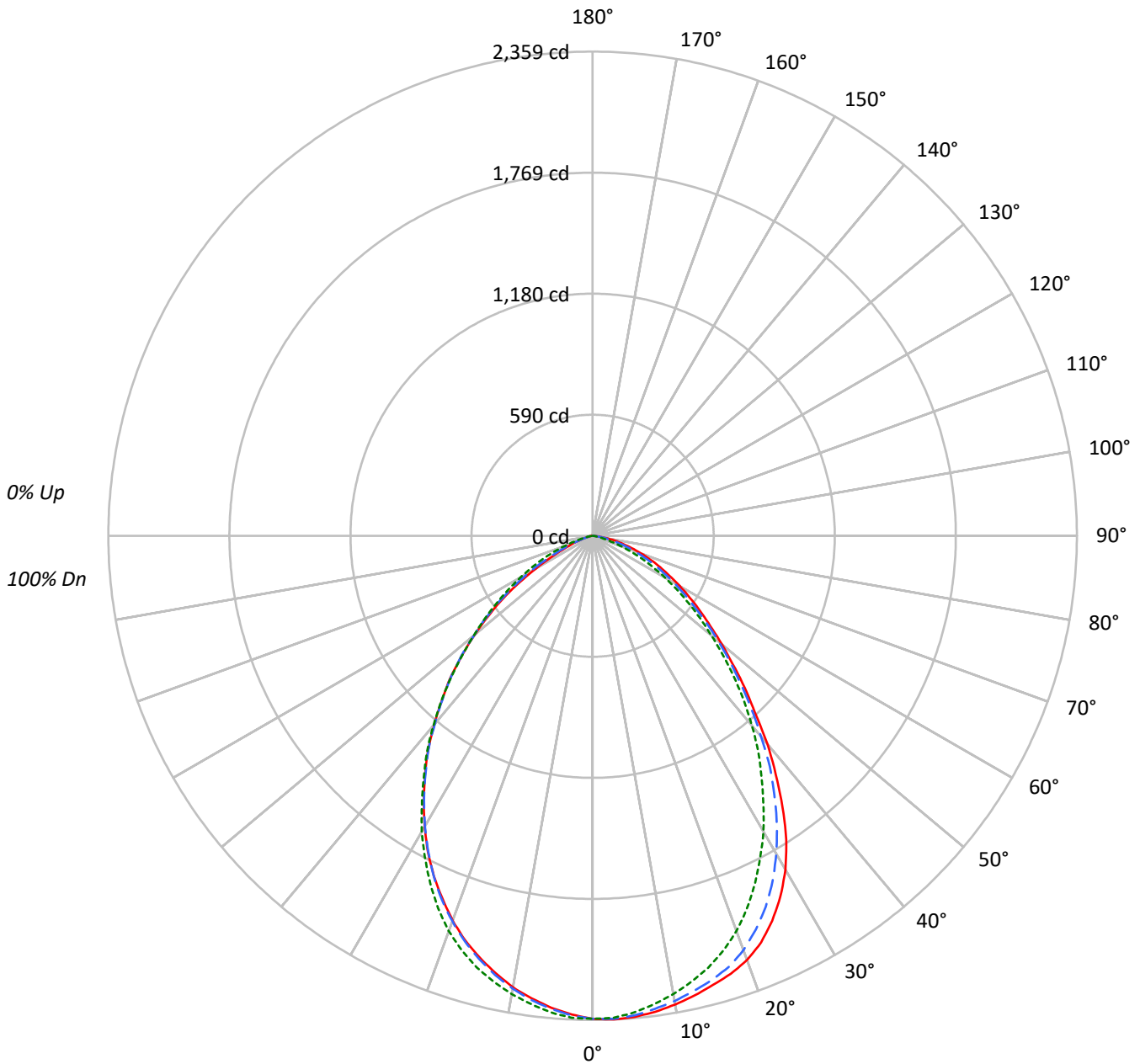
Lumens per Lamp: N/A
Luminaire Lumens: 4281.0 lumens
Efficiency: N/A
Efficacy: 73.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
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					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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89								
2	103	96	91	86	101	95	90	85	91	87	83	88	85	81	85	82	80	78								
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68								
4	89	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60								
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	64	60	56	54								
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48								
7	71	59	52	46	70	59	51	46	57	51	46	56	50	45	55	49	45	43								
8	67	55	47	42	65	54	47	42	53	46	42	52	46	41	51	45	41	39								
9	63	51	43	38	62	50	43	38	49	42	38	48	42	38	47	42	38	36								
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	38	35	33								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	129019	129019	129019
5°	129468	128296	127030
10°	129072	126211	124363
15°	128588	123605	120733
20°	128304	119535	116350
25°	125179	113123	110631
30°	118936	105364	103611
35°	107954	95934	95298
40°	94713	86333	85882
45°	81202	75442	76054
50°	69900	64296	63964
55°	61092	54287	50961
60°	53691	44492	34778
65°	46996	34478	20936
70°	40071	23209	12294
75°	32343	12073	6693
80°	22478	4735	3757
85°	8932	1510	2013



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.5	5.2
10°-20°	615.8	14.4
20°-30°	876.3	20.5
30°-40°	922.3	21.5
40°-50°	768.7	18.0
50°-60°	519.3	12.1
60°-70°	263.3	6.2
70°-80°	85.0	2.0
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°	1712.6	40.0
0°-40°	2635.0	61.6
0°-60°	3923.0	91.6
0°-90°	4281.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4281.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2354	2354	2354	2354	2354	
5°	2353	2346	2331	2314	2308	223
15°	2266	2241	2178	2134	2127	640
25°	2070	1994	1870	1831	1829	948
35°	1613	1543	1434	1419	1424	1004
45°	1047	1020	973	977	981	811
55°	639	608	568	551	533	575
65°	362	327	266	192	161	361
75°	153	120	57	31	32	165
85°	14	8	2	3	3	25
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°	2353.5	2353.5	2353.5	2353.5	2353.5	2353.5	2353.5	2353.5	2353.5	2353.5	2353.5
2.5°	2359.1	2359.1	2359.1	2359.1	2359.1	2359.1	2358.3	2358.3	2356.7	2356.7	2355.9
5°	2352.7	2353.5	2353.5	2352.7	2352.7	2351.2	2351.2	2350.4	2348.0	2346.4	2345.6
7.5°	2339.3	2339.3	2338.5	2337.7	2336.9	2334.5	2333.8	2331.4	2329.8	2328.2	2325.1
10°	2318.7	2318.7	2317.9	2316.4	2315.6	2314.0	2314.0	2310.8	2307.6	2303.7	2301.3
12.5°	2294.2	2295.0	2293.4	2292.6	2290.2	2289.5	2287.9	2283.9	2281.5	2276.8	2272.8
15°	2265.7	2267.3	2267.3	2264.1	2261.8	2261.0	2258.6	2256.2	2250.7	2245.9	2241.2
17.5°	2238.0	2239.6	2238.0	2235.7	2233.3	2230.1	2228.5	2223.8	2216.7	2210.3	2203.2
20°	2199.3	2201.6	2198.5	2194.5	2189.8	2189.0	2186.6	2178.7	2168.4	2158.9	2148.6
22.5°	2144.7	2143.1	2140.7	2139.1	2131.2	2126.5	2123.3	2113.0	2102.0	2089.3	2076.6
25°	2069.5	2072.7	2067.9	2060.8	2056.9	2052.1	2044.2	2033.1	2022.9	2009.4	1994.4
27.5°	1980.9	1980.9	1974.6	1972.2	1963.5	1957.2	1953.2	1942.2	1928.7	1915.3	1898.6
30°	1878.9	1874.1	1874.1	1863.0	1855.9	1853.6	1849.6	1831.4	1819.5	1805.3	1788.7
32.5°	1755.5	1754.7	1751.5	1744.4	1734.9	1727.0	1727.0	1714.3	1698.5	1681.1	1670.8
35°	1613.1	1613.9	1612.3	1604.4	1604.4	1594.9	1593.3	1582.2	1569.5	1556.1	1543.4
37.5°	1465.9	1469.1	1465.9	1462.0	1459.6	1458.8	1451.7	1443.8	1434.3	1426.4	1416.9
40°	1323.5	1318.8	1320.4	1312.4	1313.2	1311.6	1308.5	1298.2	1292.7	1284.8	1274.5
42.5°	1170.0	1174.8	1176.4	1171.6	1170.0	1166.9	1170.0	1166.1	1159.8	1155.8	1146.3
45°	1047.4	1042.7	1045.0	1043.5	1044.3	1037.9	1035.6	1034.0	1031.6	1024.5	1020.5
47.5°	925.6	926.4	925.6	922.4	920.8	920.8	917.7	912.9	912.9	908.2	905.0
50°	819.6	819.6	821.2	817.2	815.6	812.5	813.3	808.5	805.3	801.4	799.0
52.5°	722.3	723.1	719.9	720.7	719.1	719.1	715.9	712.8	709.6	702.5	700.9
55°	639.2	640.0	636.0	637.6	632.9	630.5	628.9	624.2	624.2	617.1	608.4
57.5°	561.7	560.9	560.1	557.7	554.6	552.2	549.8	544.3	541.9	537.2	530.0
60°	489.7	488.9	487.3	486.5	484.2	478.6	478.6	474.7	466.8	462.0	454.9
62.5°	421.7	421.7	420.9	418.5	416.1	413.7	412.2	409.0	401.1	395.6	389.2
65°	362.3	361.5	359.2	355.2	353.6	353.6	348.1	345.7	339.4	333.8	326.7
67.5°	305.4	302.2	300.6	301.4	296.7	296.7	291.9	288.0	282.4	272.9	267.4
70°	250.0	248.4	246.8	245.2	244.5	241.3	238.9	234.2	228.6	221.5	212.8
72.5°	200.1	200.1	197.8	196.2	193.8	190.7	189.1	185.1	178.8	170.9	164.5
75°	152.7	152.7	152.7	149.5	147.9	146.4	141.6	139.2	132.1	127.4	119.5
77.5°	112.3	110.8	108.4	107.6	106.0	104.4	102.1	98.1	91.8	86.2	81.5
80°	71.2	73.6	71.2	71.2	67.2	65.7	64.9	60.1	57.8	53.0	49.0
82.5°	39.6	40.3	38.8	38.0	35.6	34.8	34.8	31.6	30.1	26.9	24.5
85°	14.2	15.0	14.2	14.2	12.7	13.4	12.7	11.9	10.3	8.7	7.9
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
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°	2353.5	2353.5	2353.5	2353.5	2353.5	2353.5	2353.5	2353.5	2353.5	2353.5	2353.5
2.5°	2355.9	2354.3	2354.3	2353.5	2352.7	2352.7	2352.7	2352.0	2350.4	2350.4	2349.6
5°	2344.0	2342.5	2340.1	2338.5	2337.7	2336.9	2336.1	2335.3	2332.2	2331.4	2329.0
7.5°	2322.7	2321.1	2317.1	2315.6	2313.2	2312.4	2309.2	2307.6	2304.5	2301.3	2299.7
10°	2297.4	2293.4	2290.2	2286.3	2284.7	2282.3	2278.4	2273.6	2271.3	2267.3	2264.1
12.5°	2268.9	2264.1	2257.8	2253.1	2251.5	2247.5	2241.2	2237.2	2231.7	2225.4	2219.8
15°	2233.3	2227.7	2222.2	2213.5	2211.1	2206.4	2200.1	2192.1	2184.2	2177.9	2171.6
17.5°	2194.5	2185.8	2177.1	2167.6	2160.5	2158.1	2147.8	2136.8	2129.7	2118.6	2111.5
20°	2139.9	2128.1	2113.8	2104.3	2098.0	2090.9	2079.0	2067.2	2058.5	2049.0	2038.7
22.5°	2064.8	2053.7	2037.1	2022.9	2018.1	2007.8	1997.5	1986.5	1975.4	1965.1	1952.4
25°	1976.2	1964.3	1947.7	1933.5	1925.5	1920.8	1901.0	1889.9	1878.9	1870.2	1861.5
27.5°	1885.2	1863.8	1852.8	1830.6	1823.5	1821.9	1803.7	1791.8	1780.0	1768.1	1757.0
30°	1772.9	1756.2	1739.6	1723.8	1714.3	1708.8	1695.3	1680.3	1672.4	1664.5	1653.4
32.5°	1656.6	1641.5	1621.0	1605.9	1598.8	1590.9	1579.0	1568.8	1556.9	1548.2	1545.8
35°	1532.4	1515.8	1498.3	1487.3	1485.7	1476.2	1464.3	1455.6	1446.9	1433.5	1431.1
37.5°	1399.5	1390.0	1378.1	1362.3	1355.2	1355.2	1343.3	1337.0	1325.9	1325.1	1318.8
40°	1268.9	1265.0	1246.8	1242.0	1240.5	1229.4	1226.2	1215.1	1207.2	1206.4	1196.9
42.5°	1140.0	1129.7	1126.5	1118.6	1111.5	1109.9	1102.8	1098.1	1094.9	1090.1	1085.4
45°	1011.8	1009.4	1001.5	996.0	993.6	990.5	988.1	978.6	977.0	973.1	970.7
47.5°	901.1	894.7	887.6	881.3	880.5	875.8	870.2	870.2	861.5	860.7	859.1
50°	791.1	786.4	782.4	773.7	775.3	769.0	768.2	761.0	757.1	753.9	757.9
52.5°	694.6	685.1	683.5	676.4	674.0	674.8	666.1	663.7	662.2	659.0	657.4
55°	602.8	598.1	591.7	587.0	583.0	579.1	575.9	575.9	567.2	568.0	564.1
57.5°	522.1	518.2	510.3	503.1	501.6	496.8	492.9	488.9	488.1	482.6	478.6
60°	450.1	443.0	432.7	429.6	424.8	420.9	416.9	412.2	409.8	405.8	398.7
62.5°	382.9	371.0	367.1	360.7	355.2	352.8	346.5	341.0	337.0	331.5	325.9
65°	318.8	310.1	303.0	295.9	295.1	288.8	283.2	278.5	270.6	265.8	255.5
67.5°	260.3	252.4	244.5	237.3	231.8	230.2	221.5	216.0	210.4	200.9	192.2
70°	206.5	198.6	192.2	183.5	181.2	174.8	168.5	163.0	153.5	144.8	137.7
72.5°	157.4	148.7	141.6	135.3	131.3	125.8	119.5	113.1	103.6	94.9	88.6
75°	112.3	106.0	98.9	92.6	89.4	86.2	79.1	72.0	65.7	57.0	51.4
77.5°	75.9	69.6	63.3	57.8	53.8	51.4	46.7	41.1	35.6	30.9	26.9
80°	44.3	40.3	35.6	30.9	30.1	27.7	23.7	20.6	17.4	15.0	11.9
82.5°	21.4	19.0	15.8	13.4	11.9	11.1	9.5	7.9	6.3	5.5	5.5
85°	6.3	5.5	4.7	4.0	3.2	3.2	2.4	2.4	2.4	2.4	2.4
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
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°	2353.5	2353.5	2353.5	2353.5	2353.5	2353.5	2353.5	2353.5	2353.5	2353.5	2353.5
2.5°	2347.2	2346.4	2345.6	2344.8	2343.2	2343.2	2340.9	2339.3	2339.3	2337.7	2336.9
5°	2326.6	2324.3	2323.5	2321.9	2320.3	2319.5	2316.4	2315.6	2314.0	2312.4	2312.4
7.5°	2297.4	2294.2	2291.0	2289.5	2288.7	2286.3	2284.7	2283.9	2281.5	2280.0	2276.8
10°	2258.6	2256.2	2252.3	2250.7	2249.1	2247.5	2243.6	2241.2	2240.4	2238.8	2237.2
12.5°	2213.5	2210.3	2206.4	2203.2	2201.6	2199.3	2195.3	2192.9	2192.9	2189.8	2189.8
15°	2165.3	2160.5	2153.4	2150.2	2149.4	2144.7	2141.5	2138.4	2134.4	2132.8	2132.8
17.5°	2103.5	2095.6	2089.3	2089.3	2086.1	2081.4	2076.6	2074.3	2071.9	2068.7	2067.2
20°	2030.8	2025.2	2018.1	2018.1	2011.0	2009.4	2004.7	2003.9	1998.3	1999.1	1996.7
22.5°	1942.9	1939.8	1935.8	1932.7	1928.7	1924.0	1921.6	1922.4	1920.0	1919.2	1918.4
25°	1854.3	1845.6	1840.9	1839.3	1837.7	1833.8	1832.2	1831.4	1831.4	1829.0	1829.8
27.5°	1752.3	1746.0	1739.6	1742.0	1738.8	1736.5	1734.9	1732.5	1734.1	1733.3	1734.1
30°	1647.9	1640.0	1636.0	1637.6	1636.8	1630.5	1633.6	1632.8	1633.6	1633.6	1635.2
32.5°	1537.9	1532.4	1531.6	1532.4	1525.2	1526.0	1522.9	1527.6	1528.4	1533.2	1529.2
35°	1426.4	1423.2	1417.7	1416.9	1417.7	1416.9	1416.9	1420.0	1419.2	1424.0	1422.4
37.5°	1311.6	1310.1	1304.5	1306.1	1302.9	1308.5	1310.1	1308.5	1314.0	1312.4	1311.6
40°	1199.3	1196.9	1193.8	1200.1	1196.1	1193.0	1198.5	1193.8	1195.4	1200.1	1200.1
42.5°	1085.4	1081.4	1081.4	1081.4	1080.6	1080.6	1083.0	1085.4	1083.8	1084.6	1090.9
45°	970.7	969.9	967.5	969.1	968.3	972.3	972.3	973.8	977.0	980.2	978.6
47.5°	859.9	858.3	860.7	859.1	859.9	857.6	859.1	863.9	867.8	862.3	867.8
50°	756.3	753.1	752.3	754.7	753.9	753.1	754.7	754.7	753.1	753.1	758.7
52.5°	657.4	654.2	651.9	655.8	653.5	654.2	651.1	651.1	652.7	651.1	648.7
55°	564.8	562.5	559.3	560.9	556.9	556.1	553.0	553.0	550.6	549.0	544.3
57.5°	476.2	474.7	467.5	466.8	467.5	462.0	456.5	454.1	447.8	446.2	445.4
60°	397.9	389.2	385.3	380.5	377.4	375.0	368.7	364.7	355.2	349.7	348.9
62.5°	316.4	312.5	307.7	300.6	299.0	291.1	284.8	274.5	269.8	262.6	255.5
65°	250.8	240.5	233.4	229.4	223.1	216.0	208.9	197.8	192.2	183.5	176.4
67.5°	183.5	174.8	165.3	162.2	156.6	147.9	140.8	131.3	126.6	118.7	116.3
70°	125.8	117.9	110.8	106.0	102.1	93.4	86.2	83.1	78.3	76.7	76.7
72.5°	80.7	73.6	65.7	63.3	60.1	55.4	50.6	49.0	50.6	49.8	49.8
75°	45.1	41.1	35.6	33.2	33.2	31.6	30.9	30.9	30.9	30.9	30.9
77.5°	22.9	20.6	19.0	18.2	18.2	18.2	19.0	19.0	19.0	19.8	19.0
80°	11.1	10.3	10.3	10.3	11.1	11.1	11.1	11.1	11.1	11.9	11.1
82.5°	5.5	5.5	5.5	5.5	5.5	5.5	6.3	6.3	6.3	6.3	6.3
85°	2.4	2.4	2.4	2.4	3.2	3.2	3.2	3.2	3.2	3.2	3.2
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
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: P684365

CATALOG NUMBER: LX6C50D010 EX6C509027 6LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2353.5	2353.5	2353.5	2353.5	2353.5	2353.5	2353.5	2353.5
2.5°	2336.1	2334.5	2334.5	2333.8	2333.8	2333.8	2333.8	2334.5
5°	2310.8	2310.0	2310.0	2308.4	2308.4	2308.4	2308.4	2308.4
7.5°	2276.8	2275.2	2276.0	2274.4	2274.4	2275.2	2274.4	2273.6
10°	2234.9	2234.1	2234.9	2234.9	2233.3	2232.5	2233.3	2234.1
12.5°	2187.4	2186.6	2185.0	2185.8	2185.8	2185.0	2184.2	2182.7
15°	2132.0	2131.2	2130.4	2129.7	2128.9	2129.7	2128.9	2127.3
17.5°	2067.2	2067.2	2066.4	2065.6	2064.8	2063.2	2064.0	2066.4
20°	1997.5	1996.7	1995.2	1996.0	1992.8	1991.2	1992.0	1994.4
22.5°	1917.6	1915.3	1916.8	1914.5	1914.5	1915.3	1914.5	1912.9
25°	1830.6	1827.4	1829.0	1829.8	1829.8	1829.0	1828.2	1829.0
27.5°	1734.1	1736.5	1736.5	1734.9	1737.3	1734.1	1735.7	1736.5
30°	1635.2	1632.8	1632.0	1635.2	1640.0	1636.0	1636.0	1636.8
32.5°	1533.2	1530.0	1530.0	1531.6	1530.8	1530.8	1533.9	1530.0
35°	1424.0	1425.6	1419.2	1423.2	1424.8	1423.2	1424.0	1424.0
37.5°	1314.0	1312.4	1312.4	1312.4	1314.8	1314.8	1316.4	1315.6
40°	1205.6	1202.5	1201.7	1203.3	1200.1	1202.5	1202.5	1200.1
42.5°	1088.6	1089.3	1093.3	1089.3	1090.1	1089.3	1087.8	1087.0
45°	980.2	982.6	981.0	980.2	981.0	977.8	978.6	981.0
47.5°	865.5	870.2	865.5	868.6	867.8	866.3	864.7	861.5
50°	757.9	759.5	758.7	757.9	757.1	756.3	752.3	750.0
52.5°	647.9	647.9	647.9	647.9	640.0	644.0	642.4	637.6
55°	540.3	542.7	539.5	539.5	534.0	534.0	532.4	533.2
57.5°	436.7	434.3	431.9	431.9	426.4	424.0	421.7	418.5
60°	340.2	337.8	334.6	330.7	325.1	325.1	323.6	317.2
62.5°	249.2	245.2	242.9	239.7	235.0	231.8	229.4	231.0
65°	170.9	166.9	163.8	163.8	163.8	162.2	161.4	161.4
67.5°	112.3	114.7	113.1	114.7	114.7	113.1	112.3	113.9
70°	77.5	77.5	76.7	76.7	76.7	76.7	75.9	76.7
72.5°	49.8	49.8	49.8	50.6	49.8	49.8	50.6	50.6
75°	31.6	31.6	31.6	32.4	31.6	31.6	32.4	31.6
77.5°	19.0	19.8	19.8	19.8	19.8	19.0	19.8	19.8
80°	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9
82.5°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
85°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
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)