

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: P684255

Luminaire Tested: **LX6C40D010 EX6C409030 6LBLWWH**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P684255
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 EX6C409030 6LBLWWH
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 6LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

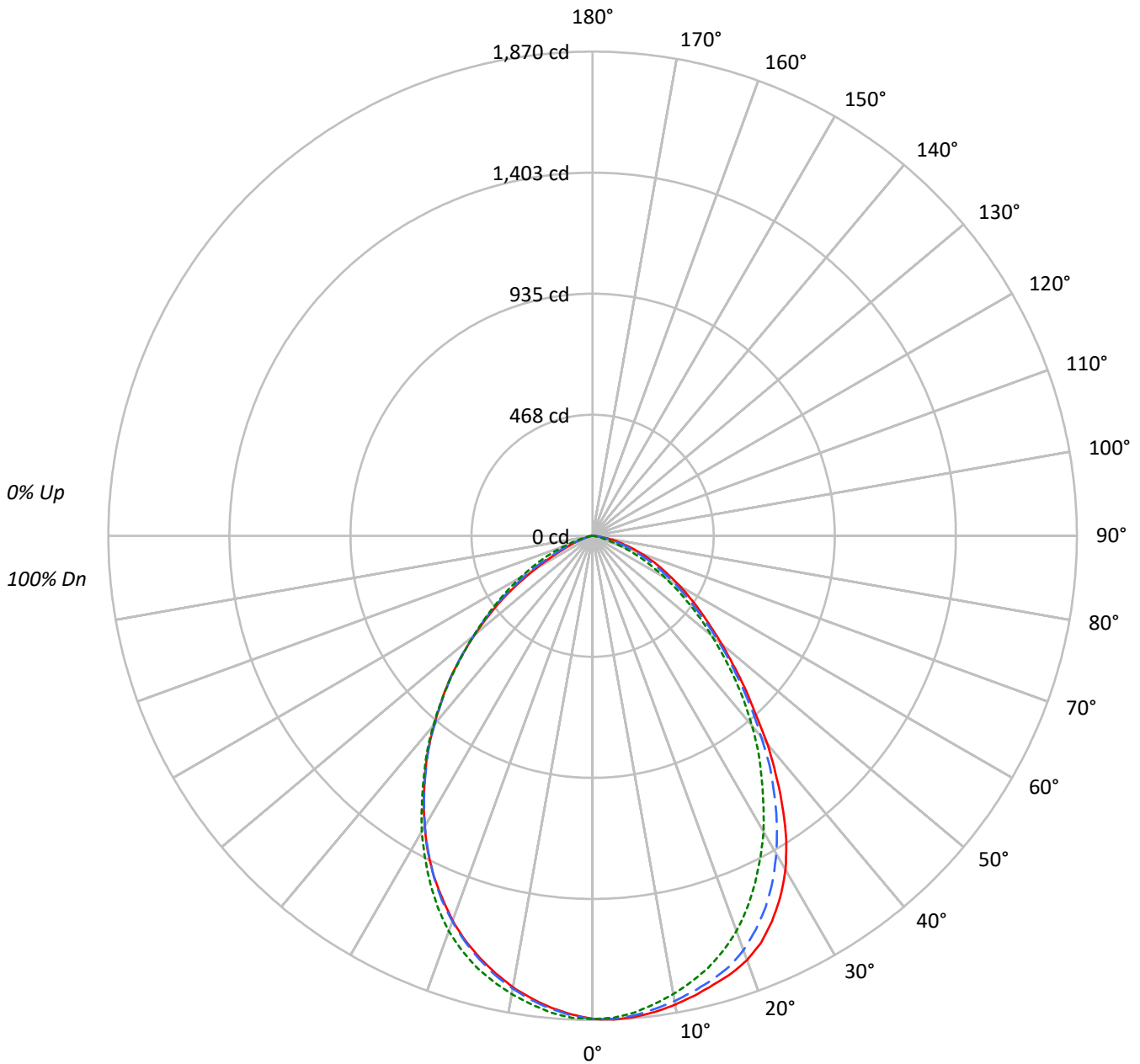
Lumens per Lamp: N/A
Luminaire Lumens: 3394.0 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	102289	102289	102289
5°	102647	101711	100710
10°	102331	100059	98595
15°	101947	97997	95716
20°	101719	94765	92239
25°	99242	89685	87713
30°	94293	83532	82146
35°	85581	76058	75549
40°	75091	68450	68085
45°	64379	59805	60293
50°	55418	50975	50710
55°	48438	43038	40400
60°	42562	35271	27575
65°	37267	27331	16591
70°	31768	18401	9745
75°	25629	9574	5316
80°	17805	3757	2968
85°	7108	1195	1572



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.8	5.2
10°-20°	488.2	14.4
20°-30°	694.7	20.5
30°-40°	731.2	21.5
40°-50°	609.4	18.0
50°-60°	411.7	12.1
60°-70°	208.7	6.2
70°-80°	67.4	2.0
80°-90°	7.7	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°	1357.8	40.0
0°-40°	2089.0	61.6
0°-60°	3110.1	91.6
0°-90°	3394.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3394.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1866	1866	1866	1866	1866	
5°	1865	1860	1848	1834	1830	177
15°	1796	1777	1727	1692	1686	508
25°	1641	1581	1483	1452	1450	752
35°	1279	1224	1136	1125	1129	796
45°	830	809	771	775	778	643
55°	507	482	450	436	423	456
65°	287	259	211	152	128	286
75°	121	95	45	24	25	131
85°	11	6	2	2	2	19
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°	1865.9	1865.9	1865.9	1865.9	1865.9	1865.9	1865.9	1865.9	1865.9	1865.9	1865.9
2.5°	1870.3	1870.3	1870.3	1870.3	1870.3	1870.3	1869.7	1869.7	1868.4	1868.4	1867.8
5°	1865.3	1865.9	1865.9	1865.3	1865.3	1864.0	1864.0	1863.4	1861.5	1860.2	1859.6
7.5°	1854.6	1854.6	1854.0	1853.3	1852.7	1850.8	1850.2	1848.3	1847.1	1845.8	1843.3
10°	1838.3	1838.3	1837.7	1836.4	1835.8	1834.5	1834.5	1832.0	1829.5	1826.4	1824.5
12.5°	1818.9	1819.5	1818.2	1817.6	1815.7	1815.1	1813.8	1810.7	1808.8	1805.1	1801.9
15°	1796.3	1797.5	1797.5	1795.0	1793.1	1792.5	1790.6	1788.7	1784.4	1780.6	1776.8
17.5°	1774.3	1775.6	1774.3	1772.4	1770.6	1768.1	1766.8	1763.0	1757.4	1752.4	1746.7
20°	1743.6	1745.5	1743.0	1739.8	1736.1	1735.4	1733.6	1727.3	1719.1	1711.6	1703.5
22.5°	1700.3	1699.1	1697.2	1695.9	1689.7	1685.9	1683.4	1675.2	1666.4	1656.4	1646.4
25°	1640.7	1643.2	1639.5	1633.8	1630.7	1626.9	1620.7	1611.9	1603.7	1593.1	1581.1
27.5°	1570.5	1570.5	1565.5	1563.6	1556.7	1551.7	1548.5	1539.8	1529.1	1518.4	1505.3
30°	1489.6	1485.8	1485.8	1477.0	1471.4	1469.5	1466.4	1451.9	1442.5	1431.3	1418.1
32.5°	1391.7	1391.1	1388.6	1383.0	1375.4	1369.2	1369.2	1359.1	1346.6	1332.8	1324.6
35°	1278.8	1279.5	1278.2	1271.9	1271.9	1264.4	1263.2	1254.4	1244.3	1233.7	1223.6
37.5°	1162.2	1164.7	1162.2	1159.0	1157.2	1156.5	1150.9	1144.6	1137.1	1130.8	1123.3
40°	1049.3	1045.5	1046.8	1040.5	1041.1	1039.9	1037.4	1029.2	1024.8	1018.6	1010.4
42.5°	927.6	931.4	932.6	928.9	927.6	925.1	927.6	924.5	919.5	916.3	908.8
45°	830.4	826.6	828.5	827.3	827.9	822.9	821.0	819.7	817.9	812.2	809.1
47.5°	733.8	734.4	733.8	731.3	730.1	730.1	727.5	723.8	723.8	720.0	717.5
50°	649.8	649.8	651.0	647.9	646.6	644.1	644.8	641.0	638.5	635.3	633.5
52.5°	572.6	573.3	570.7	571.4	570.1	570.1	567.6	565.1	562.6	556.9	555.7
55°	506.8	507.4	504.3	505.5	501.8	499.9	498.6	494.9	494.9	489.2	482.3
57.5°	445.3	444.7	444.1	442.2	439.7	437.8	435.9	431.5	429.6	425.9	420.2
60°	388.2	387.6	386.3	385.7	383.8	379.5	379.5	376.3	370.0	366.3	360.6
62.5°	334.3	334.3	333.7	331.8	329.9	328.0	326.8	324.3	318.0	313.6	308.6
65°	287.3	286.6	284.7	281.6	280.4	280.4	276.0	274.1	269.1	264.7	259.0
67.5°	242.1	239.6	238.3	239.0	235.2	235.2	231.4	228.3	223.9	216.4	212.0
70°	198.2	196.9	195.7	194.4	193.8	191.3	189.4	185.6	181.3	175.6	168.7
72.5°	158.7	158.7	156.8	155.5	153.7	151.2	149.9	146.8	141.7	135.5	130.5
75°	121.0	121.0	121.0	118.5	117.3	116.0	112.3	110.4	104.7	101.0	94.7
77.5°	89.1	87.8	85.9	85.3	84.0	82.8	80.9	77.8	72.8	68.4	64.6
80°	56.4	58.3	56.4	56.4	53.3	52.1	51.4	47.7	45.8	42.0	38.9
82.5°	31.4	32.0	30.7	30.1	28.2	27.6	27.6	25.1	23.8	21.3	19.4
85°	11.3	11.9	11.3	11.3	10.0	10.7	10.0	9.4	8.2	6.9	6.3
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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1865.9	1865.9	1865.9	1865.9	1865.9	1865.9	1865.9	1865.9	1865.9	1865.9	1865.9
2.5°	1867.8	1866.5	1866.5	1865.9	1865.3	1865.3	1865.3	1864.6	1863.4	1863.4	1862.8
5°	1858.4	1857.1	1855.2	1854.0	1853.3	1852.7	1852.1	1851.5	1849.0	1848.3	1846.5
7.5°	1841.4	1840.2	1837.0	1835.8	1833.9	1833.3	1830.8	1829.5	1827.0	1824.5	1823.2
10°	1821.4	1818.2	1815.7	1812.6	1811.3	1809.4	1806.3	1802.5	1800.7	1797.5	1795.0
12.5°	1798.8	1795.0	1790.0	1786.2	1785.0	1781.8	1776.8	1773.7	1769.3	1764.3	1759.9
15°	1770.6	1766.2	1761.8	1754.9	1753.0	1749.2	1744.2	1737.9	1731.7	1726.7	1721.6
17.5°	1739.8	1732.9	1726.0	1718.5	1712.9	1711.0	1702.8	1694.0	1688.4	1679.6	1674.0
20°	1696.6	1687.1	1675.9	1668.3	1663.3	1657.7	1648.3	1638.9	1632.0	1624.4	1616.3
22.5°	1637.0	1628.2	1615.0	1603.7	1600.0	1591.8	1583.7	1574.9	1566.1	1557.9	1547.9
25°	1566.7	1557.3	1544.1	1532.9	1526.6	1522.8	1507.1	1498.4	1489.6	1482.7	1475.8
27.5°	1494.6	1477.7	1468.9	1451.3	1445.7	1444.4	1430.0	1420.6	1411.2	1401.8	1393.0
30°	1405.5	1392.4	1379.2	1366.6	1359.1	1354.7	1344.1	1332.2	1325.9	1319.6	1310.8
32.5°	1313.3	1301.4	1285.1	1273.2	1267.6	1261.3	1251.9	1243.7	1234.3	1227.4	1225.5
35°	1214.9	1201.7	1187.9	1179.1	1177.9	1170.3	1160.9	1154.0	1147.1	1136.5	1134.6
37.5°	1109.5	1102.0	1092.6	1080.0	1074.4	1074.4	1065.0	1060.0	1051.2	1050.5	1045.5
40°	1006.0	1002.9	988.5	984.7	983.4	974.7	972.1	963.4	957.1	956.5	948.9
42.5°	903.8	895.6	893.1	886.8	881.2	879.9	874.3	870.5	868.0	864.3	860.5
45°	802.2	800.3	794.0	789.6	787.8	785.2	783.4	775.8	774.6	771.4	769.6
47.5°	714.4	709.4	703.7	698.7	698.1	694.3	689.9	689.9	683.0	682.4	681.1
50°	627.2	623.4	620.3	613.4	614.6	609.6	609.0	603.4	600.2	597.7	600.8
52.5°	550.7	543.1	541.9	536.2	534.4	535.0	528.1	526.2	525.0	522.5	521.2
55°	477.9	474.2	469.1	465.4	462.2	459.1	456.6	456.6	449.7	450.3	447.2
57.5°	413.9	410.8	404.5	398.9	397.6	393.9	390.7	387.6	387.0	382.6	379.5
60°	356.9	351.2	343.1	340.6	336.8	333.7	330.5	326.8	324.9	321.7	316.1
62.5°	303.6	294.2	291.0	286.0	281.6	279.7	274.7	270.3	267.2	262.8	258.4
65°	252.8	245.9	240.2	234.6	233.9	228.9	224.5	220.8	214.5	210.7	202.6
67.5°	206.3	200.1	193.8	188.2	183.8	182.5	175.6	171.2	166.8	159.3	152.4
70°	163.7	157.4	152.4	145.5	143.6	138.6	133.6	129.2	121.7	114.8	109.1
72.5°	124.8	117.9	112.3	107.2	104.1	99.7	94.7	89.7	82.2	75.3	70.2
75°	89.1	84.0	78.4	73.4	70.9	68.4	62.7	57.1	52.1	45.2	40.8
77.5°	60.2	55.2	50.2	45.8	42.6	40.8	37.0	32.6	28.2	24.5	21.3
80°	35.1	32.0	28.2	24.5	23.8	22.0	18.8	16.3	13.8	11.9	9.4
82.5°	16.9	15.1	12.5	10.7	9.4	8.8	7.5	6.3	5.0	4.4	4.4
85°	5.0	4.4	3.8	3.1	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1865.9	1865.9	1865.9	1865.9	1865.9	1865.9	1865.9	1865.9	1865.9	1865.9	1865.9
2.5°	1860.9	1860.2	1859.6	1859.0	1857.7	1857.7	1855.9	1854.6	1854.6	1853.3	1852.7
5°	1844.6	1842.7	1842.1	1840.8	1839.6	1838.9	1836.4	1835.8	1834.5	1833.3	1833.3
7.5°	1821.4	1818.9	1816.3	1815.1	1814.5	1812.6	1811.3	1810.7	1808.8	1807.6	1805.1
10°	1790.6	1788.7	1785.6	1784.4	1783.1	1781.8	1778.7	1776.8	1776.2	1775.0	1773.7
12.5°	1754.9	1752.4	1749.2	1746.7	1745.5	1743.6	1740.5	1738.6	1738.6	1736.1	1736.1
15°	1716.6	1712.9	1707.2	1704.7	1704.1	1700.3	1697.8	1695.3	1692.2	1690.9	1690.9
17.5°	1667.7	1661.4	1656.4	1656.4	1653.9	1650.1	1646.4	1644.5	1642.6	1640.1	1638.9
20°	1610.0	1605.6	1600.0	1600.0	1594.3	1593.1	1589.3	1588.7	1584.3	1584.9	1583.0
22.5°	1540.4	1537.9	1534.7	1532.2	1529.1	1525.3	1523.4	1524.1	1522.2	1521.6	1520.9
25°	1470.1	1463.2	1459.5	1458.2	1457.0	1453.8	1452.6	1451.9	1451.9	1450.1	1450.7
27.5°	1389.2	1384.2	1379.2	1381.1	1378.6	1376.7	1375.4	1373.5	1374.8	1374.2	1374.8
30°	1306.4	1300.2	1297.0	1298.3	1297.7	1292.6	1295.1	1294.5	1295.1	1295.1	1296.4
32.5°	1219.3	1214.9	1214.2	1214.9	1209.2	1209.9	1207.3	1211.1	1211.7	1215.5	1212.4
35°	1130.8	1128.3	1123.9	1123.3	1123.9	1123.3	1123.3	1125.8	1125.2	1128.9	1127.7
37.5°	1039.9	1038.6	1034.2	1035.5	1033.0	1037.4	1038.6	1037.4	1041.8	1040.5	1039.9
40°	950.8	948.9	946.4	951.4	948.3	945.8	950.2	946.4	947.7	951.4	951.4
42.5°	860.5	857.4	857.4	857.4	856.7	856.7	858.6	860.5	859.3	859.9	864.9
45°	769.6	768.9	767.1	768.3	767.7	770.8	770.8	772.1	774.6	777.1	775.8
47.5°	681.8	680.5	682.4	681.1	681.8	679.9	681.1	684.9	688.0	683.6	688.0
50°	599.6	597.1	596.5	598.3	597.7	597.1	598.3	598.3	597.1	597.1	601.5
52.5°	521.2	518.7	516.8	519.9	518.1	518.7	516.2	516.2	517.4	516.2	514.3
55°	447.8	445.9	443.4	444.7	441.5	440.9	438.4	438.4	436.5	435.3	431.5
57.5°	377.6	376.3	370.7	370.0	370.7	366.3	361.9	360.0	355.0	353.7	353.1
60°	315.5	308.6	305.4	301.7	299.2	297.3	292.3	289.1	281.6	277.2	276.6
62.5°	250.9	247.7	244.0	238.3	237.1	230.8	225.8	217.6	213.9	208.2	202.6
65°	198.8	190.7	185.0	181.9	176.9	171.2	165.6	156.8	152.4	145.5	139.9
67.5°	145.5	138.6	131.1	128.6	124.2	117.3	111.6	104.1	100.4	94.1	92.2
70°	99.7	93.5	87.8	84.0	80.9	74.0	68.4	65.9	62.1	60.8	60.8
72.5°	64.0	58.3	52.1	50.2	47.7	43.9	40.1	38.9	40.1	39.5	39.5
75°	35.7	32.6	28.2	26.3	26.3	25.1	24.5	24.5	24.5	24.5	24.5
77.5°	18.2	16.3	15.1	14.4	14.4	14.4	15.1	15.1	15.1	15.7	15.1
80°	8.8	8.2	8.2	8.2	8.8	8.8	8.8	8.8	8.8	9.4	8.8
82.5°	4.4	4.4	4.4	4.4	4.4	4.4	5.0	5.0	5.0	5.0	5.0
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: P684255

CATALOG NUMBER: LX6C40D010 EX6C409030 6LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1865.9	1865.9	1865.9	1865.9	1865.9	1865.9	1865.9	1865.9
2.5°	1852.1	1850.8	1850.8	1850.2	1850.2	1850.2	1850.2	1850.8
5°	1832.0	1831.4	1831.4	1830.1	1830.1	1830.1	1830.1	1830.1
7.5°	1805.1	1803.8	1804.4	1803.2	1803.2	1803.8	1803.2	1802.5
10°	1771.8	1771.2	1771.8	1771.8	1770.6	1769.9	1770.6	1771.2
12.5°	1734.2	1733.6	1732.3	1732.9	1732.9	1732.3	1731.7	1730.4
15°	1690.3	1689.7	1689.0	1688.4	1687.8	1688.4	1687.8	1686.5
17.5°	1638.9	1638.9	1638.2	1637.6	1637.0	1635.7	1636.3	1638.2
20°	1583.7	1583.0	1581.8	1582.4	1579.9	1578.6	1579.3	1581.1
22.5°	1520.3	1518.4	1519.7	1517.8	1517.8	1518.4	1517.8	1516.5
25°	1451.3	1448.8	1450.1	1450.7	1450.7	1450.1	1449.4	1450.1
27.5°	1374.8	1376.7	1376.7	1375.4	1377.3	1374.8	1376.1	1376.7
30°	1296.4	1294.5	1293.9	1296.4	1300.2	1297.0	1297.0	1297.7
32.5°	1215.5	1213.0	1213.0	1214.2	1213.6	1213.6	1216.1	1213.0
35°	1128.9	1130.2	1125.2	1128.3	1129.6	1128.3	1128.9	1128.9
37.5°	1041.8	1040.5	1040.5	1040.5	1042.4	1042.4	1043.6	1043.0
40°	955.8	953.3	952.7	954.0	951.4	953.3	953.3	951.4
42.5°	863.0	863.6	866.8	863.6	864.3	863.6	862.4	861.8
45°	777.1	779.0	777.7	777.1	777.7	775.2	775.8	777.7
47.5°	686.1	689.9	686.1	688.7	688.0	686.8	685.5	683.0
50°	600.8	602.1	601.5	600.8	600.2	599.6	596.5	594.6
52.5°	513.7	513.7	513.7	513.7	507.4	510.5	509.3	505.5
55°	428.4	430.3	427.7	427.7	423.4	423.4	422.1	422.7
57.5°	346.2	344.3	342.4	342.4	338.1	336.2	334.3	331.8
60°	269.7	267.8	265.3	262.2	257.8	257.8	256.5	251.5
62.5°	197.6	194.4	192.5	190.0	186.3	183.8	181.9	183.1
65°	135.5	132.3	129.8	129.8	129.8	128.6	127.9	127.9
67.5°	89.1	90.9	89.7	90.9	90.9	89.7	89.1	90.3
70°	61.5	61.5	60.8	60.8	60.8	60.8	60.2	60.8
72.5°	39.5	39.5	39.5	40.1	39.5	39.5	40.1	40.1
75°	25.1	25.1	25.1	25.7	25.1	25.1	25.7	25.1
77.5°	15.1	15.7	15.7	15.7	15.7	15.1	15.7	15.7
80°	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
82.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
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)