

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: P684980

Luminaire Tested: **LX6C35D010 EX6359040 6LCSWLI**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P684980
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: LX6C35D010 EX6359040 6LCSWLI
Description: 6 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LCSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

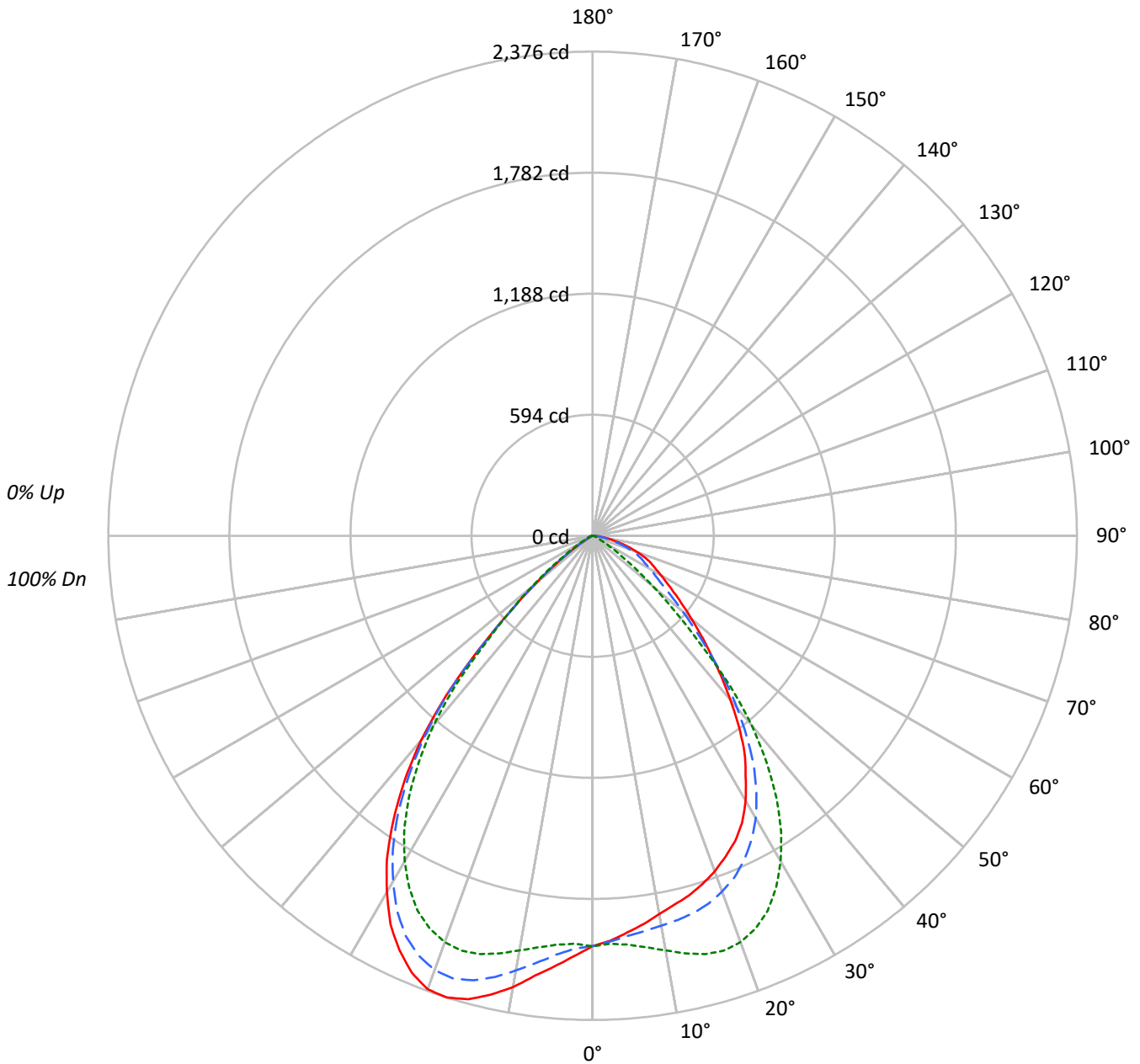
Lumens per Lamp: N/A
Luminaire Lumens: 3681.0 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
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			100
1	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90			90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80			80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			72
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65			65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58			58
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53			53
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48			48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40			40
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	110397	110397	110397
5°	107533	110819	116646
10°	104919	114995	125176
15°	103690	120631	133633
20°	102203	123771	138145
25°	100034	122856	135667
30°	95059	116752	127716
35°	86967	105263	114024
40°	75227	86934	93547
45°	63441	57021	61192
50°	53858	33005	31035
55°	46737	15827	11957
60°	42212	7390	2949
65°	40951	4242	999
70°	36721	3398	930
75°	30183	2457	424
80°	22478	1200	0
85°	19373	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.5	5.3
10°-20°	592.8	16.1
20°-30°	905.8	24.6
30°-40°	947.3	25.7
40°-50°	614.5	16.7
50°-60°	244.0	6.6
60°-70°	115.7	3.1
70°-80°	55.1	1.5
80°-90°	11.2	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°	1693.1	46.0
0°-40°	2640.4	71.7
0°-60°	3499.0	95.1
0°-90°	3681.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3681.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2014	2014	2014	2014	2014	
5°	1954	1972	2014	2064	2120	185
15°	1827	1916	2126	2258	2355	515
25°	1654	1758	2031	2168	2243	757
35°	1300	1378	1573	1665	1704	804
45°	818	810	736	780	789	637
55°	489	416	166	129	125	443
65°	316	262	33	8	8	308
75°	142	116	12	4	2	154
85°	31	19	0	0	0	36
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°	2013.8	2013.8	2013.8	2013.8	2013.8	2013.8	2013.8	2013.8	2013.8	2013.8	2013.8
2.5°	1988.8	1992.6	1971.5	1965.7	1981.1	1986.8	1988.8	1983.0	1984.9	1992.6	1992.6
5°	1954.1	1957.9	1938.7	1932.9	1948.3	1952.2	1957.9	1956.1	1961.8	1973.4	1971.5
7.5°	1921.4	1927.2	1906.0	1898.3	1917.6	1927.2	1931.0	1931.0	1938.7	1954.1	1956.1
10°	1884.8	1892.5	1873.3	1869.4	1890.6	1900.2	1902.2	1906.0	1917.6	1938.7	1942.5
12.5°	1854.0	1861.7	1848.2	1842.5	1865.5	1875.2	1879.0	1886.7	1900.2	1927.2	1931.0
15°	1827.0	1832.8	1817.4	1813.6	1836.7	1848.2	1850.1	1861.7	1879.0	1909.8	1915.6
17.5°	1792.4	1796.2	1784.7	1780.9	1804.0	1815.5	1817.4	1830.9	1852.1	1882.9	1892.5
20°	1751.9	1755.8	1744.3	1740.4	1763.5	1777.0	1778.9	1790.5	1815.5	1848.2	1857.9
22.5°	1703.8	1711.6	1698.1	1694.2	1717.3	1728.8	1734.6	1744.3	1769.3	1802.0	1815.5
25°	1653.8	1653.8	1644.2	1642.2	1663.4	1676.9	1674.9	1688.4	1713.4	1746.2	1757.7
27.5°	1588.3	1586.4	1576.7	1574.9	1597.9	1609.5	1605.6	1619.1	1642.2	1674.9	1686.5
30°	1501.7	1505.5	1492.1	1488.2	1507.5	1526.7	1524.8	1538.2	1561.3	1592.2	1599.9
32.5°	1397.7	1401.6	1399.7	1393.9	1411.2	1420.8	1426.6	1436.2	1455.5	1488.2	1495.9
35°	1299.5	1293.7	1286.1	1286.1	1303.4	1318.8	1313.0	1324.6	1343.8	1376.5	1378.5
37.5°	1178.3	1176.3	1172.5	1168.6	1187.9	1191.7	1193.7	1201.3	1218.7	1245.6	1241.8
40°	1051.2	1053.1	1051.2	1043.4	1055.0	1070.4	1068.5	1072.4	1087.7	1107.0	1101.3
42.5°	931.8	931.8	931.8	924.1	937.6	945.3	949.2	947.2	951.0	968.4	960.7
45°	818.3	820.1	818.3	816.3	818.3	822.1	818.3	816.3	816.3	822.1	810.5
47.5°	720.1	720.1	714.3	708.5	714.3	716.2	710.4	704.7	702.7	700.8	681.6
50°	631.5	629.5	627.7	618.0	623.8	625.7	618.0	614.1	606.5	596.8	573.7
52.5°	554.5	552.5	550.6	541.0	544.9	546.8	539.1	531.3	521.7	514.1	485.2
55°	489.0	487.1	487.1	481.3	477.4	481.3	473.6	467.8	454.4	444.7	415.9
57.5°	433.2	433.2	429.3	423.5	425.5	425.5	417.8	410.1	398.5	387.0	363.9
60°	385.0	385.0	385.0	379.2	379.2	379.2	375.4	367.7	358.1	346.5	323.5
62.5°	346.5	346.5	344.6	338.9	340.7	340.7	336.9	329.2	319.6	311.9	288.8
65°	315.7	315.7	315.7	310.0	310.0	311.9	308.0	300.4	292.6	283.0	261.8
67.5°	277.2	275.3	275.3	271.4	273.4	275.3	271.4	265.7	256.1	250.3	231.0
70°	229.1	231.0	232.9	227.2	229.1	229.1	227.2	221.4	215.6	209.8	192.6
72.5°	186.8	186.8	184.8	182.9	182.9	184.8	181.0	175.2	171.4	167.5	154.0
75°	142.5	140.5	142.5	138.6	138.6	138.6	134.7	132.9	130.9	125.1	115.5
77.5°	104.0	102.0	102.0	98.2	100.1	100.1	98.2	94.4	90.5	88.6	80.8
80°	71.2	71.2	71.2	69.3	69.3	67.4	67.4	65.5	61.6	59.7	55.9
82.5°	48.1	48.1	48.1	46.2	46.2	46.2	44.3	42.3	40.4	38.5	34.7
85°	30.8	30.8	30.8	28.9	28.9	28.9	26.9	26.9	25.0	23.1	19.2
87.5°	17.3	17.3	17.3	15.4	15.4	15.4	15.4	15.4	13.5	11.6	9.6
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°	2013.8	2013.8	2013.8	2013.8	2013.8	2013.8	2013.8	2013.8	2013.8	2013.8	2013.8
2.5°	2006.1	1979.1	1996.4	1996.4	1990.7	2006.1	2015.8	2023.4	2021.5	2004.2	2002.2
5°	1990.7	1967.6	1986.8	1988.8	1983.0	2004.2	2017.6	2027.3	2029.2	2013.8	2015.8
7.5°	1979.1	1959.9	1984.9	1992.6	1990.7	2010.0	2025.4	2040.7	2048.5	2036.9	2038.8
10°	1973.4	1957.9	1984.9	1996.4	1998.4	2019.6	2042.7	2063.9	2073.5	2065.8	2071.5
12.5°	1965.7	1956.1	1986.8	2004.2	2011.8	2033.1	2061.9	2087.0	2102.4	2098.5	2110.0
15°	1957.9	1950.3	1986.8	2011.8	2021.5	2040.7	2073.5	2110.0	2127.4	2125.5	2140.9
17.5°	1938.7	1936.8	1975.3	2002.2	2015.8	2038.8	2069.6	2113.9	2131.2	2135.1	2154.3
20°	1907.9	1907.9	1950.3	1979.1	1994.6	2015.8	2054.3	2096.6	2117.8	2121.6	2142.8
22.5°	1865.5	1869.4	1909.8	1938.7	1961.8	1977.2	2017.6	2061.9	2081.2	2087.0	2110.0
25°	1809.7	1813.6	1852.1	1880.9	1906.0	1923.3	1961.8	2002.2	2025.4	2031.1	2048.5
27.5°	1736.6	1744.3	1780.9	1809.7	1830.9	1842.5	1882.9	1925.2	1942.5	1948.3	1965.7
30°	1651.9	1653.8	1690.4	1715.4	1736.6	1746.2	1780.9	1825.2	1838.6	1844.4	1869.4
32.5°	1547.9	1546.0	1580.7	1603.7	1621.0	1632.6	1669.1	1698.1	1711.6	1721.2	1734.6
35°	1422.8	1420.8	1445.8	1472.8	1486.3	1490.1	1526.7	1557.5	1565.2	1572.9	1590.3
37.5°	1282.2	1282.2	1303.4	1316.9	1332.2	1338.0	1355.4	1390.1	1403.5	1401.6	1415.0
40°	1134.0	1126.3	1141.6	1155.2	1159.0	1160.9	1178.3	1205.2	1214.8	1214.8	1224.4
42.5°	978.0	966.5	968.4	976.1	979.9	966.5	978.0	995.3	989.5	997.3	999.2
45°	812.5	795.1	787.4	770.1	774.0	760.4	752.8	756.6	754.7	735.5	739.3
47.5°	677.7	646.9	633.4	608.4	602.6	587.2	577.6	560.2	544.9	544.9	535.2
50°	564.1	533.3	506.3	477.4	467.8	454.4	433.2	410.1	398.5	387.0	377.4
52.5°	473.6	440.9	408.1	377.4	363.9	346.5	317.7	294.6	273.4	261.8	250.3
55°	400.4	363.9	329.2	296.5	279.2	261.8	232.9	206.0	181.0	165.6	155.9
57.5°	344.6	310.0	273.4	238.7	223.3	204.1	173.3	144.4	121.3	104.0	94.4
60°	304.2	269.5	236.8	200.2	184.8	165.6	132.9	105.9	82.8	67.4	55.9
62.5°	269.5	238.7	204.1	171.4	155.9	136.7	105.9	78.9	57.7	42.3	32.7
65°	244.5	213.7	184.8	152.1	138.6	119.4	90.5	65.5	46.2	32.7	23.1
67.5°	215.6	188.6	159.8	132.9	119.4	104.0	77.0	55.9	38.5	26.9	19.2
70°	181.0	159.8	134.7	109.8	100.1	86.6	63.5	46.2	30.8	21.2	15.4
72.5°	144.4	127.1	107.8	88.6	80.8	67.4	52.0	36.6	23.1	15.4	11.6
75°	109.8	96.2	80.8	67.4	59.7	52.0	38.5	26.9	17.3	11.6	7.7
77.5°	75.1	69.3	57.7	46.2	42.3	36.6	25.0	17.3	11.6	7.7	3.8
80°	52.0	46.2	38.5	30.8	26.9	23.1	15.4	11.6	5.8	3.8	2.0
82.5°	32.7	26.9	23.1	19.2	17.3	13.5	9.6	5.8	3.8	2.0	2.0
85°	17.3	15.4	13.5	9.6	9.6	7.7	5.8	3.8	2.0	0.0	0.0
87.5°	9.6	7.7	5.8	3.8	3.8	2.0	2.0	2.0	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2013.8	2013.8	2013.8	2013.8	2013.8	2013.8	2013.8	2013.8	2013.8	2013.8	2013.8
2.5°	2025.4	2025.4	2023.4	2046.5	2019.6	2046.5	2033.1	2046.5	2027.3	2025.4	2027.3
5°	2040.7	2046.5	2048.5	2069.6	2044.6	2077.3	2065.8	2077.3	2063.9	2067.7	2073.5
7.5°	2071.5	2081.2	2079.3	2106.2	2081.2	2117.8	2110.0	2127.4	2113.9	2117.8	2125.5
10°	2106.2	2117.8	2119.7	2146.7	2123.5	2167.8	2158.2	2177.4	2165.9	2171.7	2181.3
12.5°	2146.7	2160.1	2162.1	2192.8	2167.8	2214.0	2208.2	2227.5	2217.9	2223.6	2235.2
15°	2177.4	2196.7	2200.6	2231.3	2204.4	2252.5	2248.7	2273.7	2258.3	2267.9	2277.6
17.5°	2192.8	2210.2	2217.9	2246.7	2223.6	2271.8	2267.9	2289.1	2277.6	2287.2	2298.8
20°	2183.2	2204.4	2210.2	2239.1	2216.0	2264.1	2258.3	2279.5	2267.9	2275.6	2287.2
22.5°	2148.5	2169.7	2177.4	2204.4	2183.2	2227.5	2225.6	2244.9	2229.4	2239.1	2248.7
25°	2087.0	2110.0	2113.9	2138.9	2115.8	2162.1	2158.2	2179.4	2167.8	2173.6	2187.0
27.5°	1998.4	2025.4	2031.1	2052.3	2035.0	2073.5	2073.5	2090.8	2077.3	2077.3	2090.8
30°	1892.5	1919.4	1923.3	1940.6	1925.2	1959.9	1961.8	1979.1	1957.9	1969.5	1971.5
32.5°	1763.5	1780.9	1792.4	1807.8	1784.7	1829.0	1823.2	1836.7	1825.2	1825.2	1834.8
35°	1607.6	1628.8	1634.6	1653.8	1634.6	1669.1	1669.1	1676.9	1665.3	1665.3	1680.7
37.5°	1438.2	1453.6	1455.5	1474.7	1459.3	1488.2	1486.3	1492.1	1480.5	1488.2	1488.2
40°	1239.8	1251.4	1255.2	1264.9	1263.0	1284.1	1282.2	1286.1	1280.3	1282.2	1286.1
42.5°	1008.9	1024.2	1031.9	1039.6	1028.1	1057.0	1051.2	1057.0	1055.0	1057.0	1062.8
45°	743.1	754.7	760.4	762.4	758.6	775.9	789.3	777.8	779.7	775.9	783.6
47.5°	537.1	539.1	535.2	546.8	537.1	544.9	548.7	550.6	539.1	537.1	544.9
50°	367.7	377.4	363.9	369.6	367.7	375.4	371.6	373.5	361.9	367.7	363.9
52.5°	244.5	242.6	238.7	240.7	236.8	236.8	236.8	240.7	232.9	229.1	225.3
55°	148.3	144.4	136.7	134.7	134.7	136.7	132.9	129.0	129.0	127.1	127.1
57.5°	86.6	80.8	77.0	75.1	71.2	69.3	67.4	67.4	63.5	63.5	63.5
60°	48.1	42.3	38.5	34.7	34.7	32.7	30.8	28.9	28.9	28.9	26.9
62.5°	25.0	21.2	17.3	15.4	15.4	13.5	11.6	11.6	11.6	11.6	9.6
65°	17.3	13.5	11.6	9.6	9.6	7.7	7.7	7.7	7.7	7.7	7.7
67.5°	13.5	11.6	9.6	7.7	7.7	7.7	5.8	5.8	5.8	5.8	5.8
70°	11.6	7.7	7.7	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
72.5°	7.7	7.7	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
75°	5.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
77.5°	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
80°	2.0	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: P684980

CATALOG NUMBER: LX6C35D010 EX6359040 6LCSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2013.8	2013.8	2013.8	2013.8	2013.8	2013.8	2013.8	2013.8
2.5°	2044.6	2042.7	2044.6	2048.5	2040.7	2063.9	2052.3	2063.9
5°	2088.9	2090.8	2092.7	2098.5	2088.9	2117.8	2102.4	2119.7
7.5°	2146.7	2148.5	2150.5	2156.3	2150.5	2179.4	2162.1	2177.4
10°	2206.4	2210.2	2210.2	2219.8	2214.0	2240.9	2229.4	2248.7
12.5°	2262.1	2266.0	2269.9	2275.6	2271.8	2300.6	2291.0	2306.4
15°	2306.4	2314.1	2316.1	2323.7	2319.9	2350.7	2339.1	2354.6
17.5°	2327.6	2335.3	2335.3	2344.9	2341.1	2373.8	2358.4	2375.8
20°	2316.1	2321.8	2323.7	2333.4	2329.5	2362.3	2346.9	2368.0
22.5°	2279.5	2281.4	2283.3	2293.0	2291.0	2319.9	2306.4	2319.9
25°	2212.1	2217.9	2216.0	2223.6	2223.6	2246.7	2231.3	2242.9
27.5°	2115.8	2121.6	2121.6	2131.2	2123.5	2146.7	2131.2	2148.5
30°	1998.4	2004.2	2000.3	2008.0	2000.3	2023.4	2011.8	2017.6
32.5°	1857.9	1857.9	1859.7	1861.7	1857.9	1879.0	1867.5	1879.0
35°	1690.4	1694.2	1696.1	1698.1	1694.2	1709.6	1696.1	1703.8
37.5°	1501.7	1511.3	1509.4	1511.3	1505.5	1524.8	1513.2	1517.1
40°	1299.5	1299.5	1297.6	1301.5	1295.7	1311.1	1303.4	1307.2
42.5°	1064.6	1070.4	1062.8	1072.4	1057.0	1078.1	1070.4	1064.6
45°	799.0	791.3	789.3	791.3	785.5	787.4	793.2	789.3
47.5°	544.9	544.9	541.0	535.2	542.9	544.9	537.1	537.1
50°	365.8	365.8	361.9	360.0	363.9	361.9	358.1	363.9
52.5°	232.9	225.3	225.3	229.1	225.3	221.4	227.2	223.3
55°	127.1	123.2	123.2	127.1	123.2	123.2	121.3	125.1
57.5°	61.6	63.5	61.6	61.6	61.6	61.6	59.7	61.6
60°	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9
62.5°	11.6	11.6	9.6	9.6	9.6	9.6	9.6	9.6
65°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
67.5°	5.8	5.8	5.8	5.8	5.8	7.7	5.8	5.8
70°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
72.5°	5.8	5.8	7.7	7.7	7.7	7.7	7.7	7.7
75°	3.8	3.8	3.8	2.0	2.0	2.0	2.0	2.0
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)