

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: P563940

Luminaire Tested: **LX6C40D010 EX6C409030 6LBLWWH**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P563940
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, DIM TO WARM
Light Source: -
Ballast/Driver: -

Summary

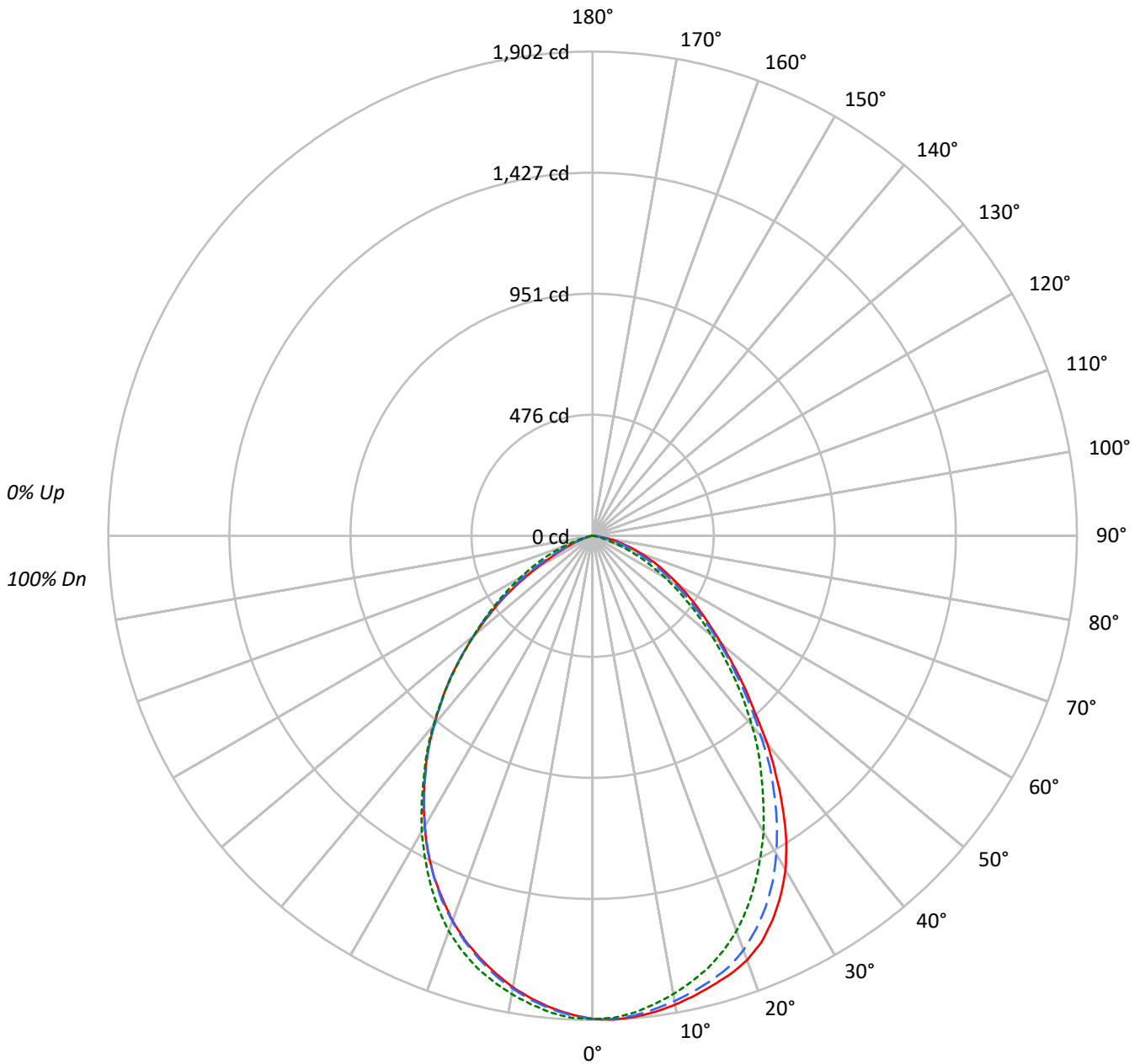
Lumens per Lamp: N/A
Luminaire Lumens: 3452.4 lumens
Efficiency: N/A
Efficacy: 73.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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: P563940

CATALOG NUMBER: LX6C40D010 EX6C409030 6LBLWWH

Luminous Intensity Polar Plot





TEST NUMBER: P563940

CATALOG NUMBER: LX6C40D010 EX6C409030 6LBLWWH

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°	104049	104049	104049
5°	104413	103461	102443
10°	104090	101779	100293
15°	103701	99683	97362
20°	103469	96393	93826
25°	100947	91227	89219
30°	95913	84969	83557
35°	87054	77363	76848
40°	76379	69630	69258
45°	65487	60836	61332
50°	56373	51853	51580
55°	49269	43774	41098
60°	43297	35874	28046
65°	37903	27798	16876
70°	32313	18721	9906
75°	26074	9743	5401
80°	18121	3820	3031
85°	7233	1195	1572



TEST NUMBER: P563940

CATALOG NUMBER: LX6C40D010 EX6C409030 6LBLWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.8	5.2
10°-20°	496.6	14.4
20°-30°	706.7	20.5
30°-40°	743.8	21.5
40°-50°	619.9	18.0
50°-60°	418.8	12.1
60°-70°	212.3	6.2
70°-80°	68.5	2.0
80°-90°	7.9	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°	1381.2	40.0
0°-40°	2125.0	61.6
0°-60°	3163.6	91.6
0°-90°	3452.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3452.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1898	1898	1898	1898	1898	
5°	1897	1892	1880	1866	1862	180
15°	1827	1807	1756	1721	1716	516
25°	1669	1608	1508	1477	1475	765
35°	1301	1245	1156	1145	1148	809
45°	845	823	785	788	791	654
55°	516	491	458	444	430	464
65°	292	264	214	155	130	291
75°	123	96	46	25	26	133
85°	12	6	2	2	2	20
90°	0	0	0	0	0	



TEST NUMBER: P563940

CATALOG NUMBER: LX6C40D010 EX6C409030 6LBLWWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1898.0	1898.0	1898.0	1898.0	1898.0	1898.0	1898.0	1898.0	1898.0	1898.0	1898.0
2.5°	1902.5	1902.5	1902.5	1902.5	1902.5	1902.5	1901.9	1901.9	1900.5	1900.5	1899.9
5°	1897.4	1898.0	1898.0	1897.4	1897.4	1896.1	1896.1	1895.5	1893.5	1892.2	1891.6
7.5°	1886.5	1886.5	1885.9	1885.2	1884.6	1882.6	1882.0	1880.1	1878.9	1877.5	1875.0
10°	1869.9	1869.9	1869.3	1868.0	1867.4	1866.1	1866.1	1863.5	1861.0	1857.8	1855.9
12.5°	1850.2	1850.8	1849.5	1848.9	1846.9	1846.3	1845.0	1841.8	1839.9	1836.1	1832.9
15°	1827.2	1828.4	1828.4	1825.9	1823.9	1823.3	1821.4	1819.5	1815.1	1811.2	1807.4
17.5°	1804.8	1806.1	1804.8	1802.9	1801.1	1798.5	1797.2	1793.3	1787.6	1782.5	1776.7
20°	1773.6	1775.5	1773.0	1769.7	1766.0	1765.2	1763.4	1757.0	1748.7	1741.0	1732.8
22.5°	1729.5	1728.3	1726.4	1725.1	1718.8	1714.9	1712.4	1704.0	1695.1	1684.9	1674.7
25°	1668.9	1671.5	1667.7	1661.9	1658.7	1654.9	1648.6	1639.6	1631.3	1620.5	1608.3
27.5°	1597.5	1597.5	1592.4	1590.5	1583.5	1578.4	1575.1	1566.3	1555.4	1544.5	1531.2
30°	1515.2	1511.4	1511.4	1502.4	1496.7	1494.8	1491.6	1476.9	1467.3	1455.9	1442.5
32.5°	1415.6	1415.0	1412.5	1406.8	1399.1	1392.8	1392.8	1382.5	1369.8	1355.7	1347.4
35°	1300.8	1301.5	1300.2	1293.8	1293.8	1286.1	1284.9	1276.0	1265.7	1254.9	1244.6
37.5°	1182.2	1184.7	1182.2	1178.9	1177.1	1176.4	1170.7	1164.3	1156.7	1150.2	1142.6
40°	1067.3	1063.5	1064.8	1058.4	1059.0	1057.8	1055.2	1046.9	1042.4	1036.1	1027.8
42.5°	943.6	947.4	948.6	944.9	943.6	941.0	943.6	940.4	935.3	932.1	924.4
45°	844.7	840.8	842.8	841.5	842.1	837.1	835.1	833.8	832.0	826.2	823.0
47.5°	746.4	747.0	746.4	743.9	742.7	742.7	740.0	736.2	736.2	732.4	729.8
50°	661.0	661.0	662.2	659.0	657.7	655.2	655.9	652.0	649.5	646.2	644.4
52.5°	582.4	583.2	580.5	581.2	579.9	579.9	577.4	574.8	572.3	566.5	565.3
55°	515.5	516.1	513.0	514.2	510.4	508.5	507.2	503.4	503.4	497.6	490.6
57.5°	453.0	452.3	451.7	449.8	447.3	445.3	443.4	438.9	437.0	433.2	427.4
60°	394.9	394.3	392.9	392.3	390.4	386.0	386.0	382.8	376.4	372.6	366.8
62.5°	340.0	340.0	339.4	337.5	335.6	333.6	332.4	329.9	323.5	319.0	313.9
65°	292.2	291.5	289.6	286.4	285.2	285.2	280.7	278.8	273.7	269.3	263.5
67.5°	246.3	243.7	242.4	243.1	239.2	239.2	235.4	232.2	227.8	220.1	215.6
70°	201.6	200.3	199.1	197.7	197.1	194.6	192.7	188.8	184.4	178.6	171.6
72.5°	161.4	161.4	159.5	158.2	156.3	153.8	152.5	149.3	144.1	137.8	132.7
75°	123.1	123.1	123.1	120.5	119.3	118.0	114.2	112.3	106.5	102.7	96.3
77.5°	90.6	89.3	87.4	86.8	85.4	84.2	82.3	79.1	74.1	69.6	65.7
80°	57.4	59.3	57.4	57.4	54.2	53.0	52.3	48.5	46.6	42.7	39.6
82.5°	31.9	32.6	31.2	30.6	28.7	28.1	28.1	25.5	24.2	21.7	19.7
85°	11.5	12.1	11.5	11.5	10.2	10.9	10.2	9.6	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: P563940

CATALOG NUMBER: LX6C40D010 EX6C409030 6LBLWWH

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1898.0	1898.0	1898.0	1898.0	1898.0	1898.0	1898.0	1898.0	1898.0	1898.0	1898.0
2.5°	1899.9	1898.6	1898.6	1898.0	1897.4	1897.4	1897.4	1896.7	1895.5	1895.5	1894.8
5°	1890.4	1889.0	1887.1	1885.9	1885.2	1884.6	1884.0	1883.3	1880.8	1880.1	1878.3
7.5°	1873.1	1871.9	1868.6	1867.4	1865.4	1864.8	1862.3	1861.0	1858.4	1855.9	1854.6
10°	1852.7	1849.5	1846.9	1843.8	1842.5	1840.5	1837.4	1833.5	1831.7	1828.4	1825.9
12.5°	1829.7	1825.9	1820.8	1816.9	1815.7	1812.4	1807.4	1804.2	1799.7	1794.6	1790.2
15°	1801.1	1796.6	1792.1	1785.1	1783.2	1779.3	1774.2	1767.8	1761.5	1756.4	1751.2
17.5°	1769.7	1762.7	1755.7	1748.1	1742.4	1740.4	1732.1	1723.1	1717.4	1708.5	1702.8
20°	1725.8	1716.1	1704.7	1697.0	1691.9	1686.2	1676.7	1667.1	1660.1	1652.3	1644.1
22.5°	1665.2	1656.2	1642.8	1631.3	1627.5	1619.2	1610.9	1602.0	1593.0	1584.7	1574.5
25°	1593.6	1584.1	1570.7	1559.3	1552.9	1549.0	1533.0	1524.2	1515.2	1508.2	1501.2
27.5°	1520.3	1503.1	1494.2	1476.3	1470.6	1469.2	1454.6	1445.0	1435.5	1425.9	1417.0
30°	1429.7	1416.3	1402.9	1390.1	1382.5	1378.0	1367.2	1355.1	1348.7	1342.3	1333.3
32.5°	1335.9	1323.8	1307.2	1295.1	1289.4	1283.0	1273.4	1265.1	1255.5	1248.5	1246.6
35°	1235.8	1222.4	1208.3	1199.4	1198.2	1190.4	1180.9	1173.8	1166.8	1156.0	1154.1
37.5°	1128.6	1121.0	1111.4	1098.6	1092.9	1092.9	1083.3	1078.2	1069.3	1068.6	1063.5
40°	1023.3	1020.1	1005.5	1001.6	1000.3	991.5	988.8	980.0	973.6	973.0	965.2
42.5°	919.3	911.0	908.5	902.1	896.4	895.0	889.3	885.5	882.9	879.2	875.3
45°	816.0	814.1	807.7	803.2	801.4	798.7	796.9	789.1	787.9	784.7	782.8
47.5°	726.7	721.6	715.8	710.7	710.1	706.2	701.8	701.8	694.7	694.1	692.8
50°	638.0	634.1	631.0	624.0	625.2	620.1	619.5	613.8	610.5	608.0	611.1
52.5°	560.2	552.4	551.2	545.4	543.6	544.2	537.2	535.3	534.0	531.5	530.2
55°	486.1	482.4	477.2	473.4	470.1	467.0	464.5	464.5	457.4	458.0	454.9
57.5°	421.0	417.9	411.5	405.8	404.4	400.7	397.4	394.3	393.7	389.2	386.0
60°	363.0	357.2	349.0	346.5	342.6	339.4	336.2	332.4	330.5	327.2	321.5
62.5°	308.8	299.3	296.0	290.9	286.4	284.5	279.4	274.9	271.8	267.3	262.8
65°	257.1	250.1	244.3	238.6	237.9	232.8	228.4	224.6	218.2	214.3	206.1
67.5°	209.8	203.5	197.1	191.4	187.0	185.6	178.6	174.1	169.7	162.0	155.0
70°	166.5	160.1	155.0	148.0	146.1	141.0	135.9	131.4	123.8	116.8	111.0
72.5°	126.9	119.9	114.2	109.0	105.9	101.4	96.3	91.2	83.6	76.6	71.4
75°	90.6	85.4	79.7	74.7	72.1	69.6	63.8	58.1	53.0	46.0	41.5
77.5°	61.2	56.1	51.1	46.6	43.3	41.5	37.6	33.2	28.7	24.9	21.7
80°	35.7	32.6	28.7	24.9	24.2	22.4	19.1	16.6	14.0	12.1	9.6
82.5°	17.2	15.4	12.7	10.9	9.6	9.0	7.6	6.4	5.1	4.5	4.5
85°	5.1	4.5	3.9	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: P563940

CATALOG NUMBER: LX6C40D010 EX6C409030 6LBLWWH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1898.0	1898.0	1898.0	1898.0	1898.0	1898.0	1898.0	1898.0	1898.0	1898.0	1898.0
2.5°	1892.9	1892.2	1891.6	1891.0	1889.7	1889.7	1887.8	1886.5	1886.5	1885.2	1884.6
5°	1876.3	1874.4	1873.8	1872.5	1871.2	1870.5	1868.0	1867.4	1866.1	1864.8	1864.8
7.5°	1852.7	1850.2	1847.5	1846.3	1845.7	1843.8	1842.5	1841.8	1839.9	1838.7	1836.1
10°	1821.4	1819.5	1816.3	1815.1	1813.8	1812.4	1809.3	1807.4	1806.8	1805.5	1804.2
12.5°	1785.1	1782.5	1779.3	1776.7	1775.5	1773.6	1770.4	1768.5	1768.5	1766.0	1766.0
15°	1746.1	1742.4	1736.6	1734.0	1733.4	1729.5	1727.0	1724.5	1721.3	1720.0	1720.0
17.5°	1696.4	1690.0	1684.9	1684.9	1682.3	1678.5	1674.7	1672.8	1670.9	1668.3	1667.1
20°	1637.7	1633.2	1627.5	1627.5	1621.7	1620.5	1616.6	1616.0	1611.5	1612.2	1610.2
22.5°	1566.9	1564.4	1561.1	1558.6	1555.4	1551.5	1549.6	1550.3	1548.4	1547.8	1547.1
25°	1495.4	1488.4	1484.6	1483.3	1482.1	1478.8	1477.6	1476.9	1476.9	1475.0	1475.7
27.5°	1413.1	1408.0	1402.9	1404.9	1402.3	1400.4	1399.1	1397.1	1398.4	1397.8	1398.4
30°	1328.9	1322.6	1319.3	1320.6	1320.0	1314.8	1317.4	1316.8	1317.4	1317.4	1318.7
32.5°	1240.3	1235.8	1235.1	1235.8	1230.0	1230.7	1228.1	1231.9	1232.5	1236.4	1233.3
35°	1150.2	1147.7	1143.2	1142.6	1143.2	1142.6	1142.6	1145.2	1144.6	1148.3	1147.1
37.5°	1057.8	1056.5	1052.0	1053.3	1050.8	1055.2	1056.5	1055.2	1059.7	1058.4	1057.8
40°	967.2	965.2	962.7	967.8	964.6	962.1	966.5	962.7	964.0	967.8	967.8
42.5°	875.3	872.1	872.1	872.1	871.4	871.4	873.4	875.3	874.1	874.7	879.8
45°	782.8	782.1	780.3	781.5	780.9	784.1	784.1	785.4	787.9	790.5	789.1
47.5°	693.5	692.2	694.1	692.8	693.5	691.6	692.8	696.7	699.8	695.4	699.8
50°	609.9	607.4	606.8	608.6	608.0	607.4	608.6	608.6	607.4	607.4	611.8
52.5°	530.2	527.6	525.7	528.8	527.0	527.6	525.1	525.1	526.3	525.1	523.1
55°	455.5	453.6	451.0	452.3	449.1	448.5	445.9	445.9	444.0	442.8	438.9
57.5°	384.1	382.8	377.1	376.4	377.1	372.6	368.1	366.2	361.1	359.8	359.2
60°	320.9	313.9	310.7	306.9	304.3	302.4	297.3	294.1	286.4	282.0	281.4
62.5°	255.2	252.0	248.2	242.4	241.2	234.8	229.7	221.3	217.6	211.8	206.1
65°	202.2	194.0	188.2	185.0	179.9	174.1	168.4	159.5	155.0	148.0	142.3
67.5°	148.0	141.0	133.4	130.8	126.3	119.3	113.5	105.9	102.1	95.7	93.8
70°	101.4	95.1	89.3	85.4	82.3	75.3	69.6	67.0	63.2	61.8	61.8
72.5°	65.1	59.3	53.0	51.1	48.5	44.7	40.8	39.6	40.8	40.2	40.2
75°	36.3	33.2	28.7	26.8	26.8	25.5	24.9	24.9	24.9	24.9	24.9
77.5°	18.5	16.6	15.4	14.6	14.6	14.6	15.4	15.4	15.4	16.0	15.4
80°	9.0	8.3	8.3	8.3	9.0	9.0	9.0	9.0	9.0	9.6	9.0
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: P563940

CATALOG NUMBER: LX6C40D010 EX6C409030 6LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1898.0	1898.0	1898.0	1898.0	1898.0	1898.0	1898.0	1898.0
2.5°	1884.0	1882.6	1882.6	1882.0	1882.0	1882.0	1882.0	1882.6
5°	1863.5	1862.9	1862.9	1861.6	1861.6	1861.6	1861.6	1861.6
7.5°	1836.1	1834.8	1835.4	1834.2	1834.2	1834.8	1834.2	1833.5
10°	1802.3	1801.7	1802.3	1802.3	1801.1	1800.3	1801.1	1801.7
12.5°	1764.0	1763.4	1762.1	1762.7	1762.7	1762.1	1761.5	1760.2
15°	1719.4	1718.8	1718.1	1717.4	1716.8	1717.4	1716.8	1715.5
17.5°	1667.1	1667.1	1666.4	1665.8	1665.2	1663.8	1664.4	1666.4
20°	1610.9	1610.2	1609.0	1609.6	1607.1	1605.8	1606.5	1608.3
22.5°	1546.4	1544.5	1545.8	1543.9	1543.9	1544.5	1543.9	1542.6
25°	1476.3	1473.7	1475.0	1475.7	1475.7	1475.0	1474.3	1475.0
27.5°	1398.4	1400.4	1400.4	1399.1	1401.0	1398.4	1399.8	1400.4
30°	1318.7	1316.8	1316.2	1318.7	1322.6	1319.3	1319.3	1320.0
32.5°	1236.4	1233.9	1233.9	1235.1	1234.5	1234.5	1237.0	1233.9
35°	1148.3	1149.6	1144.6	1147.7	1149.0	1147.7	1148.3	1148.3
37.5°	1059.7	1058.4	1058.4	1058.4	1060.3	1060.3	1061.5	1060.9
40°	972.2	969.7	969.1	970.4	967.8	969.7	969.7	967.8
42.5°	877.8	878.5	881.7	878.5	879.2	878.5	877.2	876.6
45°	790.5	792.4	791.1	790.5	791.1	788.5	789.1	791.1
47.5°	697.9	701.8	697.9	700.5	699.8	698.6	697.3	694.7
50°	611.1	612.5	611.8	611.1	610.5	609.9	606.8	604.8
52.5°	522.5	522.5	522.5	522.5	516.1	519.3	518.1	514.2
55°	435.8	437.7	435.1	435.1	430.7	430.7	429.4	430.0
57.5°	352.2	350.2	348.3	348.3	343.9	342.0	340.0	337.5
60°	274.3	272.4	269.9	266.7	262.2	262.2	260.9	255.8
62.5°	201.0	197.7	195.8	193.3	189.5	187.0	185.0	186.2
65°	137.8	134.6	132.0	132.0	132.0	130.8	130.1	130.1
67.5°	90.6	92.5	91.2	92.5	92.5	91.2	90.6	91.9
70°	62.6	62.6	61.8	61.8	61.8	61.8	61.2	61.8
72.5°	40.2	40.2	40.2	40.8	40.2	40.2	40.8	40.8
75°	25.5	25.5	25.5	26.1	25.5	25.5	26.1	25.5
77.5°	15.4	16.0	16.0	16.0	16.0	15.4	16.0	16.0
80°	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
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)