

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: P844442

Luminaire Tested: **LD6C40DE010B2750 EU6C40B27 6LBLWWLI**

Issue Date: 5/7/2024

Test Information

Test Method: LM-79-08
Report Number: P844442
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD6C40DE010B2750 EU6C40B27 6LBLWWLI
Description:
Light Source: -
Ballast/Driver:

Summary

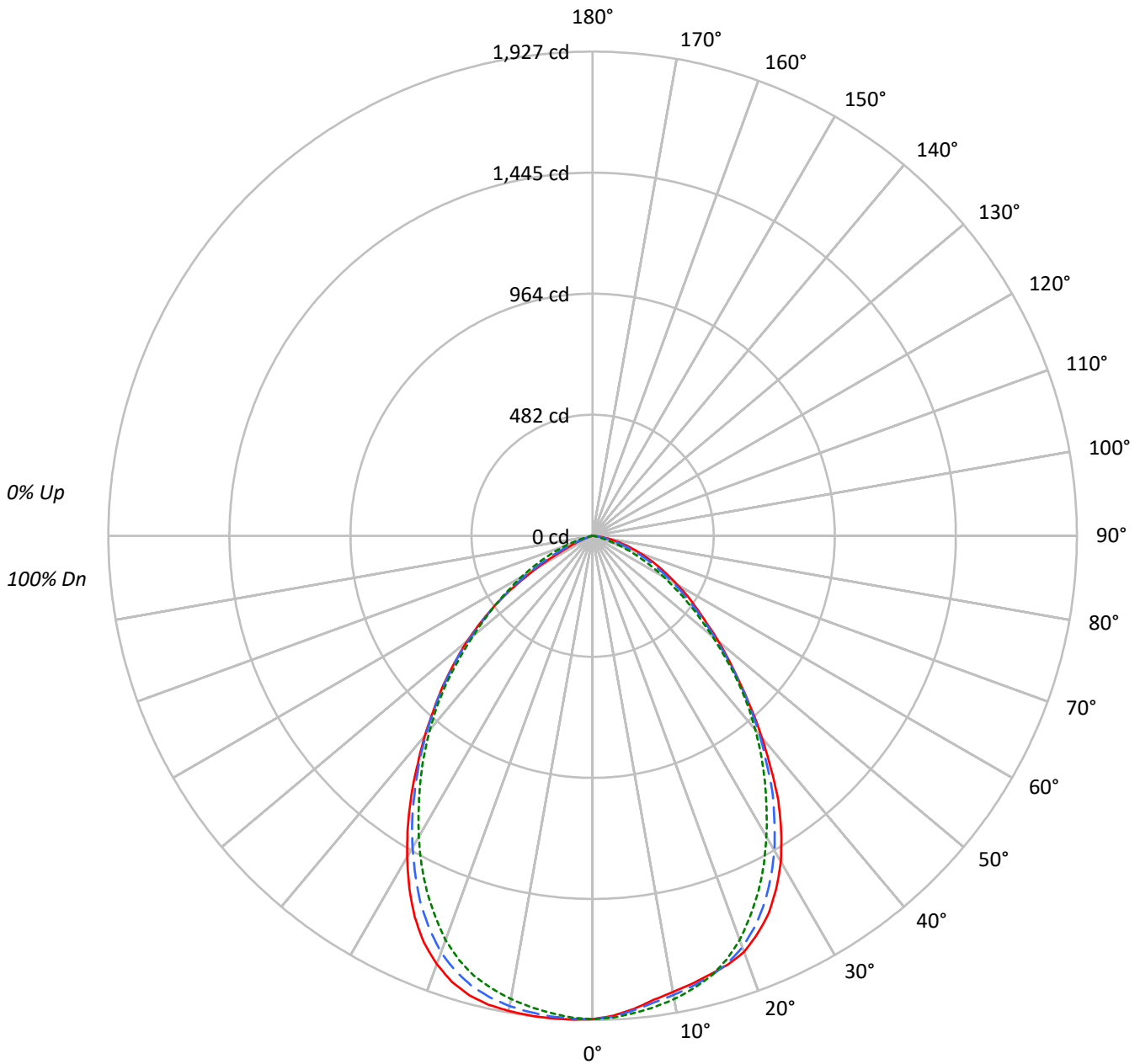
Lumens per Lamp: N/A
Luminaire Lumens: 3537.8 lumens
Efficiency: N/A
Efficacy: 71.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.1 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P844442

CATALOG NUMBER: LD6C40DE010B2750 EU6C40B27 6LBLWWLI

Luminous Intensity Polar Plot





TEST NUMBER: P844442

CATALOG NUMBER: LD6C40DE010B2750 EU6C40B27 6LBLWWLI

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								
1	111	108	104	101	109	105	102	100	101	99	97	98	96	94	94	92	91	89								
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	85	83	80	78								
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69								
4	89	79	71	66	87	77	71	65	75	69	64	73	68	64	71	66	63	61								
5	83	71	64	58	81	70	63	58	68	62	57	67	61	57	65	60	56	54								
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	49								
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	46	44								
8	67	55	48	42	66	54	47	42	53	47	42	52	46	42	51	46	41	40								
9	63	51	44	39	62	50	43	38	49	43	38	48	42	38	47	42	38	36								
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	105452	105452	105452
5°	104006	104914	106064
10°	102626	104212	106906
15°	102577	103009	107481
20°	102804	99840	105849
25°	100282	94409	101292
30°	94812	87539	93407
35°	86204	79953	84122
40°	74948	71992	74268
45°	64247	63115	65131
50°	55717	52894	55555
55°	48352	43975	43726
60°	42573	35600	27651
65°	37345	27046	13270
70°	32089	17936	4889
75°	26116	7519	1334
80°	17647	1799	600
85°	7170	377	377



TEST NUMBER: P844442

CATALOG NUMBER: LD6C40DE010B2750 EU6C40B27 6LBLWWLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.1	5.1
10°-20°	516.1	14.6
20°-30°	739.5	20.9
30°-40°	770.7	21.8
40°-50°	638.5	18.0
50°-60°	423.2	12.0
60°-70°	205.0	5.8
70°-80°	58.0	1.6
80°-90°	5.6	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°	1436.7	40.6
0°-40°	2207.4	62.4
0°-60°	3269.2	92.4
0°-90°	3537.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3537.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1924	1924	1924	1924	1924	
5°	1890	1895	1906	1920	1927	179
15°	1807	1814	1815	1856	1894	511
25°	1658	1616	1561	1618	1675	758
35°	1288	1248	1195	1232	1257	799
45°	829	826	814	834	840	645
55°	506	489	460	452	458	457
65°	288	260	208	143	102	287
75°	123	94	36	7	6	132
85°	11	5	1	1	1	19
90°	0	0	0	0	0	



TEST NUMBER: P844442

CATALOG NUMBER: LD6C40DE010B2750 EU6C40B27 6LBLWWLI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1923.6	1923.6	1923.6	1923.6	1923.6	1923.6	1923.6	1923.6	1923.6	1923.6	1923.6
2.5°	1911.6	1912.2	1913.5	1912.2	1912.8	1913.5	1913.5	1914.1	1914.1	1914.7	1915.4
5°	1890.0	1891.9	1891.9	1891.9	1891.9	1892.5	1893.2	1893.2	1892.5	1892.5	1895.1
7.5°	1862.6	1864.5	1863.9	1864.5	1865.1	1867.0	1866.4	1867.7	1868.9	1870.8	1873.4
10°	1843.6	1844.2	1843.6	1845.5	1846.7	1848.0	1848.0	1849.3	1850.5	1852.4	1855.6
12.5°	1826.4	1827.1	1827.7	1829.0	1830.2	1829.6	1830.9	1832.1	1832.8	1834.0	1835.9
15°	1807.4	1810.6	1809.9	1810.6	1811.2	1811.8	1812.5	1813.1	1812.5	1812.5	1813.7
17.5°	1789.5	1790.2	1790.8	1790.8	1790.8	1790.8	1789.5	1789.5	1787.6	1785.7	1784.4
20°	1762.2	1761.6	1760.3	1760.3	1757.8	1758.4	1755.9	1754.6	1751.4	1747.0	1742.6
22.5°	1714.5	1717.7	1716.4	1712.0	1709.5	1709.5	1706.9	1701.2	1696.1	1691.1	1685.3
25°	1657.9	1656.7	1654.8	1652.2	1648.4	1645.9	1642.1	1638.3	1630.0	1621.1	1616.1
27.5°	1582.3	1584.2	1579.8	1576.0	1574.1	1570.3	1566.5	1561.4	1551.2	1543.6	1534.7
30°	1497.8	1496.6	1495.9	1490.8	1485.8	1487.0	1479.4	1473.7	1466.1	1453.4	1446.4
32.5°	1396.2	1398.1	1394.3	1393.6	1384.1	1382.9	1382.9	1374.0	1367.6	1355.5	1345.9
35°	1288.1	1286.8	1285.6	1281.1	1280.5	1276.7	1273.5	1267.2	1258.9	1255.1	1247.5
37.5°	1163.6	1164.2	1164.9	1164.9	1162.3	1159.8	1157.3	1157.3	1145.8	1143.9	1134.9
40°	1047.3	1049.2	1048.5	1044.1	1044.7	1045.4	1044.7	1044.1	1037.1	1034.6	1033.3
42.5°	934.2	937.4	934.2	933.6	934.2	934.2	932.9	934.8	931.7	934.2	928.5
45°	828.7	831.2	829.3	828.7	827.4	830.6	826.8	829.9	828.0	824.8	826.1
47.5°	737.8	735.3	737.8	736.5	734.6	732.1	735.9	734.0	729.6	728.9	730.2
50°	653.3	652.0	653.3	652.7	649.5	649.5	648.9	647.6	646.3	642.5	640.0
52.5°	572.6	577.0	573.9	577.0	572.6	570.7	571.3	569.4	566.9	565.6	560.5
55°	505.9	506.5	506.5	506.5	504.0	502.7	501.4	500.2	500.2	494.4	489.4
57.5°	448.0	446.7	446.1	444.2	442.9	441.7	440.4	436.6	432.8	427.7	423.9
60°	388.3	389.5	389.5	387.0	385.1	383.2	382.5	380.0	375.6	370.5	364.8
62.5°	336.9	338.1	335.0	335.0	331.0	330.4	330.4	326.6	321.5	315.8	309.5
65°	287.9	287.3	288.5	284.1	284.7	280.9	279.6	277.7	272.7	265.7	260.0
67.5°	241.5	242.7	240.8	239.6	237.0	235.7	234.5	228.8	226.2	219.9	213.5
70°	200.2	198.9	197.7	197.7	195.1	193.2	192.6	186.2	183.0	177.9	170.9
72.5°	161.4	160.1	158.9	157.0	155.0	154.4	150.6	146.8	143.0	136.6	131.6
75°	123.3	122.7	121.4	120.1	117.0	115.7	115.1	110.5	103.5	98.5	94.0
77.5°	88.9	89.6	87.0	84.5	82.6	80.7	79.4	75.6	71.2	65.5	61.0
80°	55.9	56.6	55.9	54.0	51.5	50.9	49.0	46.4	42.6	38.8	35.5
82.5°	29.8	29.8	29.2	28.6	26.7	26.7	25.4	23.5	21.6	19.7	17.1
85°	11.4	11.4	10.8	10.2	9.5	9.5	8.9	8.2	7.0	6.3	5.1
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	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: P844442

CATALOG NUMBER: LD6C40DE010B2750 EU6C40B27 6LBLWWLI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1923.6	1923.6	1923.6	1923.6	1923.6	1923.6	1923.6	1923.6	1923.6	1923.6	1923.6
2.5°	1915.4	1916.0	1916.6	1917.3	1917.3	1917.3	1917.9	1918.5	1918.5	1919.2	1919.8
5°	1896.3	1897.0	1898.9	1899.5	1900.8	1900.1	1902.0	1904.0	1905.2	1906.5	1908.4
7.5°	1874.7	1876.6	1879.1	1881.1	1881.7	1882.4	1884.3	1886.8	1888.7	1891.3	1893.2
10°	1856.9	1858.8	1861.3	1863.9	1863.9	1865.1	1866.4	1868.3	1870.2	1872.1	1874.7
12.5°	1837.2	1839.8	1840.4	1841.7	1841.7	1842.3	1843.6	1844.2	1846.1	1846.7	1850.5
15°	1813.7	1813.7	1813.7	1813.7	1813.7	1813.1	1811.8	1813.1	1813.1	1815.0	1816.9
17.5°	1781.3	1781.3	1777.5	1775.6	1776.2	1773.0	1772.4	1769.8	1769.8	1769.8	1771.7
20°	1738.7	1733.0	1728.5	1722.8	1720.2	1719.0	1717.7	1712.0	1711.4	1711.4	1711.4
22.5°	1678.4	1672.0	1665.7	1661.2	1654.1	1651.6	1649.1	1645.3	1640.8	1638.3	1644.0
25°	1604.6	1597.0	1589.4	1580.4	1578.5	1575.3	1569.0	1565.2	1563.3	1560.8	1562.0
27.5°	1526.5	1515.7	1507.3	1498.5	1495.3	1491.5	1485.8	1480.1	1473.7	1475.0	1475.0
30°	1436.8	1424.1	1415.2	1404.4	1403.8	1400.0	1394.9	1387.9	1382.9	1382.9	1386.0
32.5°	1339.6	1330.7	1322.5	1310.4	1308.5	1306.0	1302.2	1295.8	1292.0	1288.1	1290.7
35°	1241.1	1227.2	1221.5	1213.7	1214.4	1207.4	1201.7	1197.9	1198.5	1194.7	1196.6
37.5°	1134.9	1126.7	1118.4	1115.3	1112.1	1108.3	1105.8	1103.2	1101.9	1101.9	1100.7
40°	1027.6	1023.2	1019.3	1018.1	1012.4	1013.6	1013.0	1011.1	1007.3	1006.0	1009.8
42.5°	926.6	922.2	920.1	917.0	916.3	914.4	914.4	912.5	911.9	912.5	911.9
45°	822.3	821.7	817.2	817.2	819.8	817.9	812.8	816.0	816.0	814.1	817.9
47.5°	726.4	727.0	724.5	719.4	719.4	716.2	712.4	715.6	717.5	714.3	716.2
50°	639.3	635.5	630.5	626.5	628.6	627.3	624.0	621.5	619.6	620.2	622.7
52.5°	556.7	554.8	549.0	544.6	543.3	543.9	540.1	536.3	537.0	536.3	535.1
55°	482.4	482.4	474.7	472.8	467.7	467.7	462.6	462.0	460.1	460.1	456.9
57.5°	418.2	412.5	408.0	403.5	401.6	399.0	397.1	392.7	390.8	387.0	386.4
60°	359.1	352.1	348.9	343.8	340.0	337.5	334.3	330.4	327.9	324.7	320.9
62.5°	306.3	298.7	292.3	287.3	284.1	283.4	278.4	273.9	268.9	265.0	258.7
65°	253.5	249.1	242.1	235.1	233.8	230.7	225.6	220.5	214.2	208.5	204.7
67.5°	207.2	201.5	195.1	191.3	186.9	184.2	178.5	170.9	163.9	158.2	151.2
70°	165.8	157.6	151.9	145.5	144.3	138.6	133.5	125.9	119.5	111.9	101.6
72.5°	124.6	116.3	111.9	105.4	101.6	98.5	91.5	84.5	74.4	68.6	59.8
75°	87.7	80.7	74.4	68.0	65.5	61.0	55.3	47.7	41.4	35.5	29.2
77.5°	54.7	50.2	44.5	39.4	36.8	34.3	29.8	24.1	19.7	15.2	11.4
80°	31.1	27.3	23.5	19.7	18.4	17.1	13.3	10.2	8.2	5.7	3.8
82.5°	14.6	12.1	10.2	8.2	7.6	6.3	4.4	3.2	1.9	1.3	0.6
85°	4.4	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



TEST NUMBER: P844442

CATALOG NUMBER: LD6C40DE010B2750 EU6C40B27 6LBLWWLI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1923.6	1923.6	1923.6	1923.6	1923.6	1923.6	1923.6	1923.6	1923.6	1923.6	1923.6
2.5°	1919.8	1920.5	1921.1	1921.1	1921.1	1921.7	1921.7	1923.0	1923.6	1924.3	1924.3
5°	1909.7	1911.6	1912.8	1913.5	1914.1	1916.0	1916.6	1918.5	1919.8	1921.1	1922.4
7.5°	1895.7	1897.6	1900.1	1901.4	1902.7	1905.2	1907.1	1910.3	1912.2	1914.7	1917.3
10°	1877.8	1880.5	1884.3	1885.5	1886.8	1890.0	1893.8	1897.6	1900.8	1904.6	1907.8
12.5°	1851.8	1855.6	1860.1	1861.3	1863.2	1867.7	1872.1	1877.8	1882.4	1887.5	1892.5
15°	1819.4	1824.5	1827.7	1829.0	1831.5	1837.9	1842.3	1848.6	1855.6	1863.2	1868.9
17.5°	1774.3	1776.8	1782.5	1785.1	1788.2	1794.6	1801.6	1809.3	1815.6	1823.9	1832.8
20°	1715.2	1719.0	1726.0	1728.5	1732.3	1738.1	1748.3	1754.6	1764.8	1774.9	1781.3
22.5°	1641.4	1648.4	1655.4	1658.6	1661.2	1668.2	1675.2	1686.0	1694.2	1708.2	1716.4
25°	1565.2	1567.1	1572.8	1578.5	1579.8	1588.8	1597.0	1609.7	1618.0	1626.9	1638.3
27.5°	1477.5	1480.1	1488.9	1490.2	1490.8	1500.4	1509.9	1520.1	1527.1	1537.3	1543.0
30°	1386.0	1390.5	1394.3	1396.8	1401.3	1405.7	1414.6	1427.3	1432.4	1441.3	1449.0
32.5°	1292.6	1292.6	1301.5	1302.2	1304.7	1314.9	1319.9	1327.5	1336.4	1343.4	1342.8
35°	1199.8	1202.3	1205.5	1209.9	1211.8	1218.3	1220.2	1225.9	1231.6	1236.7	1243.0
37.5°	1103.9	1103.9	1110.8	1114.0	1115.9	1119.1	1122.3	1128.0	1131.1	1133.0	1136.9
40°	1012.4	1014.9	1016.2	1017.4	1017.4	1021.9	1024.4	1028.9	1030.8	1035.8	1033.3
42.5°	919.5	918.2	918.9	922.2	922.8	925.3	927.2	929.8	932.3	931.0	935.5
45°	821.0	821.7	822.9	822.9	824.8	828.0	831.2	832.5	834.4	837.5	838.2
47.5°	718.1	721.3	719.4	724.5	725.7	726.4	734.0	734.6	741.0	742.2	742.2
50°	622.1	622.1	625.9	627.9	629.2	631.1	633.6	636.2	638.1	642.5	643.8
52.5°	535.7	537.0	537.0	535.1	537.0	537.0	543.3	543.9	543.3	544.6	546.5
55°	458.2	458.8	455.0	457.5	456.9	455.0	456.3	452.5	451.8	453.7	452.5
57.5°	383.8	381.3	380.6	377.5	377.5	374.3	371.1	371.1	368.6	364.1	363.5
60°	317.1	313.3	310.7	308.8	303.8	300.6	296.1	292.3	287.3	281.5	278.4
62.5°	254.1	249.7	244.6	242.1	238.3	230.7	225.0	219.2	211.0	205.9	200.8
65°	198.3	191.3	183.0	179.2	175.4	168.4	160.8	151.2	143.0	136.0	127.1
67.5°	143.6	136.0	127.8	122.1	118.2	109.9	101.0	92.8	83.2	75.6	71.2
70°	94.0	84.5	76.9	72.4	68.6	60.4	52.1	45.2	40.7	38.8	38.2
72.5°	53.4	43.9	38.2	33.6	30.5	24.7	20.3	17.8	16.5	15.9	14.6
75°	22.8	17.1	13.3	10.8	9.5	7.6	7.0	7.0	7.0	6.3	6.3
77.5°	8.2	5.7	4.4	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
80°	2.5	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
82.5°	1.3	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
85°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	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: P844442

CATALOG NUMBER: LD6C40DE010B2750 EU6C40B27 6LBLWWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1923.6	1923.6	1923.6	1923.6	1923.6	1923.6	1923.6	1923.6
2.5°	1924.9	1926.2	1926.2	1926.8	1927.4	1927.4	1927.4	1927.4
5°	1923.6	1924.9	1925.5	1926.2	1926.8	1927.4	1927.4	1927.4
7.5°	1918.5	1921.1	1921.7	1923.0	1924.3	1924.9	1924.9	1925.5
10°	1910.9	1913.5	1915.4	1916.6	1917.9	1919.2	1920.5	1920.5
12.5°	1897.0	1900.8	1903.3	1904.6	1907.8	1909.0	1910.3	1911.6
15°	1874.0	1879.1	1882.4	1884.9	1887.5	1891.3	1891.9	1893.8
17.5°	1839.8	1846.7	1848.0	1851.8	1855.0	1861.3	1860.7	1861.3
20°	1790.2	1797.8	1800.3	1804.1	1809.3	1813.7	1817.5	1814.4
22.5°	1724.0	1733.0	1736.8	1740.7	1743.8	1747.6	1752.7	1753.3
25°	1645.9	1653.5	1656.7	1659.3	1665.7	1668.8	1673.9	1674.6
27.5°	1556.3	1560.8	1565.2	1566.5	1573.4	1575.3	1579.8	1579.8
30°	1454.7	1459.7	1464.8	1466.7	1468.6	1470.5	1473.7	1475.6
32.5°	1350.4	1355.5	1357.4	1360.5	1361.2	1364.5	1363.1	1368.3
35°	1246.2	1247.5	1249.4	1248.7	1253.2	1252.6	1257.6	1257.0
37.5°	1141.3	1140.0	1143.3	1146.5	1145.2	1143.9	1145.8	1142.6
40°	1036.5	1037.1	1037.8	1040.9	1037.8	1039.7	1038.4	1037.8
42.5°	938.6	938.6	934.8	938.6	936.1	934.8	937.4	933.6
45°	839.4	838.8	839.4	840.1	840.1	840.1	837.5	840.1
47.5°	745.4	746.1	743.5	748.0	746.7	744.2	744.2	742.2
50°	645.7	649.5	653.9	650.1	653.3	651.4	649.5	651.4
52.5°	550.9	553.6	550.3	550.9	558.0	558.0	554.2	553.6
55°	449.9	449.9	451.2	451.8	452.5	460.7	456.3	457.5
57.5°	359.7	359.7	357.8	361.6	359.1	355.9	359.1	350.8
60°	273.3	272.7	270.8	268.2	261.9	260.0	252.9	252.2
62.5°	194.5	187.5	185.0	179.8	172.8	170.9	163.9	163.3
65°	120.8	112.5	109.9	107.3	104.2	103.5	101.0	102.3
67.5°	68.6	67.4	66.7	64.8	63.6	62.3	62.3	61.7
70°	36.2	33.6	33.0	32.4	32.4	29.8	29.2	30.5
72.5°	14.0	12.7	12.7	12.7	12.1	12.1	12.1	12.1
75°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
77.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
80°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
82.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
85°	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.6
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)