

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: P844510

Luminaire Tested: **LD6C40DE010B50 EU6C40B50 6LBLWWLI**

Issue Date: 5/7/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P844510  
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: LD6C40DE010B50 EU6C40B50 6LBLWWLI  
Description:  
Light Source: -  
Ballast/Driver:

**Summary**

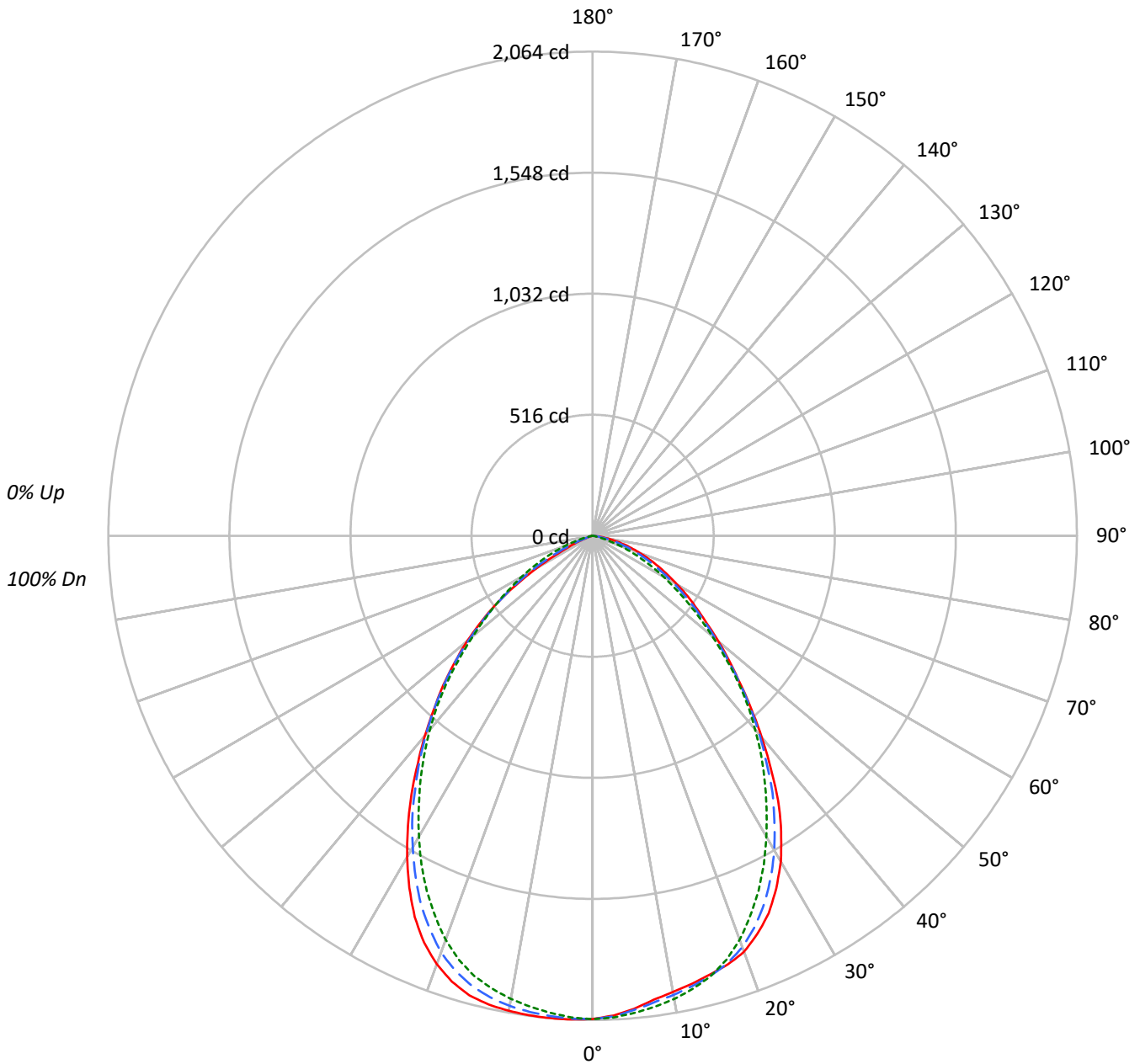
Lumens per Lamp: N/A  
Luminaire Lumens: 3788.4 lumens  
Efficiency: N/A  
Efficacy: 76.1 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.1 / 1.17  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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°	112930	112930	112930
5°	111374	112348	113581
10°	109896	111604	114482
15°	109842	110301	115091
20°	110085	106917	113346
25°	107389	101099	108460
30°	101535	93736	100028
35°	92314	85621	90085
40°	80258	77094	79528
45°	68798	67581	69744
50°	59665	56646	59486
55°	51774	47081	46832
60°	45588	38122	29614
65°	39991	28953	14217
70°	34365	19186	5241
75°	27959	8070	1440
80°	18910	1926	631
85°	7737	377	377



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	194.0	5.1
10°-20°	552.6	14.6
20°-30°	791.9	20.9
30°-40°	825.3	21.8
40°-50°	683.7	18.0
50°-60°	453.2	12.0
60°-70°	219.5	5.8
70°-80°	62.1	1.6
80°-90°	6.0	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°	1538.5	40.6
0°-40°	2363.8	62.4
0°-60°	3500.8	92.4
0°-90°	3788.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3788.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2060	2060	2060	2060	2060	
5°	2024	2029	2042	2056	2064	191
15°	1935	1942	1944	1987	2028	547
25°	1775	1731	1671	1733	1793	812
35°	1379	1336	1279	1319	1346	855
45°	887	885	872	894	900	690
55°	542	524	493	484	490	489
65°	308	278	223	153	110	307
75°	132	101	38	8	7	141
85°	12	5	1	1	1	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°	2060.0	2060.0	2060.0	2060.0	2060.0	2060.0	2060.0	2060.0	2060.0	2060.0	2060.0
2.5°	2046.9	2047.7	2049.1	2047.7	2048.3	2049.1	2049.1	2049.7	2049.7	2050.4	2051.1
5°	2023.9	2025.9	2025.9	2025.9	2025.9	2026.5	2027.3	2027.3	2026.5	2026.5	2029.3
7.5°	1994.6	1996.6	1996.0	1996.6	1997.3	1999.4	1998.7	2000.1	2001.4	2003.5	2006.1
10°	1974.2	1974.8	1974.2	1976.2	1977.6	1978.9	1978.9	1980.3	1981.7	1983.7	1987.1
12.5°	1955.8	1956.5	1957.2	1958.5	1959.9	1959.2	1960.5	1961.9	1962.7	1964.0	1966.0
15°	1935.4	1938.7	1938.1	1938.7	1939.5	1940.1	1940.9	1941.5	1940.9	1940.9	1942.2
17.5°	1916.3	1917.1	1917.7	1917.7	1917.7	1917.7	1916.3	1916.3	1914.3	1912.2	1910.9
20°	1887.0	1886.4	1885.0	1885.0	1882.3	1883.0	1880.3	1878.9	1875.5	1870.7	1866.0
22.5°	1836.1	1839.4	1838.1	1833.3	1830.6	1830.6	1827.9	1821.8	1816.3	1810.9	1804.7
25°	1775.4	1774.1	1772.1	1769.3	1765.3	1762.5	1758.4	1754.4	1745.5	1736.0	1730.6
27.5°	1694.5	1696.6	1691.8	1687.7	1685.7	1681.5	1677.5	1672.0	1661.1	1653.0	1643.5
30°	1604.0	1602.6	1601.9	1596.5	1591.0	1592.4	1584.2	1578.1	1570.0	1556.3	1548.9
32.5°	1495.1	1497.2	1493.1	1492.4	1482.2	1480.8	1480.8	1471.3	1464.5	1451.5	1441.3
35°	1379.4	1378.1	1376.7	1372.0	1371.2	1367.2	1363.7	1356.9	1348.1	1344.0	1335.9
37.5°	1246.0	1246.7	1247.4	1247.4	1244.6	1242.0	1239.2	1239.2	1227.0	1225.0	1215.4
40°	1121.5	1123.5	1122.9	1118.1	1118.8	1119.4	1118.8	1118.1	1110.6	1107.9	1106.5
42.5°	1000.3	1003.8	1000.3	999.7	1000.3	1000.3	999.0	1001.1	997.7	1000.3	994.3
45°	887.4	890.1	888.1	887.4	886.1	889.5	885.3	888.7	886.7	883.3	884.7
47.5°	790.1	787.4	790.1	788.7	786.7	783.9	788.0	786.0	781.3	780.5	781.9
50°	699.6	698.2	699.6	698.9	695.5	695.5	694.8	693.5	692.1	688.0	685.2
52.5°	613.1	617.9	614.5	617.9	613.1	611.1	611.7	609.7	607.0	605.7	600.2
55°	541.7	542.4	542.4	542.4	539.6	538.3	537.0	535.6	535.6	529.5	524.0
57.5°	479.7	478.4	477.7	475.7	474.3	473.0	471.6	467.5	463.5	458.0	453.9
60°	415.8	417.1	417.1	414.5	412.4	410.4	409.6	407.0	402.2	396.7	390.6
62.5°	360.7	362.0	358.6	358.6	354.5	353.9	353.9	349.8	344.4	338.2	331.5
65°	308.3	307.6	308.9	304.2	304.9	300.8	299.4	297.4	291.9	284.5	278.4
67.5°	258.6	260.0	258.0	256.6	253.8	252.5	251.1	244.9	242.3	235.4	228.7
70°	214.4	213.0	211.6	211.6	208.9	206.9	206.2	199.4	196.0	190.6	183.1
72.5°	172.8	171.4	170.2	168.1	166.0	165.4	161.3	157.2	153.1	146.3	140.9
75°	132.0	131.4	130.0	128.6	125.2	123.8	123.2	118.5	110.9	105.4	100.7
77.5°	95.3	95.9	93.3	90.5	88.4	86.4	85.0	81.0	76.3	70.1	65.4
80°	59.9	60.6	59.9	57.9	55.1	54.5	52.4	49.7	45.6	41.5	38.1
82.5°	31.9	31.9	31.3	30.7	28.6	28.6	27.2	25.2	23.2	21.0	18.4
85°	12.3	12.3	11.5	10.9	10.3	10.3	9.5	8.9	7.5	6.8	5.4
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°	2060.0	2060.0	2060.0	2060.0	2060.0	2060.0	2060.0	2060.0	2060.0	2060.0	2060.0
2.5°	2051.1	2051.8	2052.4	2053.1	2053.1	2053.1	2053.8	2054.5	2054.5	2055.2	2055.8
5°	2030.7	2031.4	2033.4	2034.0	2035.4	2034.8	2036.8	2038.8	2040.2	2041.6	2043.6
7.5°	2007.5	2009.6	2012.3	2014.4	2015.0	2015.7	2017.8	2020.5	2022.5	2025.3	2027.3
10°	1988.5	1990.5	1993.2	1996.0	1996.0	1997.3	1998.7	2000.7	2002.7	2004.9	2007.5
12.5°	1967.4	1970.1	1970.8	1972.2	1972.2	1972.8	1974.2	1974.8	1976.9	1977.6	1981.7
15°	1942.2	1942.2	1942.2	1942.2	1942.2	1941.5	1940.1	1941.5	1941.5	1943.5	1945.6
17.5°	1907.4	1907.4	1903.4	1901.4	1902.0	1898.7	1897.9	1895.3	1895.3	1895.3	1897.3
20°	1861.9	1855.7	1851.0	1844.8	1842.2	1840.8	1839.4	1833.3	1832.7	1832.7	1832.7
22.5°	1797.2	1790.5	1783.6	1778.8	1771.4	1768.7	1765.9	1761.9	1757.0	1754.4	1760.5
25°	1718.3	1710.1	1701.9	1692.4	1690.4	1687.0	1680.2	1676.1	1674.0	1671.4	1672.8
27.5°	1634.6	1623.0	1614.2	1604.6	1601.3	1597.1	1591.0	1585.0	1578.1	1579.5	1579.5
30°	1538.6	1525.0	1515.5	1504.0	1503.2	1499.2	1493.7	1486.3	1480.8	1480.8	1484.2
32.5°	1434.6	1425.1	1416.2	1403.3	1401.2	1398.5	1394.4	1387.6	1383.5	1379.4	1382.1
35°	1329.0	1314.1	1308.0	1299.8	1300.5	1293.0	1286.8	1282.8	1283.4	1279.4	1281.4
37.5°	1215.4	1206.5	1197.7	1194.3	1190.9	1186.8	1184.1	1181.4	1180.0	1180.0	1178.6
40°	1100.4	1095.6	1091.6	1090.2	1084.1	1085.4	1084.7	1082.7	1078.6	1077.3	1081.3
42.5°	992.2	987.4	985.4	982.0	981.3	979.3	979.3	977.3	976.5	977.3	976.5
45°	880.6	880.0	875.2	875.2	877.8	875.8	870.4	873.8	873.8	871.7	875.8
47.5°	777.8	778.5	775.8	770.4	770.4	767.0	762.9	766.3	768.3	764.9	767.0
50°	684.6	680.5	675.1	671.0	673.1	671.7	668.3	665.6	663.5	664.2	666.9
52.5°	596.1	594.1	587.9	583.2	581.8	582.5	578.4	574.4	575.0	574.4	573.0
55°	516.5	516.5	508.3	506.3	500.9	500.9	495.4	494.8	492.6	492.6	489.3
57.5°	447.8	441.7	436.9	432.1	430.1	427.4	425.3	420.5	418.5	414.5	413.7
60°	384.4	377.0	373.6	368.2	364.0	361.4	357.9	353.9	351.1	347.7	343.6
62.5°	328.0	319.8	313.1	307.6	304.2	303.5	298.0	293.3	287.9	283.8	277.0
65°	271.5	266.7	259.2	251.8	250.4	247.1	241.6	236.2	229.3	223.2	219.1
67.5°	221.9	215.8	208.9	204.9	200.1	197.4	191.2	183.1	175.6	169.4	161.9
70°	177.6	168.8	162.7	155.8	154.5	148.4	142.9	134.7	128.0	119.7	108.8
72.5°	133.4	124.5	119.7	113.0	108.8	105.4	98.0	90.5	79.6	73.5	64.0
75°	93.9	86.4	79.6	72.8	70.1	65.4	59.2	51.1	44.2	38.1	31.3
77.5°	58.5	53.7	47.6	42.2	39.4	36.7	31.9	25.9	21.0	16.3	12.3
80°	33.3	29.3	25.2	21.0	19.8	18.4	14.3	10.9	8.9	6.1	4.1
82.5°	15.7	12.9	10.9	8.9	8.1	6.8	4.8	3.4	2.0	1.4	0.6
85°	4.8	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°	2060.0	2060.0	2060.0	2060.0	2060.0	2060.0	2060.0	2060.0	2060.0	2060.0	2060.0
2.5°	2055.8	2056.6	2057.2	2057.2	2057.2	2057.8	2057.8	2059.2	2060.0	2060.6	2060.6
5°	2044.9	2046.9	2048.3	2049.1	2049.7	2051.8	2052.4	2054.5	2055.8	2057.2	2058.6
7.5°	2030.0	2032.0	2034.8	2036.2	2037.4	2040.2	2042.2	2045.7	2047.7	2050.4	2053.1
10°	2010.9	2013.6	2017.8	2019.1	2020.5	2023.9	2027.9	2032.0	2035.4	2039.5	2042.9
12.5°	1983.1	1987.1	1991.8	1993.2	1995.2	2000.1	2004.9	2010.9	2015.7	2021.1	2026.5
15°	1948.4	1953.8	1957.2	1958.5	1961.3	1968.0	1972.8	1979.6	1987.1	1995.2	2001.4
17.5°	1900.0	1902.7	1908.8	1911.6	1915.0	1921.8	1929.2	1937.5	1944.2	1953.1	1962.7
20°	1836.7	1840.8	1848.3	1851.0	1855.1	1861.2	1872.1	1878.9	1889.8	1900.7	1907.4
22.5°	1757.8	1765.3	1772.7	1776.2	1778.8	1786.3	1793.9	1805.4	1814.3	1829.3	1838.1
25°	1676.1	1678.1	1684.3	1690.4	1691.8	1701.3	1710.1	1723.7	1732.6	1742.1	1754.4
27.5°	1582.2	1585.0	1594.5	1595.9	1596.5	1606.7	1616.9	1627.8	1635.3	1646.2	1652.3
30°	1484.2	1488.9	1493.1	1495.8	1500.6	1505.3	1514.8	1528.5	1533.9	1543.4	1551.5
32.5°	1384.1	1384.1	1393.7	1394.4	1397.1	1408.0	1413.4	1421.6	1431.1	1438.6	1438.0
35°	1284.8	1287.6	1290.9	1295.7	1297.7	1304.6	1306.6	1312.7	1318.9	1324.3	1331.1
37.5°	1182.0	1182.0	1189.5	1192.9	1195.0	1198.4	1201.8	1207.9	1211.3	1213.3	1217.4
40°	1084.1	1086.8	1088.2	1089.5	1089.5	1094.2	1097.0	1101.7	1103.9	1109.2	1106.5
42.5°	984.7	983.4	984.0	987.4	988.1	990.8	992.9	995.6	998.3	996.9	1001.7
45°	879.2	880.0	881.2	881.2	883.3	886.7	890.1	891.5	893.5	896.9	897.6
47.5°	769.0	772.4	770.4	775.8	777.1	777.8	786.0	786.7	793.4	794.8	794.8
50°	666.2	666.2	670.3	672.3	673.7	675.7	678.5	681.2	683.2	688.0	689.4
52.5°	573.7	575.0	575.0	573.0	575.0	575.0	581.8	582.5	581.8	583.2	585.3
55°	490.6	491.4	487.3	490.0	489.3	487.3	488.6	484.5	483.9	485.9	484.5
57.5°	411.0	408.4	407.6	404.2	404.2	400.8	397.5	397.5	394.7	389.9	389.2
60°	339.6	335.5	332.7	330.7	325.3	321.8	317.1	313.1	307.6	301.4	298.0
62.5°	272.2	267.5	262.0	259.2	255.2	247.1	240.9	234.8	225.9	220.5	215.0
65°	212.4	204.9	196.0	191.9	187.8	180.3	172.2	161.9	153.1	145.6	136.1
67.5°	153.8	145.6	136.8	130.6	126.6	117.7	108.2	99.3	89.2	81.0	76.3
70°	100.7	90.5	82.4	77.6	73.5	64.6	55.8	48.3	43.6	41.5	40.8
72.5°	57.1	47.0	40.8	36.1	32.7	26.5	21.8	19.0	17.7	17.0	15.7
75°	24.5	18.4	14.3	11.5	10.3	8.1	7.5	7.5	7.5	6.8	6.8
77.5°	8.9	6.1	4.8	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
80°	2.7	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
82.5°	1.4	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: P844510

CATALOG NUMBER: LD6C40DE010B50 EU6C40B50 6LBLWWLI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2060.0	2060.0	2060.0	2060.0	2060.0	2060.0	2060.0	2060.0
2.5°	2061.3	2062.6	2062.6	2063.3	2064.0	2064.0	2064.0	2064.0
5°	2060.0	2061.3	2062.0	2062.6	2063.3	2064.0	2064.0	2064.0
7.5°	2054.5	2057.2	2057.8	2059.2	2060.6	2061.3	2061.3	2062.0
10°	2046.3	2049.1	2051.1	2052.4	2053.8	2055.2	2056.6	2056.6
12.5°	2031.4	2035.4	2038.2	2039.5	2042.9	2044.3	2045.7	2046.9
15°	2006.9	2012.3	2015.7	2018.4	2021.1	2025.3	2025.9	2027.9
17.5°	1970.1	1977.6	1978.9	1983.1	1986.4	1993.2	1992.6	1993.2
20°	1917.1	1925.2	1927.9	1932.0	1937.5	1942.2	1946.3	1942.9
22.5°	1846.2	1855.7	1859.8	1864.0	1867.4	1871.4	1876.9	1877.5
25°	1762.5	1770.7	1774.1	1776.8	1783.6	1787.1	1792.5	1793.1
27.5°	1666.6	1671.4	1676.1	1677.5	1684.9	1687.0	1691.8	1691.8
30°	1557.7	1563.2	1568.6	1570.6	1572.7	1574.7	1578.1	1580.2
32.5°	1446.1	1451.5	1453.6	1457.0	1457.6	1461.1	1459.7	1465.1
35°	1334.5	1335.9	1337.9	1337.2	1342.0	1341.3	1346.8	1346.1
37.5°	1222.2	1220.8	1224.2	1227.7	1226.3	1225.0	1227.0	1223.6
40°	1109.9	1110.6	1111.3	1114.6	1111.3	1113.4	1112.0	1111.3
42.5°	1005.2	1005.2	1001.1	1005.2	1002.4	1001.1	1003.8	999.7
45°	899.0	898.2	899.0	899.6	899.6	899.6	896.9	899.6
47.5°	798.2	798.9	796.2	800.9	799.6	796.9	796.9	794.8
50°	691.4	695.5	700.3	696.1	699.6	697.5	695.5	697.5
52.5°	590.1	592.7	589.3	590.1	597.5	597.5	593.4	592.7
55°	481.9	481.9	483.1	483.9	484.5	493.4	488.6	490.0
57.5°	385.2	385.2	383.2	387.2	384.4	381.1	384.4	375.7
60°	292.6	291.9	289.9	287.1	280.4	278.4	270.9	270.1
62.5°	208.2	200.7	198.0	192.6	185.1	183.1	175.6	174.9
65°	129.3	120.5	117.7	115.0	111.6	110.9	108.2	109.6
67.5°	73.5	72.1	71.5	69.4	68.0	66.7	66.7	66.0
70°	38.8	36.1	35.4	34.7	34.7	31.9	31.3	32.7
72.5°	15.0	13.6	13.6	13.6	12.9	12.9	12.9	12.9
75°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
77.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
80°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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)