

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: P844509

Luminaire Tested: **LD6C40DE010B50 EU6C40B50 6LBLWWH**

Issue Date: 5/7/2024



Test Information

Test Method: LM-79-08
Report Number: P844509
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: LD6C40DE010B50 EU6C40B50 6LBLWWH
Description:
Light Source: -
Ballast/Driver:

Summary

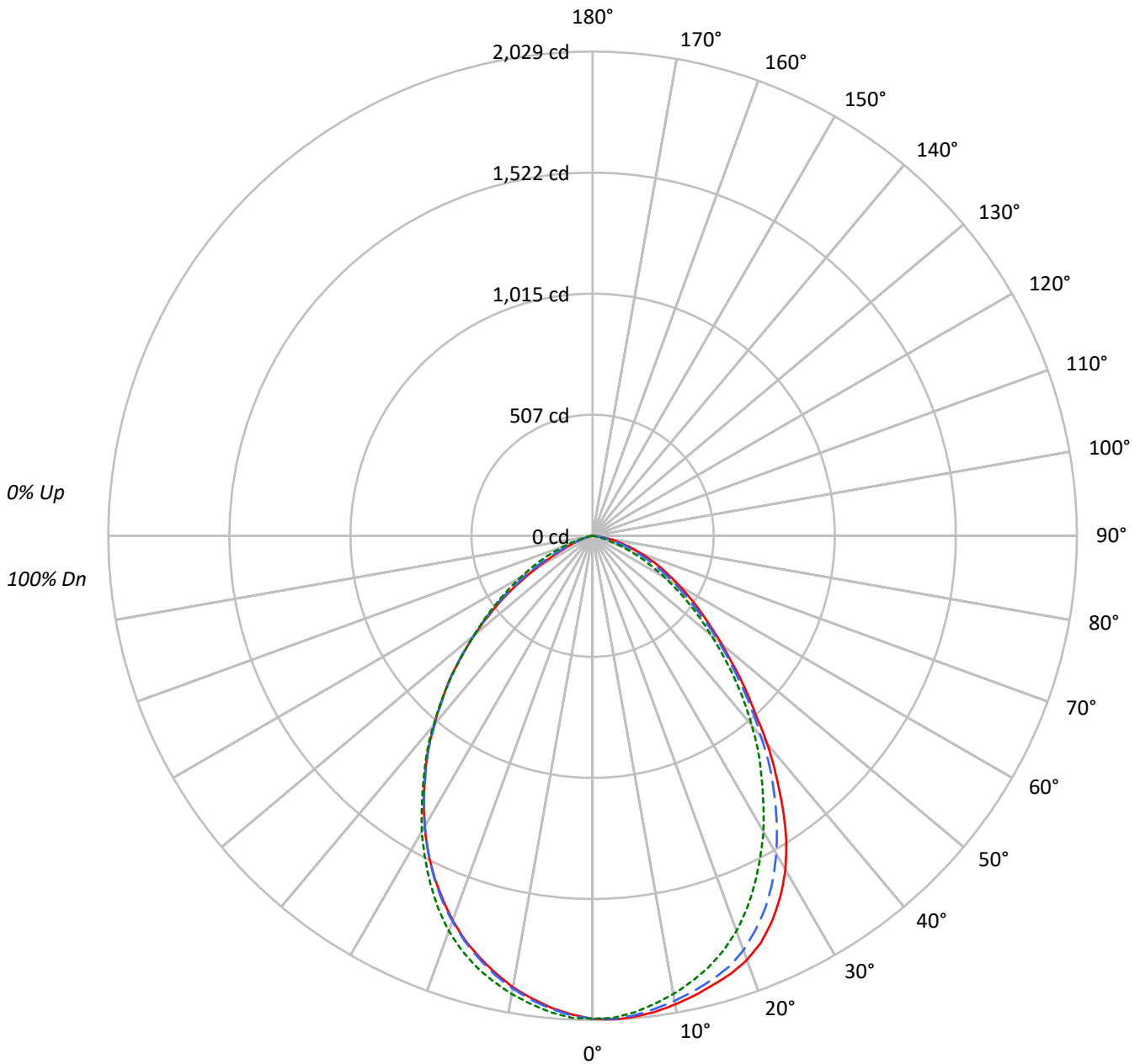
Lumens per Lamp: N/A
Luminaire Lumens: 3681.6 lumens
Efficiency: N/A
Efficacy: 73.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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									
RC	80									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	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89																			
2	103	96	91	86	101	95	90	85	91	87	83	88	85	81	85	82	80	78																			
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68																			
4	89	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60																			
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	64	60	56	54																			
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48																			
7	71	59	52	46	70	59	51	46	57	51	46	56	50	45	55	49	45	43																			
8	67	55	47	42	65	54	47	42	53	46	42	52	46	41	51	45	41	39																			
9	63	51	43	38	62	50	43	38	49	42	38	48	42	38	47	42	38	36																			
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	38	35	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	110956	110956	110956
5°	111347	110334	109250
10°	111003	108543	106951
15°	110585	106300	103826
20°	110341	102798	100062
25°	107655	97282	95141
30°	102288	90609	89102
35°	92836	82503	81954
40°	81453	74246	73853
45°	69837	64875	65410
50°	60109	55290	55000
55°	52548	46689	43831
60°	46170	38264	29921
65°	40419	29653	18005
70°	34461	19955	10579
75°	27832	10379	5761
80°	19321	4072	3220
85°	7737	1258	1698



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.7	5.2
10°-20°	529.6	14.4
20°-30°	753.6	20.5
30°-40°	793.2	21.5
40°-50°	661.0	18.0
50°-60°	446.6	12.1
60°-70°	226.4	6.2
70°-80°	73.1	2.0
80°-90°	8.4	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°	1472.9	40.0
0°-40°	2266.1	61.6
0°-60°	3373.7	91.6
0°-90°	3681.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3681.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2024	2024	2024	2024	2024	
5°	2023	2017	2005	1990	1985	192
15°	1948	1927	1873	1836	1829	551
25°	1780	1715	1608	1575	1573	816
35°	1387	1327	1233	1220	1225	863
45°	901	878	837	840	844	697
55°	550	523	488	474	459	495
65°	312	281	229	165	139	310
75°	131	103	49	26	27	142
85°	12	7	2	3	3	21
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°	2024.0	2024.0	2024.0	2024.0	2024.0	2024.0	2024.0	2024.0	2024.0	2024.0	2024.0
2.5°	2028.8	2028.8	2028.8	2028.8	2028.8	2028.8	2028.1	2028.1	2026.7	2026.7	2026.1
5°	2023.4	2024.0	2024.0	2023.4	2023.4	2022.0	2022.0	2021.2	2019.2	2017.9	2017.2
7.5°	2011.7	2011.7	2011.1	2010.5	2009.7	2007.7	2007.0	2005.0	2003.6	2002.2	1999.6
10°	1994.1	1994.1	1993.4	1992.1	1991.3	1990.0	1990.0	1987.3	1984.5	1981.2	1979.1
12.5°	1973.0	1973.7	1972.3	1971.6	1969.6	1968.9	1967.5	1964.1	1962.1	1958.0	1954.6
15°	1948.5	1949.9	1949.9	1947.1	1945.1	1944.5	1942.3	1940.3	1935.6	1931.5	1927.4
17.5°	1924.7	1926.1	1924.7	1922.7	1920.6	1917.9	1916.5	1912.4	1906.3	1900.9	1894.8
20°	1891.4	1893.4	1890.6	1887.2	1883.2	1882.5	1880.5	1873.7	1864.8	1856.7	1847.8
22.5°	1844.4	1843.0	1841.0	1839.6	1832.9	1828.8	1826.0	1817.2	1807.7	1796.8	1785.9
25°	1779.8	1782.5	1778.4	1772.3	1768.9	1764.8	1758.0	1748.5	1739.6	1728.1	1715.2
27.5°	1703.5	1703.5	1698.1	1696.1	1688.6	1683.1	1679.7	1670.2	1658.7	1647.2	1632.8
30°	1615.9	1611.7	1611.7	1602.2	1596.1	1594.1	1590.7	1575.0	1564.8	1552.5	1538.2
32.5°	1509.7	1509.0	1506.3	1500.1	1492.0	1485.2	1485.2	1474.3	1460.7	1445.7	1436.9
35°	1387.2	1387.9	1386.6	1379.7	1379.7	1371.5	1370.2	1360.6	1349.8	1338.2	1327.3
37.5°	1260.7	1263.3	1260.7	1257.3	1255.2	1254.6	1248.4	1241.7	1233.4	1226.6	1218.5
40°	1138.2	1134.1	1135.5	1128.7	1129.3	1128.0	1125.3	1116.4	1111.7	1104.9	1096.0
42.5°	1006.2	1010.4	1011.6	1007.6	1006.2	1003.5	1006.2	1002.8	997.3	994.0	985.8
45°	900.8	896.7	898.8	897.4	898.0	892.6	890.5	889.3	887.1	881.0	877.6
47.5°	796.0	796.7	796.0	793.3	792.0	792.0	789.2	785.1	785.1	781.1	778.3
50°	704.8	704.8	706.2	702.8	701.4	698.7	699.4	695.3	692.5	689.2	687.1
52.5°	621.1	621.8	619.1	619.8	618.4	618.4	615.8	613.0	610.3	604.1	602.7
55°	549.8	550.4	547.0	548.4	544.3	542.2	540.9	536.7	536.7	530.6	523.2
57.5°	483.0	482.4	481.6	479.6	476.9	474.9	472.9	468.1	466.0	462.0	455.8
60°	421.1	420.4	419.1	418.4	416.4	411.6	411.6	408.2	401.4	397.4	391.2
62.5°	362.7	362.7	361.9	359.9	357.9	355.8	354.4	351.8	344.9	340.1	334.7
65°	311.6	310.9	308.8	305.4	304.1	304.1	299.3	297.3	291.9	287.1	281.0
67.5°	262.6	259.9	258.5	259.2	255.1	255.1	251.1	247.6	242.8	234.7	229.9
70°	215.0	213.6	212.3	210.9	210.3	207.5	205.5	201.4	196.6	190.5	183.0
72.5°	172.1	172.1	170.1	168.7	166.7	163.9	162.6	159.2	153.8	146.9	141.5
75°	131.4	131.4	131.4	128.6	127.2	125.9	121.7	119.7	113.6	109.6	102.7
77.5°	96.6	95.3	93.2	92.5	91.2	89.8	87.8	84.4	78.9	74.1	70.1
80°	61.2	63.2	61.2	61.2	57.9	56.5	55.7	51.7	49.7	45.6	42.2
82.5°	34.1	34.7	33.3	32.7	30.6	29.9	29.9	27.2	25.8	23.2	21.0
85°	12.3	12.9	12.3	12.3	10.9	11.5	10.9	10.2	8.9	7.5	6.8
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°	2024.0	2024.0	2024.0	2024.0	2024.0	2024.0	2024.0	2024.0	2024.0	2024.0	2024.0
2.5°	2026.1	2024.7	2024.7	2024.0	2023.4	2023.4	2023.4	2022.6	2021.2	2021.2	2020.6
5°	2015.8	2014.5	2012.5	2011.1	2010.5	2009.7	2009.1	2008.3	2005.7	2005.0	2002.9
7.5°	1997.4	1996.1	1992.7	1991.3	1989.3	1988.7	1985.9	1984.5	1981.8	1979.1	1977.8
10°	1975.8	1972.3	1969.6	1966.1	1964.9	1962.8	1959.4	1955.4	1953.2	1949.9	1947.1
12.5°	1951.2	1947.1	1941.7	1937.6	1936.2	1932.8	1927.4	1924.0	1919.3	1913.8	1909.0
15°	1920.6	1915.8	1911.0	1903.6	1901.5	1897.5	1892.0	1885.2	1878.5	1873.0	1867.6
17.5°	1887.2	1879.7	1872.3	1864.2	1858.1	1855.9	1847.2	1837.6	1831.5	1822.0	1815.9
20°	1840.3	1830.1	1817.9	1809.7	1804.2	1798.2	1787.9	1777.8	1770.3	1762.1	1753.2
22.5°	1775.7	1766.1	1751.9	1739.6	1735.6	1726.7	1717.9	1708.3	1698.8	1690.0	1679.1
25°	1699.5	1689.3	1675.0	1662.7	1655.9	1651.9	1634.9	1625.4	1615.9	1608.3	1600.8
27.5°	1621.2	1602.8	1593.3	1574.3	1568.2	1566.8	1551.2	1541.0	1530.8	1520.6	1511.0
30°	1524.7	1510.4	1496.0	1482.5	1474.3	1469.6	1457.9	1445.0	1438.3	1431.4	1421.9
32.5°	1424.6	1411.7	1394.1	1381.1	1374.9	1368.2	1358.0	1349.1	1339.0	1331.5	1329.3
35°	1317.8	1303.5	1288.5	1279.0	1277.7	1269.5	1259.3	1251.8	1244.3	1232.8	1230.8
37.5°	1203.5	1195.3	1185.2	1171.5	1165.4	1165.4	1155.3	1149.8	1140.2	1139.6	1134.1
40°	1091.3	1087.9	1072.2	1068.1	1066.7	1057.2	1054.6	1045.0	1038.2	1037.5	1029.4
42.5°	980.3	971.5	968.8	962.0	955.9	954.5	948.4	944.4	941.6	937.5	933.5
45°	870.1	868.1	861.3	856.6	854.5	851.8	849.7	841.6	840.2	836.8	834.8
47.5°	774.9	769.4	763.3	757.9	757.3	753.1	748.4	748.4	740.9	740.2	738.9
50°	680.4	676.3	672.9	665.4	666.7	661.3	660.6	654.5	651.1	648.3	651.8
52.5°	597.4	589.2	587.8	581.7	579.7	580.3	572.8	570.8	569.4	566.7	565.4
55°	518.5	514.3	508.9	504.8	501.4	498.0	495.3	495.3	487.8	488.5	485.1
57.5°	449.1	445.6	438.8	432.7	431.3	427.3	423.9	420.4	419.8	415.0	411.6
60°	387.1	381.0	372.2	369.4	365.3	361.9	358.5	354.4	352.4	349.0	342.9
62.5°	329.2	319.1	315.7	310.2	305.4	303.4	298.0	293.2	289.8	285.0	280.3
65°	274.1	266.7	260.6	254.5	253.7	248.3	243.6	239.4	232.7	228.6	219.8
67.5°	223.8	217.0	210.3	204.1	199.4	198.0	190.5	185.7	181.0	172.8	165.3
70°	177.6	170.8	165.3	157.8	155.8	150.4	144.9	140.1	132.0	124.5	118.3
72.5°	135.4	127.9	121.7	116.3	113.0	108.2	102.7	97.3	89.2	81.6	76.1
75°	96.6	91.2	85.0	79.6	76.9	74.1	68.0	61.9	56.5	49.0	44.2
77.5°	65.4	59.9	54.5	49.7	46.2	44.2	40.2	35.3	30.6	26.5	23.2
80°	38.1	34.7	30.6	26.5	25.8	23.8	20.4	17.7	15.0	12.9	10.2
82.5°	18.4	16.3	13.6	11.5	10.2	9.5	8.1	6.8	5.4	4.8	4.8
85°	5.4	4.8	4.1	3.4	2.7	2.7	2.0	2.0	2.0	2.0	2.0
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°	2024.0	2024.0	2024.0	2024.0	2024.0	2024.0	2024.0	2024.0	2024.0	2024.0	2024.0
2.5°	2018.6	2017.9	2017.2	2016.5	2015.2	2015.2	2013.1	2011.7	2011.7	2010.5	2009.7
5°	2000.9	1998.8	1998.2	1996.8	1995.4	1994.8	1992.1	1991.3	1990.0	1988.7	1988.7
7.5°	1975.8	1973.0	1970.3	1968.9	1968.3	1966.1	1964.9	1964.1	1962.1	1960.7	1958.0
10°	1942.3	1940.3	1937.0	1935.6	1934.2	1932.8	1929.4	1927.4	1926.7	1925.3	1924.0
12.5°	1903.6	1900.9	1897.5	1894.8	1893.4	1891.4	1888.0	1885.9	1885.9	1883.2	1883.2
15°	1862.1	1858.1	1851.9	1849.2	1848.5	1844.4	1841.7	1839.0	1835.5	1834.3	1834.3
17.5°	1809.1	1802.2	1796.8	1796.8	1794.1	1789.9	1785.9	1783.8	1781.8	1779.0	1777.8
20°	1746.5	1741.7	1735.6	1735.6	1729.4	1728.1	1723.9	1723.3	1718.5	1719.2	1717.2
22.5°	1671.0	1668.2	1664.8	1662.1	1658.7	1654.6	1652.6	1653.2	1651.2	1650.5	1649.8
25°	1594.7	1587.2	1583.2	1581.8	1580.4	1577.0	1575.7	1575.0	1575.0	1572.9	1573.7
27.5°	1506.9	1501.5	1496.0	1498.1	1495.4	1493.4	1492.0	1490.0	1491.3	1490.6	1491.3
30°	1417.1	1410.4	1407.0	1408.3	1407.6	1402.2	1404.9	1404.2	1404.9	1404.9	1406.2
32.5°	1322.6	1317.8	1317.2	1317.8	1311.7	1312.4	1309.7	1313.8	1314.4	1318.6	1315.1
35°	1226.6	1223.9	1219.1	1218.5	1219.1	1218.5	1218.5	1221.2	1220.5	1224.6	1223.3
37.5°	1128.0	1126.7	1121.8	1123.2	1120.6	1125.3	1126.7	1125.3	1130.1	1128.7	1128.0
40°	1031.4	1029.4	1026.6	1032.0	1028.7	1025.9	1030.8	1026.6	1028.0	1032.0	1032.0
42.5°	933.5	930.0	930.0	930.0	929.3	929.3	931.4	933.5	932.1	932.7	938.2
45°	834.8	834.0	832.0	833.4	832.8	836.2	836.2	837.5	840.2	842.9	841.6
47.5°	739.5	738.1	740.2	738.9	739.5	737.5	738.9	742.9	746.4	741.6	746.4
50°	650.4	647.7	647.0	649.1	648.3	647.7	649.1	649.1	647.7	647.7	652.5
52.5°	565.4	562.7	560.7	564.0	561.9	562.7	559.9	559.9	561.3	559.9	557.9
55°	485.8	483.8	481.0	482.4	479.0	478.3	475.5	475.5	473.5	472.1	468.1
57.5°	409.5	408.2	402.1	401.4	402.1	397.4	392.6	390.5	385.1	383.7	383.1
60°	342.3	334.7	331.4	327.2	324.5	322.5	317.1	313.6	305.4	300.7	300.1
62.5°	272.1	268.7	264.6	258.5	257.2	250.3	244.9	236.1	232.0	225.9	219.8
65°	215.7	206.9	200.7	197.2	191.9	185.7	179.6	170.1	165.3	157.8	151.7
67.5°	157.8	150.4	142.1	139.5	134.7	127.2	121.1	113.0	108.8	102.1	100.1
70°	108.2	101.3	95.3	91.2	87.8	80.3	74.1	71.4	67.4	66.0	66.0
72.5°	69.4	63.2	56.5	54.5	51.7	47.6	43.6	42.2	43.6	42.8	42.8
75°	38.8	35.3	30.6	28.6	28.6	27.2	26.5	26.5	26.5	26.5	26.5
77.5°	19.8	17.7	16.3	15.7	15.7	15.7	16.3	16.3	16.3	17.0	16.3
80°	9.5	8.9	8.9	8.9	9.5	9.5	9.5	9.5	9.5	10.2	9.5
82.5°	4.8	4.8	4.8	4.8	4.8	4.8	5.4	5.4	5.4	5.4	5.4
85°	2.0	2.0	2.0	2.0	2.7	2.7	2.7	2.7	2.7	2.7	2.7
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: P844509

CATALOG NUMBER: LD6C40DE010B50 EU6C40B50 6LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2024.0	2024.0	2024.0	2024.0	2024.0	2024.0	2024.0	2024.0
2.5°	2009.1	2007.7	2007.7	2007.0	2007.0	2007.0	2007.0	2007.7
5°	1987.3	1986.6	1986.6	1985.3	1985.3	1985.3	1985.3	1985.3
7.5°	1958.0	1956.6	1957.4	1956.0	1956.0	1956.6	1956.0	1955.4
10°	1921.9	1921.3	1921.9	1921.9	1920.6	1919.9	1920.6	1921.3
12.5°	1881.1	1880.5	1879.1	1879.7	1879.7	1879.1	1878.5	1877.1
15°	1833.5	1832.9	1832.1	1831.5	1830.8	1831.5	1830.8	1829.4
17.5°	1777.8	1777.8	1777.0	1776.4	1775.7	1774.3	1775.0	1777.0
20°	1717.9	1717.2	1715.8	1716.5	1713.8	1712.4	1713.0	1715.2
22.5°	1649.2	1647.2	1648.4	1646.4	1646.4	1647.2	1646.4	1645.0
25°	1574.3	1571.5	1572.9	1573.7	1573.7	1572.9	1572.3	1572.9
27.5°	1491.3	1493.4	1493.4	1492.0	1494.0	1491.3	1492.6	1493.4
30°	1406.2	1404.2	1403.6	1406.2	1410.4	1407.0	1407.0	1407.6
32.5°	1318.6	1315.8	1315.8	1317.2	1316.4	1316.4	1319.2	1315.8
35°	1224.6	1226.0	1220.5	1223.9	1225.3	1223.9	1224.6	1224.6
37.5°	1130.1	1128.7	1128.7	1128.7	1130.7	1130.7	1132.1	1131.5
40°	1036.8	1034.2	1033.4	1034.8	1032.0	1034.2	1034.2	1032.0
42.5°	936.1	936.9	940.2	936.9	937.5	936.9	935.5	934.8
45°	842.9	844.9	843.7	842.9	843.7	840.9	841.6	843.7
47.5°	744.3	748.4	744.3	747.0	746.4	745.0	743.6	740.9
50°	651.8	653.1	652.5	651.8	651.1	650.4	647.0	644.9
52.5°	557.2	557.2	557.2	557.2	550.4	553.8	552.4	548.4
55°	464.7	466.7	464.0	464.0	459.2	459.2	457.8	458.6
57.5°	375.6	373.6	371.4	371.4	366.7	364.7	362.7	359.9
60°	292.5	290.5	287.8	284.4	279.6	279.6	278.3	272.9
62.5°	214.3	210.9	208.9	206.1	202.1	199.4	197.2	198.6
65°	146.9	143.5	140.9	140.9	140.9	139.5	138.8	138.8
67.5°	96.6	98.7	97.3	98.7	98.7	97.3	96.6	97.9
70°	66.6	66.6	66.0	66.0	66.0	66.0	65.4	66.0
72.5°	42.8	42.8	42.8	43.6	42.8	42.8	43.6	43.6
75°	27.2	27.2	27.2	27.9	27.2	27.2	27.9	27.2
77.5°	16.3	17.0	17.0	17.0	17.0	16.3	17.0	17.0
80°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
82.5°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
85°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
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)