

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: P684308

Luminaire Tested: **LX6C45D010 EX6C459040 6LBLWWH**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P684308
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 EX6C459040 6LBLWWH
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

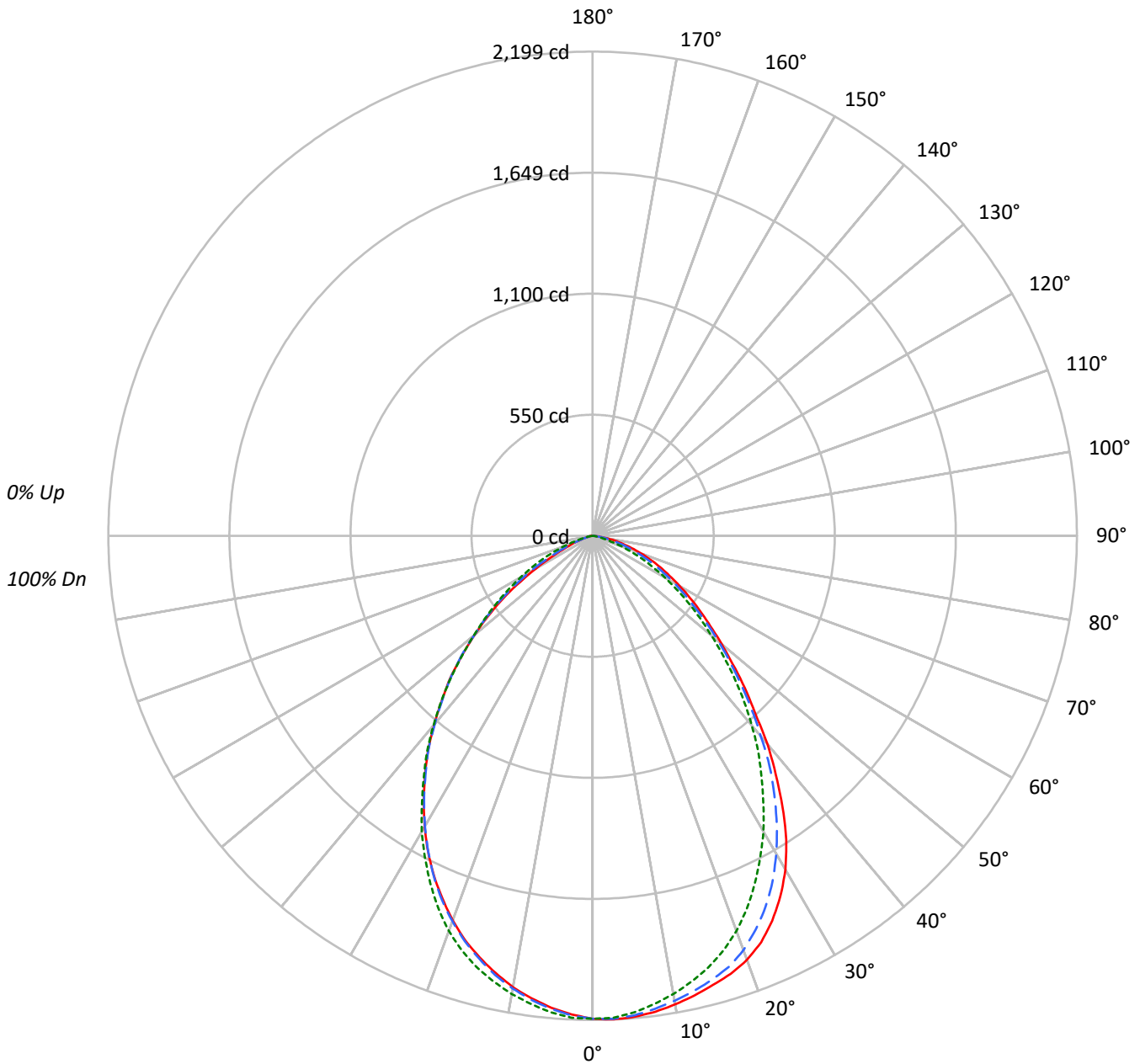
Lumens per Lamp: N/A
Luminaire Lumens: 3990.0 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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°	120254	120254	120254
5°	120669	119574	118396
10°	120299	117633	115907
15°	119847	115205	112526
20°	119582	111409	108439
25°	116674	105429	103113
30°	110852	98199	96565
35°	100612	89409	88820
40°	88280	80465	80043
45°	75682	70310	70883
50°	65149	59930	59614
55°	56944	50598	47501
60°	50040	41466	32421
65°	43805	32131	19509
70°	37346	21622	11460
75°	30140	11247	6248
80°	20962	4420	3504
85°	8366	1384	1824



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.5	5.2
10°-20°	574.0	14.4
20°-30°	816.7	20.5
30°-40°	859.6	21.5
40°-50°	716.4	18.0
50°-60°	484.0	12.1
60°-70°	245.4	6.2
70°-80°	79.2	2.0
80°-90°	9.1	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°	1596.2	40.0
0°-40°	2455.9	61.6
0°-60°	3656.3	91.6
0°-90°	3990.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3990.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2194	2194	2194	2194	2194	
5°	2193	2186	2173	2157	2152	208
15°	2112	2089	2030	1989	1983	597
25°	1929	1859	1743	1707	1705	884
35°	1503	1438	1336	1323	1327	936
45°	976	951	907	911	914	756
55°	596	567	529	513	497	536
65°	338	304	248	179	150	336
75°	142	111	53	29	30	154
85°	13	7	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°	2193.6	2193.6	2193.6	2193.6	2193.6	2193.6	2193.6	2193.6	2193.6	2193.6	2193.6
2.5°	2198.7	2198.7	2198.7	2198.7	2198.7	2198.7	2198.0	2198.0	2196.5	2196.5	2195.8
5°	2192.8	2193.6	2193.6	2192.8	2192.8	2191.3	2191.3	2190.6	2188.4	2186.9	2186.2
7.5°	2180.3	2180.3	2179.5	2178.8	2178.1	2175.9	2175.1	2172.9	2171.4	2170.0	2167.0
10°	2161.1	2161.1	2160.4	2158.9	2158.2	2156.7	2156.7	2153.7	2150.8	2147.1	2144.9
12.5°	2138.3	2139.0	2137.5	2136.8	2134.6	2133.8	2132.4	2128.7	2126.5	2122.0	2118.3
15°	2111.7	2113.2	2113.2	2110.2	2108.0	2107.3	2105.1	2102.9	2097.7	2093.3	2088.9
17.5°	2085.9	2087.4	2085.9	2083.7	2081.5	2078.5	2077.1	2072.6	2066.0	2060.1	2053.5
20°	2049.8	2052.0	2049.0	2045.3	2040.9	2040.2	2038.0	2030.6	2021.0	2012.2	2002.6
22.5°	1998.9	1997.4	1995.2	1993.7	1986.4	1981.9	1979.0	1969.4	1959.1	1947.3	1935.5
25°	1928.9	1931.8	1927.4	1920.7	1917.1	1912.6	1905.3	1894.9	1885.3	1872.8	1858.8
27.5°	1846.3	1846.3	1840.4	1838.2	1830.0	1824.2	1820.5	1810.1	1797.6	1785.1	1769.6
30°	1751.2	1746.7	1746.7	1736.4	1729.8	1727.6	1723.9	1706.9	1695.9	1682.6	1667.1
32.5°	1636.1	1635.4	1632.4	1625.8	1617.0	1609.6	1609.6	1597.8	1583.0	1566.8	1557.2
35°	1503.4	1504.1	1502.7	1495.3	1495.3	1486.5	1485.0	1474.7	1462.9	1450.3	1438.5
37.5°	1366.3	1369.2	1366.3	1362.6	1360.4	1359.6	1353.0	1345.6	1336.8	1329.4	1320.6
40°	1233.6	1229.1	1230.6	1223.2	1224.0	1222.5	1219.5	1210.0	1204.8	1197.4	1187.8
42.5°	1090.5	1094.9	1096.4	1092.0	1090.5	1087.6	1090.5	1086.8	1080.9	1077.2	1068.4
45°	976.2	971.8	974.0	972.5	973.3	967.4	965.2	963.7	961.5	954.8	951.2
47.5°	862.7	863.4	862.7	859.7	858.3	858.3	855.3	850.9	850.9	846.5	843.5
50°	763.9	763.9	765.3	761.7	760.2	757.2	758.0	753.5	750.6	746.9	744.7
52.5°	673.2	673.9	671.0	671.7	670.2	670.2	667.3	664.3	661.4	654.7	653.3
55°	595.8	596.5	592.8	594.3	589.9	587.7	586.2	581.8	581.8	575.1	567.0
57.5°	523.5	522.8	522.0	519.8	516.9	514.7	512.4	507.3	505.1	500.6	494.0
60°	456.4	455.7	454.2	453.5	451.2	446.1	446.1	442.4	435.0	430.6	424.0
62.5°	393.0	393.0	392.3	390.0	387.8	385.6	384.1	381.2	373.8	368.7	362.8
65°	337.7	337.0	334.7	331.1	329.6	329.6	324.4	322.2	316.3	311.2	304.5
67.5°	284.6	281.7	280.2	280.9	276.5	276.5	272.1	268.4	263.2	254.4	249.2
70°	233.0	231.5	230.0	228.6	227.8	224.9	222.7	218.2	213.1	206.5	198.3
72.5°	186.5	186.5	184.3	182.9	180.6	177.7	176.2	172.5	166.6	159.3	153.4
75°	142.3	142.3	142.3	139.4	137.9	136.4	132.0	129.8	123.1	118.7	111.3
77.5°	104.7	103.2	101.0	100.3	98.8	97.3	95.1	91.4	85.5	80.4	75.9
80°	66.4	68.6	66.4	66.4	62.7	61.2	60.5	56.0	53.8	49.4	45.7
82.5°	36.9	37.6	36.1	35.4	33.2	32.4	32.4	29.5	28.0	25.1	22.9
85°	13.3	14.0	13.3	13.3	11.8	12.5	11.8	11.1	9.6	8.1	7.4
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°	2193.6	2193.6	2193.6	2193.6	2193.6	2193.6	2193.6	2193.6	2193.6	2193.6	2193.6
2.5°	2195.8	2194.3	2194.3	2193.6	2192.8	2192.8	2192.8	2192.1	2190.6	2190.6	2189.9
5°	2184.7	2183.2	2181.0	2179.5	2178.8	2178.1	2177.3	2176.6	2173.6	2172.9	2170.7
7.5°	2164.8	2163.3	2159.6	2158.2	2155.9	2155.2	2152.3	2150.8	2147.8	2144.9	2143.4
10°	2141.2	2137.5	2134.6	2130.9	2129.4	2127.2	2123.5	2119.1	2116.9	2113.2	2110.2
12.5°	2114.7	2110.2	2104.3	2099.9	2098.4	2094.7	2088.9	2085.2	2080.0	2074.1	2068.9
15°	2081.5	2076.3	2071.2	2063.0	2060.8	2056.4	2050.5	2043.1	2035.8	2029.9	2024.0
17.5°	2045.3	2037.2	2029.1	2020.3	2013.6	2011.4	2001.8	1991.5	1984.9	1974.6	1967.9
20°	1994.5	1983.4	1970.1	1961.3	1955.4	1948.8	1937.7	1926.6	1918.5	1909.7	1900.1
22.5°	1924.4	1914.1	1898.6	1885.3	1880.9	1871.3	1861.8	1851.4	1841.1	1831.5	1819.7
25°	1841.8	1830.8	1815.3	1802.0	1794.7	1790.2	1771.8	1761.5	1751.2	1743.0	1734.9
27.5°	1757.1	1737.1	1726.8	1706.2	1699.5	1698.1	1681.1	1670.0	1659.0	1647.9	1637.6
30°	1652.4	1636.9	1621.4	1606.6	1597.8	1592.6	1580.1	1566.1	1558.7	1551.3	1541.0
32.5°	1544.0	1530.0	1510.8	1496.8	1490.1	1482.8	1471.7	1462.1	1451.1	1443.0	1440.7
35°	1428.2	1412.7	1396.5	1386.2	1384.7	1375.9	1364.8	1356.7	1348.6	1336.0	1333.8
37.5°	1304.3	1295.5	1284.4	1269.7	1263.0	1263.0	1252.0	1246.1	1235.8	1235.0	1229.1
40°	1182.7	1179.0	1162.0	1157.6	1156.1	1145.8	1142.9	1132.5	1125.2	1124.4	1115.6
42.5°	1062.5	1052.9	1050.0	1042.6	1035.9	1034.5	1027.8	1023.4	1020.5	1016.0	1011.6
45°	943.0	940.8	933.5	928.3	926.1	923.1	920.9	912.1	910.6	906.9	904.7
47.5°	839.8	833.9	827.3	821.4	820.6	816.2	811.1	811.1	803.0	802.2	800.7
50°	737.3	732.9	729.2	721.1	722.6	716.7	715.9	709.3	705.6	702.7	706.4
52.5°	647.4	638.5	637.1	630.4	628.2	628.9	620.8	618.6	617.1	614.2	612.7
55°	561.8	557.4	551.5	547.1	543.4	539.7	536.8	536.8	528.7	529.4	525.7
57.5°	486.6	483.0	475.6	468.9	467.5	463.0	459.4	455.7	454.9	449.8	446.1
60°	419.5	412.9	403.3	400.4	395.9	392.3	388.6	384.1	381.9	378.2	371.6
62.5°	356.9	345.8	342.1	336.2	331.1	328.8	322.9	317.8	314.1	308.9	303.8
65°	297.1	289.0	282.4	275.8	275.0	269.1	264.0	259.5	252.2	247.7	238.2
67.5°	242.6	235.2	227.8	221.2	216.0	214.6	206.5	201.3	196.1	187.3	179.2
70°	192.4	185.1	179.2	171.1	168.8	162.9	157.1	151.9	143.0	134.9	128.3
72.5°	146.7	138.6	132.0	126.1	122.4	117.2	111.3	105.4	96.6	88.5	82.6
75°	104.7	98.8	92.2	86.3	83.3	80.4	73.7	67.1	61.2	53.1	47.9
77.5°	70.8	64.9	59.0	53.8	50.1	47.9	43.5	38.3	33.2	28.8	25.1
80°	41.3	37.6	33.2	28.8	28.0	25.8	22.1	19.2	16.2	14.0	11.1
82.5°	19.9	17.7	14.7	12.5	11.1	10.3	8.8	7.4	5.9	5.2	5.2
85°	5.9	5.2	4.4	3.7	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°	2193.6	2193.6	2193.6	2193.6	2193.6	2193.6	2193.6	2193.6	2193.6	2193.6	2193.6
2.5°	2187.7	2186.9	2186.2	2185.4	2184.0	2184.0	2181.8	2180.3	2180.3	2178.8	2178.1
5°	2168.5	2166.3	2165.5	2164.1	2162.6	2161.8	2158.9	2158.2	2156.7	2155.2	2155.2
7.5°	2141.2	2138.3	2135.3	2133.8	2133.1	2130.9	2129.4	2128.7	2126.5	2125.0	2122.0
10°	2105.1	2102.9	2099.2	2097.7	2096.2	2094.7	2091.1	2088.9	2088.1	2086.6	2085.2
12.5°	2063.0	2060.1	2056.4	2053.5	2052.0	2049.8	2046.1	2043.9	2043.9	2040.9	2040.9
15°	2018.1	2013.6	2007.0	2004.1	2003.3	1998.9	1995.9	1993.0	1989.3	1987.8	1987.8
17.5°	1960.6	1953.2	1947.3	1947.3	1944.3	1939.9	1935.5	1933.3	1931.1	1928.1	1926.6
20°	1892.7	1887.6	1880.9	1880.9	1874.3	1872.8	1868.4	1867.7	1862.5	1863.2	1861.0
22.5°	1810.9	1807.9	1804.2	1801.3	1797.6	1793.2	1791.0	1791.7	1789.5	1788.8	1788.0
25°	1728.3	1720.2	1715.8	1714.3	1712.8	1709.1	1707.7	1706.9	1706.9	1704.7	1705.4
27.5°	1633.2	1627.3	1621.4	1623.6	1620.6	1618.4	1617.0	1614.7	1616.2	1615.5	1616.2
30°	1535.9	1528.5	1524.8	1526.3	1525.5	1519.6	1522.6	1521.8	1522.6	1522.6	1524.1
32.5°	1433.4	1428.2	1427.5	1428.2	1421.6	1422.3	1419.4	1423.8	1424.5	1428.9	1425.3
35°	1329.4	1326.5	1321.3	1320.6	1321.3	1320.6	1320.6	1323.5	1322.8	1327.2	1325.7
37.5°	1222.5	1221.0	1215.9	1217.3	1214.4	1219.5	1221.0	1219.5	1224.7	1223.2	1222.5
40°	1117.8	1115.6	1112.6	1118.5	1114.8	1111.9	1117.1	1112.6	1114.1	1118.5	1118.5
42.5°	1011.6	1007.9	1007.9	1007.9	1007.2	1007.2	1009.4	1011.6	1010.1	1010.9	1016.8
45°	904.7	904.0	901.8	903.2	902.5	906.2	906.2	907.7	910.6	913.5	912.1
47.5°	801.5	800.0	802.2	800.7	801.5	799.3	800.7	805.2	808.8	803.7	808.8
50°	704.9	701.9	701.2	703.4	702.7	701.9	703.4	703.4	701.9	701.9	707.1
52.5°	612.7	609.8	607.6	611.2	609.0	609.8	606.8	606.8	608.3	606.8	604.6
55°	526.5	524.2	521.3	522.8	519.1	518.3	515.4	515.4	513.2	511.7	507.3
57.5°	443.9	442.4	435.8	435.0	435.8	430.6	425.4	423.2	417.3	415.9	415.1
60°	370.9	362.8	359.1	354.7	351.7	349.5	343.6	339.9	331.1	325.9	325.2
62.5°	294.9	291.2	286.8	280.2	278.7	271.3	265.4	255.9	251.4	244.8	238.2
65°	233.7	224.1	217.5	213.8	207.9	201.3	194.7	184.3	179.2	171.1	164.4
67.5°	171.1	162.9	154.1	151.2	146.0	137.9	131.2	122.4	118.0	110.6	108.4
70°	117.2	109.9	103.2	98.8	95.1	87.0	80.4	77.4	73.0	71.5	71.5
72.5°	75.2	68.6	61.2	59.0	56.0	51.6	47.2	45.7	47.2	46.5	46.5
75°	42.0	38.3	33.2	31.0	31.0	29.5	28.8	28.8	28.8	28.8	28.8
77.5°	21.4	19.2	17.7	17.0	17.0	17.0	17.7	17.7	17.7	18.4	17.7
80°	10.3	9.6	9.6	9.6	10.3	10.3	10.3	10.3	10.3	11.1	10.3
82.5°	5.2	5.2	5.2	5.2	5.2	5.2	5.9	5.9	5.9	5.9	5.9
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: P684308

CATALOG NUMBER: LX6C45D010 EX6C459040 6LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2193.6	2193.6	2193.6	2193.6	2193.6	2193.6	2193.6	2193.6
2.5°	2177.3	2175.9	2175.9	2175.1	2175.1	2175.1	2175.1	2175.9
5°	2153.7	2153.0	2153.0	2151.5	2151.5	2151.5	2151.5	2151.5
7.5°	2122.0	2120.6	2121.3	2119.8	2119.8	2120.6	2119.8	2119.1
10°	2083.0	2082.2	2083.0	2083.0	2081.5	2080.7	2081.5	2082.2
12.5°	2038.7	2038.0	2036.5	2037.2	2037.2	2036.5	2035.8	2034.3
15°	1987.1	1986.4	1985.6	1984.9	1984.2	1984.9	1984.2	1982.7
17.5°	1926.6	1926.6	1925.9	1925.2	1924.4	1923.0	1923.7	1925.9
20°	1861.8	1861.0	1859.5	1860.3	1857.3	1855.9	1856.6	1858.8
22.5°	1787.3	1785.1	1786.5	1784.3	1784.3	1785.1	1784.3	1782.9
25°	1706.2	1703.2	1704.7	1705.4	1705.4	1704.7	1704.0	1704.7
27.5°	1616.2	1618.4	1618.4	1617.0	1619.2	1616.2	1617.7	1618.4
30°	1524.1	1521.8	1521.1	1524.1	1528.5	1524.8	1524.8	1525.5
32.5°	1428.9	1426.0	1426.0	1427.5	1426.7	1426.7	1429.7	1426.0
35°	1327.2	1328.7	1322.8	1326.5	1327.9	1326.5	1327.2	1327.2
37.5°	1224.7	1223.2	1223.2	1223.2	1225.4	1225.4	1226.9	1226.2
40°	1123.7	1120.7	1120.0	1121.5	1118.5	1120.7	1120.7	1118.5
42.5°	1014.6	1015.3	1019.0	1015.3	1016.0	1015.3	1013.8	1013.1
45°	913.5	915.8	914.3	913.5	914.3	911.3	912.1	914.3
47.5°	806.6	811.1	806.6	809.6	808.8	807.4	805.9	803.0
50°	706.4	707.8	707.1	706.4	705.6	704.9	701.2	699.0
52.5°	603.9	603.9	603.9	603.9	596.5	600.2	598.7	594.3
55°	503.6	505.8	502.9	502.9	497.7	497.7	496.2	497.0
57.5°	407.0	404.8	402.6	402.6	397.4	395.2	393.0	390.0
60°	317.1	314.8	311.9	308.2	303.0	303.0	301.6	295.7
62.5°	232.3	228.6	226.4	223.4	219.0	216.0	213.8	215.3
65°	159.3	155.6	152.6	152.6	152.6	151.2	150.4	150.4
67.5°	104.7	106.9	105.4	106.9	106.9	105.4	104.7	106.2
70°	72.3	72.3	71.5	71.5	71.5	71.5	70.8	71.5
72.5°	46.5	46.5	46.5	47.2	46.5	46.5	47.2	47.2
75°	29.5	29.5	29.5	30.2	29.5	29.5	30.2	29.5
77.5°	17.7	18.4	18.4	18.4	18.4	17.7	18.4	18.4
80°	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
82.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
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)