

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: P684301

Luminaire Tested: **LX6C45D010 EX6C459035 6LBLWWH**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P684301
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 EX6C459035 6LBLWWH
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

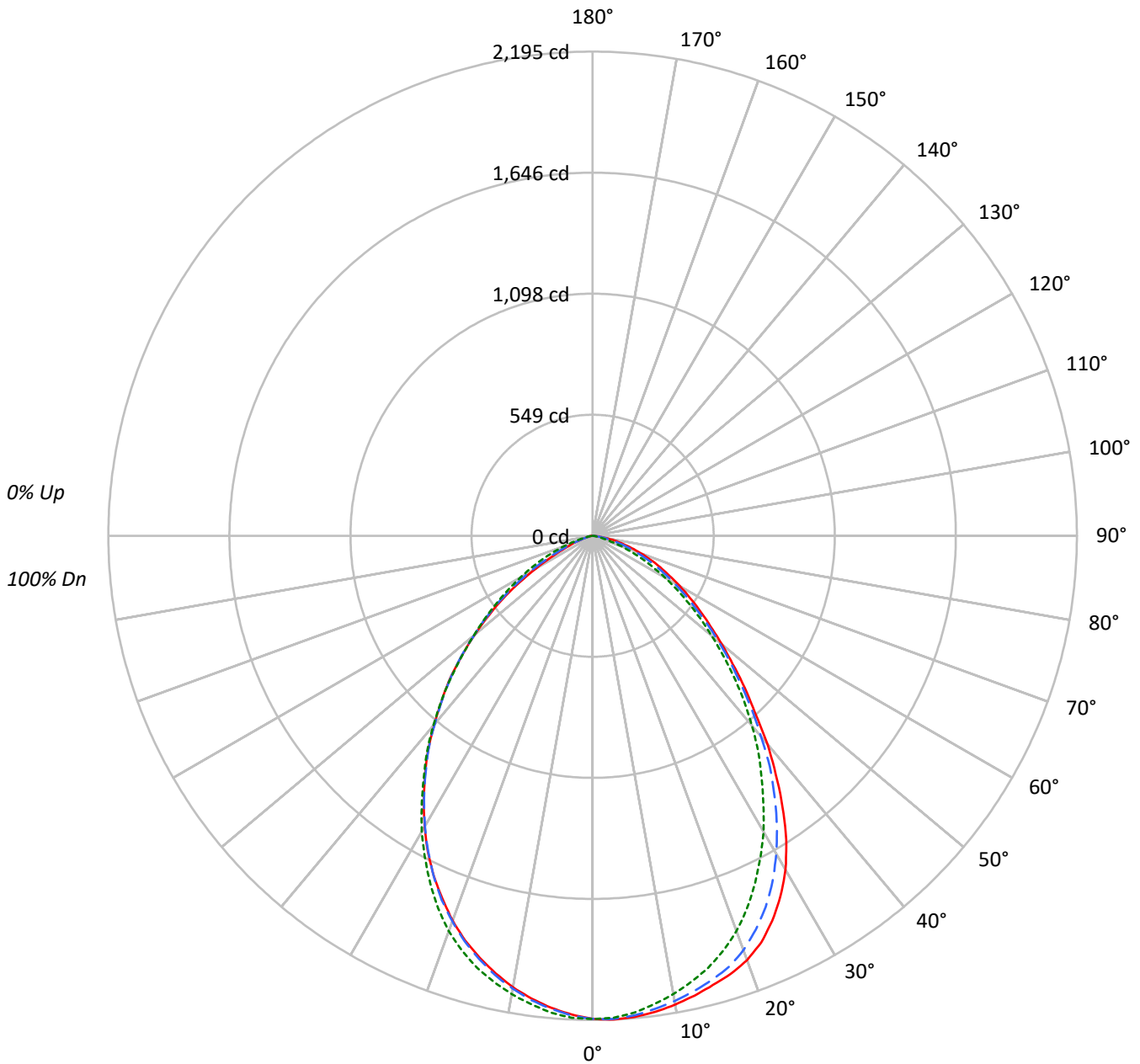
Lumens per Lamp: N/A
Luminaire Lumens: 3984.0 lumens
Efficiency: N/A
Efficacy: 80.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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°	120073	120073	120073
5°	120487	119392	118220
10°	120121	117455	115735
15°	119666	115029	112356
20°	119401	111240	108276
25°	116499	105272	102956
30°	110682	98053	96420
35°	100465	89275	88686
40°	88144	80343	79921
45°	75574	70209	70775
50°	65047	59836	59520
55°	56858	50521	47425
60°	49963	41411	32366
65°	43740	32092	19483
70°	37282	21590	11444
75°	30098	11226	6227
80°	20931	4420	3473
85°	8366	1384	1824



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.2	5.2
10°-20°	573.1	14.4
20°-30°	815.5	20.5
30°-40°	858.4	21.5
40°-50°	715.3	18.0
50°-60°	483.3	12.1
60°-70°	245.0	6.2
70°-80°	79.1	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°	1593.8	40.0
0°-40°	2452.2	61.6
0°-60°	3650.8	91.6
0°-90°	3984.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3984.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2190	2190	2190	2190	2190	
5°	2190	2183	2170	2153	2148	208
15°	2108	2086	2027	1986	1980	596
25°	1926	1856	1740	1704	1702	883
35°	1501	1436	1334	1321	1325	934
45°	975	950	906	909	913	755
55°	595	566	529	512	496	535
65°	337	304	247	179	150	336
75°	142	111	53	29	29	153
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°	2190.3	2190.3	2190.3	2190.3	2190.3	2190.3	2190.3	2190.3	2190.3	2190.3	2190.3
2.5°	2195.4	2195.4	2195.4	2195.4	2195.4	2195.4	2194.7	2194.7	2193.2	2193.2	2192.5
5°	2189.5	2190.3	2190.3	2189.5	2189.5	2188.0	2188.0	2187.3	2185.1	2183.6	2182.9
7.5°	2177.0	2177.0	2176.3	2175.5	2174.8	2172.6	2171.8	2169.6	2168.2	2166.7	2163.7
10°	2157.9	2157.9	2157.1	2155.7	2154.9	2153.4	2153.4	2150.5	2147.6	2143.9	2141.7
12.5°	2135.0	2135.8	2134.3	2133.6	2131.4	2130.6	2129.1	2125.5	2123.3	2118.8	2115.2
15°	2108.5	2110.0	2110.0	2107.1	2104.9	2104.1	2101.9	2099.7	2094.5	2090.1	2085.7
17.5°	2082.8	2084.2	2082.8	2080.6	2078.3	2075.4	2073.9	2069.5	2062.9	2057.0	2050.4
20°	2046.7	2048.9	2046.0	2042.3	2037.9	2037.1	2034.9	2027.5	2018.0	2009.1	1999.6
22.5°	1995.9	1994.4	1992.2	1990.7	1983.4	1979.0	1976.0	1966.4	1956.1	1944.4	1932.6
25°	1926.0	1928.9	1924.5	1917.9	1914.2	1909.8	1902.4	1892.1	1882.5	1870.0	1856.0
27.5°	1843.5	1843.5	1837.6	1835.4	1827.3	1821.4	1817.7	1807.4	1794.9	1782.4	1766.9
30°	1748.5	1744.1	1744.1	1733.8	1727.2	1725.0	1721.3	1704.3	1693.3	1680.1	1664.6
32.5°	1633.7	1632.9	1630.0	1623.4	1614.5	1607.2	1607.2	1595.4	1580.7	1564.5	1554.9
35°	1501.2	1501.9	1500.4	1493.1	1493.1	1484.2	1482.7	1472.4	1460.7	1448.1	1436.4
37.5°	1364.2	1367.2	1364.2	1360.5	1358.3	1357.6	1351.0	1343.6	1334.8	1327.4	1318.6
40°	1231.7	1227.3	1228.8	1221.4	1222.1	1220.7	1217.7	1208.1	1203.0	1195.6	1186.0
42.5°	1088.9	1093.3	1094.8	1090.3	1088.9	1085.9	1088.9	1085.2	1079.3	1075.6	1066.8
45°	974.8	970.3	972.5	971.1	971.8	965.9	963.7	962.2	960.0	953.4	949.7
47.5°	861.4	862.1	861.4	858.4	857.0	857.0	854.0	849.6	849.6	845.2	842.2
50°	762.7	762.7	764.2	760.5	759.0	756.1	756.8	752.4	749.5	745.8	743.6
52.5°	672.2	672.9	670.0	670.7	669.2	669.2	666.3	663.3	660.4	653.8	652.3
55°	594.9	595.6	591.9	593.4	589.0	586.8	585.3	580.9	580.9	574.3	566.2
57.5°	522.7	522.0	521.2	519.0	516.1	513.9	511.7	506.5	504.3	499.9	493.3
60°	455.7	455.0	453.5	452.8	450.6	445.4	445.4	441.7	434.4	430.0	423.3
62.5°	392.4	392.4	391.7	389.5	387.3	385.0	383.6	380.6	373.3	368.1	362.2
65°	337.2	336.5	334.2	330.6	329.1	329.1	323.9	321.7	315.8	310.7	304.1
67.5°	284.2	281.2	279.8	280.5	276.1	276.1	271.7	268.0	262.8	254.0	248.8
70°	232.6	231.2	229.7	228.2	227.5	224.5	222.3	217.9	212.8	206.1	198.0
72.5°	186.3	186.3	184.1	182.6	180.4	177.4	176.0	172.3	166.4	159.0	153.1
75°	142.1	142.1	142.1	139.1	137.7	136.2	131.8	129.6	122.9	118.5	111.2
77.5°	104.5	103.1	100.9	100.1	98.7	97.2	95.0	91.3	85.4	80.2	75.8
80°	66.3	68.5	66.3	66.3	62.6	61.1	60.4	56.0	53.7	49.3	45.6
82.5°	36.8	37.5	36.1	35.3	33.1	32.4	32.4	29.4	28.0	25.0	22.8
85°	13.3	14.0	13.3	13.3	11.8	12.5	11.8	11.0	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°	2190.3	2190.3	2190.3	2190.3	2190.3	2190.3	2190.3	2190.3	2190.3	2190.3	2190.3
2.5°	2192.5	2191.0	2191.0	2190.3	2189.5	2189.5	2189.5	2188.8	2187.3	2187.3	2186.6
5°	2181.4	2179.9	2177.7	2176.3	2175.5	2174.8	2174.1	2173.3	2170.4	2169.6	2167.4
7.5°	2161.5	2160.1	2156.4	2154.9	2152.7	2152.0	2149.0	2147.6	2144.6	2141.7	2140.2
10°	2138.0	2134.3	2131.4	2127.7	2126.2	2124.0	2120.3	2115.9	2113.7	2110.0	2107.1
12.5°	2111.5	2107.1	2101.2	2096.8	2095.3	2091.6	2085.7	2082.0	2076.9	2071.0	2065.8
15°	2078.3	2073.2	2068.0	2059.9	2057.7	2053.3	2047.4	2040.1	2032.7	2026.8	2020.9
17.5°	2042.3	2034.2	2026.1	2017.2	2010.6	2008.4	1998.8	1988.5	1981.9	1971.6	1965.0
20°	1991.5	1980.4	1967.2	1958.3	1952.5	1945.8	1934.8	1923.7	1915.6	1906.8	1897.2
22.5°	1921.5	1911.2	1895.8	1882.5	1878.1	1868.5	1859.0	1848.6	1838.3	1828.8	1817.0
25°	1839.1	1828.0	1812.6	1799.3	1792.0	1787.5	1769.1	1758.8	1748.5	1740.4	1732.3
27.5°	1754.4	1734.5	1724.2	1703.6	1697.0	1695.5	1678.6	1667.5	1656.5	1645.5	1635.1
30°	1649.9	1634.4	1618.9	1604.2	1595.4	1590.2	1577.7	1563.7	1556.4	1549.0	1538.7
32.5°	1541.6	1527.7	1508.5	1494.5	1487.9	1480.5	1469.5	1459.9	1448.9	1440.8	1438.6
35°	1426.1	1410.6	1394.4	1384.1	1382.6	1373.8	1362.7	1354.6	1346.5	1334.0	1331.8
37.5°	1302.4	1293.5	1282.5	1267.8	1261.1	1261.1	1250.1	1244.2	1233.9	1233.2	1227.3
40°	1180.9	1177.2	1160.3	1155.9	1154.4	1144.1	1141.1	1130.8	1123.5	1122.7	1113.9
42.5°	1060.9	1051.3	1048.4	1041.0	1034.4	1032.9	1026.3	1021.9	1018.9	1014.5	1010.1
45°	941.6	939.4	932.1	926.9	924.7	921.7	919.5	910.7	909.2	905.6	903.3
47.5°	838.6	832.7	826.0	820.1	819.4	815.0	809.8	809.8	801.7	801.0	799.5
50°	736.2	731.8	728.1	720.0	721.5	715.6	714.9	708.2	704.6	701.6	705.3
52.5°	646.4	637.6	636.1	629.5	627.3	628.0	619.9	617.7	616.2	613.3	611.8
55°	561.0	556.6	550.7	546.3	542.6	538.9	536.0	536.0	527.9	528.6	524.9
57.5°	485.9	482.2	474.9	468.2	466.8	462.3	458.7	455.0	454.2	449.1	445.4
60°	418.9	412.3	402.7	399.8	395.3	391.7	388.0	383.6	381.4	377.7	371.1
62.5°	356.3	345.3	341.6	335.7	330.6	328.4	322.5	317.3	313.6	308.5	303.3
65°	296.7	288.6	282.0	275.3	274.6	268.7	263.6	259.1	251.8	247.4	237.8
67.5°	242.2	234.9	227.5	220.9	215.7	214.2	206.1	201.0	195.8	187.0	178.9
70°	192.2	184.8	178.9	170.8	168.6	162.7	156.8	151.7	142.8	134.7	128.1
72.5°	146.5	138.4	131.8	125.9	122.2	117.1	111.2	105.3	96.4	88.3	82.5
75°	104.5	98.7	92.0	86.1	83.2	80.2	73.6	67.0	61.1	53.0	47.9
77.5°	70.7	64.8	58.9	53.7	50.1	47.9	43.4	38.3	33.1	28.7	25.0
80°	41.2	37.5	33.1	28.7	28.0	25.8	22.1	19.1	16.2	14.0	11.0
82.5°	19.9	17.7	14.7	12.5	11.0	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°	2190.3	2190.3	2190.3	2190.3	2190.3	2190.3	2190.3	2190.3	2190.3	2190.3	2190.3
2.5°	2184.4	2183.6	2182.9	2182.2	2180.7	2180.7	2178.5	2177.0	2177.0	2175.5	2174.8
5°	2165.2	2163.0	2162.3	2160.8	2159.3	2158.6	2155.7	2154.9	2153.4	2152.0	2152.0
7.5°	2138.0	2135.0	2132.1	2130.6	2129.9	2127.7	2126.2	2125.5	2123.3	2121.8	2118.8
10°	2101.9	2099.7	2096.0	2094.5	2093.1	2091.6	2087.9	2085.7	2085.0	2083.5	2082.0
12.5°	2059.9	2057.0	2053.3	2050.4	2048.9	2046.7	2043.0	2040.8	2040.8	2037.9	2037.9
15°	2015.0	2010.6	2004.0	2001.0	2000.3	1995.9	1992.9	1990.0	1986.3	1984.8	1984.8
17.5°	1957.6	1950.2	1944.4	1944.4	1941.4	1937.0	1932.6	1930.4	1928.2	1925.2	1923.7
20°	1889.9	1884.7	1878.1	1878.1	1871.5	1870.0	1865.6	1864.8	1859.7	1860.4	1858.2
22.5°	1808.2	1805.2	1801.5	1798.6	1794.9	1790.5	1788.3	1789.0	1786.8	1786.1	1785.3
25°	1725.7	1717.6	1713.2	1711.7	1710.2	1706.6	1705.1	1704.3	1704.3	1702.1	1702.9
27.5°	1630.7	1624.8	1618.9	1621.2	1618.2	1616.0	1614.5	1612.3	1613.8	1613.1	1613.8
30°	1533.5	1526.2	1522.5	1524.0	1523.2	1517.3	1520.3	1519.6	1520.3	1520.3	1521.8
32.5°	1431.2	1426.1	1425.3	1426.1	1419.4	1420.2	1417.2	1421.6	1422.4	1426.8	1423.1
35°	1327.4	1324.5	1319.3	1318.6	1319.3	1318.6	1318.6	1321.5	1320.8	1325.2	1323.7
37.5°	1220.7	1219.2	1214.0	1215.5	1212.6	1217.7	1219.2	1217.7	1222.9	1221.4	1220.7
40°	1116.1	1113.9	1111.0	1116.8	1113.2	1110.2	1115.4	1111.0	1112.4	1116.8	1116.8
42.5°	1010.1	1006.4	1006.4	1006.4	1005.7	1005.7	1007.9	1010.1	1008.6	1009.4	1015.2
45°	903.3	902.6	900.4	901.9	901.1	904.8	904.8	906.3	909.2	912.2	910.7
47.5°	800.3	798.8	801.0	799.5	800.3	798.1	799.5	804.0	807.6	802.5	807.6
50°	703.8	700.9	700.1	702.4	701.6	700.9	702.4	702.4	700.9	700.9	706.0
52.5°	611.8	608.9	606.6	610.3	608.1	608.9	605.9	605.9	607.4	605.9	603.7
55°	525.7	523.5	520.5	522.0	518.3	517.6	514.6	514.6	512.4	510.9	506.5
57.5°	443.2	441.7	435.1	434.4	435.1	430.0	424.8	422.6	416.7	415.2	414.5
60°	370.3	362.2	358.5	354.1	351.2	349.0	343.1	339.4	330.6	325.4	324.7
62.5°	294.5	290.8	286.4	279.8	278.3	270.9	265.0	255.5	251.1	244.4	237.8
65°	233.4	223.8	217.2	213.5	207.6	201.0	194.4	184.1	178.9	170.8	164.2
67.5°	170.8	162.7	153.9	150.9	145.8	137.7	131.0	122.2	117.8	110.4	108.2
70°	117.1	109.7	103.1	98.7	95.0	86.9	80.2	77.3	72.9	71.4	71.4
72.5°	75.1	68.5	61.1	58.9	56.0	51.5	47.1	45.6	47.1	46.4	46.4
75°	42.0	38.3	33.1	30.9	30.9	29.4	28.7	28.7	28.7	28.7	28.7
77.5°	21.4	19.1	17.7	16.9	16.9	16.9	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	11.0	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: P684301

CATALOG NUMBER: LX6C45D010 EX6C459035 6LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2190.3	2190.3	2190.3	2190.3	2190.3	2190.3	2190.3	2190.3
2.5°	2174.1	2172.6	2172.6	2171.8	2171.8	2171.8	2171.8	2172.6
5°	2150.5	2149.8	2149.8	2148.3	2148.3	2148.3	2148.3	2148.3
7.5°	2118.8	2117.4	2118.1	2116.6	2116.6	2117.4	2116.6	2115.9
10°	2079.8	2079.1	2079.8	2079.8	2078.3	2077.6	2078.3	2079.1
12.5°	2035.6	2034.9	2033.4	2034.2	2034.2	2033.4	2032.7	2031.2
15°	1984.1	1983.4	1982.6	1981.9	1981.2	1981.9	1981.2	1979.7
17.5°	1923.7	1923.7	1923.0	1922.3	1921.5	1920.1	1920.8	1923.0
20°	1859.0	1858.2	1856.7	1857.5	1854.5	1853.1	1853.8	1856.0
22.5°	1784.6	1782.4	1783.9	1781.7	1781.7	1782.4	1781.7	1780.2
25°	1703.6	1700.7	1702.1	1702.9	1702.9	1702.1	1701.4	1702.1
27.5°	1613.8	1616.0	1616.0	1614.5	1616.7	1613.8	1615.3	1616.0
30°	1521.8	1519.6	1518.8	1521.8	1526.2	1522.5	1522.5	1523.2
32.5°	1426.8	1423.8	1423.8	1425.3	1424.6	1424.6	1427.5	1423.8
35°	1325.2	1326.7	1320.8	1324.5	1325.9	1324.5	1325.2	1325.2
37.5°	1222.9	1221.4	1221.4	1221.4	1223.6	1223.6	1225.1	1224.3
40°	1122.0	1119.1	1118.3	1119.8	1116.8	1119.1	1119.1	1116.8
42.5°	1013.0	1013.8	1017.5	1013.8	1014.5	1013.8	1012.3	1011.6
45°	912.2	914.4	912.9	912.2	912.9	910.0	910.7	912.9
47.5°	805.4	809.8	805.4	808.4	807.6	806.2	804.7	801.7
50°	705.3	706.8	706.0	705.3	704.6	703.8	700.1	697.9
52.5°	603.0	603.0	603.0	603.0	595.6	599.3	597.8	593.4
55°	502.8	505.0	502.1	502.1	496.9	496.9	495.5	496.2
57.5°	406.4	404.2	402.0	402.0	396.8	394.6	392.4	389.5
60°	316.6	314.4	311.4	307.7	302.6	302.6	301.1	295.2
62.5°	231.9	228.2	226.0	223.1	218.7	215.7	213.5	215.0
65°	159.0	155.3	152.4	152.4	152.4	150.9	150.2	150.2
67.5°	104.5	106.8	105.3	106.8	106.8	105.3	104.5	106.0
70°	72.1	72.1	71.4	71.4	71.4	71.4	70.7	71.4
72.5°	46.4	46.4	46.4	47.1	46.4	46.4	47.1	47.1
75°	29.4	29.4	29.4	30.2	29.4	29.4	30.2	29.4
77.5°	17.7	18.4	18.4	18.4	18.4	17.7	18.4	18.4
80°	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
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)