

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: P684287

Luminaire Tested: **LX6C45D010 EX6C459027 6LBLWWH**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P684287
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 EX6C459027 6LBLWWH
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

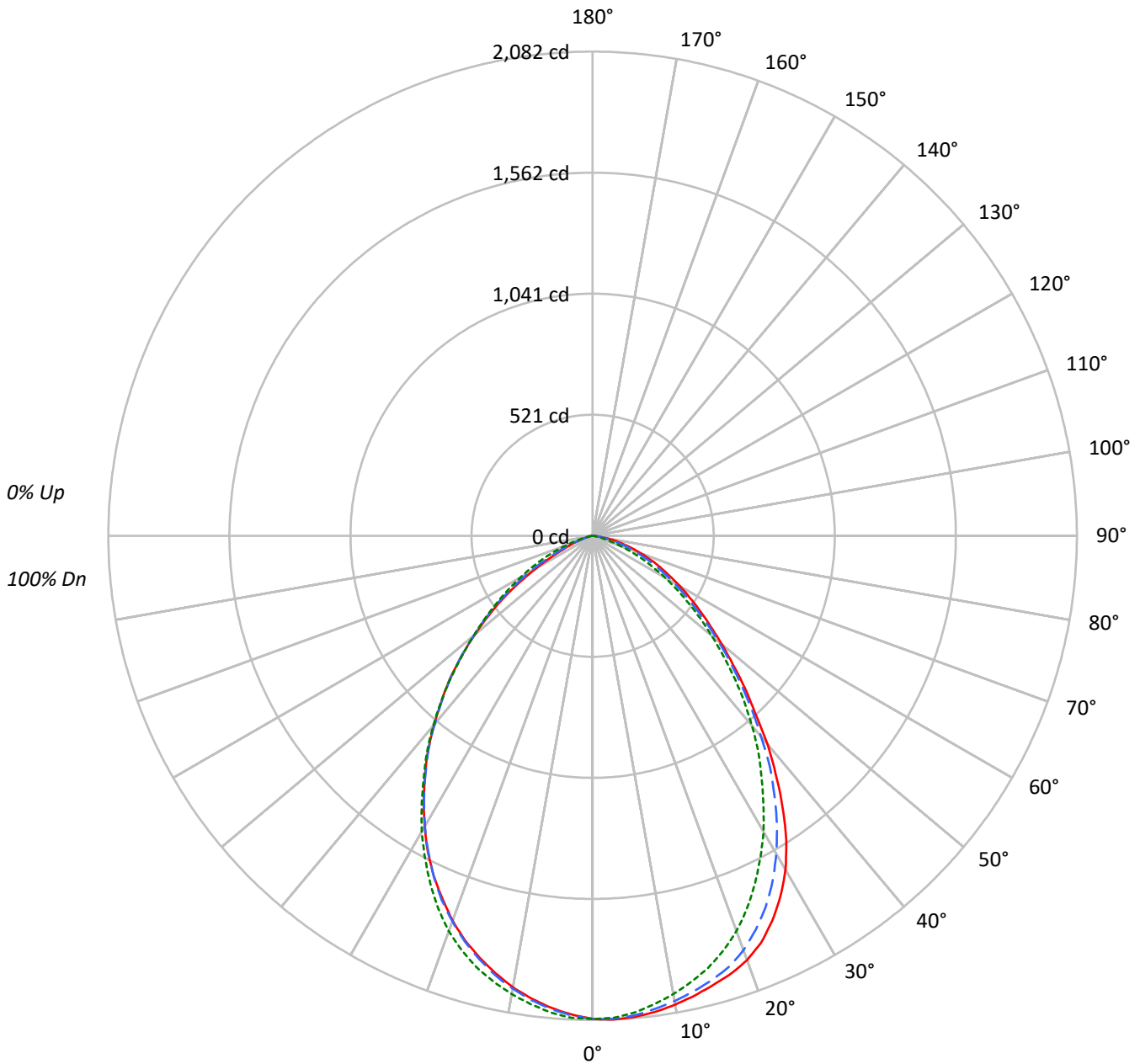
Lumens per Lamp: N/A
Luminaire Lumens: 3779.0 lumens
Efficiency: N/A
Efficacy: 76.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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	41	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°	113894	113894	113894
5°	114291	113251	112134
10°	113937	111410	109779
15°	113508	109110	106573
20°	113258	105517	102705
25°	110498	99859	97663
30°	104985	93008	91463
35°	95292	84684	84122
40°	83607	76214	75813
45°	71682	66596	67131
50°	61704	56757	56459
55°	53934	47922	44988
60°	47398	39273	30699
65°	41483	30431	18484
70°	35375	20484	10851
75°	28552	10654	5909
80°	19857	4199	3315
85°	7925	1321	1761



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.7	5.2
10°-20°	543.6	14.4
20°-30°	773.6	20.5
30°-40°	814.2	21.5
40°-50°	678.5	18.0
50°-60°	458.4	12.1
60°-70°	232.4	6.2
70°-80°	75.0	2.0
80°-90°	8.6	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°	1511.8	40.0
0°-40°	2326.0	61.6
0°-60°	3462.9	91.6
0°-90°	3779.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3779.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2078	2078	2078	2078	2078	
5°	2077	2071	2058	2043	2038	197
15°	2000	1978	1922	1884	1878	565
25°	1827	1760	1651	1617	1615	837
35°	1424	1362	1265	1253	1257	886
45°	925	901	859	862	866	716
55°	564	537	501	486	471	508
65°	320	288	235	170	142	318
75°	135	105	50	27	28	146
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°	2077.6	2077.6	2077.6	2077.6	2077.6	2077.6	2077.6	2077.6	2077.6	2077.6	2077.6
2.5°	2082.4	2082.4	2082.4	2082.4	2082.4	2082.4	2081.7	2081.7	2080.3	2080.3	2079.6
5°	2076.9	2077.6	2077.6	2076.9	2076.9	2075.5	2075.5	2074.8	2072.7	2071.3	2070.6
7.5°	2065.0	2065.0	2064.3	2063.6	2062.9	2060.8	2060.1	2058.0	2056.6	2055.2	2052.4
10°	2046.8	2046.8	2046.1	2044.7	2044.0	2042.6	2042.6	2039.8	2037.0	2033.6	2031.5
12.5°	2025.2	2025.9	2024.5	2023.8	2021.7	2021.0	2019.6	2016.1	2014.0	2009.8	2006.3
15°	2000.0	2001.4	2001.4	1998.6	1996.5	1995.8	1993.8	1991.7	1986.8	1982.6	1978.4
17.5°	1975.6	1977.0	1975.6	1973.5	1971.4	1968.6	1967.2	1963.0	1956.7	1951.2	1944.9
20°	1941.4	1943.5	1940.7	1937.2	1933.0	1932.3	1930.2	1923.2	1914.1	1905.8	1896.7
22.5°	1893.2	1891.8	1889.7	1888.3	1881.3	1877.1	1874.3	1865.3	1855.5	1844.3	1833.1
25°	1826.8	1829.6	1825.5	1819.2	1815.7	1811.5	1804.5	1794.7	1785.6	1773.8	1760.5
27.5°	1748.6	1748.6	1743.0	1741.0	1733.3	1727.7	1724.2	1714.4	1702.5	1690.7	1676.0
30°	1658.5	1654.4	1654.4	1644.6	1638.3	1636.2	1632.7	1616.6	1606.2	1593.6	1578.9
32.5°	1549.6	1548.9	1546.1	1539.8	1531.5	1524.5	1524.5	1513.3	1499.3	1484.0	1474.9
35°	1423.9	1424.6	1423.2	1416.2	1416.2	1407.8	1406.5	1396.7	1385.5	1373.6	1362.5
37.5°	1294.0	1296.8	1294.0	1290.5	1288.4	1287.7	1281.4	1274.5	1266.1	1259.1	1250.7
40°	1168.3	1164.1	1165.5	1158.5	1159.2	1157.8	1155.0	1146.0	1141.1	1134.1	1125.0
42.5°	1032.8	1037.0	1038.4	1034.2	1032.8	1030.0	1032.8	1029.3	1023.8	1020.3	1011.9
45°	924.6	920.4	922.5	921.1	921.8	916.2	914.1	912.7	910.6	904.3	900.9
47.5°	817.1	817.8	817.1	814.3	812.9	812.9	810.1	805.9	805.9	801.7	798.9
50°	723.5	723.5	724.9	721.4	720.0	717.2	717.9	713.7	710.9	707.4	705.3
52.5°	637.6	638.3	635.5	636.2	634.8	634.8	632.0	629.2	626.4	620.1	618.7
55°	564.3	565.0	561.5	562.9	558.7	556.6	555.2	551.0	551.0	544.7	537.0
57.5°	495.8	495.1	494.4	492.3	489.5	487.4	485.3	480.5	478.4	474.2	467.9
60°	432.3	431.6	430.2	429.5	427.4	422.5	422.5	419.0	412.0	407.8	401.5
62.5°	372.2	372.2	371.5	369.4	367.3	365.2	363.8	361.0	354.1	349.2	343.6
65°	319.8	319.1	317.0	313.6	312.2	312.2	307.3	305.2	299.6	294.7	288.4
67.5°	269.6	266.8	265.4	266.1	261.9	261.9	257.7	254.2	249.3	240.9	236.0
70°	220.7	219.3	217.9	216.5	215.8	213.0	210.9	206.7	201.8	195.5	187.9
72.5°	176.7	176.7	174.6	173.2	171.1	168.3	166.9	163.4	157.8	150.8	145.3
75°	134.8	134.8	134.8	132.0	130.6	129.2	125.0	122.9	116.6	112.4	105.4
77.5°	99.2	97.8	95.7	95.0	93.6	92.2	90.1	86.6	81.0	76.1	71.9
80°	62.9	64.9	62.9	62.9	59.4	58.0	57.3	53.1	51.0	46.8	43.3
82.5°	34.9	35.6	34.2	33.5	31.4	30.7	30.7	27.9	26.5	23.7	21.6
85°	12.6	13.3	12.6	12.6	11.2	11.9	11.2	10.5	9.1	7.7	7.0
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°	2077.6	2077.6	2077.6	2077.6	2077.6	2077.6	2077.6	2077.6	2077.6	2077.6	2077.6
2.5°	2079.6	2078.3	2078.3	2077.6	2076.9	2076.9	2076.9	2076.2	2074.8	2074.8	2074.1
5°	2069.2	2067.8	2065.7	2064.3	2063.6	2062.9	2062.2	2061.5	2058.7	2058.0	2055.9
7.5°	2050.3	2048.9	2045.4	2044.0	2041.9	2041.2	2038.4	2037.0	2034.3	2031.5	2030.1
10°	2028.0	2024.5	2021.7	2018.2	2016.8	2014.7	2011.2	2007.0	2004.9	2001.4	1998.6
12.5°	2002.8	1998.6	1993.1	1988.9	1987.5	1984.0	1978.4	1974.9	1970.0	1964.4	1959.5
15°	1971.4	1966.5	1961.6	1953.9	1951.9	1947.7	1942.1	1935.1	1928.1	1922.5	1916.9
17.5°	1937.2	1929.5	1921.8	1913.4	1907.2	1905.1	1896.0	1886.2	1879.9	1870.1	1863.9
20°	1889.0	1878.5	1866.0	1857.6	1852.0	1845.7	1835.2	1824.8	1817.1	1808.7	1799.6
22.5°	1822.7	1812.9	1798.2	1785.6	1781.5	1772.4	1763.3	1753.5	1743.7	1734.7	1723.5
25°	1744.4	1734.0	1719.3	1706.7	1699.8	1695.6	1678.1	1668.3	1658.5	1650.9	1643.2
27.5°	1664.1	1645.3	1635.5	1616.0	1609.7	1608.3	1592.2	1581.7	1571.3	1560.8	1551.0
30°	1565.0	1550.3	1535.6	1521.7	1513.3	1508.4	1496.5	1483.3	1476.3	1469.3	1459.5
32.5°	1462.3	1449.0	1430.9	1417.6	1411.3	1404.4	1393.9	1384.8	1374.3	1366.6	1364.6
35°	1352.7	1338.0	1322.6	1312.9	1311.5	1303.1	1292.6	1284.9	1277.3	1265.4	1263.3
37.5°	1235.4	1227.0	1216.5	1202.5	1196.3	1196.3	1185.8	1180.2	1170.4	1169.7	1164.1
40°	1120.1	1116.6	1100.6	1096.4	1095.0	1085.2	1082.4	1072.6	1065.7	1065.0	1056.6
42.5°	1006.3	997.2	994.4	987.4	981.2	979.8	973.5	969.3	966.5	962.3	958.1
45°	893.2	891.1	884.1	879.2	877.1	874.3	872.2	863.8	862.4	859.0	856.9
47.5°	795.4	789.8	783.5	777.9	777.2	773.1	768.2	768.2	760.5	759.8	758.4
50°	698.3	694.1	690.7	683.0	684.4	678.8	678.1	671.8	668.3	665.5	669.0
52.5°	613.1	604.8	603.4	597.1	595.0	595.7	588.0	585.9	584.5	581.7	580.3
55°	532.1	527.9	522.4	518.2	514.7	511.2	508.4	508.4	500.7	501.4	497.9
57.5°	460.9	457.4	450.4	444.1	442.7	438.6	435.1	431.6	430.9	426.0	422.5
60°	397.4	391.1	382.0	379.2	375.0	371.5	368.0	363.8	361.7	358.2	352.0
62.5°	338.0	327.5	324.0	318.4	313.6	311.5	305.9	301.0	297.5	292.6	287.7
65°	281.4	273.7	267.5	261.2	260.5	254.9	250.0	245.8	238.8	234.6	225.6
67.5°	229.8	222.8	215.8	209.5	204.6	203.2	195.5	190.6	185.8	177.4	169.7
70°	182.3	175.3	169.7	162.0	159.9	154.3	148.7	143.9	135.5	127.8	121.5
72.5°	139.0	131.3	125.0	119.4	115.9	111.0	105.4	99.9	91.5	83.8	78.2
75°	99.2	93.6	87.3	81.7	78.9	76.1	69.8	63.5	58.0	50.3	45.4
77.5°	67.0	61.5	55.9	51.0	47.5	45.4	41.2	36.3	31.4	27.2	23.7
80°	39.1	35.6	31.4	27.2	26.5	24.4	21.0	18.2	15.4	13.3	10.5
82.5°	18.9	16.8	14.0	11.9	10.5	9.8	8.4	7.0	5.6	4.9	4.9
85°	5.6	4.9	4.2	3.5	2.8	2.8	2.1	2.1	2.1	2.1	2.1
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°	2077.6	2077.6	2077.6	2077.6	2077.6	2077.6	2077.6	2077.6	2077.6	2077.6	2077.6
2.5°	2072.0	2071.3	2070.6	2069.9	2068.5	2068.5	2066.4	2065.0	2065.0	2063.6	2062.9
5°	2053.8	2051.7	2051.0	2049.6	2048.2	2047.5	2044.7	2044.0	2042.6	2041.2	2041.2
7.5°	2028.0	2025.2	2022.4	2021.0	2020.3	2018.2	2016.8	2016.1	2014.0	2012.6	2009.8
10°	1993.8	1991.7	1988.2	1986.8	1985.4	1984.0	1980.5	1978.4	1977.7	1976.3	1974.9
12.5°	1953.9	1951.2	1947.7	1944.9	1943.5	1941.4	1937.9	1935.8	1935.8	1933.0	1933.0
15°	1911.3	1907.2	1900.9	1898.1	1897.4	1893.2	1890.4	1887.6	1884.1	1882.7	1882.7
17.5°	1856.9	1849.9	1844.3	1844.3	1841.5	1837.3	1833.1	1831.0	1828.9	1826.2	1824.8
20°	1792.6	1787.7	1781.5	1781.5	1775.2	1773.8	1769.6	1768.9	1764.0	1764.7	1762.6
22.5°	1715.1	1712.3	1708.8	1706.0	1702.5	1698.4	1696.3	1697.0	1694.9	1694.2	1693.5
25°	1636.9	1629.2	1625.0	1623.6	1622.2	1618.7	1617.3	1616.6	1616.6	1614.6	1615.3
27.5°	1546.8	1541.2	1535.6	1537.7	1534.9	1532.8	1531.5	1529.4	1530.8	1530.1	1530.8
30°	1454.6	1447.7	1444.2	1445.6	1444.9	1439.3	1442.1	1441.4	1442.1	1442.1	1443.5
32.5°	1357.6	1352.7	1352.0	1352.7	1346.4	1347.1	1344.3	1348.5	1349.2	1353.4	1349.9
35°	1259.1	1256.3	1251.4	1250.7	1251.4	1250.7	1250.7	1253.5	1252.8	1257.0	1255.6
37.5°	1157.8	1156.4	1151.6	1153.0	1150.2	1155.0	1156.4	1155.0	1159.9	1158.5	1157.8
40°	1058.7	1056.6	1053.8	1059.4	1055.9	1053.1	1058.0	1053.8	1055.2	1059.4	1059.4
42.5°	958.1	954.6	954.6	954.6	953.9	953.9	956.0	958.1	956.7	957.4	963.0
45°	856.9	856.2	854.1	855.5	854.8	858.3	858.3	859.7	862.4	865.2	863.8
47.5°	759.1	757.7	759.8	758.4	759.1	757.0	758.4	762.6	766.1	761.2	766.1
50°	667.6	664.8	664.1	666.2	665.5	664.8	666.2	666.2	664.8	664.8	669.7
52.5°	580.3	577.5	575.4	578.9	576.8	577.5	574.7	574.7	576.1	574.7	572.6
55°	498.6	496.5	493.7	495.1	491.6	490.9	488.1	488.1	486.0	484.6	480.5
57.5°	420.4	419.0	412.7	412.0	412.7	407.8	402.9	400.8	395.3	393.9	393.2
60°	351.3	343.6	340.1	335.9	333.1	331.0	325.4	321.9	313.6	308.7	308.0
62.5°	279.3	275.8	271.7	265.4	264.0	257.0	251.4	242.3	238.1	231.8	225.6
65°	221.4	212.3	206.0	202.5	196.9	190.6	184.4	174.6	169.7	162.0	155.7
67.5°	162.0	154.3	146.0	143.2	138.3	130.6	124.3	115.9	111.7	104.8	102.7
70°	111.0	104.1	97.8	93.6	90.1	82.4	76.1	73.3	69.1	67.7	67.7
72.5°	71.2	64.9	58.0	55.9	53.1	48.9	44.7	43.3	44.7	44.0	44.0
75°	39.8	36.3	31.4	29.3	29.3	27.9	27.2	27.2	27.2	27.2	27.2
77.5°	20.3	18.2	16.8	16.1	16.1	16.1	16.8	16.8	16.8	17.5	16.8
80°	9.8	9.1	9.1	9.1	9.8	9.8	9.8	9.8	9.8	10.5	9.8
82.5°	4.9	4.9	4.9	4.9	4.9	4.9	5.6	5.6	5.6	5.6	5.6
85°	2.1	2.1	2.1	2.1	2.8	2.8	2.8	2.8	2.8	2.8	2.8
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: P684287

CATALOG NUMBER: LX6C45D010 EX6C459027 6LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2077.6	2077.6	2077.6	2077.6	2077.6	2077.6	2077.6	2077.6
2.5°	2062.2	2060.8	2060.8	2060.1	2060.1	2060.1	2060.1	2060.8
5°	2039.8	2039.1	2039.1	2037.7	2037.7	2037.7	2037.7	2037.7
7.5°	2009.8	2008.4	2009.1	2007.7	2007.7	2008.4	2007.7	2007.0
10°	1972.8	1972.1	1972.8	1972.8	1971.4	1970.7	1971.4	1972.1
12.5°	1930.9	1930.2	1928.8	1929.5	1929.5	1928.8	1928.1	1926.7
15°	1882.0	1881.3	1880.6	1879.9	1879.2	1879.9	1879.2	1877.8
17.5°	1824.8	1824.8	1824.1	1823.4	1822.7	1821.3	1822.0	1824.1
20°	1763.3	1762.6	1761.2	1761.9	1759.1	1757.7	1758.4	1760.5
22.5°	1692.8	1690.7	1692.1	1690.0	1690.0	1690.7	1690.0	1688.6
25°	1616.0	1613.2	1614.6	1615.3	1615.3	1614.6	1613.9	1614.6
27.5°	1530.8	1532.8	1532.8	1531.5	1533.5	1530.8	1532.2	1532.8
30°	1443.5	1441.4	1440.7	1443.5	1447.7	1444.2	1444.2	1444.9
32.5°	1353.4	1350.6	1350.6	1352.0	1351.3	1351.3	1354.1	1350.6
35°	1257.0	1258.4	1252.8	1256.3	1257.7	1256.3	1257.0	1257.0
37.5°	1159.9	1158.5	1158.5	1158.5	1160.6	1160.6	1162.0	1161.3
40°	1064.3	1061.5	1060.8	1062.2	1059.4	1061.5	1061.5	1059.4
42.5°	960.9	961.6	965.1	961.6	962.3	961.6	960.2	959.5
45°	865.2	867.3	865.9	865.2	865.9	863.1	863.8	865.9
47.5°	764.0	768.2	764.0	766.8	766.1	764.7	763.3	760.5
50°	669.0	670.4	669.7	669.0	668.3	667.6	664.1	662.0
52.5°	571.9	571.9	571.9	571.9	565.0	568.4	567.0	562.9
55°	477.0	479.1	476.3	476.3	471.4	471.4	470.0	470.7
57.5°	385.5	383.4	381.3	381.3	376.4	374.3	372.2	369.4
60°	300.3	298.2	295.4	291.9	287.0	287.0	285.6	280.0
62.5°	220.0	216.5	214.4	211.6	207.4	204.6	202.5	203.9
65°	150.8	147.3	144.6	144.6	144.6	143.2	142.5	142.5
67.5°	99.2	101.3	99.9	101.3	101.3	99.9	99.2	100.6
70°	68.4	68.4	67.7	67.7	67.7	67.7	67.0	67.7
72.5°	44.0	44.0	44.0	44.7	44.0	44.0	44.7	44.7
75°	27.9	27.9	27.9	28.6	27.9	27.9	28.6	27.9
77.5°	16.8	17.5	17.5	17.5	17.5	16.8	17.5	17.5
80°	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
82.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
85°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
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)