

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: P684315

Luminaire Tested: **LX6C45D010 EX6C459050 6LBLWWH**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P684315
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 EX6C459050 6LBLWWH
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

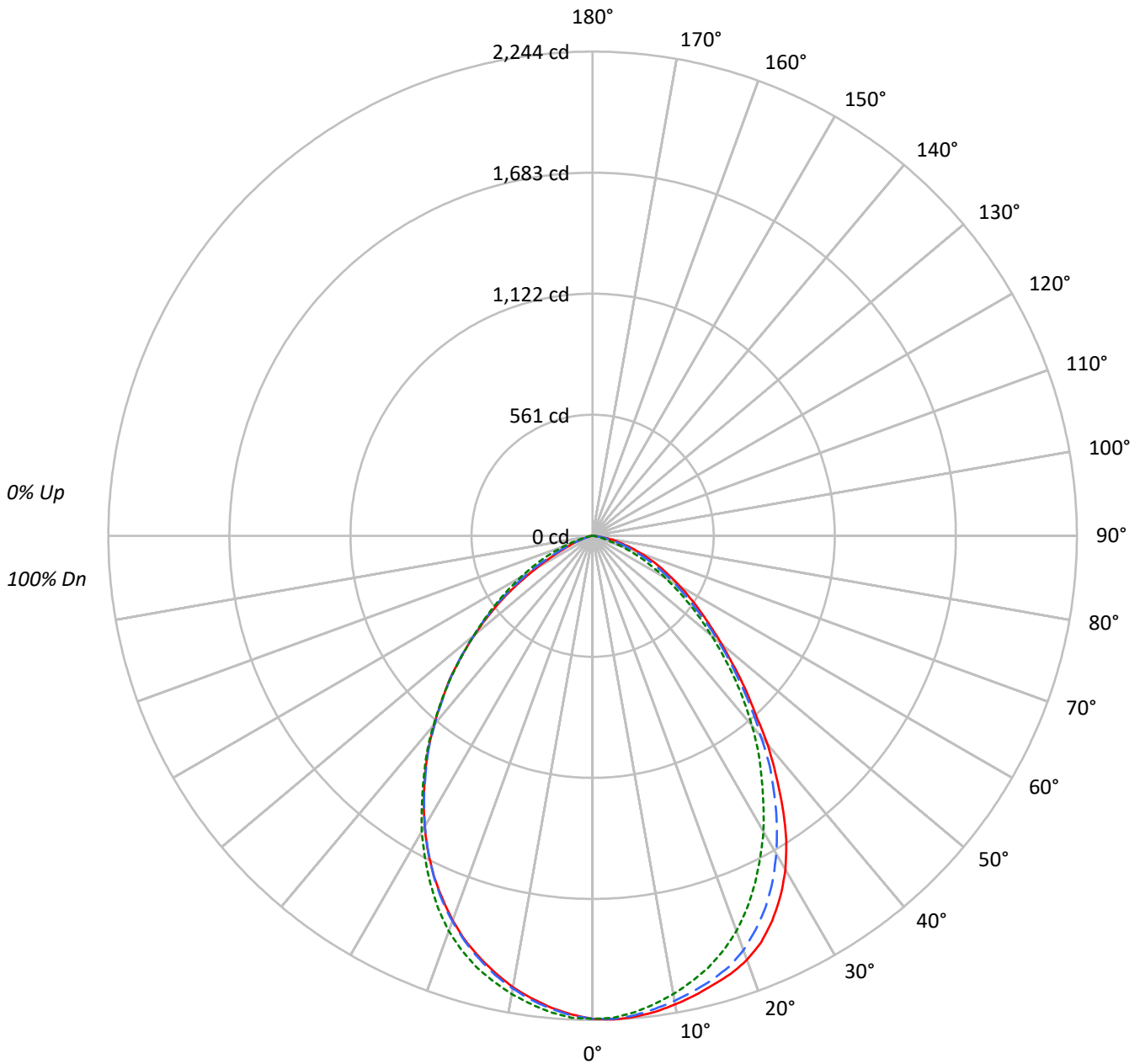
Lumens per Lamp: N/A
Luminaire Lumens: 4072.0 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	122720	122720	122720
5°	123151	122034	120828
10°	122771	120049	118290
15°	122311	117572	114836
20°	122038	113696	110668
25°	119069	107601	105230
30°	113125	100218	98553
35°	102680	91250	90647
40°	90090	82118	81689
45°	77241	71759	72341
50°	66488	61158	60842
55°	58110	51640	48476
60°	51070	42321	33078
65°	44700	32792	19911
70°	38115	22071	11701
75°	30755	11480	6375
80°	21373	4514	3567
85°	8491	1447	1887



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.8	5.2
10°-20°	585.7	14.4
20°-30°	833.5	20.5
30°-40°	877.3	21.5
40°-50°	731.1	18.0
50°-60°	494.0	12.1
60°-70°	250.4	6.2
70°-80°	80.8	2.0
80°-90°	9.3	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°	1629.0	40.0
0°-40°	2506.4	61.6
0°-60°	3731.4	91.6
0°-90°	4072.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4072.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2239	2239	2239	2239	2239	
5°	2238	2231	2218	2201	2196	213
15°	2155	2132	2072	2030	2023	609
25°	1968	1897	1779	1742	1740	902
35°	1534	1468	1364	1350	1354	955
45°	996	971	926	929	933	771
55°	608	579	540	524	507	547
65°	345	311	253	183	154	343
75°	145	114	54	29	30	157
85°	14	8	2	3	3	23
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°	2238.6	2238.6	2238.6	2238.6	2238.6	2238.6	2238.6	2238.6	2238.6	2238.6	2238.6
2.5°	2243.9	2243.9	2243.9	2243.9	2243.9	2243.9	2243.1	2243.1	2241.6	2241.6	2240.9
5°	2237.9	2238.6	2238.6	2237.9	2237.9	2236.4	2236.4	2235.6	2233.4	2231.9	2231.1
7.5°	2225.1	2225.1	2224.3	2223.6	2222.8	2220.6	2219.8	2217.6	2216.1	2214.6	2211.5
10°	2205.5	2205.5	2204.8	2203.3	2202.5	2201.0	2201.0	2198.0	2195.0	2191.2	2189.0
12.5°	2182.2	2182.9	2181.4	2180.7	2178.4	2177.7	2176.2	2172.4	2170.2	2165.6	2161.9
15°	2155.1	2156.6	2156.6	2153.6	2151.3	2150.6	2148.3	2146.1	2140.8	2136.3	2131.8
17.5°	2128.8	2130.3	2128.8	2126.5	2124.3	2121.2	2119.7	2115.2	2108.5	2102.4	2095.7
20°	2091.9	2094.2	2091.1	2087.4	2082.9	2082.1	2079.9	2072.3	2062.6	2053.5	2043.7
22.5°	2040.0	2038.5	2036.2	2034.7	2027.2	2022.7	2019.7	2009.9	1999.3	1987.3	1975.3
25°	1968.5	1971.5	1967.0	1960.2	1956.5	1951.9	1944.4	1933.9	1924.1	1911.3	1897.0
27.5°	1884.2	1884.2	1878.2	1875.9	1867.7	1861.6	1857.9	1847.3	1834.5	1821.8	1806.0
30°	1787.1	1782.6	1782.6	1772.1	1765.3	1763.1	1759.3	1742.0	1730.7	1717.2	1701.4
32.5°	1669.8	1669.0	1666.0	1659.2	1650.2	1642.7	1642.7	1630.6	1615.6	1599.0	1589.2
35°	1534.3	1535.1	1533.6	1526.0	1526.0	1517.0	1515.5	1505.0	1492.9	1480.1	1468.1
37.5°	1394.3	1397.4	1394.3	1390.6	1388.3	1387.6	1380.8	1373.3	1364.2	1356.7	1347.7
40°	1258.9	1254.4	1255.9	1248.4	1249.1	1247.6	1244.6	1234.8	1229.6	1222.0	1212.2
42.5°	1112.9	1117.4	1118.9	1114.4	1112.9	1109.9	1112.9	1109.2	1103.1	1099.4	1090.3
45°	996.3	991.8	994.0	992.5	993.3	987.3	985.0	983.5	981.2	974.5	970.7
47.5°	880.4	881.2	880.4	877.4	875.9	875.9	872.9	868.4	868.4	863.8	860.8
50°	779.6	779.6	781.1	777.3	775.8	772.8	773.6	769.0	766.0	762.3	760.0
52.5°	687.0	687.8	684.8	685.5	684.0	684.0	681.0	678.0	675.0	668.2	666.7
55°	608.0	608.8	605.0	606.5	602.0	599.7	598.2	593.7	593.7	586.9	578.7
57.5°	534.3	533.5	532.8	530.5	527.5	525.2	523.0	517.7	515.4	510.9	504.2
60°	465.8	465.0	463.5	462.8	460.5	455.3	455.3	451.5	444.0	439.4	432.7
62.5°	401.1	401.1	400.3	398.1	395.8	393.5	392.0	389.0	381.5	376.2	370.2
65°	344.6	343.9	341.6	337.9	336.4	336.4	331.1	328.8	322.8	317.5	310.8
67.5°	290.5	287.4	285.9	286.7	282.2	282.2	277.7	273.9	268.6	259.6	254.3
70°	237.8	236.3	234.8	233.3	232.5	229.5	227.2	222.7	217.5	210.7	202.4
72.5°	190.4	190.4	188.1	186.6	184.4	181.3	179.8	176.1	170.1	162.5	156.5
75°	145.2	145.2	145.2	142.2	140.7	139.2	134.7	132.4	125.7	121.1	113.6
77.5°	106.9	105.3	103.1	102.3	100.8	99.3	97.1	93.3	87.3	82.0	77.5
80°	67.7	70.0	67.7	67.7	64.0	62.5	61.7	57.2	54.9	50.4	46.7
82.5°	37.6	38.4	36.9	36.1	33.9	33.1	33.1	30.1	28.6	25.6	23.3
85°	13.5	14.3	13.5	13.5	12.0	12.8	12.0	11.3	9.8	8.3	7.5
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
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°	2238.6	2238.6	2238.6	2238.6	2238.6	2238.6	2238.6	2238.6	2238.6	2238.6	2238.6
2.5°	2240.9	2239.4	2239.4	2238.6	2237.9	2237.9	2237.9	2237.1	2235.6	2235.6	2234.9
5°	2229.6	2228.1	2225.8	2224.3	2223.6	2222.8	2222.1	2221.3	2218.3	2217.6	2215.3
7.5°	2209.3	2207.8	2204.0	2202.5	2200.3	2199.5	2196.5	2195.0	2192.0	2189.0	2187.5
10°	2185.2	2181.4	2178.4	2174.7	2173.2	2170.9	2167.1	2162.6	2160.4	2156.6	2153.6
12.5°	2158.1	2153.6	2147.6	2143.1	2141.6	2137.8	2131.8	2128.0	2122.8	2116.7	2111.5
15°	2124.3	2119.0	2113.7	2105.4	2103.2	2098.7	2092.7	2085.1	2077.6	2071.6	2065.6
17.5°	2087.4	2079.1	2070.8	2061.8	2055.0	2052.8	2043.0	2032.5	2025.7	2015.1	2008.4
20°	2035.5	2024.2	2010.6	2001.6	1995.6	1988.8	1977.5	1966.2	1958.0	1948.9	1939.1
22.5°	1964.0	1953.4	1937.6	1924.1	1919.6	1909.8	1900.0	1889.5	1878.9	1869.2	1857.1
25°	1879.7	1868.4	1852.6	1839.1	1831.5	1827.0	1808.2	1797.7	1787.1	1778.9	1770.6
27.5°	1793.2	1772.8	1762.3	1741.2	1734.5	1733.0	1715.7	1704.4	1693.1	1681.8	1671.3
30°	1686.3	1670.5	1654.7	1639.7	1630.6	1625.4	1612.6	1598.3	1590.7	1583.2	1572.7
32.5°	1575.7	1561.4	1541.8	1527.5	1520.8	1513.2	1502.0	1492.2	1480.9	1472.6	1470.3
35°	1457.6	1441.8	1425.2	1414.7	1413.2	1404.1	1392.8	1384.6	1376.3	1363.5	1361.2
37.5°	1331.1	1322.1	1310.8	1295.8	1289.0	1289.0	1277.7	1271.7	1261.2	1260.4	1254.4
40°	1207.0	1203.2	1185.9	1181.4	1179.9	1169.4	1166.3	1155.8	1148.3	1147.5	1138.5
42.5°	1084.3	1074.5	1071.5	1064.0	1057.2	1055.7	1049.0	1044.4	1041.4	1036.9	1032.4
45°	962.4	960.2	952.6	947.4	945.1	942.1	939.8	930.8	929.3	925.6	923.3
47.5°	857.1	851.1	844.3	838.3	837.5	833.0	827.7	827.7	819.5	818.7	817.2
50°	752.5	748.0	744.2	735.9	737.4	731.4	730.7	723.9	720.1	717.1	720.9
52.5°	660.7	651.6	650.1	643.4	641.1	641.9	633.6	631.3	629.8	626.8	625.3
55°	573.4	568.9	562.9	558.3	554.6	550.8	547.8	547.8	539.5	540.3	536.5
57.5°	496.6	492.9	485.4	478.6	477.1	472.6	468.8	465.0	464.3	459.0	455.3
60°	428.2	421.4	411.6	408.6	404.1	400.3	396.6	392.0	389.8	386.0	379.3
62.5°	364.2	352.9	349.2	343.1	337.9	335.6	329.6	324.3	320.6	315.3	310.0
65°	303.3	295.0	288.2	281.4	280.7	274.7	269.4	264.9	257.3	252.8	243.1
67.5°	247.6	240.0	232.5	225.7	220.5	219.0	210.7	205.4	200.2	191.1	182.9
70°	196.4	188.9	182.9	174.6	172.3	166.3	160.3	155.0	146.0	137.7	130.9
72.5°	149.7	141.5	134.7	128.7	124.9	119.6	113.6	107.6	98.6	90.3	84.3
75°	106.9	100.8	94.1	88.0	85.0	82.0	75.2	68.5	62.5	54.2	48.9
77.5°	72.2	66.2	60.2	54.9	51.2	48.9	44.4	39.1	33.9	29.3	25.6
80°	42.1	38.4	33.9	29.3	28.6	26.3	22.6	19.6	16.6	14.3	11.3
82.5°	20.3	18.1	15.0	12.8	11.3	10.5	9.0	7.5	6.0	5.3	5.3
85°	6.0	5.3	4.5	3.8	3.0	3.0	2.3	2.3	2.3	2.3	2.3
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
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°	2238.6	2238.6	2238.6	2238.6	2238.6	2238.6	2238.6	2238.6	2238.6	2238.6	2238.6
2.5°	2232.6	2231.9	2231.1	2230.4	2228.9	2228.9	2226.6	2225.1	2225.1	2223.6	2222.8
5°	2213.0	2210.8	2210.0	2208.5	2207.0	2206.3	2203.3	2202.5	2201.0	2199.5	2199.5
7.5°	2185.2	2182.2	2179.2	2177.7	2176.9	2174.7	2173.2	2172.4	2170.2	2168.7	2165.6
10°	2148.3	2146.1	2142.3	2140.8	2139.3	2137.8	2134.0	2131.8	2131.0	2129.5	2128.0
12.5°	2105.4	2102.4	2098.7	2095.7	2094.2	2091.9	2088.1	2085.9	2085.9	2082.9	2082.9
15°	2059.5	2055.0	2048.3	2045.2	2044.5	2040.0	2037.0	2034.0	2030.2	2028.7	2028.7
17.5°	2000.8	1993.3	1987.3	1987.3	1984.3	1979.8	1975.3	1973.0	1970.7	1967.7	1966.2
20°	1931.6	1926.4	1919.6	1919.6	1912.8	1911.3	1906.8	1906.0	1900.8	1901.5	1899.3
22.5°	1848.1	1845.1	1841.3	1838.3	1834.5	1830.0	1827.8	1828.5	1826.3	1825.5	1824.8
25°	1763.8	1755.5	1751.0	1749.5	1748.0	1744.3	1742.7	1742.0	1742.0	1739.7	1740.5
27.5°	1666.7	1660.7	1654.7	1657.0	1654.0	1651.7	1650.2	1647.9	1649.4	1648.7	1649.4
30°	1567.4	1559.9	1556.1	1557.6	1556.9	1550.9	1553.9	1553.1	1553.9	1553.9	1555.4
32.5°	1462.8	1457.6	1456.8	1457.6	1450.8	1451.5	1448.5	1453.0	1453.8	1458.3	1454.5
35°	1356.7	1353.7	1348.4	1347.7	1348.4	1347.7	1347.7	1350.7	1350.0	1354.5	1353.0
37.5°	1247.6	1246.1	1240.8	1242.3	1239.3	1244.6	1246.1	1244.6	1249.9	1248.4	1247.6
40°	1140.8	1138.5	1135.5	1141.5	1137.8	1134.7	1140.0	1135.5	1137.0	1141.5	1141.5
42.5°	1032.4	1028.6	1028.6	1028.6	1027.9	1027.9	1030.1	1032.4	1030.9	1031.7	1037.7
45°	923.3	922.5	920.3	921.8	921.0	924.8	924.8	926.3	929.3	932.3	930.8
47.5°	817.9	816.4	818.7	817.2	817.9	815.7	817.2	821.7	825.5	820.2	825.5
50°	719.4	716.4	715.6	717.9	717.1	716.4	717.9	717.9	716.4	716.4	721.6
52.5°	625.3	622.3	620.0	623.8	621.5	622.3	619.3	619.3	620.8	619.3	617.0
55°	537.3	535.0	532.0	533.5	529.7	529.0	526.0	526.0	523.7	522.2	517.7
57.5°	453.0	451.5	444.7	444.0	444.7	439.4	434.2	431.9	425.9	424.4	423.6
60°	378.5	370.2	366.5	361.9	358.9	356.7	350.7	346.9	337.9	332.6	331.8
62.5°	301.0	297.2	292.7	285.9	284.4	276.9	270.9	261.1	256.6	249.8	243.1
65°	238.5	228.8	222.0	218.2	212.2	205.4	198.7	188.1	182.9	174.6	167.8
67.5°	174.6	166.3	157.3	154.3	149.0	140.7	133.9	124.9	120.4	112.9	110.6
70°	119.6	112.1	105.3	100.8	97.1	88.8	82.0	79.0	74.5	73.0	73.0
72.5°	76.8	70.0	62.5	60.2	57.2	52.7	48.2	46.7	48.2	47.4	47.4
75°	42.9	39.1	33.9	31.6	31.6	30.1	29.3	29.3	29.3	29.3	29.3
77.5°	21.8	19.6	18.1	17.3	17.3	17.3	18.1	18.1	18.1	18.8	18.1
80°	10.5	9.8	9.8	9.8	10.5	10.5	10.5	10.5	10.5	11.3	10.5
82.5°	5.3	5.3	5.3	5.3	5.3	5.3	6.0	6.0	6.0	6.0	6.0
85°	2.3	2.3	2.3	2.3	3.0	3.0	3.0	3.0	3.0	3.0	3.0
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
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: P684315

CATALOG NUMBER: LX6C45D010 EX6C459050 6LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2238.6	2238.6	2238.6	2238.6	2238.6	2238.6	2238.6	2238.6
2.5°	2222.1	2220.6	2220.6	2219.8	2219.8	2219.8	2219.8	2220.6
5°	2198.0	2197.2	2197.2	2195.7	2195.7	2195.7	2195.7	2195.7
7.5°	2165.6	2164.1	2164.9	2163.4	2163.4	2164.1	2163.4	2162.6
10°	2125.8	2125.0	2125.8	2125.8	2124.3	2123.5	2124.3	2125.0
12.5°	2080.6	2079.9	2078.4	2079.1	2079.1	2078.4	2077.6	2076.1
15°	2027.9	2027.2	2026.4	2025.7	2024.9	2025.7	2024.9	2023.4
17.5°	1966.2	1966.2	1965.5	1964.7	1964.0	1962.5	1963.2	1965.5
20°	1900.0	1899.3	1897.8	1898.5	1895.5	1894.0	1894.7	1897.0
22.5°	1824.0	1821.8	1823.3	1821.0	1821.0	1821.8	1821.0	1819.5
25°	1741.2	1738.2	1739.7	1740.5	1740.5	1739.7	1739.0	1739.7
27.5°	1649.4	1651.7	1651.7	1650.2	1652.4	1649.4	1650.9	1651.7
30°	1555.4	1553.1	1552.4	1555.4	1559.9	1556.1	1556.1	1556.9
32.5°	1458.3	1455.3	1455.3	1456.8	1456.1	1456.1	1459.1	1455.3
35°	1354.5	1356.0	1350.0	1353.7	1355.2	1353.7	1354.5	1354.5
37.5°	1249.9	1248.4	1248.4	1248.4	1250.6	1250.6	1252.1	1251.4
40°	1146.8	1143.8	1143.0	1144.5	1141.5	1143.8	1143.8	1141.5
42.5°	1035.4	1036.2	1039.9	1036.2	1036.9	1036.2	1034.7	1033.9
45°	932.3	934.6	933.1	932.3	933.1	930.1	930.8	933.1
47.5°	823.2	827.7	823.2	826.2	825.5	824.0	822.5	819.5
50°	720.9	722.4	721.6	720.9	720.1	719.4	715.6	713.4
52.5°	616.3	616.3	616.3	616.3	608.8	612.5	611.0	606.5
55°	513.9	516.2	513.2	513.2	507.9	507.9	506.4	507.2
57.5°	415.4	413.1	410.9	410.9	405.6	403.3	401.1	398.1
60°	323.6	321.3	318.3	314.5	309.3	309.3	307.8	301.7
62.5°	237.0	233.3	231.0	228.0	223.5	220.5	218.2	219.7
65°	162.5	158.8	155.8	155.8	155.8	154.3	153.5	153.5
67.5°	106.9	109.1	107.6	109.1	109.1	107.6	106.9	108.4
70°	73.7	73.7	73.0	73.0	73.0	73.0	72.2	73.0
72.5°	47.4	47.4	47.4	48.2	47.4	47.4	48.2	48.2
75°	30.1	30.1	30.1	30.9	30.1	30.1	30.9	30.1
77.5°	18.1	18.8	18.8	18.8	18.8	18.1	18.8	18.8
80°	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3
82.5°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
85°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
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)