

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: P684985

Luminaire Tested: **LX6C35D010 EX6359050 6LCSWLI**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P684985
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 EX6359050 6LCSWLI
Description: 6 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LCSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

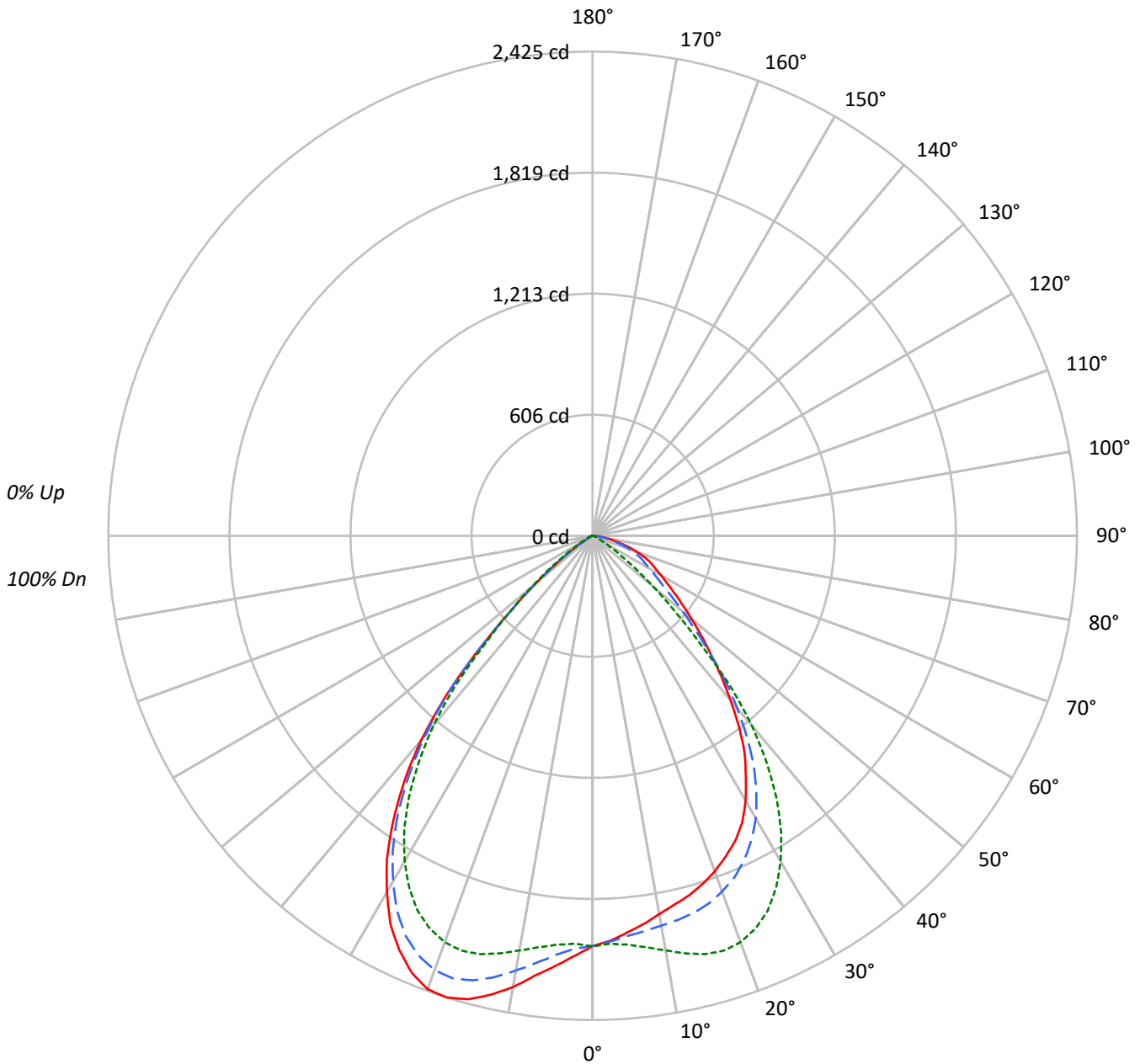
Lumens per Lamp: N/A
Luminaire Lumens: 3757.0 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P684985

CATALOG NUMBER: LX6C35D010 EX6359050 6LCSWLI

Luminous Intensity Polar Plot





TEST NUMBER: P684985

CATALOG NUMBER: LX6C35D010 EX6359050 6LCSWLI

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°	112677	112677	112677
5°	109756	113108	119051
10°	107084	117366	127759
15°	105835	123116	136391
20°	104315	126326	140998
25°	102103	125390	138468
30°	97021	119164	130355
35°	88767	107438	116379
40°	76780	88731	95479
45°	64751	58200	62456
50°	54966	33688	31675
55°	47702	16152	12205
60°	43089	7543	3015
65°	41794	4333	1012
70°	37474	3462	946
75°	30797	2499	424
80°	22951	1231	0
85°	19813	0	0



TEST NUMBER: P684985

CATALOG NUMBER: LX6C35D010 EX6359050 6LCSWLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.5	5.3
10°-20°	605.0	16.1
20°-30°	924.5	24.6
30°-40°	966.9	25.7
40°-50°	627.2	16.7
50°-60°	249.0	6.6
60°-70°	118.1	3.1
70°-80°	56.2	1.5
80°-90°	11.5	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°	1728.0	46.0
0°-40°	2694.9	71.7
0°-60°	3571.2	95.1
0°-90°	3757.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3757.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2055	2055	2055	2055	2055	
5°	1994	2012	2055	2106	2163	188
15°	1865	1955	2169	2305	2403	526
25°	1688	1794	2073	2212	2289	773
35°	1326	1407	1605	1700	1739	820
45°	835	827	751	796	806	650
55°	499	424	169	132	128	452
65°	322	267	33	8	8	315
75°	145	118	12	4	2	157
85°	32	20	0	0	0	37
90°	0	0	0	0	0	



TEST NUMBER: P684985

CATALOG NUMBER: LX6C35D010 EX6359050 6LCSWLI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2055.4	2055.4	2055.4	2055.4	2055.4	2055.4	2055.4	2055.4	2055.4	2055.4	2055.4
2.5°	2029.8	2033.7	2012.2	2006.3	2022.0	2027.8	2029.8	2023.9	2025.9	2033.7	2033.7
5°	1994.5	1998.4	1978.7	1972.8	1988.5	1992.5	1998.4	1996.4	2002.4	2014.1	2012.2
7.5°	1961.1	1967.0	1945.3	1937.5	1957.2	1967.0	1970.9	1970.9	1978.7	1994.5	1996.4
10°	1923.7	1931.6	1912.0	1908.0	1929.6	1939.4	1941.4	1945.3	1957.2	1978.7	1982.6
12.5°	1892.3	1900.1	1886.4	1880.5	1904.1	1913.9	1917.8	1925.7	1939.4	1967.0	1970.9
15°	1864.8	1870.7	1854.9	1851.0	1874.6	1886.4	1888.3	1900.1	1917.8	1949.3	1955.2
17.5°	1829.4	1833.3	1821.6	1817.6	1841.2	1852.9	1854.9	1868.7	1890.3	1921.8	1931.6
20°	1788.1	1792.1	1780.3	1776.4	1799.9	1813.7	1815.6	1827.5	1852.9	1886.4	1896.2
22.5°	1739.0	1746.9	1733.2	1729.2	1752.8	1764.5	1770.4	1780.3	1805.8	1839.2	1852.9
25°	1688.0	1688.0	1678.1	1676.1	1697.8	1711.5	1709.5	1723.3	1748.8	1782.3	1794.0
27.5°	1621.1	1619.1	1609.3	1607.4	1630.9	1642.8	1638.8	1652.6	1676.1	1709.5	1721.3
30°	1532.7	1536.6	1522.9	1518.9	1538.6	1558.3	1556.3	1570.0	1593.6	1625.0	1632.9
32.5°	1426.6	1430.5	1428.6	1422.7	1440.3	1450.1	1456.0	1465.9	1485.5	1518.9	1526.8
35°	1326.4	1320.5	1312.6	1312.6	1330.3	1346.0	1340.1	1351.9	1371.6	1404.9	1406.9
37.5°	1202.6	1200.6	1196.7	1192.8	1212.4	1216.3	1218.3	1226.1	1243.9	1271.3	1267.4
40°	1072.9	1074.8	1072.9	1065.0	1076.8	1092.5	1090.5	1094.5	1110.2	1129.8	1124.0
42.5°	951.0	951.0	951.0	943.2	956.9	964.8	968.8	966.8	970.7	988.4	980.5
45°	835.2	837.1	835.2	833.2	835.2	839.1	835.2	833.2	833.2	839.1	827.2
47.5°	734.9	734.9	729.0	723.1	729.0	730.9	725.1	719.2	717.2	715.3	695.6
50°	644.5	642.5	640.6	630.8	636.6	638.6	630.8	626.8	619.0	609.2	585.6
52.5°	565.9	564.0	562.0	552.1	556.1	558.0	550.2	542.3	532.5	524.7	495.2
55°	499.1	497.1	497.1	491.3	487.3	491.3	483.4	477.5	463.7	453.9	424.4
57.5°	442.1	442.1	438.2	432.3	434.3	434.3	426.4	418.5	406.7	395.0	371.4
60°	393.0	393.0	393.0	387.1	387.1	387.1	383.2	375.3	365.5	353.7	330.1
62.5°	353.7	353.7	351.7	345.9	347.8	347.8	343.9	336.0	326.2	318.3	294.8
65°	322.2	322.2	322.2	316.4	316.4	318.3	314.4	306.6	298.7	288.8	267.2
67.5°	282.9	281.0	281.0	277.0	279.0	281.0	277.0	271.2	261.4	255.5	235.8
70°	233.8	235.8	237.7	231.9	233.8	233.8	231.9	226.0	220.1	214.2	196.5
72.5°	190.6	190.6	188.6	186.7	186.7	188.6	184.7	178.8	174.9	171.0	157.2
75°	145.4	143.4	145.4	141.5	141.5	141.5	137.5	135.6	133.6	127.7	117.9
77.5°	106.1	104.1	104.1	100.2	102.2	102.2	100.2	96.3	92.3	90.4	82.5
80°	72.7	72.7	72.7	70.8	70.8	68.8	68.8	66.8	62.9	60.9	57.0
82.5°	49.1	49.1	49.1	47.2	47.2	47.2	45.2	43.2	41.3	39.3	35.4
85°	31.5	31.5	31.5	29.5	29.5	29.5	27.5	27.5	25.6	23.6	19.6
87.5°	17.7	17.7	17.7	15.7	15.7	15.7	15.7	15.7	13.7	11.8	9.8
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: P684985

CATALOG NUMBER: LX6C35D010 EX6359050 6LCSWLI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2055.4	2055.4	2055.4	2055.4	2055.4	2055.4	2055.4	2055.4	2055.4	2055.4	2055.4
2.5°	2047.5	2020.0	2037.7	2037.7	2031.8	2047.5	2057.4	2065.2	2063.2	2045.6	2043.6
5°	2031.8	2008.2	2027.8	2029.8	2023.9	2045.6	2059.3	2069.1	2071.1	2055.4	2057.4
7.5°	2020.0	2000.4	2025.9	2033.7	2031.8	2051.5	2067.2	2082.9	2090.8	2078.9	2080.9
10°	2014.1	1998.4	2025.9	2037.7	2039.7	2061.3	2084.8	2106.5	2116.3	2108.4	2114.3
12.5°	2006.3	1996.4	2027.8	2045.6	2053.4	2075.0	2104.5	2130.0	2145.8	2141.9	2153.6
15°	1998.4	1990.5	2027.8	2053.4	2063.2	2082.9	2116.3	2153.6	2171.3	2169.3	2185.1
17.5°	1978.7	1976.8	2016.1	2043.6	2057.4	2080.9	2112.3	2157.5	2175.2	2179.2	2198.8
20°	1947.3	1947.3	1990.5	2020.0	2035.7	2057.4	2096.7	2139.9	2161.5	2165.4	2187.1
22.5°	1904.1	1908.0	1949.3	1978.7	2002.4	2018.0	2059.3	2104.5	2124.1	2130.0	2153.6
25°	1847.1	1851.0	1890.3	1919.8	1945.3	1963.0	2002.4	2043.6	2067.2	2073.0	2090.8
27.5°	1772.4	1780.3	1817.6	1847.1	1868.7	1880.5	1921.8	1965.0	1982.6	1988.5	2006.3
30°	1686.0	1688.0	1725.3	1750.8	1772.4	1782.3	1817.6	1862.8	1876.6	1882.5	1908.0
32.5°	1579.8	1577.9	1613.3	1636.8	1654.5	1666.3	1703.6	1733.2	1746.9	1756.7	1770.4
35°	1452.1	1450.1	1475.7	1503.2	1517.0	1520.9	1558.3	1589.7	1597.6	1605.4	1623.1
37.5°	1308.7	1308.7	1330.3	1344.1	1359.7	1365.7	1383.4	1418.8	1432.5	1430.5	1444.2
40°	1157.4	1149.6	1165.2	1179.0	1182.9	1184.9	1202.6	1230.1	1239.9	1239.9	1249.7
42.5°	998.2	986.4	988.4	996.2	1000.1	986.4	998.2	1015.9	1010.0	1017.9	1019.9
45°	829.2	811.5	803.7	786.0	790.0	776.1	768.3	772.2	770.3	750.7	754.6
47.5°	691.7	660.3	646.5	621.0	615.1	599.3	589.5	571.8	556.1	556.1	546.2
50°	575.8	544.3	516.8	487.3	477.5	463.7	442.1	418.5	406.7	395.0	385.2
52.5°	483.4	450.0	416.5	385.2	371.4	353.7	324.2	300.7	279.0	267.2	255.5
55°	408.7	371.4	336.0	302.6	284.9	267.2	237.7	210.3	184.7	169.0	159.2
57.5°	351.7	316.4	279.0	243.6	227.9	208.3	176.9	147.3	123.8	106.1	96.3
60°	310.5	275.1	241.7	204.4	188.6	169.0	135.6	108.0	84.5	68.8	57.0
62.5°	275.1	243.6	208.3	174.9	159.2	139.5	108.0	80.6	58.9	43.2	33.4
65°	249.6	218.1	188.6	155.2	141.5	121.9	92.3	66.8	47.2	33.4	23.6
67.5°	220.1	192.5	163.1	135.6	121.9	106.1	78.6	57.0	39.3	27.5	19.6
70°	184.7	163.1	137.5	112.0	102.2	88.4	64.8	47.2	31.5	21.6	15.7
72.5°	147.3	129.7	110.0	90.4	82.5	68.8	53.0	37.4	23.6	15.7	11.8
75°	112.0	98.2	82.5	68.8	60.9	53.0	39.3	27.5	17.7	11.8	7.8
77.5°	76.7	70.8	58.9	47.2	43.2	37.4	25.6	17.7	11.8	7.8	3.9
80°	53.0	47.2	39.3	31.5	27.5	23.6	15.7	11.8	5.9	3.9	2.0
82.5°	33.4	27.5	23.6	19.6	17.7	13.7	9.8	5.9	3.9	2.0	2.0
85°	17.7	15.7	13.7	9.8	9.8	7.8	5.9	3.9	2.0	0.0	0.0
87.5°	9.8	7.8	5.9	3.9	3.9	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



TEST NUMBER: P684985

CATALOG NUMBER: LX6C35D010 EX6359050 6LCSWLI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2055.4	2055.4	2055.4	2055.4	2055.4	2055.4	2055.4	2055.4	2055.4	2055.4	2055.4
2.5°	2067.2	2067.2	2065.2	2088.8	2061.3	2088.8	2075.0	2088.8	2069.1	2067.2	2069.1
5°	2082.9	2088.8	2090.8	2112.3	2086.8	2120.2	2108.4	2120.2	2106.5	2110.4	2116.3
7.5°	2114.3	2124.1	2122.2	2149.7	2124.1	2161.5	2153.6	2171.3	2157.5	2161.5	2169.3
10°	2149.7	2161.5	2163.4	2191.0	2167.3	2212.5	2202.7	2222.4	2210.6	2216.5	2226.4
12.5°	2191.0	2204.7	2206.7	2238.1	2212.5	2259.7	2253.8	2273.5	2263.7	2269.6	2281.4
15°	2222.4	2242.0	2246.0	2277.4	2249.9	2299.0	2295.1	2320.7	2304.9	2314.8	2324.6
17.5°	2238.1	2255.8	2263.7	2293.1	2269.6	2318.7	2314.8	2336.4	2324.6	2334.4	2346.2
20°	2228.3	2249.9	2255.8	2285.3	2261.7	2310.8	2304.9	2326.6	2314.8	2322.6	2334.4
22.5°	2192.9	2214.5	2222.4	2249.9	2228.3	2273.5	2271.6	2291.2	2275.5	2285.3	2295.1
25°	2130.0	2153.6	2157.5	2183.1	2159.5	2206.7	2202.7	2224.4	2212.5	2218.5	2232.2
27.5°	2039.7	2067.2	2073.0	2094.7	2077.0	2116.3	2116.3	2134.0	2120.2	2120.2	2134.0
30°	1931.6	1959.1	1963.0	1980.7	1965.0	2000.4	2002.4	2020.0	1998.4	2010.2	2012.2
32.5°	1799.9	1817.6	1829.4	1845.1	1821.6	1866.8	1860.8	1874.6	1862.8	1862.8	1872.7
35°	1640.8	1662.4	1668.3	1688.0	1668.3	1703.6	1703.6	1711.5	1699.7	1699.7	1715.4
37.5°	1467.9	1483.6	1485.5	1505.2	1489.4	1518.9	1517.0	1522.9	1511.1	1518.9	1518.9
40°	1265.4	1277.2	1281.2	1291.0	1289.1	1310.6	1308.7	1312.6	1306.7	1308.7	1312.6
42.5°	1029.7	1045.3	1053.2	1061.1	1049.3	1078.8	1072.9	1078.8	1076.8	1078.8	1084.7
45°	758.5	770.3	776.1	778.1	774.2	791.9	805.6	793.9	795.8	791.9	799.8
47.5°	548.2	550.2	546.2	558.0	548.2	556.1	560.0	562.0	550.2	548.2	556.1
50°	375.3	385.2	371.4	377.3	375.3	383.2	379.2	381.2	369.4	375.3	371.4
52.5°	249.6	247.6	243.6	245.6	241.7	241.7	241.7	245.6	237.7	233.8	229.9
55°	151.3	147.3	139.5	137.5	137.5	139.5	135.6	131.7	131.7	129.7	129.7
57.5°	88.4	82.5	78.6	76.7	72.7	70.8	68.8	68.8	64.8	64.8	64.8
60°	49.1	43.2	39.3	35.4	35.4	33.4	31.5	29.5	29.5	29.5	27.5
62.5°	25.6	21.6	17.7	15.7	15.7	13.7	11.8	11.8	11.8	11.8	9.8
65°	17.7	13.7	11.8	9.8	9.8	7.8	7.8	7.8	7.8	7.8	7.8
67.5°	13.7	11.8	9.8	7.8	7.8	7.8	5.9	5.9	5.9	5.9	5.9
70°	11.8	7.8	7.8	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
72.5°	7.8	7.8	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
75°	5.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
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: P684985

CATALOG NUMBER: LX6C35D010 EX6359050 6LCSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2055.4	2055.4	2055.4	2055.4	2055.4	2055.4	2055.4	2055.4
2.5°	2086.8	2084.8	2086.8	2090.8	2082.9	2106.5	2094.7	2106.5
5°	2132.0	2134.0	2136.0	2141.9	2132.0	2161.5	2145.8	2163.4
7.5°	2191.0	2192.9	2194.9	2200.8	2194.9	2224.4	2206.7	2222.4
10°	2251.9	2255.8	2255.8	2265.6	2259.7	2287.2	2275.5	2295.1
12.5°	2308.9	2312.8	2316.8	2322.6	2318.7	2348.1	2338.3	2354.1
15°	2354.1	2361.9	2363.9	2371.7	2367.8	2399.2	2387.4	2403.2
17.5°	2375.7	2383.5	2383.5	2393.3	2389.4	2422.8	2407.1	2424.8
20°	2363.9	2369.8	2371.7	2381.6	2377.6	2411.1	2395.3	2416.9
22.5°	2326.6	2328.5	2330.5	2340.3	2338.3	2367.8	2354.1	2367.8
25°	2257.7	2263.7	2261.7	2269.6	2269.6	2293.1	2277.4	2289.2
27.5°	2159.5	2165.4	2165.4	2175.2	2167.3	2191.0	2175.2	2192.9
30°	2039.7	2045.6	2041.6	2049.5	2041.6	2065.2	2053.4	2059.3
32.5°	1896.2	1896.2	1898.1	1900.1	1896.2	1917.8	1906.0	1917.8
35°	1725.3	1729.2	1731.2	1733.2	1729.2	1744.9	1731.2	1739.0
37.5°	1532.7	1542.5	1540.5	1542.5	1536.6	1556.3	1544.5	1548.4
40°	1326.4	1326.4	1324.4	1328.4	1322.4	1338.2	1330.3	1334.2
42.5°	1086.6	1092.5	1084.7	1094.5	1078.8	1100.4	1092.5	1086.6
45°	815.5	807.6	805.6	807.6	801.7	803.7	809.6	805.6
47.5°	556.1	556.1	552.1	546.2	554.1	556.1	548.2	548.2
50°	373.3	373.3	369.4	367.4	371.4	369.4	365.5	371.4
52.5°	237.7	229.9	229.9	233.8	229.9	226.0	231.9	227.9
55°	129.7	125.8	125.8	129.7	125.8	125.8	123.8	127.7
57.5°	62.9	64.8	62.9	62.9	62.9	62.9	60.9	62.9
60°	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5
62.5°	11.8	11.8	9.8	9.8	9.8	9.8	9.8	9.8
65°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
67.5°	5.9	5.9	5.9	5.9	5.9	7.8	5.9	5.9
70°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
72.5°	5.9	5.9	7.8	7.8	7.8	7.8	7.8	7.8
75°	3.9	3.9	3.9	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)