

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: P684294

Luminaire Tested: **LX6C45D010 EX6C459030 6LBLWWH**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P684294
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-10)
Test Lab: INNOVATION CENTER
Issue Date: 2/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX6C45D010 EX6C459030 6LBLWWH
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 6LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

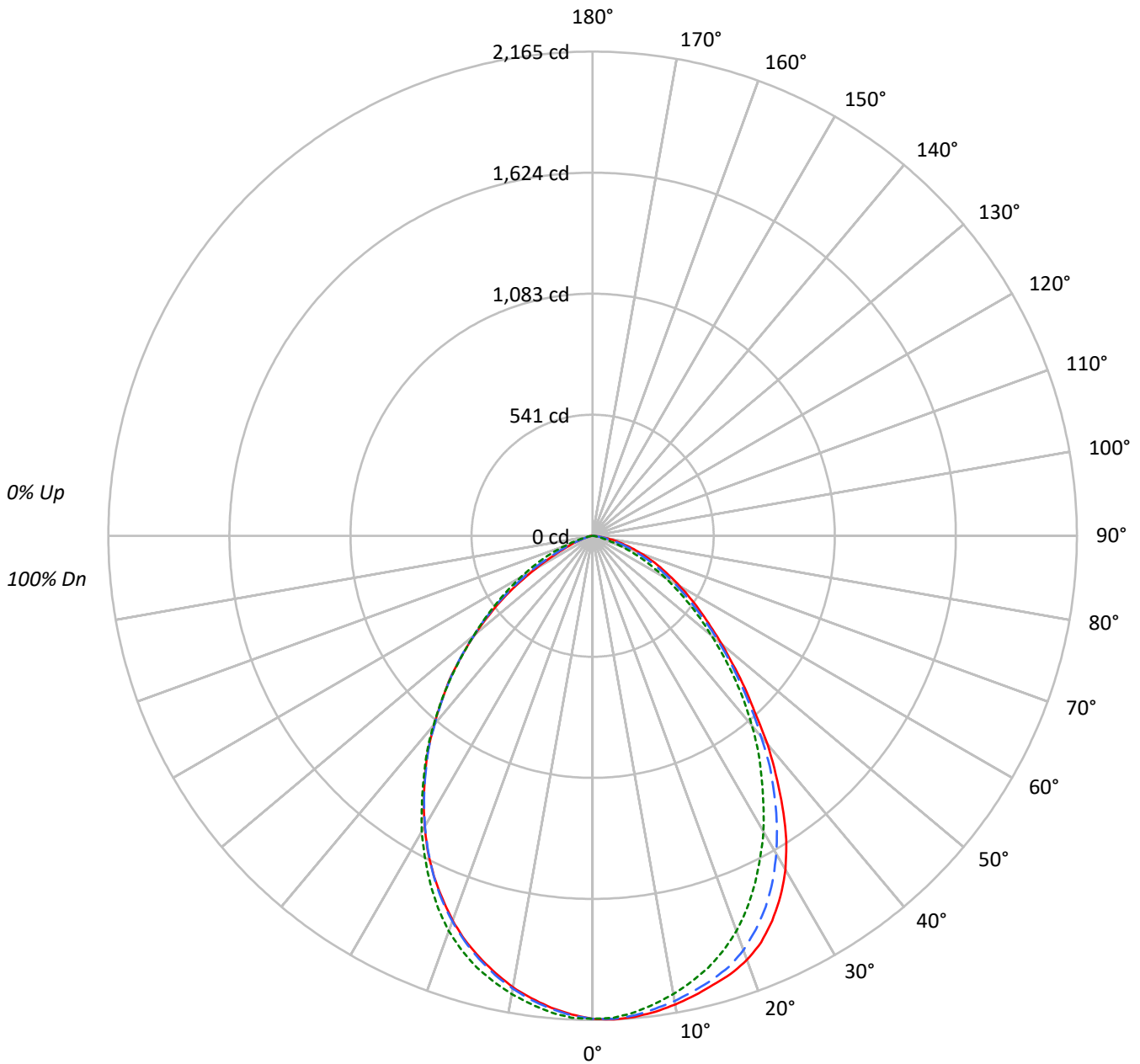
Lumens per Lamp: N/A
Luminaire Lumens: 3929.0 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
Input Voltage (V):
Input Current (A_{in}): 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°	118412	118412	118412
5°	118825	117747	116586
10°	118463	115835	114137
15°	118014	113440	110807
20°	117750	109705	106783
25°	114890	103821	101534
30°	109156	96698	95091
35°	99073	88044	87462
40°	86927	79234	78819
45°	74527	69232	69798
50°	64151	59009	58702
55°	56074	49824	46775
60°	49272	40841	31916
65°	43130	31651	19211
70°	36769	21302	11284
75°	29674	11078	6142
80°	20615	4357	3441
85°	8240	1384	1824



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.4	5.2
10°-20°	565.2	14.4
20°-30°	804.3	20.5
30°-40°	846.5	21.5
40°-50°	705.4	18.0
50°-60°	476.6	12.1
60°-70°	241.6	6.2
70°-80°	78.0	2.0
80°-90°	9.0	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°	1571.8	40.0
0°-40°	2418.3	61.6
0°-60°	3600.4	91.6
0°-90°	3929.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3929.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2160	2160	2160	2160	2160	
5°	2159	2153	2140	2124	2119	205
15°	2079	2057	1999	1959	1952	588
25°	1899	1830	1716	1681	1679	870
35°	1480	1416	1316	1302	1307	921
45°	961	937	893	897	900	744
55°	587	558	521	505	489	528
65°	332	300	244	176	148	331
75°	140	110	52	28	29	151
85°	13	7	2	3	3	22
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°	2160.0	2160.0	2160.0	2160.0	2160.0	2160.0	2160.0	2160.0	2160.0	2160.0	2160.0
2.5°	2165.1	2165.1	2165.1	2165.1	2165.1	2165.1	2164.4	2164.4	2162.9	2162.9	2162.2
5°	2159.3	2160.0	2160.0	2159.3	2159.3	2157.8	2157.8	2157.1	2154.9	2153.5	2152.8
7.5°	2146.9	2146.9	2146.2	2145.5	2144.8	2142.6	2141.9	2139.7	2138.2	2136.8	2133.9
10°	2128.1	2128.1	2127.3	2125.9	2125.2	2123.7	2123.7	2120.8	2117.9	2114.3	2112.1
12.5°	2105.6	2106.3	2104.8	2104.1	2101.9	2101.2	2099.8	2096.1	2093.9	2089.6	2086.0
15°	2079.4	2080.9	2080.9	2078.0	2075.8	2075.1	2072.9	2070.7	2065.6	2061.3	2056.9
17.5°	2054.0	2055.5	2054.0	2051.8	2049.7	2046.8	2045.3	2040.9	2034.4	2028.6	2022.1
20°	2018.4	2020.6	2017.7	2014.1	2009.7	2009.0	2006.8	1999.6	1990.1	1981.4	1972.0
22.5°	1968.3	1966.9	1964.7	1963.3	1956.0	1951.6	1948.7	1939.3	1929.1	1917.5	1905.9
25°	1899.4	1902.3	1897.9	1891.4	1887.7	1883.4	1876.1	1866.0	1856.5	1844.2	1830.4
27.5°	1818.0	1818.0	1812.2	1810.1	1802.1	1796.3	1792.6	1782.5	1770.1	1757.8	1742.5
30°	1724.4	1720.0	1720.0	1709.9	1703.3	1701.1	1697.5	1680.8	1669.9	1656.9	1641.6
32.5°	1611.1	1610.4	1607.5	1601.0	1592.2	1585.0	1585.0	1573.4	1558.8	1542.9	1533.4
35°	1480.4	1481.2	1479.7	1472.4	1472.4	1463.7	1462.3	1452.1	1440.5	1428.2	1416.5
37.5°	1345.4	1348.3	1345.4	1341.8	1339.6	1338.8	1332.3	1325.1	1316.3	1309.1	1300.4
40°	1214.7	1210.3	1211.8	1204.5	1205.3	1203.8	1200.9	1191.5	1186.4	1179.1	1169.7
42.5°	1073.8	1078.2	1079.6	1075.3	1073.8	1070.9	1073.8	1070.2	1064.4	1060.8	1052.1
45°	961.3	956.9	959.1	957.7	958.4	952.6	950.4	949.0	946.8	940.2	936.6
47.5°	849.5	850.2	849.5	846.6	845.1	845.1	842.2	837.9	837.9	833.5	830.6
50°	752.2	752.2	753.6	750.0	748.6	745.7	746.4	742.0	739.1	735.5	733.3
52.5°	662.9	663.6	660.7	661.4	660.0	660.0	657.1	654.2	651.3	644.7	643.3
55°	586.7	587.4	583.7	585.2	580.8	578.7	577.2	572.9	572.9	566.3	558.3
57.5°	515.5	514.8	514.0	511.9	509.0	506.8	504.6	499.5	497.3	493.0	486.5
60°	449.4	448.7	447.3	446.5	444.3	439.3	439.3	435.6	428.4	424.0	417.5
62.5°	387.0	387.0	386.3	384.1	381.9	379.7	378.3	375.4	368.1	363.0	357.2
65°	332.5	331.8	329.6	326.0	324.5	324.5	319.5	317.3	311.5	306.4	299.9
67.5°	280.3	277.4	275.9	276.6	272.3	272.3	267.9	264.3	259.2	250.5	245.4
70°	229.4	228.0	226.5	225.1	224.4	221.4	219.3	214.9	209.8	203.3	195.3
72.5°	183.7	183.7	181.5	180.1	177.9	175.0	173.5	169.9	164.1	156.8	151.0
75°	140.1	140.1	140.1	137.2	135.8	134.3	130.0	127.8	121.3	116.9	109.6
77.5°	103.1	101.6	99.5	98.7	97.3	95.8	93.7	90.0	84.2	79.1	74.8
80°	65.3	67.5	65.3	65.3	61.7	60.3	59.5	55.2	53.0	48.6	45.0
82.5°	36.3	37.0	35.6	34.9	32.7	31.9	31.9	29.0	27.6	24.7	22.5
85°	13.1	13.8	13.1	13.1	11.6	12.3	11.6	10.9	9.4	8.0	7.3
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
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°	2160.0	2160.0	2160.0	2160.0	2160.0	2160.0	2160.0	2160.0	2160.0	2160.0	2160.0
2.5°	2162.2	2160.7	2160.7	2160.0	2159.3	2159.3	2159.3	2158.6	2157.1	2157.1	2156.4
5°	2151.3	2149.9	2147.7	2146.2	2145.5	2144.8	2144.0	2143.3	2140.4	2139.7	2137.5
7.5°	2131.7	2130.2	2126.6	2125.2	2123.0	2122.3	2119.4	2117.9	2115.0	2112.1	2110.6
10°	2108.5	2104.8	2101.9	2098.3	2096.8	2094.7	2091.0	2086.7	2084.5	2080.9	2078.0
12.5°	2082.3	2078.0	2072.2	2067.8	2066.4	2062.7	2056.9	2053.3	2048.2	2042.4	2037.3
15°	2049.7	2044.6	2039.5	2031.5	2029.3	2025.0	2019.2	2011.9	2004.6	1998.8	1993.0
17.5°	2014.1	2006.1	1998.1	1989.4	1982.9	1980.7	1971.2	1961.1	1954.5	1944.4	1937.8
20°	1964.0	1953.1	1940.0	1931.3	1925.5	1919.0	1908.1	1897.2	1889.2	1880.5	1871.0
22.5°	1895.0	1884.8	1869.6	1856.5	1852.2	1842.7	1833.3	1823.1	1813.0	1803.5	1791.9
25°	1813.7	1802.8	1787.5	1774.5	1767.2	1762.9	1744.7	1734.5	1724.4	1716.4	1708.4
27.5°	1730.2	1710.6	1700.4	1680.1	1673.6	1672.1	1655.4	1644.5	1633.6	1622.7	1612.6
30°	1627.1	1611.8	1596.6	1582.1	1573.4	1568.3	1555.9	1542.1	1534.9	1527.6	1517.5
32.5°	1520.4	1506.6	1487.7	1473.9	1467.4	1460.1	1449.2	1439.8	1428.9	1420.9	1418.7
35°	1406.4	1391.1	1375.1	1365.0	1363.5	1354.8	1343.9	1335.9	1328.0	1315.6	1313.4
37.5°	1284.4	1275.7	1264.8	1250.3	1243.7	1243.7	1232.8	1227.0	1216.9	1216.1	1210.3
40°	1164.6	1161.0	1144.3	1139.9	1138.5	1128.3	1125.4	1115.2	1108.0	1107.2	1098.5
42.5°	1046.2	1036.8	1033.9	1026.6	1020.1	1018.7	1012.1	1007.8	1004.9	1000.5	996.1
45°	928.6	926.4	919.2	914.1	911.9	909.0	906.8	898.1	896.7	893.0	890.9
47.5°	827.0	821.2	814.6	808.8	808.1	803.7	798.7	798.7	790.7	789.9	788.5
50°	726.1	721.7	718.1	710.1	711.5	705.7	705.0	698.5	694.8	691.9	695.6
52.5°	637.5	628.8	627.3	620.8	618.6	619.3	611.3	609.2	607.7	604.8	603.4
55°	553.3	548.9	543.1	538.7	535.1	531.5	528.6	528.6	520.6	521.3	517.7
57.5°	479.2	475.6	468.3	461.8	460.3	456.0	452.3	448.7	448.0	442.9	439.3
60°	413.1	406.6	397.2	394.2	389.9	386.3	382.6	378.3	376.1	372.5	365.9
62.5°	351.4	340.5	336.9	331.1	326.0	323.8	318.0	312.9	309.3	304.2	299.1
65°	292.6	284.6	278.1	271.5	270.8	265.0	259.9	255.6	248.3	244.0	234.5
67.5°	238.9	231.6	224.4	217.8	212.7	211.3	203.3	198.2	193.1	184.4	176.4
70°	189.5	182.2	176.4	168.4	166.3	160.5	154.6	149.6	140.9	132.9	126.3
72.5°	144.5	136.5	130.0	124.2	120.5	115.4	109.6	103.8	95.1	87.1	81.3
75°	103.1	97.3	90.8	84.9	82.0	79.1	72.6	66.1	60.3	52.3	47.2
77.5°	69.7	63.9	58.1	53.0	49.4	47.2	42.8	37.8	32.7	28.3	24.7
80°	40.7	37.0	32.7	28.3	27.6	25.4	21.8	18.9	16.0	13.8	10.9
82.5°	19.6	17.4	14.5	12.3	10.9	10.2	8.7	7.3	5.8	5.1	5.1
85°	5.8	5.1	4.4	3.6	2.9	2.9	2.2	2.2	2.2	2.2	2.2
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
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°	2160.0	2160.0	2160.0	2160.0	2160.0	2160.0	2160.0	2160.0	2160.0	2160.0	2160.0
2.5°	2154.2	2153.5	2152.8	2152.0	2150.6	2150.6	2148.4	2146.9	2146.9	2145.5	2144.8
5°	2135.3	2133.2	2132.4	2131.0	2129.5	2128.8	2125.9	2125.2	2123.7	2122.3	2122.3
7.5°	2108.5	2105.6	2102.7	2101.2	2100.5	2098.3	2096.8	2096.1	2093.9	2092.5	2089.6
10°	2072.9	2070.7	2067.1	2065.6	2064.2	2062.7	2059.1	2056.9	2056.2	2054.7	2053.3
12.5°	2031.5	2028.6	2025.0	2022.1	2020.6	2018.4	2014.8	2012.6	2012.6	2009.7	2009.7
15°	1987.2	1982.9	1976.3	1973.4	1972.7	1968.3	1965.4	1962.5	1958.9	1957.4	1957.4
17.5°	1930.6	1923.3	1917.5	1917.5	1914.6	1910.3	1905.9	1903.7	1901.5	1898.6	1897.2
20°	1863.8	1858.7	1852.2	1852.2	1845.6	1844.2	1839.8	1839.1	1834.0	1834.7	1832.6
22.5°	1783.2	1780.3	1776.7	1773.8	1770.1	1765.8	1763.6	1764.3	1762.1	1761.4	1760.7
25°	1701.9	1693.9	1689.5	1688.1	1686.6	1683.0	1681.5	1680.8	1680.8	1678.6	1679.4
27.5°	1608.2	1602.4	1596.6	1598.8	1595.9	1593.7	1592.2	1590.1	1591.5	1590.8	1591.5
30°	1512.4	1505.1	1501.5	1502.9	1502.2	1496.4	1499.3	1498.6	1499.3	1499.3	1500.8
32.5°	1411.5	1406.4	1405.6	1406.4	1399.8	1400.6	1397.7	1402.0	1402.7	1407.1	1403.5
35°	1309.1	1306.2	1301.1	1300.4	1301.1	1300.4	1300.4	1303.3	1302.5	1306.9	1305.4
37.5°	1203.8	1202.3	1197.3	1198.7	1195.8	1200.9	1202.3	1200.9	1206.0	1204.5	1203.8
40°	1100.7	1098.5	1095.6	1101.4	1097.8	1094.9	1100.0	1095.6	1097.1	1101.4	1101.4
42.5°	996.1	992.5	992.5	992.5	991.8	991.8	994.0	996.1	994.7	995.4	1001.2
45°	890.9	890.1	888.0	889.4	888.7	892.3	892.3	893.8	896.7	899.6	898.1
47.5°	789.2	787.8	789.9	788.5	789.2	787.0	788.5	792.9	796.5	791.4	796.5
50°	694.1	691.2	690.5	692.7	691.9	691.2	692.7	692.7	691.2	691.2	696.3
52.5°	603.4	600.4	598.3	601.9	599.7	600.4	597.5	597.5	599.0	597.5	595.4
55°	518.4	516.2	513.3	514.8	511.1	510.4	507.5	507.5	505.3	503.9	499.5
57.5°	437.1	435.6	429.1	428.4	429.1	424.0	418.9	416.8	410.9	409.5	408.8
60°	365.2	357.2	353.6	349.2	346.3	344.2	338.3	334.7	326.0	320.9	320.2
62.5°	290.4	286.8	282.4	275.9	274.4	267.2	261.4	251.9	247.6	241.1	234.5
65°	230.2	220.7	214.2	210.6	204.7	198.2	191.7	181.5	176.4	168.4	161.9
67.5°	168.4	160.5	151.7	148.8	143.8	135.8	129.2	120.5	116.2	108.9	106.7
70°	115.4	108.2	101.6	97.3	93.7	85.7	79.1	76.2	71.9	70.4	70.4
72.5°	74.1	67.5	60.3	58.1	55.2	50.8	46.5	45.0	46.5	45.7	45.7
75°	41.4	37.8	32.7	30.5	30.5	29.0	28.3	28.3	28.3	28.3	28.3
77.5°	21.1	18.9	17.4	16.7	16.7	16.7	17.4	17.4	17.4	18.2	17.4
80°	10.2	9.4	9.4	9.4	10.2	10.2	10.2	10.2	10.2	10.9	10.2
82.5°	5.1	5.1	5.1	5.1	5.1	5.1	5.8	5.8	5.8	5.8	5.8
85°	2.2	2.2	2.2	2.2	2.9	2.9	2.9	2.9	2.9	2.9	2.9
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
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: P684294

CATALOG NUMBER: LX6C45D010 EX6C459030 6LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2160.0	2160.0	2160.0	2160.0	2160.0	2160.0	2160.0	2160.0
2.5°	2144.0	2142.6	2142.6	2141.9	2141.9	2141.9	2141.9	2142.6
5°	2120.8	2120.1	2120.1	2118.6	2118.6	2118.6	2118.6	2118.6
7.5°	2089.6	2088.1	2088.9	2087.4	2087.4	2088.1	2087.4	2086.7
10°	2051.1	2050.4	2051.1	2051.1	2049.7	2048.9	2049.7	2050.4
12.5°	2007.5	2006.8	2005.4	2006.1	2006.1	2005.4	2004.6	2003.2
15°	1956.7	1956.0	1955.3	1954.5	1953.8	1954.5	1953.8	1952.4
17.5°	1897.2	1897.2	1896.5	1895.7	1895.0	1893.6	1894.3	1896.5
20°	1833.3	1832.6	1831.1	1831.8	1828.9	1827.5	1828.2	1830.4
22.5°	1760.0	1757.8	1759.2	1757.1	1757.1	1757.8	1757.1	1755.6
25°	1680.1	1677.2	1678.6	1679.4	1679.4	1678.6	1677.9	1678.6
27.5°	1591.5	1593.7	1593.7	1592.2	1594.4	1591.5	1593.0	1593.7
30°	1500.8	1498.6	1497.9	1500.8	1505.1	1501.5	1501.5	1502.2
32.5°	1407.1	1404.2	1404.2	1405.6	1404.9	1404.9	1407.8	1404.2
35°	1306.9	1308.4	1302.5	1306.2	1307.6	1306.2	1306.9	1306.9
37.5°	1206.0	1204.5	1204.5	1204.5	1206.7	1206.7	1208.2	1207.4
40°	1106.5	1103.6	1102.9	1104.3	1101.4	1103.6	1103.6	1101.4
42.5°	999.1	999.8	1003.4	999.8	1000.5	999.8	998.3	997.6
45°	899.6	901.8	900.3	899.6	900.3	897.4	898.1	900.3
47.5°	794.3	798.7	794.3	797.2	796.5	795.0	793.6	790.7
50°	695.6	697.0	696.3	695.6	694.8	694.1	690.5	688.3
52.5°	594.6	594.6	594.6	594.6	587.4	591.0	589.6	585.2
55°	495.9	498.1	495.2	495.2	490.1	490.1	488.6	489.4
57.5°	400.8	398.6	396.4	396.4	391.3	389.2	387.0	384.1
60°	312.2	310.0	307.1	303.5	298.4	298.4	297.0	291.1
62.5°	228.7	225.1	222.9	220.0	215.6	212.7	210.6	212.0
65°	156.8	153.2	150.3	150.3	150.3	148.8	148.1	148.1
67.5°	103.1	105.3	103.8	105.3	105.3	103.8	103.1	104.6
70°	71.2	71.2	70.4	70.4	70.4	70.4	69.7	70.4
72.5°	45.7	45.7	45.7	46.5	45.7	45.7	46.5	46.5
75°	29.0	29.0	29.0	29.8	29.0	29.0	29.8	29.0
77.5°	17.4	18.2	18.2	18.2	18.2	17.4	18.2	18.2
80°	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9
82.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
85°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
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)