

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: P684965

Luminaire Tested: **LX6C35D010 EX6359027 6LCSWLI**

Issue Date: 2/15/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P684965  
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 EX6359027 6LCSWLI  
Description: 6 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 6LCSW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

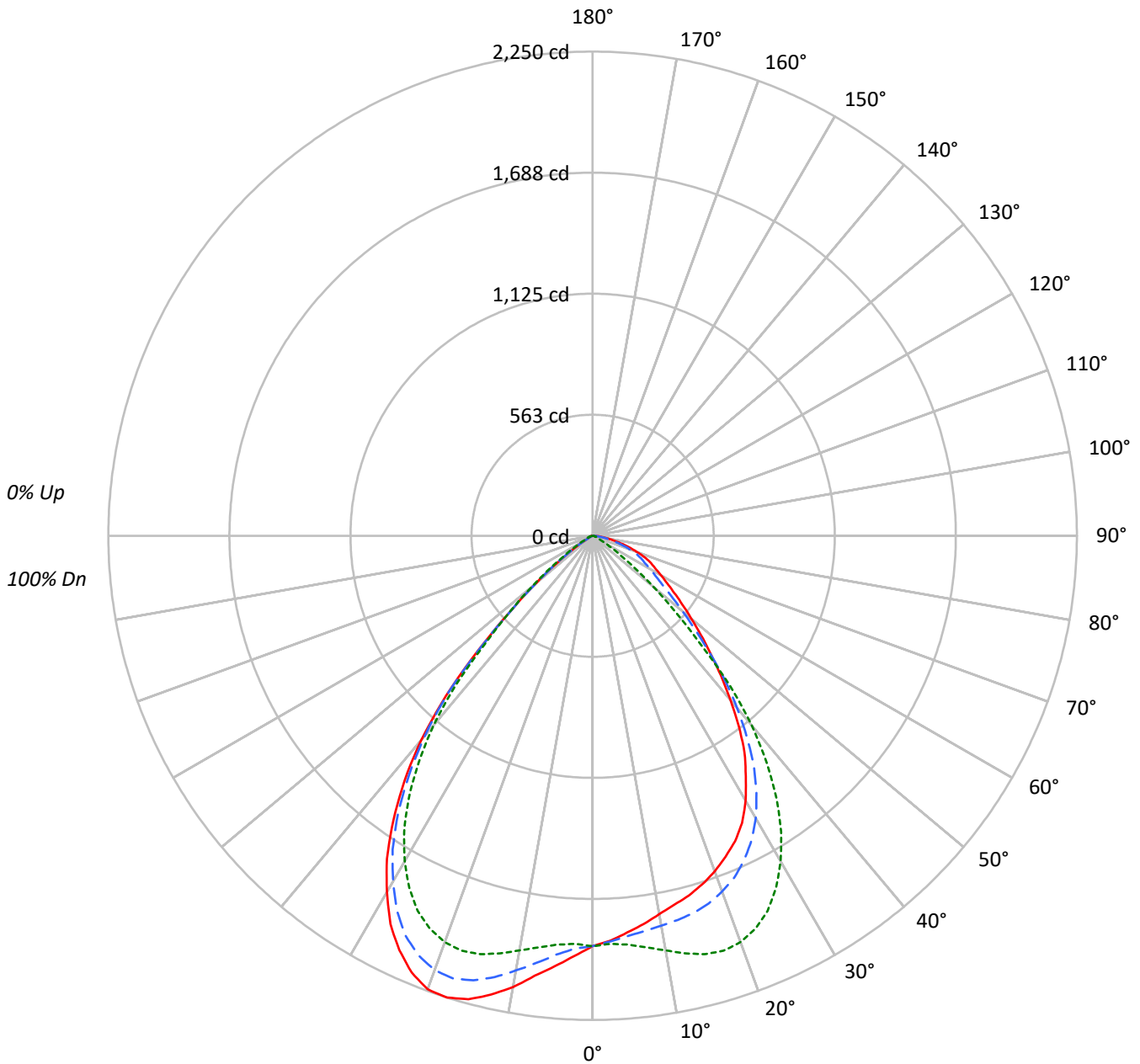
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3486.0 lumens  
Efficiency: N/A  
Efficacy: 86.3 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<sub>in</sub>): 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: P684965

CATALOG NUMBER: LX6C35D010 EX6359027 6LCSWLI

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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	104548	104548	104548
5°	101838	104947	110466
10°	99358	108899	118546
15°	98201	114240	126550
20°	96789	117214	130830
25°	94735	116347	128481
30°	90027	110568	120955
35°	82362	99689	107987
40°	71241	82326	88595
45°	60076	53998	57952
50°	51000	31257	29389
55°	44261	14986	11326
60°	39975	6995	2796
65°	38785	4021	947
70°	34782	3222	882
75°	28573	2330	402
80°	21278	1137	0
85°	18367	0	0



TEST NUMBER: P684965

CATALOG NUMBER: LX6C35D010 EX6359027 6LCSWLI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	184.2	5.3
10°-20°	561.4	16.1
20°-30°	857.8	24.6
30°-40°	897.2	25.7
40°-50°	582.0	16.7
50°-60°	231.1	6.6
60°-70°	109.6	3.1
70°-80°	52.1	1.5
80°-90°	10.6	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°	1603.4	46.0
0°-40°	2500.5	71.7
0°-60°	3313.6	95.1
0°-90°	3486.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3486.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1907	1907	1907	1907	1907	
5°	1851	1867	1907	1954	2007	175
15°	1730	1814	2013	2139	2230	488
25°	1566	1665	1924	2053	2124	717
35°	1231	1306	1490	1577	1614	761
45°	775	768	696	738	748	603
55°	463	394	157	122	118	420
65°	299	248	31	7	7	292
75°	135	109	11	4	2	146
85°	29	18	0	0	0	34
90°	0	0	0	0	0	



TEST NUMBER: P684965

CATALOG NUMBER: LX6C35D010 EX6359027 6LCSWLI

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1907.1	1907.1	1907.1	1907.1	1907.1	1907.1	1907.1	1907.1	1907.1	1907.1	1907.1
2.5°	1883.4	1887.0	1867.0	1861.6	1876.1	1881.6	1883.4	1877.9	1879.8	1887.0	1887.0
5°	1850.6	1854.2	1836.0	1830.5	1845.1	1848.8	1854.2	1852.4	1857.9	1868.8	1867.0
7.5°	1819.6	1825.1	1805.0	1797.8	1816.0	1825.1	1828.7	1828.7	1836.0	1850.6	1852.4
10°	1784.9	1792.3	1774.0	1770.3	1790.4	1799.5	1801.4	1805.0	1816.0	1836.0	1839.6
12.5°	1755.8	1763.1	1750.3	1744.8	1766.7	1775.8	1779.5	1786.8	1799.5	1825.1	1828.7
15°	1730.3	1735.7	1721.1	1717.5	1739.4	1750.3	1752.1	1763.1	1779.5	1808.6	1814.1
17.5°	1697.4	1701.1	1690.2	1686.5	1708.4	1719.3	1721.1	1733.9	1754.0	1783.2	1792.3
20°	1659.1	1662.8	1651.9	1648.2	1670.1	1682.8	1684.7	1695.6	1719.3	1750.3	1759.4
22.5°	1613.6	1620.9	1608.1	1604.4	1626.4	1637.3	1642.7	1651.9	1675.6	1706.5	1719.3
25°	1566.2	1566.2	1557.1	1555.2	1575.3	1588.1	1586.2	1599.0	1622.7	1653.7	1664.6
27.5°	1504.2	1502.3	1493.2	1491.4	1513.3	1524.3	1520.6	1533.4	1555.2	1586.2	1597.2
30°	1422.2	1425.8	1413.0	1409.3	1427.6	1445.9	1444.0	1456.8	1478.6	1507.8	1515.1
32.5°	1323.7	1327.3	1325.5	1320.0	1336.4	1345.5	1351.0	1360.1	1378.4	1409.3	1416.7
35°	1230.7	1225.2	1217.9	1217.9	1234.3	1248.9	1243.4	1254.4	1272.6	1303.6	1305.5
37.5°	1115.8	1114.0	1110.4	1106.7	1124.9	1128.6	1130.4	1137.7	1154.1	1179.6	1176.0
40°	995.5	997.3	995.5	988.2	999.1	1013.7	1011.9	1015.6	1030.1	1048.3	1042.9
42.5°	882.4	882.4	882.4	875.2	887.9	895.2	898.9	897.0	900.7	917.1	909.8
45°	774.9	776.7	774.9	773.1	774.9	778.5	774.9	773.1	773.1	778.5	767.6
47.5°	681.9	681.9	676.4	671.0	676.4	678.2	672.8	667.3	665.5	663.7	645.5
50°	598.0	596.2	594.4	585.3	590.7	592.6	585.3	581.6	574.3	565.2	543.4
52.5°	525.1	523.3	521.4	512.3	516.0	517.8	510.5	503.2	494.1	486.8	459.5
55°	463.1	461.3	461.3	455.8	452.1	455.8	448.5	443.0	430.3	421.2	393.8
57.5°	410.2	410.2	406.6	401.1	402.9	402.9	395.7	388.3	377.4	366.5	344.6
60°	364.6	364.6	364.6	359.2	359.2	359.2	355.5	348.3	339.1	328.2	306.3
62.5°	328.2	328.2	326.3	320.9	322.7	322.7	319.1	311.8	302.7	295.4	273.5
65°	299.0	299.0	299.0	293.6	293.6	295.4	291.7	284.5	277.1	268.0	247.9
67.5°	262.5	260.7	260.7	257.0	258.9	260.7	257.0	251.6	242.5	237.0	218.8
70°	217.0	218.8	220.6	215.2	217.0	217.0	215.2	209.7	204.2	198.7	182.4
72.5°	176.9	176.9	175.0	173.2	173.2	175.0	171.4	165.9	162.3	158.6	145.8
75°	134.9	133.1	134.9	131.3	131.3	131.3	127.6	125.8	124.0	118.5	109.4
77.5°	98.5	96.6	96.6	93.0	94.8	94.8	93.0	89.4	85.7	83.9	76.5
80°	67.4	67.4	67.4	65.6	65.6	63.8	63.8	62.0	58.3	56.5	52.9
82.5°	45.6	45.6	45.6	43.8	43.8	43.8	41.9	40.1	38.3	36.5	32.8
85°	29.2	29.2	29.2	27.3	27.3	27.3	25.5	25.5	23.7	21.9	18.2
87.5°	16.4	16.4	16.4	14.6	14.6	14.6	14.6	14.6	12.7	11.0	9.1
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: P684965

CATALOG NUMBER: LX6C35D010 EX6359027 6LCSWLI

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1907.1	1907.1	1907.1	1907.1	1907.1	1907.1	1907.1	1907.1	1907.1	1907.1	1907.1
2.5°	1899.8	1874.3	1890.7	1890.7	1885.3	1899.8	1909.0	1916.2	1914.4	1898.0	1896.2
5°	1885.3	1863.3	1881.6	1883.4	1877.9	1898.0	1910.8	1919.9	1921.7	1907.1	1909.0
7.5°	1874.3	1856.1	1879.8	1887.0	1885.3	1903.5	1918.1	1932.6	1939.9	1929.0	1930.8
10°	1868.8	1854.2	1879.8	1890.7	1892.5	1912.6	1934.5	1954.5	1963.7	1956.3	1961.8
12.5°	1861.6	1852.4	1881.6	1898.0	1905.3	1925.4	1952.7	1976.4	1991.0	1987.4	1998.3
15°	1854.2	1847.0	1881.6	1905.3	1914.4	1932.6	1963.7	1998.3	2014.7	2012.9	2027.5
17.5°	1836.0	1834.2	1870.7	1896.2	1909.0	1930.8	1960.0	2001.9	2018.3	2022.0	2040.2
20°	1806.9	1806.9	1847.0	1874.3	1888.9	1909.0	1945.4	1985.5	2005.6	2009.2	2029.3
22.5°	1766.7	1770.3	1808.6	1836.0	1857.9	1872.4	1910.8	1952.7	1970.9	1976.4	1998.3
25°	1713.9	1717.5	1754.0	1781.3	1805.0	1821.4	1857.9	1896.2	1918.1	1923.5	1939.9
27.5°	1644.6	1651.9	1686.5	1713.9	1733.9	1744.8	1783.2	1823.2	1839.6	1845.1	1861.6
30°	1564.3	1566.2	1600.8	1624.5	1644.6	1653.7	1686.5	1728.5	1741.2	1746.7	1770.3
32.5°	1465.9	1464.1	1496.9	1518.8	1535.2	1546.1	1580.7	1608.1	1620.9	1630.0	1642.7
35°	1347.4	1345.5	1369.2	1394.8	1407.6	1411.2	1445.9	1475.0	1482.3	1489.6	1506.0
37.5°	1214.3	1214.3	1234.3	1247.1	1261.7	1267.1	1283.6	1316.4	1329.2	1327.3	1340.1
40°	1073.9	1066.6	1081.2	1094.0	1097.6	1099.4	1115.8	1141.3	1150.4	1150.4	1159.6
42.5°	926.2	915.3	917.1	924.4	928.0	915.3	926.2	942.6	937.1	944.4	946.3
45°	769.4	753.0	745.7	729.3	733.0	720.2	712.9	716.5	714.7	696.5	700.1
47.5°	641.8	612.6	599.8	576.2	570.7	556.1	547.0	530.5	516.0	516.0	506.8
50°	534.2	505.0	479.5	452.1	443.0	430.3	410.2	388.3	377.4	366.5	357.4
52.5°	448.5	417.5	386.5	357.4	344.6	328.2	300.8	279.0	258.9	247.9	237.0
55°	379.2	344.6	311.8	280.8	264.4	247.9	220.6	195.1	171.4	156.8	147.7
57.5°	326.3	293.6	258.9	226.1	211.5	193.2	164.1	136.7	114.9	98.5	89.4
60°	288.1	255.3	224.3	189.6	175.0	156.8	125.8	100.3	78.4	63.8	52.9
62.5°	255.3	226.1	193.2	162.3	147.7	129.4	100.3	74.8	54.7	40.1	31.0
65°	231.6	202.4	175.0	144.0	131.3	113.1	85.7	62.0	43.8	31.0	21.9
67.5°	204.2	178.7	151.3	125.8	113.1	98.5	72.9	52.9	36.5	25.5	18.2
70°	171.4	151.3	127.6	104.0	94.8	82.0	60.2	43.8	29.2	20.1	14.6
72.5°	136.7	120.3	102.1	83.9	76.5	63.8	49.2	34.7	21.9	14.6	11.0
75°	104.0	91.1	76.5	63.8	56.5	49.2	36.5	25.5	16.4	11.0	7.3
77.5°	71.1	65.6	54.7	43.8	40.1	34.7	23.7	16.4	11.0	7.3	3.6
80°	49.2	43.8	36.5	29.2	25.5	21.9	14.6	11.0	5.5	3.6	1.9
82.5°	31.0	25.5	21.9	18.2	16.4	12.7	9.1	5.5	3.6	1.9	1.9
85°	16.4	14.6	12.7	9.1	9.1	7.3	5.5	3.6	1.9	0.0	0.0
87.5°	9.1	7.3	5.5	3.6	3.6	1.9	1.9	1.9	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: P684965

CATALOG NUMBER: LX6C35D010 EX6359027 6LCSWLI

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1907.1	1907.1	1907.1	1907.1	1907.1	1907.1	1907.1	1907.1	1907.1	1907.1	1907.1
2.5°	1918.1	1918.1	1916.2	1938.1	1912.6	1938.1	1925.4	1938.1	1919.9	1918.1	1919.9
5°	1932.6	1938.1	1939.9	1960.0	1936.3	1967.3	1956.3	1967.3	1954.5	1958.2	1963.7
7.5°	1961.8	1970.9	1969.1	1994.6	1970.9	2005.6	1998.3	2014.7	2001.9	2005.6	2012.9
10°	1994.6	2005.6	2007.4	2032.9	2011.0	2052.9	2043.8	2062.1	2051.2	2056.6	2065.8
12.5°	2032.9	2045.7	2047.5	2076.7	2052.9	2096.7	2091.3	2109.5	2100.4	2105.9	2116.8
15°	2062.1	2080.3	2084.0	2113.1	2087.6	2133.2	2129.6	2153.3	2138.7	2147.8	2156.9
17.5°	2076.7	2093.1	2100.4	2127.7	2105.9	2151.4	2147.8	2167.9	2156.9	2166.0	2177.0
20°	2067.5	2087.6	2093.1	2120.4	2098.6	2144.2	2138.7	2158.8	2147.8	2155.1	2166.0
22.5°	2034.7	2054.8	2062.1	2087.6	2067.5	2109.5	2107.7	2125.9	2111.3	2120.4	2129.6
25°	1976.4	1998.3	2001.9	2025.6	2003.7	2047.5	2043.8	2063.9	2052.9	2058.4	2071.2
27.5°	1892.5	1918.1	1923.5	1943.6	1927.2	1963.7	1963.7	1980.0	1967.3	1967.3	1980.0
30°	1792.3	1817.8	1821.4	1837.8	1823.2	1856.1	1857.9	1874.3	1854.2	1865.2	1867.0
32.5°	1670.1	1686.5	1697.4	1712.0	1690.2	1732.1	1726.6	1739.4	1728.5	1728.5	1737.6
35°	1522.4	1542.5	1548.0	1566.2	1548.0	1580.7	1580.7	1588.1	1577.1	1577.1	1591.7
37.5°	1362.0	1376.6	1378.4	1396.6	1382.0	1409.3	1407.6	1413.0	1402.1	1409.3	1409.3
40°	1174.2	1185.1	1188.7	1197.9	1196.1	1216.1	1214.3	1217.9	1212.5	1214.3	1217.9
42.5°	955.4	969.9	977.3	984.5	973.6	1001.0	995.5	1001.0	999.1	1001.0	1006.5
45°	703.8	714.7	720.2	722.0	718.4	734.8	747.5	736.6	738.4	734.8	742.1
47.5°	508.7	510.5	506.8	517.8	508.7	516.0	519.6	521.4	510.5	508.7	516.0
50°	348.3	357.4	344.6	350.0	348.3	355.5	351.9	353.7	342.8	348.3	344.6
52.5°	231.6	229.7	226.1	227.9	224.3	224.3	224.3	227.9	220.6	217.0	213.3
55°	140.4	136.7	129.4	127.6	127.6	129.4	125.8	122.2	122.2	120.3	120.3
57.5°	82.0	76.5	72.9	71.1	67.4	65.6	63.8	63.8	60.2	60.2	60.2
60°	45.6	40.1	36.5	32.8	32.8	31.0	29.2	27.3	27.3	27.3	25.5
62.5°	23.7	20.1	16.4	14.6	14.6	12.7	11.0	11.0	11.0	11.0	9.1
65°	16.4	12.7	11.0	9.1	9.1	7.3	7.3	7.3	7.3	7.3	7.3
67.5°	12.7	11.0	9.1	7.3	7.3	7.3	5.5	5.5	5.5	5.5	5.5
70°	11.0	7.3	7.3	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
72.5°	7.3	7.3	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
75°	5.5	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
77.5°	1.9	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
80°	1.9	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: P684965

CATALOG NUMBER: LX6C35D010 EX6359027 6LCSWLI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1907.1	1907.1	1907.1	1907.1	1907.1	1907.1	1907.1	1907.1
2.5°	1936.3	1934.5	1936.3	1939.9	1932.6	1954.5	1943.6	1954.5
5°	1978.3	1980.0	1981.9	1987.4	1978.3	2005.6	1991.0	2007.4
7.5°	2032.9	2034.7	2036.6	2042.1	2036.6	2063.9	2047.5	2062.1
10°	2089.5	2093.1	2093.1	2102.2	2096.7	2122.2	2111.3	2129.6
12.5°	2142.3	2145.9	2149.6	2155.1	2151.4	2178.8	2169.7	2184.2
15°	2184.2	2191.5	2193.4	2200.6	2197.0	2226.2	2215.2	2229.8
17.5°	2204.3	2211.6	2211.6	2220.7	2217.1	2248.0	2233.5	2249.9
20°	2193.4	2198.8	2200.6	2209.8	2206.1	2237.2	2222.6	2242.6
22.5°	2158.8	2160.5	2162.4	2171.5	2169.7	2197.0	2184.2	2197.0
25°	2094.9	2100.4	2098.6	2105.9	2105.9	2127.7	2113.1	2124.1
27.5°	2003.7	2009.2	2009.2	2018.3	2011.0	2032.9	2018.3	2034.7
30°	1892.5	1898.0	1894.4	1901.6	1894.4	1916.2	1905.3	1910.8
32.5°	1759.4	1759.4	1761.2	1763.1	1759.4	1779.5	1768.6	1779.5
35°	1600.8	1604.4	1606.3	1608.1	1604.4	1619.0	1606.3	1613.6
37.5°	1422.2	1431.3	1429.4	1431.3	1425.8	1444.0	1433.0	1436.7
40°	1230.7	1230.7	1228.8	1232.5	1227.1	1241.7	1234.3	1238.0
42.5°	1008.2	1013.7	1006.5	1015.6	1001.0	1021.0	1013.7	1008.2
45°	756.7	749.3	747.5	749.3	743.9	745.7	751.2	747.5
47.5°	516.0	516.0	512.3	506.8	514.2	516.0	508.7	508.7
50°	346.4	346.4	342.8	340.9	344.6	342.8	339.1	344.6
52.5°	220.6	213.3	213.3	217.0	213.3	209.7	215.2	211.5
55°	120.3	116.7	116.7	120.3	116.7	116.7	114.9	118.5
57.5°	58.3	60.2	58.3	58.3	58.3	58.3	56.5	58.3
60°	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5
62.5°	11.0	11.0	9.1	9.1	9.1	9.1	9.1	9.1
65°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
67.5°	5.5	5.5	5.5	5.5	5.5	7.3	5.5	5.5
70°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
72.5°	5.5	5.5	7.3	7.3	7.3	7.3	7.3	7.3
75°	3.6	3.6	3.6	1.9	1.9	1.9	1.9	1.9
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)