

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: P684262

Luminaire Tested: **LX6C40D010 EX6C409035 6LBLWWH**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P684262
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: LX6C40D010 EX6C409035 6LBLWWH
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

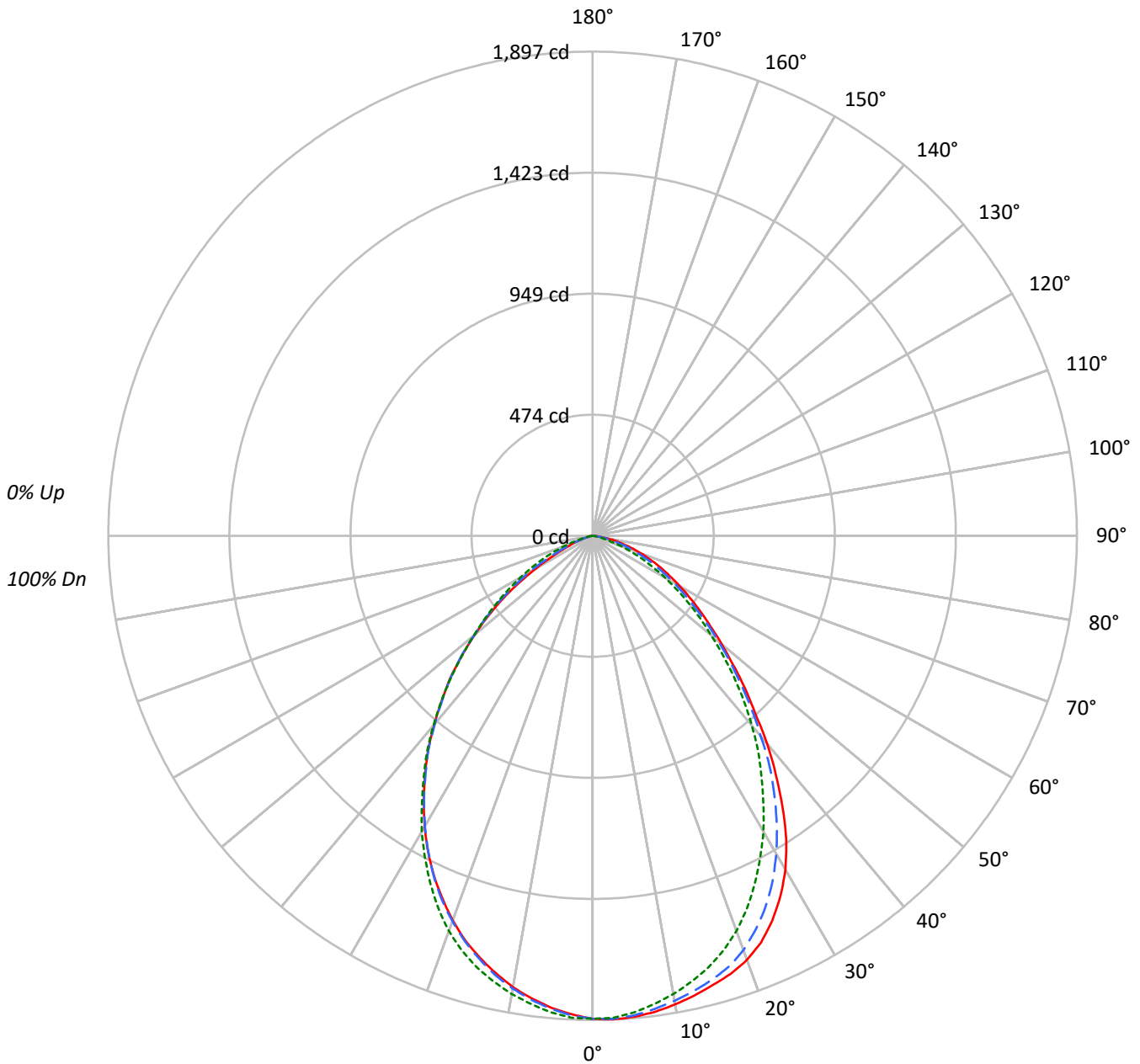
Lumens per Lamp: N/A
Luminaire Lumens: 3442.0 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P684262

CATALOG NUMBER: LX6C40D010 EX6C409035 6LBLWWH

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	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°	103736	103736	103736
5°	104094	103153	102135
10°	103778	101479	99987
15°	103389	99382	97072
20°	103160	96107	93546
25°	100645	90949	88953
30°	95622	84716	83304
35°	86793	77129	76620
40°	76150	69416	69051
45°	65286	60657	61146
50°	56203	51700	51427
55°	49117	43650	40973
60°	43165	35776	27969
65°	37786	27720	16837
70°	32217	18657	9889
75°	26010	9701	5380
80°	18058	3820	2999
85°	7170	1195	1572



TEST NUMBER: P684262

CATALOG NUMBER: LX6C40D010 EX6C409035 6LBLWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.3	5.2
10°-20°	495.1	14.4
20°-30°	704.6	20.5
30°-40°	741.6	21.5
40°-50°	618.0	18.0
50°-60°	417.5	12.1
60°-70°	211.7	6.2
70°-80°	68.3	2.0
80°-90°	7.8	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°	1377.0	40.0
0°-40°	2118.6	61.6
0°-60°	3154.1	91.6
0°-90°	3442.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3442.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1892	1892	1892	1892	1892	
5°	1892	1886	1874	1860	1856	180
15°	1822	1802	1751	1716	1710	515
25°	1664	1604	1504	1472	1471	763
35°	1297	1241	1152	1141	1145	807
45°	842	820	782	786	789	652
55°	514	489	457	443	429	463
65°	291	263	214	155	130	290
75°	123	96	46	25	25	133
85°	11	6	2	2	2	20
90°	0	0	0	0	0	



TEST NUMBER: P684262

CATALOG NUMBER: LX6C40D010 EX6C409035 6LBLWWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1892.3	1892.3	1892.3	1892.3	1892.3	1892.3	1892.3	1892.3	1892.3	1892.3	1892.3
2.5°	1896.7	1896.7	1896.7	1896.7	1896.7	1896.7	1896.1	1896.1	1894.8	1894.8	1894.2
5°	1891.6	1892.3	1892.3	1891.6	1891.6	1890.4	1890.4	1889.7	1887.8	1886.6	1885.9
7.5°	1880.8	1880.8	1880.2	1879.6	1878.9	1877.0	1876.4	1874.5	1873.2	1871.9	1869.4
10°	1864.3	1864.3	1863.7	1862.4	1861.8	1860.5	1860.5	1857.9	1855.4	1852.2	1850.3
12.5°	1844.6	1845.2	1843.9	1843.3	1841.4	1840.8	1839.5	1836.3	1834.4	1830.6	1827.4
15°	1821.7	1823.0	1823.0	1820.4	1818.5	1817.9	1816.0	1814.0	1809.6	1805.8	1802.0
17.5°	1799.4	1800.7	1799.4	1797.5	1795.6	1793.1	1791.8	1788.0	1782.2	1777.2	1771.4
20°	1768.3	1770.2	1767.6	1764.4	1760.6	1760.0	1758.1	1751.7	1743.4	1735.8	1727.5
22.5°	1724.4	1723.1	1721.2	1719.9	1713.5	1709.7	1707.2	1698.9	1690.0	1679.8	1669.7
25°	1663.9	1666.5	1662.7	1656.9	1653.8	1649.9	1643.6	1634.7	1626.4	1615.6	1603.5
27.5°	1592.7	1592.7	1587.6	1585.7	1578.7	1573.6	1570.4	1561.5	1550.7	1539.9	1526.5
30°	1510.6	1506.8	1506.8	1497.9	1492.2	1490.3	1487.1	1472.5	1462.9	1451.5	1438.1
32.5°	1411.4	1410.8	1408.2	1402.5	1394.9	1388.5	1388.5	1378.3	1365.6	1351.6	1343.4
35°	1296.9	1297.6	1296.3	1289.9	1289.9	1282.3	1281.0	1272.1	1261.9	1251.1	1241.0
37.5°	1178.6	1181.2	1178.6	1175.4	1173.5	1172.9	1167.2	1160.8	1153.2	1146.8	1139.2
40°	1064.1	1060.3	1061.6	1055.2	1055.9	1054.6	1052.0	1043.8	1039.3	1033.0	1024.7
42.5°	940.7	944.6	945.8	942.0	940.7	938.2	940.7	937.6	932.5	929.3	921.7
45°	842.1	838.3	840.2	839.0	839.6	834.5	832.6	831.3	829.4	823.7	820.5
47.5°	744.2	744.8	744.2	741.6	740.4	740.4	737.8	734.0	734.0	730.2	727.7
50°	659.0	659.0	660.2	657.1	655.8	653.2	653.9	650.1	647.5	644.3	642.4
52.5°	580.7	581.4	578.8	579.5	578.2	578.2	575.6	573.1	570.5	564.8	563.6
55°	513.9	514.6	511.4	512.7	508.8	506.9	505.7	501.9	501.9	496.1	489.1
57.5°	451.6	451.0	450.3	448.4	445.9	444.0	442.1	437.6	435.7	431.9	426.2
60°	393.7	393.1	391.8	391.2	389.3	384.8	384.8	381.6	375.3	371.5	365.7
62.5°	339.0	339.0	338.4	336.5	334.6	332.7	331.4	328.8	322.5	318.0	312.9
65°	291.3	290.7	288.8	285.6	284.3	284.3	279.9	278.0	272.9	268.4	262.7
67.5°	245.5	243.0	241.7	242.3	238.5	238.5	234.7	231.5	227.1	219.4	215.0
70°	201.0	199.7	198.5	197.2	196.5	194.0	192.1	188.3	183.8	178.1	171.1
72.5°	160.9	160.9	159.0	157.7	155.8	153.3	152.0	148.8	143.7	137.4	132.3
75°	122.8	122.8	122.8	120.2	118.9	117.7	113.9	111.9	106.2	102.4	96.0
77.5°	90.3	89.0	87.1	86.5	85.2	84.0	82.1	78.9	73.8	69.3	65.5
80°	57.2	59.2	57.2	57.2	54.1	52.8	52.2	48.3	46.4	42.6	39.4
82.5°	31.8	32.4	31.2	30.5	28.6	28.0	28.0	25.4	24.2	21.6	19.7
85°	11.4	12.1	11.4	11.4	10.2	10.8	10.2	9.5	8.3	7.0	6.4
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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: P684262

CATALOG NUMBER: LX6C40D010 EX6C409035 6LBLWWH

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1892.3	1892.3	1892.3	1892.3	1892.3	1892.3	1892.3	1892.3	1892.3	1892.3	1892.3
2.5°	1894.2	1892.9	1892.9	1892.3	1891.6	1891.6	1891.6	1891.0	1889.7	1889.7	1889.1
5°	1884.6	1883.4	1881.5	1880.2	1879.6	1878.9	1878.3	1877.7	1875.1	1874.5	1872.6
7.5°	1867.5	1866.2	1863.0	1861.8	1859.8	1859.2	1856.7	1855.4	1852.8	1850.3	1849.0
10°	1847.1	1843.9	1841.4	1838.2	1836.9	1835.0	1831.9	1828.0	1826.1	1823.0	1820.4
12.5°	1824.2	1820.4	1815.3	1811.5	1810.2	1807.0	1802.0	1798.8	1794.3	1789.2	1784.8
15°	1795.6	1791.1	1786.7	1779.7	1777.8	1774.0	1768.9	1762.5	1756.2	1751.1	1746.0
17.5°	1764.4	1757.4	1750.4	1742.8	1737.1	1735.2	1726.9	1718.0	1712.3	1703.4	1697.6
20°	1720.5	1711.0	1699.6	1691.9	1686.8	1681.1	1671.6	1662.0	1655.0	1647.4	1639.1
22.5°	1660.1	1651.2	1637.9	1626.4	1622.6	1614.3	1606.1	1597.1	1588.2	1580.0	1569.8
25°	1588.9	1579.3	1566.0	1554.5	1548.2	1544.4	1528.5	1519.6	1510.6	1503.6	1496.7
27.5°	1515.7	1498.6	1489.7	1471.8	1466.1	1464.8	1450.2	1440.7	1431.1	1421.6	1412.7
30°	1425.4	1412.1	1398.7	1386.0	1378.3	1373.9	1363.1	1351.0	1344.6	1338.3	1329.4
32.5°	1331.9	1319.8	1303.3	1291.2	1285.5	1279.1	1269.6	1261.3	1251.8	1244.8	1242.9
35°	1232.1	1218.7	1204.7	1195.8	1194.5	1186.9	1177.3	1170.4	1163.4	1152.5	1150.6
37.5°	1125.2	1117.6	1108.0	1095.3	1089.6	1089.6	1080.0	1074.9	1066.0	1065.4	1060.3
40°	1020.2	1017.1	1002.4	998.6	997.3	988.4	985.9	977.0	970.6	970.0	962.4
42.5°	916.6	908.3	905.8	899.4	893.7	892.4	886.7	882.9	880.3	876.5	872.7
45°	813.5	811.6	805.3	800.8	798.9	796.3	794.4	786.8	785.5	782.4	780.4
47.5°	724.5	719.4	713.7	708.6	707.9	704.1	699.7	699.7	692.7	692.0	690.8
50°	636.1	632.2	629.1	622.1	623.3	618.3	617.6	611.9	608.7	606.2	609.3
52.5°	558.5	550.8	549.6	543.8	541.9	542.6	535.6	533.7	532.4	529.8	528.6
55°	484.7	480.9	475.8	472.0	468.8	465.6	463.1	463.1	456.1	456.7	453.5
57.5°	419.8	416.6	410.3	404.5	403.3	399.4	396.3	393.1	392.4	388.0	384.8
60°	361.9	356.2	347.9	345.4	341.6	338.4	335.2	331.4	329.5	326.3	320.6
62.5°	307.9	298.3	295.1	290.0	285.6	283.7	278.6	274.1	271.0	266.5	262.1
65°	256.3	249.3	243.6	237.9	237.3	232.2	227.7	223.9	217.5	213.7	205.4
67.5°	209.3	202.9	196.5	190.8	186.4	185.1	178.1	173.6	169.2	161.6	154.6
70°	166.0	159.7	154.6	147.6	145.7	140.6	135.5	131.0	123.4	116.4	110.7
72.5°	126.6	119.6	113.9	108.8	105.6	101.1	96.0	91.0	83.3	76.3	71.2
75°	90.3	85.2	79.5	74.4	71.9	69.3	63.6	57.9	52.8	45.8	41.3
77.5°	61.1	56.0	50.9	46.4	43.3	41.3	37.5	33.1	28.6	24.8	21.6
80°	35.6	32.4	28.6	24.8	24.2	22.3	19.1	16.5	14.0	12.1	9.5
82.5°	17.2	15.3	12.7	10.8	9.5	8.9	7.6	6.4	5.1	4.5	4.5
85°	5.1	4.5	3.8	3.2	2.5	2.5	1.9	1.9	1.9	1.9	1.9
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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: P684262

CATALOG NUMBER: LX6C40D010 EX6C409035 6LBLWWH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1892.3	1892.3	1892.3	1892.3	1892.3	1892.3	1892.3	1892.3	1892.3	1892.3	1892.3
2.5°	1887.2	1886.6	1885.9	1885.3	1884.0	1884.0	1882.1	1880.8	1880.8	1879.6	1878.9
5°	1870.7	1868.7	1868.1	1866.8	1865.6	1864.9	1862.4	1861.8	1860.5	1859.2	1859.2
7.5°	1847.1	1844.6	1842.0	1840.8	1840.1	1838.2	1836.9	1836.3	1834.4	1833.1	1830.6
10°	1816.0	1814.0	1810.9	1809.6	1808.3	1807.0	1803.9	1802.0	1801.3	1800.1	1798.8
12.5°	1779.7	1777.2	1774.0	1771.4	1770.2	1768.3	1765.1	1763.2	1763.2	1760.6	1760.6
15°	1740.9	1737.1	1731.4	1728.8	1728.2	1724.4	1721.8	1719.3	1716.1	1714.8	1714.8
17.5°	1691.3	1684.9	1679.8	1679.8	1677.3	1673.5	1669.7	1667.8	1665.8	1663.3	1662.0
20°	1632.8	1628.3	1622.6	1622.6	1616.9	1615.6	1611.8	1611.1	1606.7	1607.3	1605.4
22.5°	1562.2	1559.6	1556.4	1553.9	1550.7	1546.9	1545.0	1545.6	1543.7	1543.1	1542.4
25°	1490.9	1483.9	1480.1	1478.8	1477.6	1474.4	1473.1	1472.5	1472.5	1470.6	1471.2
27.5°	1408.9	1403.8	1398.7	1400.6	1398.1	1396.2	1394.9	1393.0	1394.2	1393.6	1394.2
30°	1324.9	1318.6	1315.4	1316.6	1316.0	1310.9	1313.5	1312.8	1313.5	1313.5	1314.7
32.5°	1236.5	1232.1	1231.4	1232.1	1226.3	1227.0	1224.4	1228.2	1228.9	1232.7	1229.5
35°	1146.8	1144.3	1139.8	1139.2	1139.8	1139.2	1139.2	1141.7	1141.1	1144.9	1143.6
37.5°	1054.6	1053.3	1048.9	1050.1	1047.6	1052.0	1053.3	1052.0	1056.5	1055.2	1054.6
40°	964.3	962.4	959.8	964.9	961.7	959.2	963.6	959.8	961.1	964.9	964.9
42.5°	872.7	869.5	869.5	869.5	868.9	868.9	870.8	872.7	871.4	872.0	877.1
45°	780.4	779.8	777.9	779.2	778.5	781.7	781.7	783.0	785.5	788.1	786.8
47.5°	691.4	690.1	692.0	690.8	691.4	689.5	690.8	694.6	697.8	693.3	697.8
50°	608.1	605.5	604.9	606.8	606.2	605.5	606.8	606.8	605.5	605.5	610.0
52.5°	528.6	526.0	524.1	527.3	525.4	526.0	523.5	523.5	524.8	523.5	521.6
55°	454.1	452.2	449.7	451.0	447.8	447.2	444.6	444.6	442.7	441.4	437.6
57.5°	382.9	381.6	375.9	375.3	375.9	371.5	367.0	365.1	360.0	358.7	358.1
60°	319.9	312.9	309.8	305.9	303.4	301.5	296.4	293.2	285.6	281.1	280.5
62.5°	254.4	251.2	247.4	241.7	240.4	234.1	229.0	220.7	216.9	211.2	205.4
65°	201.6	193.4	187.6	184.5	179.4	173.6	167.9	159.0	154.6	147.6	141.8
67.5°	147.6	140.6	132.9	130.4	125.9	118.9	113.2	105.6	101.8	95.4	93.5
70°	101.1	94.8	89.0	85.2	82.1	75.1	69.3	66.8	63.0	61.7	61.7
72.5°	64.9	59.2	52.8	50.9	48.3	44.5	40.7	39.4	40.7	40.1	40.1
75°	36.3	33.1	28.6	26.7	26.7	25.4	24.8	24.8	24.8	24.8	24.8
77.5°	18.4	16.5	15.3	14.6	14.6	14.6	15.3	15.3	15.3	15.9	15.3
80°	8.9	8.3	8.3	8.3	8.9	8.9	8.9	8.9	8.9	9.5	8.9
82.5°	4.5	4.5	4.5	4.5	4.5	4.5	5.1	5.1	5.1	5.1	5.1
85°	1.9	1.9	1.9	1.9	2.5	2.5	2.5	2.5	2.5	2.5	2.5
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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: P684262

CATALOG NUMBER: LX6C40D010 EX6C409035 6LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1892.3	1892.3	1892.3	1892.3	1892.3	1892.3	1892.3	1892.3
2.5°	1878.3	1877.0	1877.0	1876.4	1876.4	1876.4	1876.4	1877.0
5°	1857.9	1857.3	1857.3	1856.0	1856.0	1856.0	1856.0	1856.0
7.5°	1830.6	1829.3	1829.9	1828.7	1828.7	1829.3	1828.7	1828.0
10°	1796.9	1796.2	1796.9	1796.9	1795.6	1795.0	1795.6	1796.2
12.5°	1758.7	1758.1	1756.8	1757.4	1757.4	1756.8	1756.2	1754.9
15°	1714.2	1713.5	1712.9	1712.3	1711.6	1712.3	1711.6	1710.4
17.5°	1662.0	1662.0	1661.4	1660.8	1660.1	1658.8	1659.5	1661.4
20°	1606.1	1605.4	1604.1	1604.8	1602.2	1601.0	1601.6	1603.5
22.5°	1541.8	1539.9	1541.2	1539.3	1539.3	1539.9	1539.3	1538.0
25°	1471.8	1469.3	1470.6	1471.2	1471.2	1470.6	1469.9	1470.6
27.5°	1394.2	1396.2	1396.2	1394.9	1396.8	1394.2	1395.5	1396.2
30°	1314.7	1312.8	1312.2	1314.7	1318.6	1315.4	1315.4	1316.0
32.5°	1232.7	1230.1	1230.1	1231.4	1230.8	1230.8	1233.3	1230.1
35°	1144.9	1146.2	1141.1	1144.3	1145.5	1144.3	1144.9	1144.9
37.5°	1056.5	1055.2	1055.2	1055.2	1057.1	1057.1	1058.4	1057.8
40°	969.4	966.8	966.2	967.4	964.9	966.8	966.8	964.9
42.5°	875.2	875.9	879.0	875.9	876.5	875.9	874.6	873.9
45°	788.1	790.0	788.7	788.1	788.7	786.2	786.8	788.7
47.5°	695.9	699.7	695.9	698.4	697.8	696.5	695.2	692.7
50°	609.3	610.6	610.0	609.3	608.7	608.1	604.9	603.0
52.5°	520.9	520.9	520.9	520.9	514.6	517.8	516.5	512.7
55°	434.4	436.3	433.8	433.8	429.3	429.3	428.1	428.7
57.5°	351.1	349.2	347.3	347.3	342.8	340.9	339.0	336.5
60°	273.5	271.6	269.1	265.9	261.4	261.4	260.1	255.1
62.5°	200.4	197.2	195.3	192.7	188.9	186.4	184.5	185.7
65°	137.4	134.2	131.7	131.7	131.7	130.4	129.8	129.8
67.5°	90.3	92.2	91.0	92.2	92.2	91.0	90.3	91.6
70°	62.3	62.3	61.7	61.7	61.7	61.7	61.1	61.7
72.5°	40.1	40.1	40.1	40.7	40.1	40.1	40.7	40.7
75°	25.4	25.4	25.4	26.1	25.4	25.4	26.1	25.4
77.5°	15.3	15.9	15.9	15.9	15.9	15.3	15.9	15.9
80°	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
82.5°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
85°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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)