

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: P844508

Luminaire Tested: **LD6C40DE010B50 EU6C40B50 6LBLDWWLI**

Issue Date: 5/7/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P844508  
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: LD6C40DE010B50 EU6C40B50 6LBLDWLI  
Description:  
Light Source: -  
Ballast/Driver:

**Summary**

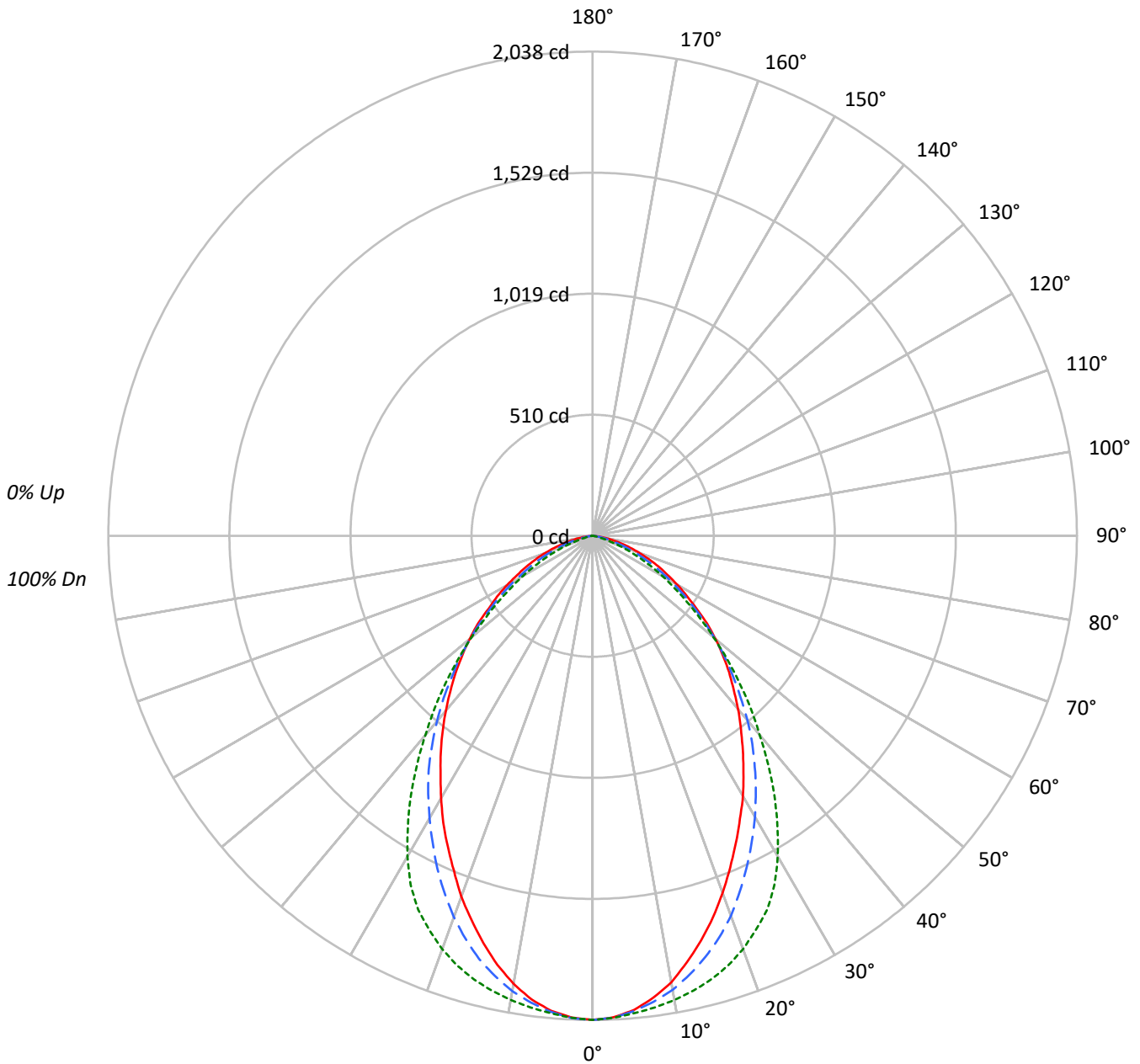
Lumens per Lamp: N/A  
Luminaire Lumens: 3647.8 lumens  
Efficiency: N/A  
Efficacy: 73.2 lumens/watt  
Spacing Criteria (0/90/45): 0.97 / 1.15 / 1.13  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	111713	111713	111713
5°	110235	111017	110417
10°	106205	110447	106622
15°	100091	109671	100750
20°	93283	107973	94275
25°	86261	105079	87289
30°	80114	98635	80671
35°	73722	89202	74546
40°	68120	78254	68757
45°	62929	67627	63146
50°	57567	56689	57508
55°	50856	46307	51047
60°	44909	37157	45588
65°	39537	27629	39797
70°	33259	17343	34140
75°	26370	7350	27090
80°	17616	1705	18910
85°	7233	377	8554



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.9	5.2
10°-20°	518.1	14.2
20°-30°	715.3	19.6
30°-40°	752.5	20.6
40°-50°	648.0	17.8
50°-60°	461.3	12.6
60°-70°	260.1	7.1
70°-80°	92.2	2.5
80°-90°	10.4	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°	1423.3	39.0
0°-40°	2175.8	59.6
0°-60°	3285.1	90.1
0°-90°	3647.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3647.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2038	2038	2038	2038	2038	
5°	2003	2008	2017	2012	2006	188
15°	1764	1835	1932	1845	1775	494
25°	1426	1536	1737	1545	1443	657
35°	1102	1190	1333	1202	1114	690
45°	812	835	872	836	814	626
55°	532	514	484	514	534	480
65°	305	261	213	263	307	302
75°	124	84	35	85	128	134
85°	12	5	1	5	14	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°	2037.8	2037.8	2037.8	2037.8	2037.8	2037.8	2037.8	2037.8	2037.8	2037.8	2037.8
2.5°	2029.0	2029.7	2029.7	2030.3	2029.7	2029.7	2030.3	2030.3	2029.7	2030.3	2030.3
5°	2003.2	2002.5	2003.2	2003.8	2005.9	2005.9	2005.2	2005.2	2007.3	2006.5	2007.9
7.5°	1961.0	1961.0	1963.0	1964.3	1964.3	1965.1	1966.5	1969.1	1971.9	1972.6	1977.4
10°	1907.9	1908.6	1907.9	1910.6	1912.6	1916.1	1915.4	1920.1	1924.9	1931.8	1940.5
12.5°	1837.9	1839.9	1844.0	1844.0	1850.0	1853.5	1852.8	1863.7	1872.5	1880.7	1891.6
15°	1763.6	1763.0	1766.4	1771.9	1778.0	1782.7	1784.8	1799.0	1807.9	1821.5	1835.1
17.5°	1684.1	1682.0	1687.5	1690.8	1701.1	1707.1	1711.3	1723.5	1737.8	1754.1	1772.5
20°	1599.0	1602.4	1603.8	1608.6	1622.1	1626.9	1633.7	1647.3	1661.5	1680.7	1701.7
22.5°	1511.9	1516.6	1519.4	1525.5	1536.4	1540.4	1547.3	1567.0	1582.6	1599.7	1619.4
25°	1426.1	1431.6	1436.4	1443.9	1451.4	1457.4	1466.3	1479.9	1497.6	1513.3	1535.7
27.5°	1342.5	1347.2	1348.6	1357.5	1366.3	1374.5	1379.3	1395.5	1410.5	1429.6	1451.4
30°	1265.6	1262.8	1266.3	1273.7	1284.0	1289.4	1297.6	1308.4	1324.8	1343.2	1365.6
32.5°	1181.2	1181.2	1186.7	1195.5	1203.7	1207.7	1210.5	1225.5	1241.8	1259.4	1277.8
35°	1101.6	1104.3	1109.0	1114.5	1123.4	1126.8	1132.9	1143.8	1156.7	1176.4	1190.0
37.5°	1024.7	1026.8	1031.5	1037.0	1043.8	1050.5	1053.3	1064.8	1074.3	1090.7	1103.6
40°	951.9	952.6	958.0	960.1	966.1	968.9	974.4	980.5	994.1	1000.9	1013.1
42.5°	878.5	881.9	883.9	888.6	889.3	894.8	897.5	899.5	910.4	914.5	921.3
45°	811.7	811.7	813.7	813.7	817.2	815.1	819.2	823.3	824.0	830.8	834.9
47.5°	742.4	740.3	743.0	742.4	741.6	741.6	743.0	743.7	745.7	750.5	752.5
50°	675.0	670.2	670.2	669.5	668.8	670.9	670.9	670.2	670.2	672.2	670.2
52.5°	606.2	604.9	601.5	598.7	597.5	597.5	597.5	594.7	594.7	593.3	588.6
55°	532.1	534.1	532.7	531.5	530.7	528.7	528.7	525.3	519.8	517.1	514.4
57.5°	468.1	470.9	470.9	468.1	464.7	463.3	460.0	458.0	453.2	448.4	442.9
60°	409.6	413.0	408.2	406.2	405.5	403.5	402.1	394.6	389.8	385.1	379.0
62.5°	353.8	355.2	351.8	349.8	347.6	345.6	345.0	338.9	330.7	324.6	317.1
65°	304.8	302.8	301.4	298.0	294.7	291.9	291.9	283.8	276.3	268.7	261.2
67.5°	253.8	255.2	253.1	250.4	244.9	242.2	238.2	232.7	225.9	218.4	209.5
70°	207.5	206.9	204.8	202.1	198.7	194.0	190.5	187.8	178.3	169.4	161.9
72.5°	165.3	164.7	162.7	159.2	154.4	152.4	149.7	142.9	135.4	127.9	119.7
75°	124.5	125.2	121.8	120.5	115.0	113.0	112.3	104.1	97.9	91.2	83.7
77.5°	89.2	89.2	85.8	83.0	80.3	78.9	76.3	71.5	66.6	59.9	53.7
80°	55.8	55.8	55.8	53.1	50.3	49.0	47.0	43.6	38.8	34.7	30.7
82.5°	29.9	29.9	28.6	27.9	26.5	25.2	24.5	23.2	19.8	17.7	15.0
85°	11.5	11.5	10.9	10.9	9.5	9.5	8.9	8.1	6.8	6.1	5.4
87.5°	1.4	1.4	1.4	1.4	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°	2037.8	2037.8	2037.8	2037.8	2037.8	2037.8	2037.8	2037.8	2037.8	2037.8	2037.8
2.5°	2031.1	2031.1	2030.3	2031.1	2031.1	2031.1	2031.1	2031.1	2031.1	2031.1	2031.7
5°	2009.3	2011.3	2012.0	2012.7	2014.1	2014.7	2015.4	2016.1	2016.8	2017.4	2017.4
7.5°	1981.4	1986.1	1989.5	1993.0	1994.3	1995.6	1997.8	2000.4	2002.5	2002.5	2001.8
10°	1948.1	1954.2	1961.0	1967.1	1969.1	1972.6	1976.0	1980.0	1983.4	1984.1	1984.1
12.5°	1904.5	1911.4	1923.5	1933.8	1937.8	1942.6	1949.4	1955.6	1958.9	1961.0	1960.3
15°	1850.0	1864.4	1881.3	1893.0	1898.3	1906.5	1917.4	1924.3	1929.7	1932.4	1931.0
17.5°	1790.9	1809.2	1827.6	1843.2	1850.8	1858.9	1873.9	1886.1	1894.3	1896.3	1895.0
20°	1723.5	1743.9	1763.6	1783.4	1793.6	1803.2	1818.8	1834.5	1848.0	1850.8	1848.7
22.5°	1643.2	1666.3	1690.2	1712.6	1724.2	1733.0	1755.5	1773.2	1788.8	1795.7	1790.9
25°	1560.2	1584.7	1609.8	1629.6	1642.5	1657.5	1677.9	1698.3	1717.4	1737.2	1719.4
27.5°	1471.8	1494.2	1520.8	1548.0	1560.2	1571.1	1592.2	1618.1	1637.7	1657.5	1637.7
30°	1383.3	1411.8	1435.7	1459.5	1473.1	1486.1	1507.1	1528.2	1547.3	1558.2	1545.9
32.5°	1300.3	1321.4	1345.2	1368.4	1377.9	1388.0	1405.7	1425.5	1443.9	1447.3	1439.1
35°	1213.2	1231.6	1251.3	1266.3	1277.8	1288.7	1304.4	1316.6	1321.4	1332.9	1324.8
37.5°	1114.5	1130.8	1148.6	1159.5	1169.6	1178.5	1190.0	1200.9	1205.1	1213.8	1207.7
40°	1021.4	1034.9	1045.2	1056.7	1062.2	1071.0	1075.7	1084.6	1089.4	1093.5	1094.1
42.5°	931.5	939.0	946.5	954.6	956.6	958.7	970.3	976.4	981.2	983.9	979.8
45°	839.7	847.2	849.8	855.9	859.3	860.7	865.5	866.2	867.6	872.3	870.2
47.5°	756.0	756.6	758.6	761.4	762.8	762.8	765.5	762.8	764.1	764.8	766.1
50°	668.2	673.0	668.2	670.9	671.6	670.9	668.8	667.5	665.5	664.7	664.1
52.5°	585.2	585.8	583.1	581.1	579.1	579.7	574.3	571.5	572.3	568.2	572.9
55°	509.7	506.9	500.8	498.8	494.0	493.3	492.6	489.3	483.8	484.5	485.8
57.5°	436.8	432.0	425.9	422.5	421.1	415.8	415.0	409.6	406.2	405.5	405.5
60°	370.8	366.8	360.7	354.5	349.8	347.0	343.6	338.1	339.5	338.9	335.5
62.5°	308.2	303.4	294.7	287.8	285.1	283.0	278.3	274.2	272.1	274.2	272.1
65°	252.5	244.9	234.8	227.9	227.3	224.5	219.1	216.4	214.4	213.0	215.0
67.5°	200.7	190.5	184.3	175.6	171.4	170.1	162.7	158.5	159.2	158.5	159.2
70°	153.1	142.9	134.7	127.9	122.5	120.5	116.3	110.9	110.2	108.2	110.9
72.5°	110.9	102.1	94.6	87.0	82.3	79.6	74.1	68.7	67.4	66.0	66.0
75°	76.3	68.7	60.6	53.7	50.3	47.6	42.2	38.1	34.7	34.7	34.7
77.5°	47.6	41.5	35.4	30.7	28.6	25.8	21.0	17.0	15.7	13.6	14.3
80°	27.2	22.4	19.0	15.7	13.6	12.3	9.5	7.5	5.4	5.4	5.4
82.5°	12.9	10.9	8.1	6.8	6.1	4.8	3.4	2.7	2.0	1.4	1.4
85°	4.1	3.4	2.7	2.0	1.4	1.4	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°	2037.8	2037.8	2037.8	2037.8	2037.8	2037.8	2037.8	2037.8	2037.8	2037.8	2037.8
2.5°	2031.1	2031.7	2031.1	2031.7	2031.1	2032.5	2032.5	2031.7	2031.7	2031.7	2031.1
5°	2016.8	2016.8	2016.1	2016.1	2016.1	2015.4	2013.4	2013.4	2012.0	2011.3	2009.9
7.5°	2001.1	1999.8	1997.8	1997.0	1995.0	1993.0	1988.9	1985.5	1982.7	1979.4	1976.0
10°	1982.1	1978.6	1974.6	1971.9	1970.5	1965.7	1959.6	1951.4	1946.0	1939.9	1933.0
12.5°	1957.6	1953.4	1946.0	1940.5	1937.2	1928.3	1919.5	1909.2	1898.3	1887.5	1880.7
15°	1925.6	1918.8	1909.2	1903.8	1897.7	1885.4	1869.8	1855.5	1844.6	1832.4	1816.1
17.5°	1888.2	1877.9	1865.0	1856.1	1848.7	1832.4	1814.1	1795.7	1779.3	1764.3	1748.0
20°	1836.5	1824.2	1808.6	1797.0	1789.5	1768.4	1748.7	1726.9	1707.1	1689.5	1670.4
22.5°	1775.9	1755.5	1739.8	1726.3	1718.0	1694.2	1672.4	1649.4	1628.2	1612.6	1592.2
25°	1699.7	1679.9	1660.3	1649.4	1636.4	1611.2	1588.8	1565.0	1545.2	1525.5	1506.5
27.5°	1618.7	1595.5	1573.9	1560.9	1549.3	1524.8	1502.4	1480.6	1458.2	1436.4	1419.3
30°	1530.3	1507.1	1490.1	1473.8	1460.9	1441.1	1413.2	1391.4	1371.8	1352.0	1334.3
32.5°	1431.6	1412.6	1392.2	1384.0	1374.5	1350.6	1328.8	1307.8	1288.0	1268.3	1249.9
35°	1317.3	1302.4	1290.1	1281.2	1275.1	1254.0	1237.0	1214.6	1202.3	1182.5	1169.0
37.5°	1200.3	1192.8	1184.7	1173.8	1164.9	1152.6	1142.5	1124.1	1109.8	1095.5	1080.5
40°	1088.0	1079.8	1069.0	1063.5	1061.4	1050.5	1036.3	1026.8	1018.6	1005.7	997.5
42.5°	978.4	974.4	963.5	960.8	958.0	948.5	941.7	933.6	928.1	918.6	914.5
45°	866.8	866.2	863.5	860.7	859.3	852.6	851.2	841.0	836.3	834.2	830.1
47.5°	768.2	766.1	762.0	766.1	760.0	759.4	759.4	757.3	755.3	749.9	749.1
50°	667.5	670.9	671.6	669.5	673.6	673.0	669.5	670.2	671.6	674.3	670.2
52.5°	574.9	577.7	582.4	580.4	583.8	587.2	585.8	591.3	589.2	592.0	597.5
55°	487.1	494.7	499.4	497.4	500.2	504.2	505.5	510.3	514.4	519.2	522.6
57.5°	411.6	413.7	420.5	422.5	423.3	426.6	433.4	440.9	445.7	449.1	452.5
60°	337.5	344.3	349.0	349.0	354.5	359.3	365.4	372.2	377.7	385.8	392.0
62.5°	274.9	276.3	283.0	283.8	287.8	296.0	300.8	310.9	317.7	326.6	334.7
65°	214.4	220.4	224.5	225.2	231.3	237.4	244.3	253.8	263.4	270.9	278.3
67.5°	160.5	163.9	169.4	174.2	175.6	184.3	194.6	203.5	211.6	218.4	227.9
70°	112.3	115.0	122.5	125.2	129.2	136.1	144.3	153.8	163.3	172.8	180.3
72.5°	68.7	74.9	79.6	83.7	87.0	95.3	104.1	112.3	120.5	128.6	138.1
75°	38.1	42.2	47.6	51.7	55.1	61.2	69.4	77.5	85.0	92.5	99.3
77.5°	17.0	21.0	25.8	28.6	31.3	36.7	42.8	49.7	55.8	61.2	67.4
80°	6.8	9.5	12.3	14.3	15.7	19.0	23.8	27.2	31.3	36.1	40.8
82.5°	2.7	3.4	4.8	6.1	6.8	8.9	10.9	12.9	16.3	18.4	21.0
85°	0.6	0.6	1.4	1.4	2.0	2.7	3.4	4.8	5.4	6.1	7.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	1.4
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: P844508

CATALOG NUMBER: LD6C40DE010B50 EU6C40B50 6LBDWWLI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2037.8	2037.8	2037.8	2037.8	2037.8	2037.8	2037.8	2037.8
2.5°	2031.1	2030.3	2030.3	2030.3	2030.3	2029.7	2029.7	2029.7
5°	2010.7	2009.3	2008.6	2008.6	2006.5	2007.3	2007.3	2006.5
7.5°	1974.6	1973.2	1971.2	1972.6	1971.9	1969.8	1969.1	1968.5
10°	1927.6	1924.9	1924.3	1920.9	1918.8	1918.1	1918.1	1915.4
12.5°	1871.8	1864.4	1863.7	1860.3	1855.5	1852.8	1854.1	1850.0
15°	1809.9	1799.0	1793.6	1790.9	1785.4	1780.6	1776.6	1775.2
17.5°	1734.4	1722.1	1718.0	1715.4	1703.7	1703.1	1697.6	1695.6
20°	1655.5	1644.6	1638.5	1634.4	1625.5	1617.3	1616.7	1616.0
22.5°	1578.6	1560.9	1555.5	1549.3	1539.8	1533.0	1528.9	1525.5
25°	1491.5	1477.2	1467.7	1461.5	1454.8	1449.3	1443.9	1443.1
27.5°	1404.4	1390.8	1384.7	1379.3	1370.4	1364.2	1358.8	1361.5
30°	1319.3	1305.8	1298.9	1294.9	1286.0	1282.6	1273.1	1274.4
32.5°	1235.0	1222.7	1218.0	1209.8	1201.6	1197.6	1194.2	1191.4
35°	1154.0	1143.8	1137.0	1131.6	1124.1	1117.3	1113.9	1113.9
37.5°	1071.7	1061.4	1058.1	1053.9	1047.2	1037.6	1034.3	1037.0
40°	987.9	980.5	977.0	974.4	967.5	964.1	960.8	960.8
42.5°	908.4	900.9	900.2	897.5	892.0	890.0	887.2	885.2
45°	825.4	822.0	819.2	819.2	818.5	817.9	815.9	814.5
47.5°	745.7	746.4	745.1	744.4	745.1	743.0	745.7	743.7
50°	673.0	671.6	673.0	671.6	672.2	675.0	672.2	674.3
52.5°	595.3	601.5	602.2	599.5	602.2	604.2	605.6	609.0
55°	526.6	528.7	530.1	532.7	534.1	538.2	534.1	534.1
57.5°	460.0	463.3	464.7	466.7	472.2	470.1	473.6	476.3
60°	399.4	403.5	406.2	408.2	410.3	415.0	416.4	415.8
62.5°	340.2	346.4	347.0	352.5	353.8	357.3	359.9	357.3
65°	285.1	290.5	294.7	298.0	302.1	305.6	304.8	306.8
67.5°	234.8	241.6	244.9	246.3	251.7	253.1	256.5	258.6
70°	189.1	194.0	198.0	200.0	203.5	207.5	210.9	213.0
72.5°	144.3	151.8	155.8	157.2	162.7	165.3	166.7	168.7
75°	106.8	113.0	115.0	118.3	121.1	127.2	126.6	127.9
77.5°	74.1	78.3	82.3	82.3	87.0	88.4	91.9	92.5
80°	44.2	49.0	51.1	51.7	55.1	57.1	58.5	59.9
82.5°	23.2	26.5	26.5	27.9	30.7	30.7	31.3	32.7
85°	8.9	10.3	10.9	10.9	11.5	12.9	12.9	13.6
87.5°	1.4	1.4	1.4	2.0	2.0	2.0	2.0	2.0
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)