

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: P844474

Luminaire Tested: **LD6C40DE010B2750 EU6C40B35 6LBDWWLI**

Issue Date: 5/7/2024



Test Information

Test Method: LM-79-08
Report Number: P844474
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD6C40DE010B2750 EU6C40B35 6LBLDWWLI
Description:
Light Source: -
Ballast/Driver:

Summary

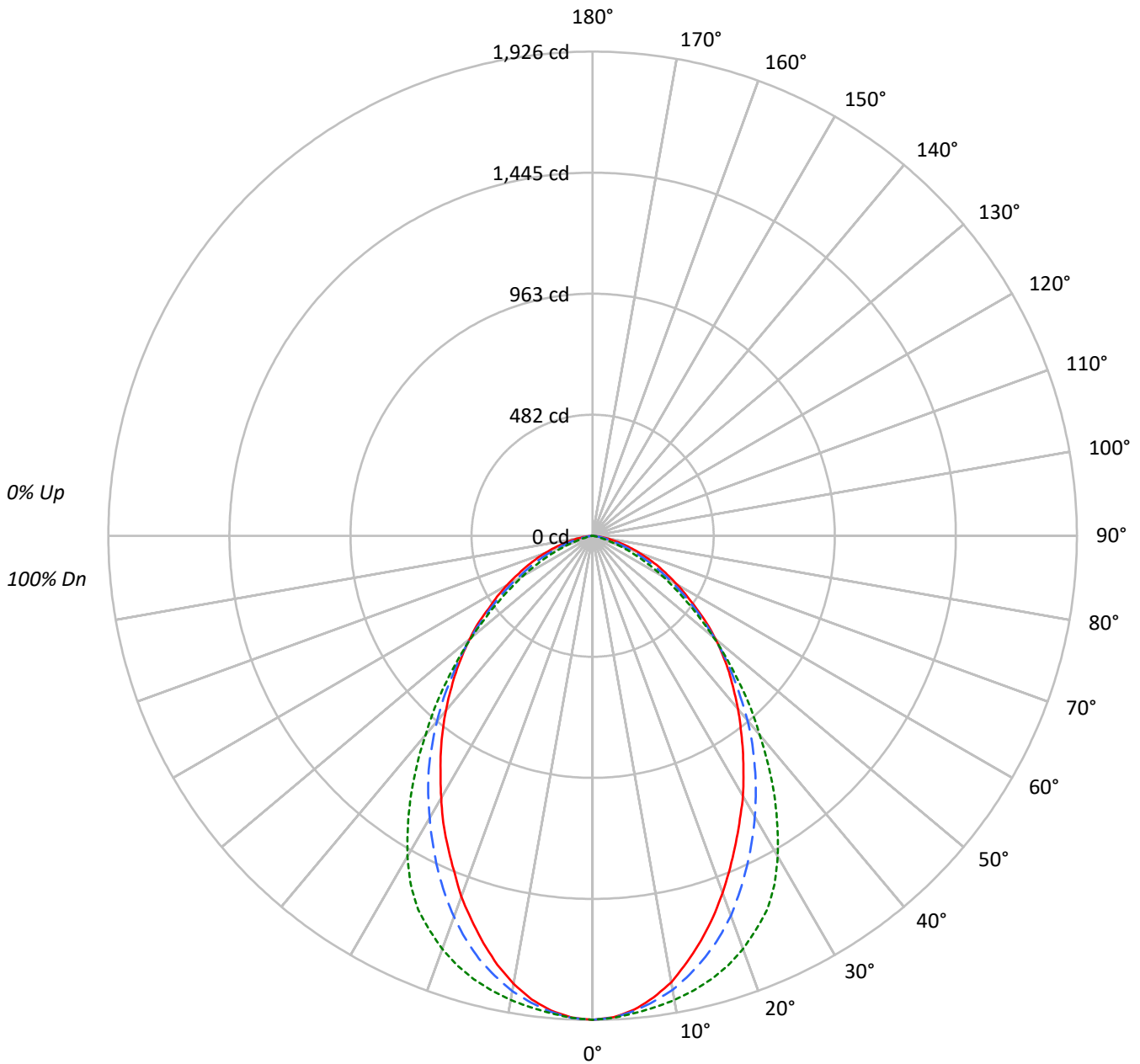
Lumens per Lamp: N/A
Luminaire Lumens: 3446.8 lumens
Efficiency: N/A
Efficacy: 69.2 lumens/watt
Spacing Criteria (0/90/45): 0.97 / 1.15 / 1.13
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 49.8
Input Voltage (V):
Input Current (Ain): 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									
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	108	105	102	99	101	98	96	97	95	93	93	92	90	88																			
2	103	96	90	85	100	94	89	84	91	86	82	87	84	81	85	82	79	77																			
3	95	86	79	73	93	84	78	73	82	76	72	79	74	70	77	73	69	67																			
4	88	77	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59																			
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53																			
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47																			
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	54	48	44	42																			
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38																			
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35																			
10	59	46	39	34	57	46	39	34	45	39	34	44	38	34	43	38	34	32																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	105562	105562	105562
5°	104160	104903	104336
10°	100354	104362	100744
15°	94581	103627	95199
20°	88143	102022	89083
25°	81513	99284	82487
30°	75702	93198	76227
35°	69660	84290	70437
40°	64371	73939	64972
45°	59464	63898	59665
50°	54395	53568	54335
55°	48056	43745	48237
60°	42442	35096	43067
65°	37358	26112	37618
70°	31432	16397	32265
75°	24909	6947	25608
80°	16637	1642	17868
85°	6856	377	8114



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.4	5.2
10°-20°	489.6	14.2
20°-30°	675.9	19.6
30°-40°	711.0	20.6
40°-50°	612.3	17.8
50°-60°	435.9	12.6
60°-70°	245.8	7.1
70°-80°	87.1	2.5
80°-90°	9.8	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°	1344.9	39.0
0°-40°	2055.9	59.6
0°-60°	3104.1	90.1
0°-90°	3446.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3446.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1926	1926	1926	1926	1926	
5°	1893	1897	1906	1901	1896	178
15°	1666	1734	1826	1743	1677	467
25°	1348	1451	1641	1460	1364	620
35°	1041	1124	1260	1136	1052	652
45°	767	789	824	790	770	591
55°	503	486	458	486	505	453
65°	288	247	201	249	290	285
75°	118	79	33	80	121	127
85°	11	5	1	5	13	18
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°	1925.6	1925.6	1925.6	1925.6	1925.6	1925.6	1925.6	1925.6	1925.6	1925.6	1925.6
2.5°	1917.3	1917.9	1917.9	1918.5	1917.9	1917.9	1918.5	1918.5	1917.9	1918.5	1918.5
5°	1892.8	1892.2	1892.8	1893.5	1895.4	1895.4	1894.8	1894.8	1896.7	1896.0	1897.3
7.5°	1853.0	1853.0	1854.9	1856.1	1856.1	1856.8	1858.1	1860.7	1863.2	1863.9	1868.4
10°	1802.8	1803.5	1802.8	1805.4	1807.3	1810.6	1809.8	1814.4	1818.9	1825.3	1833.6
12.5°	1736.5	1738.5	1742.3	1742.3	1748.2	1751.3	1750.7	1761.0	1769.3	1777.0	1787.4
15°	1666.5	1665.9	1669.1	1674.2	1679.9	1684.5	1686.4	1699.9	1708.3	1721.2	1734.0
17.5°	1591.3	1589.3	1594.5	1597.7	1607.4	1613.1	1617.0	1628.5	1642.1	1657.5	1674.9
20°	1510.9	1514.1	1515.4	1519.9	1532.7	1537.3	1543.7	1556.5	1570.1	1588.0	1608.0
22.5°	1428.7	1433.1	1435.6	1441.4	1451.7	1455.6	1462.1	1480.7	1495.5	1511.6	1530.2
25°	1347.6	1352.7	1357.3	1364.3	1371.4	1377.1	1385.5	1398.4	1415.1	1429.9	1451.1
27.5°	1268.5	1273.0	1274.3	1282.7	1291.1	1298.8	1303.2	1318.7	1332.8	1350.8	1371.4
30°	1195.9	1193.3	1196.5	1203.6	1213.2	1218.4	1226.1	1236.4	1251.8	1269.2	1290.4
32.5°	1116.1	1116.1	1121.3	1129.7	1137.4	1141.2	1143.8	1157.9	1173.3	1190.0	1207.4
35°	1040.9	1043.5	1048.0	1053.1	1061.4	1064.7	1070.5	1080.8	1093.0	1111.7	1124.5
37.5°	968.3	970.2	974.7	979.8	986.2	992.7	995.2	1006.2	1015.2	1030.7	1042.8
40°	899.5	900.2	905.2	907.1	912.9	915.6	920.7	926.5	939.3	945.7	957.4
42.5°	830.0	833.2	835.2	839.7	840.3	845.5	848.0	849.9	860.3	864.1	870.5
45°	767.0	767.0	769.0	769.0	772.2	770.3	774.1	778.0	778.6	785.0	788.9
47.5°	701.4	699.5	702.1	701.4	700.8	700.8	702.1	702.7	704.7	709.1	711.0
50°	637.8	633.3	633.3	632.7	632.0	633.9	633.9	633.3	633.3	635.2	633.3
52.5°	572.8	571.5	568.4	565.8	564.5	564.5	564.5	561.9	561.9	560.7	556.1
55°	502.8	504.7	503.4	502.2	501.5	499.5	499.5	496.3	491.2	488.6	486.1
57.5°	442.3	444.9	444.9	442.3	439.1	437.9	434.6	432.7	428.2	423.7	418.5
60°	387.1	390.3	385.7	383.8	383.2	381.3	380.0	372.9	368.4	363.9	358.1
62.5°	334.3	335.6	332.4	330.5	328.5	326.6	326.0	320.1	312.4	306.7	299.6
65°	288.0	286.1	284.8	281.6	278.4	275.8	275.8	268.1	261.0	253.9	246.9
67.5°	239.8	241.1	239.1	236.6	231.4	228.9	225.1	219.9	213.4	206.3	198.0
70°	196.1	195.5	193.5	190.9	187.7	183.3	180.0	177.5	168.5	160.1	153.0
72.5°	156.2	155.6	153.7	150.4	146.0	144.0	141.4	135.1	128.0	120.9	113.2
75°	117.6	118.3	115.1	113.8	108.6	106.7	106.1	98.4	92.5	86.2	79.1
77.5°	84.2	84.2	81.0	78.5	75.8	74.6	72.0	67.5	63.0	56.6	50.8
80°	52.7	52.7	52.7	50.1	47.6	46.3	44.3	41.1	36.7	32.8	29.0
82.5°	28.2	28.2	27.0	26.3	25.1	23.8	23.2	21.9	18.6	16.7	14.2
85°	10.9	10.9	10.3	10.3	9.0	9.0	8.4	7.7	6.5	5.8	5.2
87.5°	1.3	1.3	1.3	1.3	0.6	0.6	0.6	0.6	0.6	0.6	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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1925.6	1925.6	1925.6	1925.6	1925.6	1925.6	1925.6	1925.6	1925.6	1925.6	1925.6
2.5°	1919.2	1919.2	1918.5	1919.2	1919.2	1919.2	1919.2	1919.2	1919.2	1919.2	1919.8
5°	1898.6	1900.6	1901.2	1901.8	1903.1	1903.7	1904.4	1905.0	1905.6	1906.3	1906.3
7.5°	1872.2	1876.8	1879.9	1883.1	1884.5	1885.8	1887.7	1890.2	1892.2	1892.2	1891.5
10°	1840.7	1846.5	1853.0	1858.7	1860.7	1863.9	1867.0	1871.0	1874.1	1874.8	1874.8
12.5°	1799.6	1806.0	1817.5	1827.3	1831.1	1835.6	1842.0	1847.8	1851.1	1853.0	1852.3
15°	1748.2	1761.7	1777.7	1788.7	1793.7	1801.5	1811.8	1818.2	1823.4	1825.9	1824.6
17.5°	1692.2	1709.6	1726.9	1741.7	1748.8	1756.5	1770.7	1782.2	1789.9	1791.8	1790.6
20°	1628.5	1647.9	1666.5	1685.1	1694.8	1703.7	1718.5	1733.4	1746.3	1748.8	1746.9
22.5°	1552.7	1574.6	1597.0	1618.3	1629.2	1637.5	1658.8	1675.5	1690.3	1696.8	1692.2
25°	1474.2	1497.4	1521.2	1539.8	1552.1	1566.1	1585.5	1604.7	1622.7	1641.4	1624.7
27.5°	1390.7	1411.9	1437.0	1462.7	1474.2	1484.5	1504.5	1528.9	1547.5	1566.1	1547.5
30°	1307.1	1334.1	1356.6	1379.0	1392.0	1404.2	1424.1	1444.0	1462.1	1472.3	1460.8
32.5°	1228.7	1248.5	1271.1	1293.0	1301.9	1311.6	1328.3	1347.0	1364.3	1367.5	1359.8
35°	1146.4	1163.7	1182.3	1196.5	1207.4	1217.8	1232.5	1244.1	1248.5	1259.5	1251.8
37.5°	1053.1	1068.5	1085.2	1095.6	1105.2	1113.6	1124.5	1134.7	1138.6	1147.0	1141.2
40°	965.1	977.9	987.5	998.5	1003.6	1011.9	1016.5	1024.8	1029.4	1033.2	1033.8
42.5°	880.2	887.2	894.3	902.1	904.0	905.9	916.9	922.6	927.1	929.7	925.9
45°	793.4	800.4	803.1	808.8	812.1	813.3	817.9	818.5	819.8	824.2	822.3
47.5°	714.3	715.0	716.9	719.4	720.8	720.8	723.3	720.8	722.0	722.7	724.0
50°	631.4	635.8	631.4	633.9	634.6	633.9	632.0	630.8	628.8	628.1	627.5
52.5°	552.9	553.6	551.0	549.0	547.1	547.7	542.7	540.0	540.7	536.9	541.4
55°	481.5	479.0	473.2	471.3	466.7	466.1	465.5	462.3	457.1	457.7	459.0
57.5°	412.8	408.2	402.4	399.3	398.0	392.8	392.2	387.1	383.8	383.2	383.2
60°	350.4	346.6	340.8	335.0	330.5	327.9	324.7	319.5	320.8	320.1	317.0
62.5°	291.3	286.7	278.4	271.9	269.4	267.5	262.9	259.1	257.2	259.1	257.2
65°	238.5	231.4	221.8	215.3	214.7	212.2	207.0	204.4	202.5	201.3	203.2
67.5°	189.6	180.0	174.2	165.8	162.0	160.8	153.7	149.8	150.4	149.8	150.4
70°	144.7	135.1	127.3	120.9	115.7	113.8	110.0	104.8	104.2	102.3	104.8
72.5°	104.8	96.5	89.4	82.3	77.8	75.2	70.1	64.9	63.7	62.4	62.4
75°	72.0	64.9	57.2	50.8	47.6	45.1	39.9	36.0	32.8	32.8	32.8
77.5°	45.1	39.2	33.4	29.0	27.0	24.4	19.9	16.1	14.8	12.9	13.5
80°	25.7	21.3	18.0	14.8	12.9	11.5	9.0	7.1	5.2	5.2	5.2
82.5°	12.3	10.3	7.7	6.5	5.8	4.5	3.2	2.5	1.9	1.3	1.3
85°	3.8	3.2	2.5	1.9	1.3	1.3	0.6	0.6	0.6	0.6	0.6
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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1925.6	1925.6	1925.6	1925.6	1925.6	1925.6	1925.6	1925.6	1925.6	1925.6	1925.6
2.5°	1919.2	1919.8	1919.2	1919.8	1919.2	1920.5	1920.5	1919.8	1919.8	1919.8	1919.2
5°	1905.6	1905.6	1905.0	1905.0	1905.0	1904.4	1902.5	1902.5	1901.2	1900.6	1899.2
7.5°	1890.8	1889.6	1887.7	1887.0	1885.1	1883.1	1879.3	1876.1	1873.5	1870.3	1867.0
10°	1872.9	1869.7	1865.8	1863.2	1862.0	1857.4	1851.7	1844.0	1838.8	1833.0	1826.5
12.5°	1849.7	1845.9	1838.8	1833.6	1830.4	1822.1	1813.7	1804.1	1793.7	1783.5	1777.0
15°	1819.6	1813.1	1804.1	1798.9	1793.1	1781.6	1766.8	1753.2	1743.0	1731.5	1716.0
17.5°	1784.1	1774.5	1762.3	1754.0	1746.9	1731.5	1714.1	1696.8	1681.3	1667.1	1651.7
20°	1735.3	1723.7	1708.9	1698.0	1690.9	1671.0	1652.3	1631.8	1613.1	1596.4	1578.4
22.5°	1678.0	1658.8	1644.0	1631.1	1623.5	1600.9	1580.3	1558.5	1538.5	1523.7	1504.5
25°	1606.0	1587.4	1568.8	1558.5	1546.3	1522.5	1501.3	1478.8	1460.1	1441.4	1423.5
27.5°	1529.5	1507.7	1487.1	1474.9	1464.0	1440.8	1419.6	1399.0	1377.8	1357.3	1341.2
30°	1446.0	1424.1	1408.0	1392.6	1380.4	1361.7	1335.4	1314.9	1296.1	1277.5	1260.8
32.5°	1352.7	1334.7	1315.5	1307.8	1298.8	1276.2	1255.6	1235.7	1217.1	1198.4	1181.1
35°	1244.7	1230.6	1219.0	1210.7	1204.9	1185.0	1168.9	1147.6	1136.1	1117.4	1104.6
37.5°	1134.1	1127.1	1119.4	1109.0	1100.7	1089.2	1079.5	1062.2	1048.6	1035.1	1020.9
40°	1028.0	1020.3	1010.0	1005.0	1003.0	992.7	979.2	970.2	962.4	950.3	942.6
42.5°	924.6	920.7	910.4	907.9	905.2	896.2	889.8	882.1	877.0	868.0	864.1
45°	819.1	818.5	815.9	813.3	812.1	805.6	804.3	794.7	790.2	788.3	784.3
47.5°	725.9	724.0	720.1	724.0	718.1	717.5	717.5	715.6	713.7	708.5	707.9
50°	630.8	633.9	634.6	632.7	636.5	635.8	632.7	633.3	634.6	637.1	633.3
52.5°	543.3	545.8	550.4	548.4	551.7	554.8	553.6	558.7	556.7	559.4	564.5
55°	460.4	467.4	471.9	470.0	472.6	476.5	477.7	482.2	486.1	490.5	493.8
57.5°	389.0	390.9	397.4	399.3	399.9	403.2	409.5	416.6	421.1	424.3	427.6
60°	318.9	325.3	329.9	329.9	335.0	339.5	345.2	351.7	356.8	364.6	370.4
62.5°	259.8	261.0	267.5	268.1	271.9	279.6	284.2	293.8	300.3	308.6	316.3
65°	202.5	208.4	212.2	212.8	218.6	224.4	230.8	239.8	248.9	255.8	262.9
67.5°	151.8	154.9	160.1	164.6	165.8	174.2	183.9	192.3	200.0	206.3	215.3
70°	106.1	108.6	115.7	118.3	122.2	128.6	136.3	145.3	154.3	163.3	170.4
72.5°	64.9	70.8	75.2	79.1	82.3	90.0	98.4	106.1	113.8	121.5	130.5
75°	36.0	39.9	45.1	48.9	52.0	57.9	65.6	73.3	80.4	87.5	93.9
77.5°	16.1	19.9	24.4	27.0	29.6	34.7	40.5	47.0	52.7	57.9	63.7
80°	6.5	9.0	11.5	13.5	14.8	18.0	22.5	25.7	29.6	34.1	38.6
82.5°	2.5	3.2	4.5	5.8	6.5	8.4	10.3	12.3	15.4	17.3	19.9
85°	0.6	0.6	1.3	1.3	1.9	2.5	3.2	4.5	5.2	5.8	7.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	1.3
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: P844474

CATALOG NUMBER: LD6C40DE010B2750 EU6C40B35 6LBLDWWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1925.6	1925.6	1925.6	1925.6	1925.6	1925.6	1925.6	1925.6
2.5°	1919.2	1918.5	1918.5	1918.5	1918.5	1917.9	1917.9	1917.9
5°	1899.9	1898.6	1897.9	1897.9	1896.0	1896.7	1896.7	1896.0
7.5°	1865.8	1864.5	1862.6	1863.9	1863.2	1861.3	1860.7	1860.1
10°	1821.5	1818.9	1818.2	1815.0	1813.1	1812.5	1812.5	1809.8
12.5°	1768.7	1761.7	1761.0	1757.8	1753.2	1750.7	1752.0	1748.2
15°	1710.2	1699.9	1694.8	1692.2	1687.0	1682.6	1678.7	1677.4
17.5°	1638.8	1627.3	1623.5	1620.8	1609.9	1609.3	1604.1	1602.2
20°	1564.2	1554.0	1548.2	1544.4	1536.0	1528.3	1527.6	1527.0
22.5°	1491.6	1474.9	1469.8	1464.0	1455.0	1448.5	1444.7	1441.4
25°	1409.3	1395.9	1386.8	1381.1	1374.6	1369.4	1364.3	1363.7
27.5°	1327.0	1314.2	1308.4	1303.2	1294.9	1289.0	1284.0	1286.5
30°	1246.6	1233.8	1227.4	1223.5	1215.1	1211.9	1203.0	1204.2
32.5°	1166.9	1155.4	1150.8	1143.1	1135.5	1131.6	1128.4	1125.7
35°	1090.4	1080.8	1074.3	1069.2	1062.2	1055.7	1052.5	1052.5
37.5°	1012.6	1003.0	999.8	995.9	989.5	980.5	977.3	979.8
40°	933.6	926.5	923.2	920.7	914.2	911.0	907.9	907.9
42.5°	858.3	851.3	850.7	848.0	842.9	840.9	838.4	836.5
45°	779.9	776.6	774.1	774.1	773.4	772.8	770.9	769.6
47.5°	704.7	705.3	704.1	703.3	704.1	702.1	704.7	702.7
50°	635.8	634.6	635.8	634.6	635.2	637.8	635.2	637.1
52.5°	562.6	568.4	569.0	566.5	569.0	570.9	572.2	575.5
55°	497.6	499.5	500.9	503.4	504.7	508.6	504.7	504.7
57.5°	434.6	437.9	439.1	441.0	446.2	444.3	447.5	450.0
60°	377.4	381.3	383.8	385.7	387.7	392.2	393.4	392.8
62.5°	321.5	327.2	327.9	333.0	334.3	337.5	340.1	337.5
65°	269.4	274.6	278.4	281.6	285.5	288.6	288.0	290.0
67.5°	221.8	228.2	231.4	232.8	237.9	239.1	242.4	244.3
70°	178.7	183.3	187.1	189.0	192.3	196.1	199.3	201.3
72.5°	136.3	143.4	147.2	148.5	153.7	156.2	157.5	159.5
75°	100.9	106.7	108.6	111.9	114.4	120.3	119.6	120.9
77.5°	70.1	73.9	77.8	77.8	82.3	83.6	86.8	87.5
80°	41.8	46.3	48.2	48.9	52.0	54.0	55.3	56.6
82.5°	21.9	25.1	25.1	26.3	29.0	29.0	29.6	30.9
85°	8.4	9.6	10.3	10.3	10.9	12.3	12.3	12.9
87.5°	1.3	1.3	1.3	1.9	1.9	1.9	1.9	1.9
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)