

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: P844459

Luminaire Tested: **LD6C40DE010B2750 EU6C40B30 6LBLWWLI**

Issue Date: 5/7/2024



Test Information

Test Method: LM-79-08
Report Number: P844459
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 EU6C40B30 6LBLWWLI
Description:
Light Source: -
Ballast/Driver:

Summary

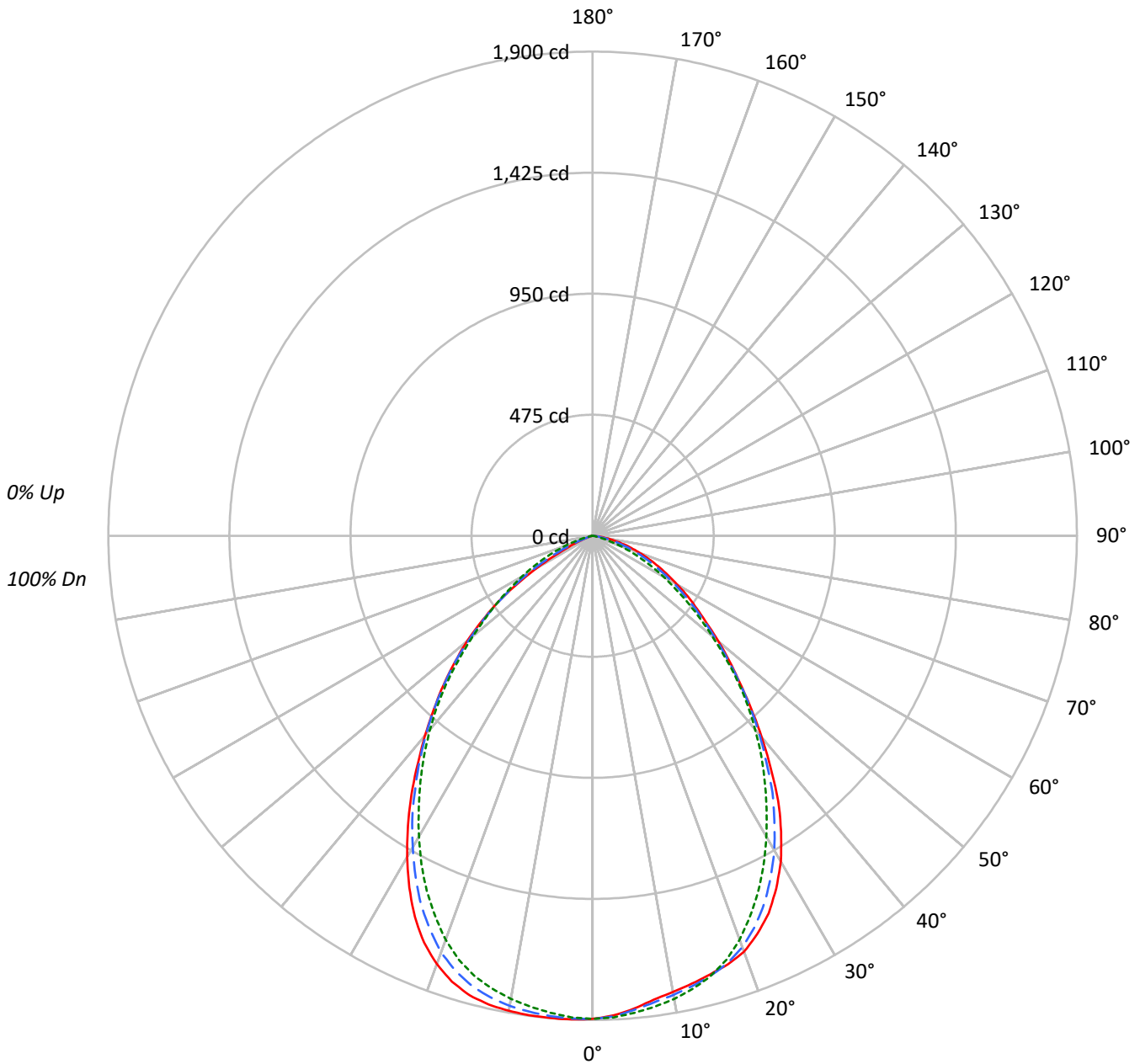
Lumens per Lamp: N/A
Luminaire Lumens: 3487.0 lumens
Efficiency: N/A
Efficacy: 70.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.1 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

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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								
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°	103939	103939	103939
5°	102509	103406	104545
10°	101150	102720	105364
15°	101102	101527	105937
20°	101334	98405	104321
25°	98854	93048	99834
30°	93457	86279	92071
35°	84972	78809	82911
40°	73874	70954	73194
45°	63324	62208	64193
50°	54915	52135	54753
55°	47654	43344	43105
60°	41970	35085	27257
65°	36813	26657	13088
70°	31640	17663	4809
75°	25735	7434	1313
80°	17395	1768	600
85°	7108	377	377



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.5	5.1
10°-20°	508.7	14.6
20°-30°	728.9	20.9
30°-40°	759.6	21.8
40°-50°	629.3	18.0
50°-60°	417.2	12.0
60°-70°	202.0	5.8
70°-80°	57.2	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°	1416.1	40.6
0°-40°	2175.8	62.4
0°-60°	3222.3	92.4
0°-90°	3487.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3487.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1896	1896	1896	1896	1896	
5°	1863	1868	1879	1892	1900	176
15°	1781	1788	1789	1829	1867	504
25°	1634	1593	1538	1595	1650	748
35°	1270	1230	1178	1214	1239	787
45°	817	814	802	822	828	635
55°	499	482	454	445	451	450
65°	284	256	206	141	101	283
75°	122	93	35	7	6	130
85°	11	5	1	1	1	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°	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0
2.5°	1884.2	1884.7	1886.0	1884.7	1885.3	1886.0	1886.0	1886.6	1886.6	1887.2	1887.9
5°	1862.8	1864.7	1864.7	1864.7	1864.7	1865.3	1866.0	1866.0	1865.3	1865.3	1867.9
7.5°	1835.9	1837.7	1837.1	1837.7	1838.4	1840.3	1839.6	1840.9	1842.2	1844.1	1846.5
10°	1817.1	1817.8	1817.1	1819.0	1820.2	1821.5	1821.5	1822.7	1824.0	1825.9	1829.0
12.5°	1800.2	1800.8	1801.5	1802.7	1803.9	1803.4	1804.5	1805.8	1806.4	1807.7	1809.6
15°	1781.4	1784.5	1783.9	1784.5	1785.2	1785.8	1786.4	1787.1	1786.4	1786.4	1787.7
17.5°	1763.8	1764.5	1765.1	1765.1	1765.1	1765.1	1763.8	1763.8	1762.0	1760.1	1758.8
20°	1737.0	1736.3	1735.0	1735.0	1732.5	1733.1	1730.7	1729.4	1726.3	1721.9	1717.5
22.5°	1690.0	1693.1	1691.8	1687.5	1684.9	1684.9	1682.5	1676.8	1671.8	1666.7	1661.1
25°	1634.3	1633.0	1631.1	1628.5	1624.8	1622.3	1618.5	1614.8	1606.7	1597.9	1592.9
27.5°	1559.7	1561.6	1557.2	1553.5	1551.5	1547.7	1544.0	1539.0	1529.0	1521.4	1512.7
30°	1476.4	1475.1	1474.4	1469.5	1464.5	1465.7	1458.2	1452.6	1445.0	1432.6	1425.6
32.5°	1376.2	1378.0	1374.3	1373.7	1364.2	1363.0	1363.0	1354.2	1348.0	1336.0	1326.7
35°	1269.7	1268.4	1267.2	1262.8	1262.2	1258.4	1255.2	1249.0	1240.8	1237.1	1229.6
37.5°	1146.9	1147.5	1148.2	1148.2	1145.6	1143.1	1140.7	1140.7	1129.3	1127.4	1118.7
40°	1032.3	1034.2	1033.5	1029.1	1029.7	1030.3	1029.7	1029.1	1022.2	1019.8	1018.5
42.5°	920.8	923.9	920.8	920.1	920.8	920.8	919.5	921.4	918.2	920.8	915.2
45°	816.8	819.2	817.4	816.8	815.5	818.7	814.9	818.1	816.2	813.0	814.3
47.5°	727.2	724.7	727.2	726.0	724.1	721.6	725.3	723.4	719.1	718.5	719.7
50°	643.9	642.6	643.9	643.3	640.2	640.2	639.6	638.3	637.0	633.3	630.8
52.5°	564.4	568.8	565.6	568.8	564.4	562.4	563.1	561.2	558.7	557.5	552.5
55°	498.6	499.2	499.2	499.2	496.7	495.5	494.2	493.0	493.0	487.4	482.3
57.5°	441.6	440.3	439.8	437.9	436.6	435.3	434.1	430.4	426.5	421.6	417.8
60°	382.8	383.9	383.9	381.5	379.6	377.7	377.0	374.6	370.2	365.2	359.5
62.5°	332.0	333.3	330.1	330.1	326.4	325.8	325.8	321.9	317.0	311.3	305.0
65°	283.8	283.1	284.4	280.0	280.6	276.9	275.6	273.7	268.7	261.9	256.2
67.5°	238.1	239.2	237.4	236.2	233.6	232.4	231.1	225.5	222.9	216.7	210.5
70°	197.4	196.1	194.8	194.8	192.3	190.4	189.7	183.5	180.4	175.4	168.5
72.5°	159.1	157.8	156.6	154.7	152.8	152.2	148.5	144.7	141.0	134.6	129.7
75°	121.5	120.9	119.6	118.3	115.3	114.0	113.4	108.9	102.1	97.1	92.8
77.5°	87.7	88.3	85.8	83.3	81.4	79.5	78.3	74.6	70.1	64.5	60.2
80°	55.1	55.7	55.1	53.2	50.8	50.1	48.2	45.7	42.0	38.2	35.1
82.5°	29.4	29.4	28.8	28.2	26.3	26.3	25.1	23.2	21.3	19.5	16.9
85°	11.3	11.3	10.7	10.0	9.4	9.4	8.8	8.1	6.9	6.2	5.0
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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0
2.5°	1887.9	1888.5	1889.1	1889.8	1889.8	1889.8	1890.4	1891.0	1891.0	1891.7	1892.3
5°	1869.1	1869.7	1871.6	1872.2	1873.5	1872.9	1874.8	1876.6	1877.8	1879.1	1881.0
7.5°	1847.8	1849.7	1852.2	1854.0	1854.7	1855.3	1857.2	1859.7	1861.5	1864.1	1866.0
10°	1830.2	1832.1	1834.7	1837.1	1837.1	1838.4	1839.6	1841.6	1843.5	1845.3	1847.8
12.5°	1810.9	1813.3	1813.9	1815.2	1815.2	1815.9	1817.1	1817.8	1819.7	1820.2	1824.0
15°	1787.7	1787.7	1787.7	1787.7	1787.7	1787.1	1785.8	1787.1	1787.1	1788.9	1790.8
17.5°	1755.7	1755.7	1752.0	1750.1	1750.7	1747.5	1747.0	1744.5	1744.5	1744.5	1746.4
20°	1713.8	1708.1	1703.7	1698.1	1695.6	1694.3	1693.1	1687.5	1686.8	1686.8	1686.8
22.5°	1654.2	1648.0	1641.8	1637.3	1630.4	1627.9	1625.5	1621.7	1617.3	1614.8	1620.4
25°	1581.6	1574.1	1566.6	1557.8	1555.9	1552.8	1546.5	1542.8	1540.9	1538.3	1539.6
27.5°	1504.6	1493.9	1485.8	1477.0	1473.8	1470.1	1464.5	1458.8	1452.6	1453.8	1453.8
30°	1416.3	1403.7	1394.9	1384.2	1383.7	1379.9	1374.9	1368.0	1363.0	1363.0	1366.1
32.5°	1320.3	1311.6	1303.5	1291.6	1289.7	1287.2	1283.4	1277.2	1273.4	1269.7	1272.1
35°	1223.3	1209.5	1203.9	1196.4	1197.0	1190.2	1184.4	1180.7	1181.4	1177.6	1179.5
37.5°	1118.7	1110.5	1102.4	1099.3	1096.1	1092.4	1089.9	1087.4	1086.1	1086.1	1084.9
40°	1012.9	1008.5	1004.8	1003.5	997.8	999.0	998.4	996.6	992.8	991.5	995.3
42.5°	913.3	908.8	907.0	903.9	903.2	901.3	901.3	899.5	898.9	899.5	898.9
45°	810.6	809.9	805.5	805.5	808.0	806.1	801.2	804.2	804.2	802.4	806.1
47.5°	715.9	716.5	714.1	709.0	709.0	706.0	702.2	705.3	707.1	704.1	706.0
50°	630.1	626.3	621.4	617.6	619.5	618.2	615.1	612.6	610.7	611.3	613.9
52.5°	548.7	546.8	541.2	536.7	535.6	536.2	532.4	528.7	529.2	528.7	527.4
55°	475.4	475.4	467.9	466.0	461.0	461.0	456.1	455.4	453.5	453.5	450.3
57.5°	412.2	406.6	402.1	397.8	395.9	393.3	391.4	387.1	385.2	381.5	380.9
60°	353.9	347.0	343.8	338.9	335.1	332.6	329.5	325.8	323.2	320.0	316.3
62.5°	302.0	294.4	288.1	283.1	280.0	279.3	274.4	270.0	264.9	261.2	254.9
65°	249.9	245.6	238.6	231.7	230.5	227.4	222.3	217.3	211.1	205.5	201.7
67.5°	204.2	198.5	192.3	188.6	184.1	181.6	176.0	168.5	161.6	156.0	149.1
70°	163.5	155.4	149.7	143.4	142.1	136.5	131.6	124.1	117.7	110.2	100.3
72.5°	122.8	114.6	110.2	104.0	100.3	97.1	90.2	83.3	73.3	67.7	58.9
75°	86.4	79.5	73.3	67.1	64.5	60.2	54.5	47.0	40.7	35.1	28.8
77.5°	53.8	49.5	43.9	38.8	36.3	33.8	29.4	23.8	19.5	15.0	11.3
80°	30.7	27.0	23.2	19.5	18.2	16.9	13.1	10.0	8.1	5.6	3.8
82.5°	14.4	12.0	10.0	8.1	7.5	6.2	4.3	3.2	1.9	1.3	0.6
85°	4.3	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°	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0
2.5°	1892.3	1892.8	1893.5	1893.5	1893.5	1894.1	1894.1	1895.4	1896.0	1896.7	1896.7
5°	1882.3	1884.2	1885.3	1886.0	1886.6	1888.5	1889.1	1891.0	1892.3	1893.5	1894.8
7.5°	1868.5	1870.3	1872.9	1874.1	1875.4	1877.8	1879.7	1882.9	1884.7	1887.2	1889.8
10°	1851.0	1853.4	1857.2	1858.5	1859.7	1862.8	1866.6	1870.3	1873.5	1877.2	1880.4
12.5°	1825.3	1829.0	1833.4	1834.7	1836.5	1840.9	1845.3	1851.0	1855.3	1860.4	1865.3
15°	1793.3	1798.3	1801.5	1802.7	1805.2	1811.5	1815.9	1822.1	1829.0	1836.5	1842.2
17.5°	1748.8	1751.3	1756.9	1759.5	1762.7	1768.9	1775.8	1783.3	1789.5	1797.7	1806.4
20°	1690.6	1694.3	1701.2	1703.7	1707.4	1713.2	1723.2	1729.4	1739.4	1749.4	1755.7
22.5°	1618.0	1624.8	1631.7	1634.8	1637.3	1644.2	1651.1	1661.8	1669.9	1683.6	1691.8
25°	1542.8	1544.7	1550.3	1555.9	1557.2	1565.9	1574.1	1586.6	1594.7	1603.5	1614.8
27.5°	1456.4	1458.8	1467.6	1468.8	1469.5	1478.9	1488.3	1498.2	1505.2	1515.2	1520.9
30°	1366.1	1370.5	1374.3	1376.7	1381.2	1385.5	1394.3	1406.9	1411.8	1420.6	1428.1
32.5°	1274.0	1274.0	1282.8	1283.4	1286.0	1295.9	1301.0	1308.5	1317.3	1324.2	1323.5
35°	1182.5	1185.1	1188.3	1192.6	1194.5	1200.7	1202.6	1208.2	1214.0	1218.9	1225.2
37.5°	1088.0	1088.0	1094.9	1098.0	1099.9	1103.0	1106.2	1111.8	1115.0	1116.9	1120.6
40°	997.8	1000.3	1001.6	1002.8	1002.8	1007.2	1009.7	1014.1	1016.0	1021.0	1018.5
42.5°	906.4	905.1	905.8	908.8	909.5	912.0	913.9	916.3	918.9	917.6	922.0
45°	809.3	809.9	811.2	811.2	813.0	816.2	819.2	820.5	822.4	825.6	826.2
47.5°	707.8	710.9	709.0	714.1	715.3	715.9	723.4	724.1	730.4	731.6	731.6
50°	613.2	613.2	617.0	618.8	620.1	622.0	624.5	627.0	628.9	633.3	634.5
52.5°	528.1	529.2	529.2	527.4	529.2	529.2	535.6	536.2	535.6	536.7	538.7
55°	451.6	452.2	448.4	451.0	450.3	448.4	449.7	446.0	445.4	447.3	446.0
57.5°	378.3	375.8	375.2	372.1	372.1	368.9	365.8	365.8	363.3	359.0	358.3
60°	312.5	308.8	306.3	304.4	299.4	296.2	291.9	288.1	283.1	277.5	274.4
62.5°	250.6	246.2	241.1	238.6	234.9	227.4	221.8	216.1	207.9	203.0	197.9
65°	195.5	188.6	180.4	176.6	172.9	165.9	158.4	149.1	141.0	134.0	125.2
67.5°	141.5	134.0	125.9	120.3	116.6	108.4	99.6	91.5	82.1	74.6	70.1
70°	92.8	83.3	75.8	71.4	67.7	59.5	51.4	44.4	40.1	38.2	37.5
72.5°	52.6	43.3	37.5	33.2	30.0	24.4	20.1	17.6	16.3	15.7	14.4
75°	22.5	16.9	13.1	10.7	9.4	7.5	6.9	6.9	6.9	6.2	6.2
77.5°	8.1	5.6	4.3	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: P844459

CATALOG NUMBER: LD6C40DE010B2750 EU6C40B30 6LBLWWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0
2.5°	1897.3	1898.6	1898.6	1899.2	1899.8	1899.8	1899.8	1899.8
5°	1896.0	1897.3	1897.9	1898.6	1899.2	1899.8	1899.8	1899.8
7.5°	1891.0	1893.5	1894.1	1895.4	1896.7	1897.3	1897.3	1897.9
10°	1883.5	1886.0	1887.9	1889.1	1890.4	1891.7	1892.8	1892.8
12.5°	1869.7	1873.5	1876.0	1877.2	1880.4	1881.6	1882.9	1884.2
15°	1847.2	1852.2	1855.3	1857.8	1860.4	1864.1	1864.7	1866.6
17.5°	1813.3	1820.2	1821.5	1825.3	1828.3	1834.7	1834.0	1834.7
20°	1764.5	1772.0	1774.5	1778.3	1783.3	1787.7	1791.4	1788.2
22.5°	1699.3	1708.1	1711.9	1715.6	1718.8	1722.6	1727.5	1728.2
25°	1622.3	1629.8	1633.0	1635.4	1641.8	1644.8	1649.9	1650.5
27.5°	1534.0	1538.3	1542.8	1544.0	1550.9	1552.8	1557.2	1557.2
30°	1433.7	1438.8	1443.8	1445.7	1447.6	1449.4	1452.6	1454.5
32.5°	1331.0	1336.0	1337.9	1341.1	1341.7	1344.8	1343.6	1348.6
35°	1228.3	1229.6	1231.4	1230.9	1235.2	1234.6	1239.5	1238.9
37.5°	1125.0	1123.7	1126.8	1130.0	1128.7	1127.4	1129.3	1126.2
40°	1021.6	1022.2	1022.8	1026.0	1022.8	1024.7	1023.5	1022.8
42.5°	925.1	925.1	921.4	925.1	922.7	921.4	923.9	920.1
45°	827.4	826.9	827.4	828.0	828.0	828.0	825.6	828.0
47.5°	734.7	735.4	732.8	737.3	736.0	733.5	733.5	731.6
50°	636.4	640.2	644.5	640.8	643.9	642.0	640.2	642.0
52.5°	543.1	545.5	542.5	543.1	550.0	550.0	546.2	545.5
55°	443.5	443.5	444.7	445.4	446.0	454.1	449.7	451.0
57.5°	354.5	354.5	352.6	356.4	353.9	350.8	353.9	345.7
60°	269.4	268.7	266.8	264.3	258.1	256.2	249.3	248.6
62.5°	191.6	184.8	182.2	177.3	170.4	168.5	161.6	161.0
65°	119.0	110.8	108.4	105.9	102.7	102.1	99.6	100.9
67.5°	67.7	66.4	65.8	63.9	62.6	61.3	61.3	60.7
70°	35.7	33.2	32.6	31.9	31.9	29.4	28.8	30.0
72.5°	13.7	12.5	12.5	12.5	12.0	12.0	12.0	12.0
75°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
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)