

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: P844441

Luminaire Tested: **LD6C40DE010B2750 EU6C40B27 6LBLWWH**

Issue Date: 5/7/2024



Test Information

Test Method: LM-79-08
Report Number: P844441
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD6C40DE010B2750 EU6C40B27 6LBLWWH
Description:
Light Source: -
Ballast/Driver:

Summary

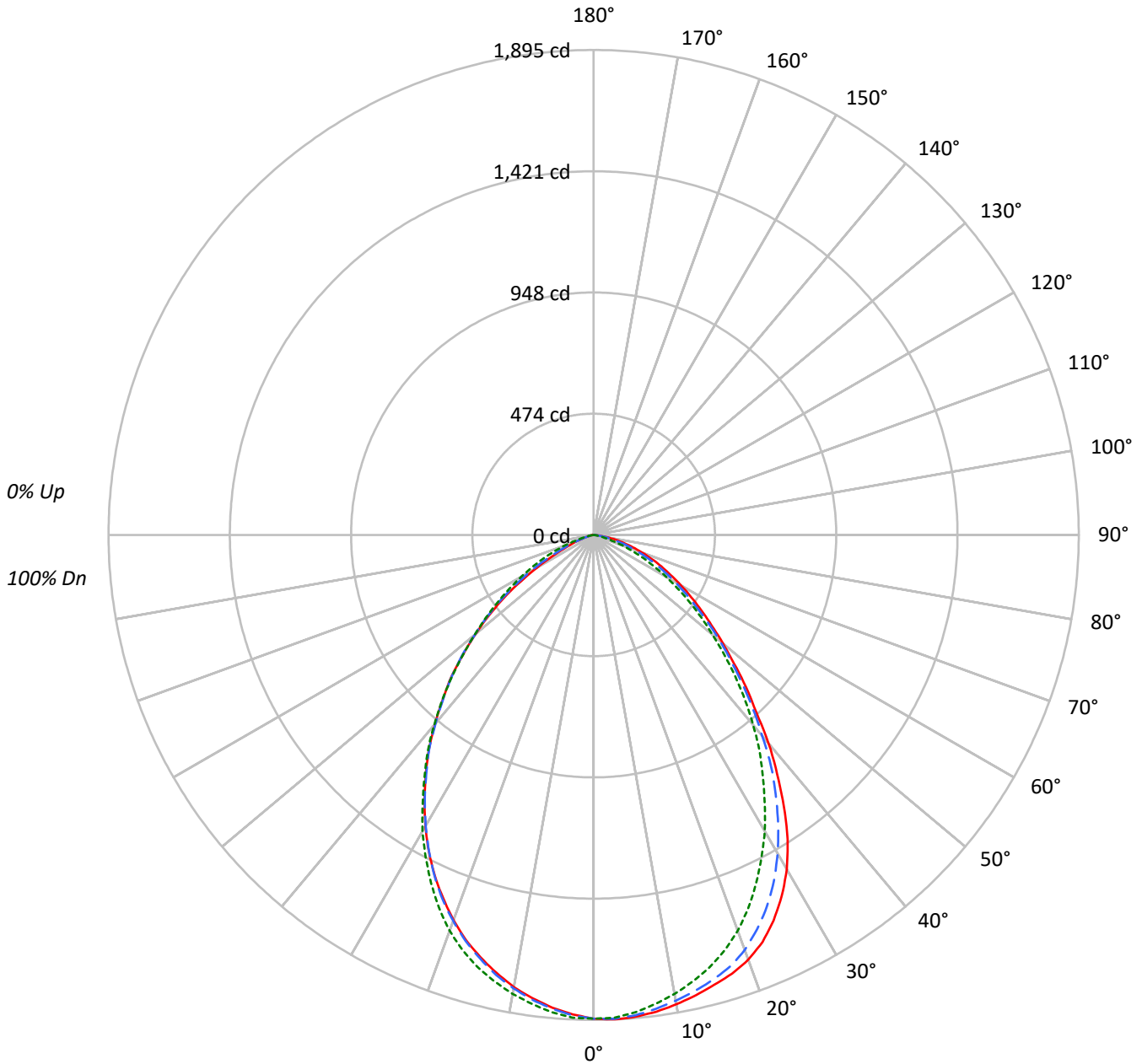
Lumens per Lamp: N/A
Luminaire Lumens: 3438.3 lumens
Efficiency: N/A
Efficacy: 69.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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				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°	103627	103627	103627
5°	103989	103043	102025
10°	103667	101368	99887
15°	103281	99274	96970
20°	103049	96008	93446
25°	100542	90858	88862
30°	95521	84621	83215
35°	86706	77049	76540
40°	76071	69344	68979
45°	65216	60588	61076
50°	56143	51640	51367
55°	49069	43602	40926
60°	43122	35743	27936
65°	37760	27694	16824
70°	32169	18625	9889
75°	25968	9701	5380
80°	18058	3820	2999
85°	7170	1195	1572



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.1	5.2
10°-20°	494.6	14.4
20°-30°	703.8	20.5
30°-40°	740.8	21.5
40°-50°	617.4	18.0
50°-60°	417.1	12.1
60°-70°	211.5	6.2
70°-80°	68.2	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°	1375.6	40.0
0°-40°	2116.4	61.6
0°-60°	3150.8	91.6
0°-90°	3438.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3438.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1890	1890	1890	1890	1890	
5°	1890	1884	1872	1858	1854	179
15°	1820	1800	1749	1714	1709	514
25°	1662	1602	1502	1471	1469	762
35°	1296	1240	1151	1140	1144	806
45°	841	820	782	785	788	651
55°	513	489	456	442	428	462
65°	291	262	214	154	130	290
75°	123	96	46	25	25	132
85°	11	6	2	2	2	20
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°	1890.3	1890.3	1890.3	1890.3	1890.3	1890.3	1890.3	1890.3	1890.3	1890.3	1890.3
2.5°	1894.8	1894.8	1894.8	1894.8	1894.8	1894.8	1894.1	1894.1	1892.8	1892.8	1892.2
5°	1889.7	1890.3	1890.3	1889.7	1889.7	1888.4	1888.4	1887.8	1885.9	1884.6	1884.0
7.5°	1878.9	1878.9	1878.3	1877.6	1877.0	1875.1	1874.4	1872.5	1871.3	1870.0	1867.4
10°	1862.3	1862.3	1861.6	1860.4	1859.7	1858.5	1858.5	1855.9	1853.4	1850.2	1848.3
12.5°	1842.6	1843.2	1842.0	1841.3	1839.4	1838.8	1837.5	1834.4	1832.5	1828.6	1825.5
15°	1819.8	1821.0	1821.0	1818.5	1816.6	1816.0	1814.1	1812.1	1807.7	1803.9	1800.1
17.5°	1797.6	1798.8	1797.6	1795.7	1793.7	1791.2	1789.9	1786.1	1780.3	1775.2	1769.5
20°	1766.4	1768.3	1765.7	1762.5	1758.7	1758.1	1756.2	1749.9	1741.6	1734.0	1725.7
22.5°	1722.6	1721.3	1719.4	1718.1	1711.8	1708.0	1705.4	1697.1	1688.2	1678.0	1667.9
25°	1662.2	1664.7	1660.9	1655.2	1652.0	1648.2	1641.9	1633.0	1624.7	1613.8	1601.8
27.5°	1591.0	1591.0	1585.9	1584.0	1577.0	1572.0	1568.8	1559.9	1549.1	1538.3	1524.9
30°	1509.0	1505.2	1505.2	1496.3	1490.6	1488.7	1485.6	1471.0	1461.4	1449.9	1436.6
32.5°	1409.9	1409.3	1406.8	1401.0	1393.4	1387.1	1387.1	1376.9	1364.1	1350.2	1341.9
35°	1295.6	1296.2	1295.0	1288.6	1288.6	1280.9	1279.6	1270.7	1260.6	1249.8	1239.7
37.5°	1177.4	1179.9	1177.4	1174.2	1172.3	1171.6	1165.9	1159.6	1152.0	1145.6	1138.0
40°	1063.0	1059.2	1060.5	1054.1	1054.8	1053.5	1051.0	1042.7	1038.3	1031.8	1023.6
42.5°	939.7	943.5	944.8	941.0	939.7	937.2	939.7	936.5	931.5	928.3	920.7
45°	841.2	837.4	839.3	838.1	838.7	833.6	831.7	830.5	828.6	822.8	819.7
47.5°	743.4	744.0	743.4	740.9	739.6	739.6	737.1	733.3	733.3	729.4	726.9
50°	658.3	658.3	659.5	656.4	655.1	652.6	653.2	649.4	646.8	643.7	641.8
52.5°	580.1	580.7	578.2	578.8	577.6	577.6	575.0	572.5	570.0	564.2	563.0
55°	513.4	514.0	510.8	512.1	508.3	506.4	505.1	501.3	501.3	495.6	488.6
57.5°	451.1	450.4	449.8	447.9	445.4	443.5	441.6	437.1	435.2	431.4	425.7
60°	393.3	392.7	391.4	390.8	388.9	384.4	384.4	381.3	374.9	371.0	365.3
62.5°	338.7	338.7	338.0	336.1	334.2	332.3	331.0	328.5	322.2	317.7	312.6
65°	291.1	290.3	288.4	285.2	284.0	284.0	279.5	277.6	272.6	268.1	262.4
67.5°	245.3	242.7	241.5	242.1	238.3	238.3	234.5	231.3	226.9	219.2	214.8
70°	200.7	199.5	198.2	196.9	196.3	193.8	191.9	188.0	183.6	177.9	170.9
72.5°	160.8	160.8	158.9	157.6	155.7	153.1	151.9	148.7	143.6	137.3	132.2
75°	122.6	122.6	122.6	120.0	118.8	117.5	113.7	111.8	106.1	102.3	95.9
77.5°	90.2	88.9	87.0	86.4	85.1	83.9	82.0	78.8	73.7	69.3	65.5
80°	57.2	59.1	57.2	57.2	54.0	52.8	52.1	48.3	46.4	42.6	39.3
82.5°	31.7	32.4	31.1	30.5	28.6	27.9	27.9	25.4	24.1	21.6	19.7
85°	11.4	12.1	11.4	11.4	10.2	10.8	10.2	9.5	8.2	7.0	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°	1890.3	1890.3	1890.3	1890.3	1890.3	1890.3	1890.3	1890.3	1890.3	1890.3	1890.3
2.5°	1892.2	1890.9	1890.9	1890.3	1889.7	1889.7	1889.7	1889.0	1887.8	1887.8	1887.1
5°	1882.7	1881.4	1879.5	1878.3	1877.6	1877.0	1876.3	1875.7	1873.2	1872.5	1870.6
7.5°	1865.5	1864.2	1861.0	1859.7	1857.8	1857.2	1854.7	1853.4	1850.9	1848.3	1847.1
10°	1845.1	1842.0	1839.4	1836.3	1835.0	1833.1	1829.9	1826.1	1824.2	1821.0	1818.5
12.5°	1822.3	1818.5	1813.4	1809.6	1808.3	1805.2	1800.1	1796.9	1792.5	1787.4	1782.9
15°	1793.7	1789.3	1784.9	1777.8	1775.9	1772.1	1767.0	1760.6	1754.3	1749.2	1744.1
17.5°	1762.5	1755.6	1748.6	1741.0	1735.3	1733.4	1725.1	1716.2	1710.5	1701.6	1695.8
20°	1718.8	1709.2	1697.7	1690.1	1685.0	1679.3	1669.8	1660.3	1653.3	1645.7	1637.4
22.5°	1658.4	1649.5	1636.2	1624.7	1620.9	1612.6	1604.3	1595.4	1586.6	1578.3	1568.2
25°	1587.2	1577.7	1564.3	1552.9	1546.6	1542.8	1526.8	1517.9	1509.0	1502.1	1495.1
27.5°	1514.1	1497.0	1488.1	1470.3	1464.6	1463.3	1448.6	1439.1	1429.6	1420.1	1411.2
30°	1423.9	1410.6	1397.2	1384.5	1376.9	1372.5	1361.6	1349.5	1343.2	1336.8	1328.0
32.5°	1330.5	1318.4	1301.9	1289.9	1284.1	1277.7	1268.2	1260.0	1250.4	1243.5	1241.6
35°	1230.8	1217.4	1203.4	1194.5	1193.2	1185.6	1176.1	1169.1	1162.1	1151.3	1149.4
37.5°	1124.1	1116.3	1106.8	1094.1	1088.4	1088.4	1078.9	1073.8	1064.9	1064.3	1059.2
40°	1019.1	1016.0	1001.4	997.6	996.3	987.4	984.9	976.0	969.6	969.0	961.4
42.5°	915.6	907.3	904.8	898.5	892.7	891.5	885.8	882.0	879.4	875.6	871.8
45°	812.7	810.8	804.4	800.0	798.1	795.6	793.6	785.9	784.7	781.5	779.6
47.5°	723.7	718.7	713.0	707.9	707.2	703.3	698.9	698.9	691.9	691.3	690.0
50°	635.4	631.6	628.4	621.4	622.7	617.6	616.9	611.2	608.0	605.5	608.7
52.5°	557.9	550.3	549.0	543.3	541.4	542.0	535.0	533.0	531.8	529.2	528.0
55°	484.2	480.4	475.3	471.5	468.3	465.1	462.6	462.6	455.5	456.2	453.0
57.5°	419.4	416.2	409.8	404.1	402.9	399.0	395.9	392.7	392.1	387.6	384.4
60°	361.5	355.8	347.5	345.0	341.2	338.0	334.8	331.0	329.1	326.0	320.3
62.5°	307.6	298.0	294.9	289.7	285.2	283.3	278.3	273.8	270.6	266.2	261.8
65°	256.1	249.1	243.4	237.7	237.0	231.9	227.5	223.7	217.3	213.5	205.2
67.5°	209.1	202.6	196.3	190.6	186.1	184.9	177.9	173.5	169.0	161.4	154.4
70°	165.8	159.5	154.4	147.4	145.5	140.5	135.4	130.9	123.2	116.2	110.5
72.5°	126.5	119.4	113.7	108.6	105.4	101.0	95.9	90.9	83.2	76.3	71.2
75°	90.2	85.1	79.4	74.4	71.8	69.3	63.6	57.9	52.8	45.8	41.2
77.5°	61.0	55.9	50.9	46.4	43.3	41.2	37.4	33.0	28.6	24.7	21.6
80°	35.5	32.4	28.6	24.7	24.1	22.2	19.0	16.5	14.0	12.1	9.5
82.5°	17.1	15.2	12.7	10.8	9.5	8.9	7.6	6.3	5.1	4.4	4.4
85°	5.1	4.4	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1890.3	1890.3	1890.3	1890.3	1890.3	1890.3	1890.3	1890.3	1890.3	1890.3	1890.3
2.5°	1885.2	1884.6	1884.0	1883.3	1882.1	1882.1	1880.2	1878.9	1878.9	1877.6	1877.0
5°	1868.7	1866.7	1866.1	1864.8	1863.6	1862.9	1860.4	1859.7	1858.5	1857.2	1857.2
7.5°	1845.1	1842.6	1840.1	1838.8	1838.2	1836.3	1835.0	1834.4	1832.5	1831.2	1828.6
10°	1814.1	1812.1	1809.0	1807.7	1806.4	1805.2	1802.0	1800.1	1799.5	1798.2	1796.9
12.5°	1777.8	1775.2	1772.1	1769.5	1768.3	1766.4	1763.2	1761.3	1761.3	1758.7	1758.7
15°	1739.1	1735.3	1729.5	1727.0	1726.4	1722.6	1720.0	1717.5	1714.3	1713.0	1713.0
17.5°	1689.5	1683.1	1678.0	1678.0	1675.5	1671.7	1667.9	1666.0	1664.1	1661.5	1660.3
20°	1631.1	1626.6	1620.9	1620.9	1615.1	1613.8	1610.0	1609.4	1605.0	1605.6	1603.7
22.5°	1560.5	1558.0	1554.8	1552.3	1549.1	1545.3	1543.4	1544.0	1542.1	1541.5	1540.9
25°	1489.4	1482.4	1478.6	1477.3	1476.0	1472.9	1471.6	1471.0	1471.0	1469.1	1469.7
27.5°	1407.4	1402.3	1397.2	1399.1	1396.6	1394.7	1393.4	1391.5	1392.8	1392.2	1392.8
30°	1323.5	1317.2	1314.0	1315.3	1314.6	1309.6	1312.1	1311.5	1312.1	1312.1	1313.4
32.5°	1235.2	1230.8	1230.1	1230.8	1225.1	1225.7	1223.2	1227.0	1227.6	1231.4	1228.2
35°	1145.6	1143.1	1138.6	1138.0	1138.6	1138.0	1138.0	1140.6	1139.9	1143.7	1142.5
37.5°	1053.5	1052.2	1047.8	1049.1	1046.5	1051.0	1052.2	1051.0	1055.4	1054.1	1053.5
40°	963.3	961.4	958.9	963.9	960.8	958.2	962.7	958.9	960.1	963.9	963.9
42.5°	871.8	868.5	868.5	868.5	867.9	867.9	869.8	871.8	870.4	871.1	876.2
45°	779.6	778.9	777.0	778.3	777.7	780.9	780.9	782.1	784.7	787.2	785.9
47.5°	690.6	689.4	691.3	690.0	690.6	688.7	690.0	693.8	697.0	692.5	697.0
50°	607.4	604.9	604.2	606.1	605.5	604.9	606.1	606.1	604.9	604.9	609.3
52.5°	528.0	525.4	523.5	526.7	524.8	525.4	522.9	522.9	524.2	522.9	521.0
55°	453.6	451.7	449.2	450.4	447.3	446.6	444.1	444.1	442.2	440.9	437.1
57.5°	382.5	381.3	375.6	374.9	375.6	371.0	366.6	364.7	359.6	358.3	357.7
60°	319.6	312.6	309.5	305.7	303.1	301.2	296.1	293.0	285.2	280.8	280.2
62.5°	254.1	251.0	247.2	241.5	240.2	233.8	228.8	220.5	216.7	211.0	205.2
65°	201.4	193.1	187.4	184.2	179.2	173.5	167.7	158.9	154.4	147.4	141.7
67.5°	147.4	140.5	132.8	130.3	125.9	118.8	113.1	105.4	101.6	95.3	93.4
70°	101.0	94.7	88.9	85.1	82.0	75.0	69.3	66.7	62.9	61.7	61.7
72.5°	64.8	59.1	52.8	50.9	48.3	44.5	40.6	39.3	40.6	40.0	40.0
75°	36.2	33.0	28.6	26.7	26.7	25.4	24.7	24.7	24.7	24.7	24.7
77.5°	18.4	16.5	15.2	14.6	14.6	14.6	15.2	15.2	15.2	15.9	15.2
80°	8.9	8.2	8.2	8.2	8.9	8.9	8.9	8.9	8.9	9.5	8.9
82.5°	4.4	4.4	4.4	4.4	4.4	4.4	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: P844441

CATALOG NUMBER: LD6C40DE010B2750 EU6C40B27 6LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1890.3	1890.3	1890.3	1890.3	1890.3	1890.3	1890.3	1890.3
2.5°	1876.3	1875.1	1875.1	1874.4	1874.4	1874.4	1874.4	1875.1
5°	1855.9	1855.3	1855.3	1854.0	1854.0	1854.0	1854.0	1854.0
7.5°	1828.6	1827.4	1828.0	1826.7	1826.7	1827.4	1826.7	1826.1
10°	1795.0	1794.4	1795.0	1795.0	1793.7	1793.1	1793.7	1794.4
12.5°	1756.8	1756.2	1754.9	1755.6	1755.6	1754.9	1754.3	1753.0
15°	1712.4	1711.8	1711.1	1710.5	1709.9	1710.5	1709.9	1708.6
17.5°	1660.3	1660.3	1659.6	1659.0	1658.4	1657.1	1657.7	1659.6
20°	1604.3	1603.7	1602.4	1603.1	1600.5	1599.2	1599.9	1601.8
22.5°	1540.2	1538.3	1539.6	1537.7	1537.7	1538.3	1537.7	1536.4
25°	1470.3	1467.8	1469.1	1469.7	1469.7	1469.1	1468.4	1469.1
27.5°	1392.8	1394.7	1394.7	1393.4	1395.3	1392.8	1394.1	1394.7
30°	1313.4	1311.5	1310.8	1313.4	1317.2	1314.0	1314.0	1314.6
32.5°	1231.4	1228.9	1228.9	1230.1	1229.5	1229.5	1232.0	1228.9
35°	1143.7	1145.0	1139.9	1143.1	1144.4	1143.1	1143.7	1143.7
37.5°	1055.4	1054.1	1054.1	1054.1	1056.0	1056.0	1057.3	1056.7
40°	968.4	965.8	965.2	966.5	963.9	965.8	965.8	963.9
42.5°	874.3	875.0	878.2	875.0	875.6	875.0	873.7	873.1
45°	787.2	789.2	787.8	787.2	787.8	785.3	785.9	787.8
47.5°	695.1	698.9	695.1	697.6	697.0	695.7	694.4	691.9
50°	608.7	609.9	609.3	608.7	608.0	607.4	604.2	602.3
52.5°	520.4	520.4	520.4	520.4	514.0	517.2	515.9	512.1
55°	433.9	435.9	433.3	433.3	428.9	428.9	427.6	428.2
57.5°	350.7	348.8	346.9	346.9	342.5	340.6	338.7	336.1
60°	273.2	271.3	268.7	265.6	261.1	261.1	259.9	254.8
62.5°	200.1	196.9	195.0	192.5	188.7	186.1	184.2	185.5
65°	137.3	134.1	131.6	131.6	131.6	130.3	129.7	129.7
67.5°	90.2	92.1	90.9	92.1	92.1	90.9	90.2	91.5
70°	62.3	62.3	61.7	61.7	61.7	61.7	61.0	61.7
72.5°	40.0	40.0	40.0	40.6	40.0	40.0	40.6	40.6
75°	25.4	25.4	25.4	26.0	25.4	25.4	26.0	25.4
77.5°	15.2	15.9	15.9	15.9	15.9	15.2	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



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— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)