

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: P563947

Luminaire Tested: **LX6C45D010 EX6C459030 6LBLWWH**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P563947
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, DIM TO WARM
Light Source: -
Ballast/Driver: -

Summary

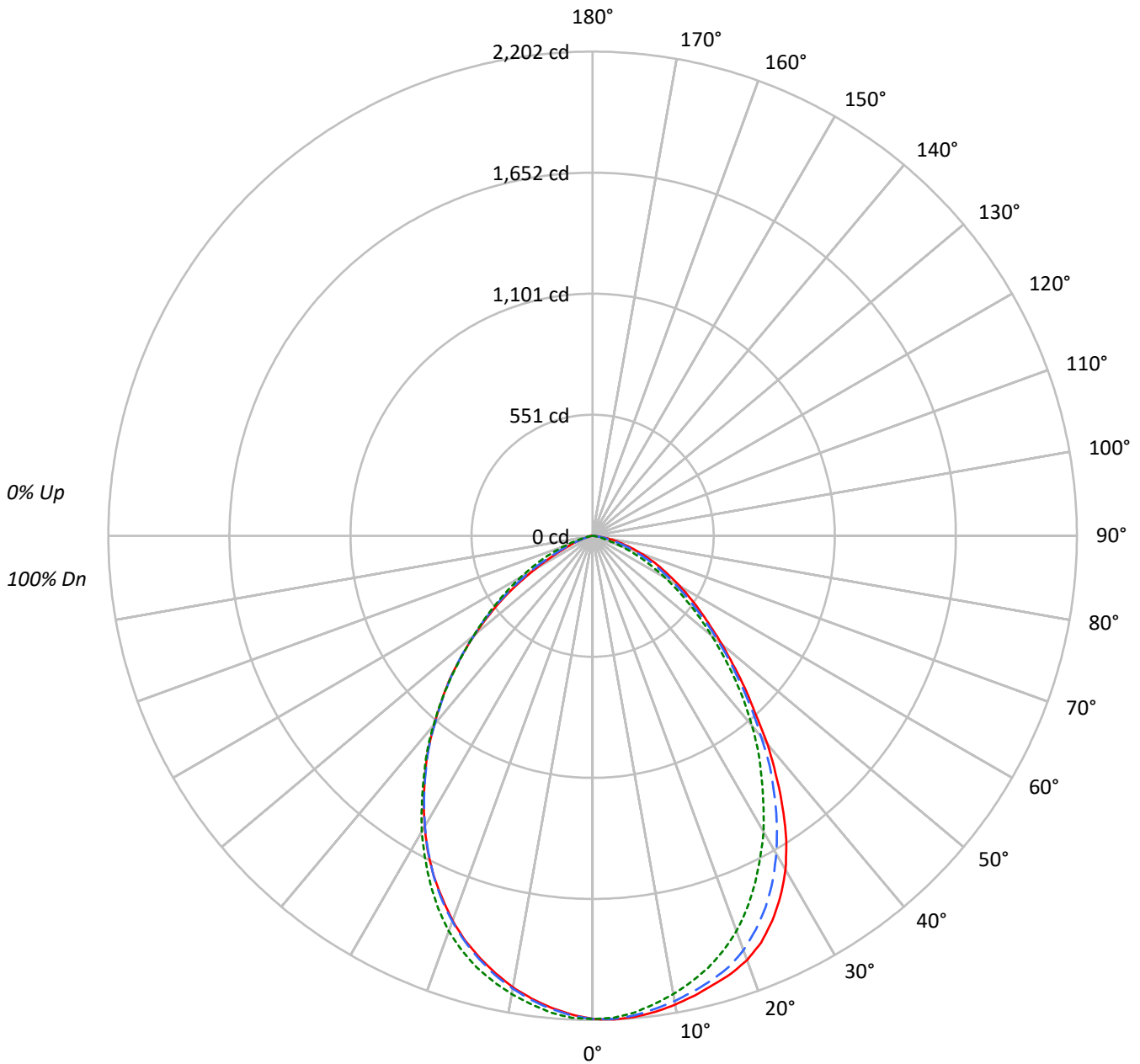
Lumens per Lamp: N/A
Luminaire Lumens: 3996.6 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P563947

CATALOG NUMBER: LX6C45D010 EX6C459030 6LBLWWH

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°	120451	120451	120451
5°	120867	119772	118589
10°	120500	117828	116102
15°	120046	115392	112713
20°	119775	111590	108620
25°	116868	105605	103282
30°	111036	98363	96724
35°	100779	89556	88968
40°	88423	80594	80172
45°	75806	70426	71000
50°	65252	60024	59708
55°	57040	50684	47578
60°	50117	41543	32465
65°	43870	32195	19535
70°	37394	21670	11476
75°	30183	11268	6248
80°	20962	4420	3504
85°	8366	1384	1824



TEST NUMBER: P563947

CATALOG NUMBER: LX6C45D010 EX6C459030 6LBLWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.9	5.2
10°-20°	574.9	14.4
20°-30°	818.1	20.5
30°-40°	861.1	21.5
40°-50°	717.6	18.0
50°-60°	484.8	12.1
60°-70°	245.8	6.2
70°-80°	79.3	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°	1598.9	40.0
0°-40°	2459.9	61.6
0°-60°	3662.3	91.6
0°-90°	3996.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3996.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2197	2197	2197	2197	2197	
5°	2196	2190	2176	2160	2155	209
15°	2115	2092	2033	1993	1986	598
25°	1932	1862	1746	1710	1708	885
35°	1506	1441	1338	1325	1329	937
45°	978	953	908	912	916	757
55°	597	568	530	514	498	537
65°	338	305	248	179	151	337
75°	142	112	53	29	30	154
85°	13	7	2	3	3	23
90°	0	0	0	0	0	



TEST NUMBER: P563947

CATALOG NUMBER: LX6C45D010 EX6C459030 6LBLWWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2197.2	2197.2	2197.2	2197.2	2197.2	2197.2	2197.2	2197.2	2197.2	2197.2	2197.2
2.5°	2202.3	2202.3	2202.3	2202.3	2202.3	2202.3	2201.6	2201.6	2200.1	2200.1	2199.4
5°	2196.4	2197.2	2197.2	2196.4	2196.4	2194.9	2194.9	2194.2	2192.0	2190.5	2189.8
7.5°	2183.8	2183.8	2183.1	2182.4	2181.7	2179.5	2178.7	2176.5	2175.0	2173.6	2170.6
10°	2164.7	2164.7	2163.9	2162.5	2161.8	2160.2	2160.2	2157.3	2154.3	2150.7	2148.4
12.5°	2141.8	2142.5	2141.0	2140.3	2138.1	2137.3	2135.9	2132.2	2129.9	2125.5	2121.9
15°	2115.2	2116.7	2116.7	2113.7	2111.5	2110.8	2108.6	2106.3	2101.1	2096.8	2092.3
17.5°	2089.3	2090.9	2089.3	2087.1	2085.0	2082.0	2080.5	2076.0	2069.4	2063.5	2056.9
20°	2053.1	2055.4	2052.4	2048.7	2044.3	2043.6	2041.3	2034.0	2024.3	2015.5	2005.9
22.5°	2002.2	2000.7	1998.5	1997.1	1989.6	1985.2	1982.2	1972.7	1962.3	1950.5	1938.7
25°	1932.1	1935.0	1930.5	1923.9	1920.2	1915.8	1908.4	1898.1	1888.4	1875.9	1861.9
27.5°	1849.3	1849.3	1843.4	1841.2	1833.1	1827.2	1823.4	1813.2	1800.5	1788.0	1772.5
30°	1754.1	1749.6	1749.6	1739.3	1732.6	1730.4	1726.7	1709.7	1698.6	1685.4	1669.8
32.5°	1638.8	1638.1	1635.1	1628.5	1619.6	1612.3	1612.3	1600.5	1585.6	1569.4	1559.8
35°	1505.9	1506.7	1505.2	1497.7	1497.7	1488.9	1487.5	1477.1	1465.3	1452.8	1440.9
37.5°	1368.5	1371.5	1368.5	1364.9	1362.6	1361.8	1355.2	1347.9	1338.9	1331.6	1322.8
40°	1235.6	1231.1	1232.6	1225.2	1226.0	1224.5	1221.6	1212.0	1206.8	1199.4	1189.8
42.5°	1092.3	1096.7	1098.2	1093.8	1092.3	1089.3	1092.3	1088.6	1082.7	1079.0	1070.2
45°	977.8	973.4	975.6	974.2	974.9	969.0	966.7	965.3	963.1	956.4	952.7
47.5°	864.1	864.8	864.1	861.2	859.6	859.6	856.7	852.3	852.3	847.8	844.9
50°	765.1	765.1	766.6	762.9	761.5	758.5	759.2	754.8	751.8	748.2	745.9
52.5°	674.3	675.0	672.1	672.8	671.4	671.4	668.4	665.5	662.5	655.8	654.4
55°	596.8	597.5	593.7	595.3	590.8	588.7	587.1	582.8	582.8	576.0	567.9
57.5°	524.4	523.7	522.8	520.7	517.8	515.5	513.3	508.1	505.9	501.5	494.9
60°	457.1	456.4	455.0	454.2	451.9	446.9	446.9	443.1	435.8	431.3	424.7
62.5°	393.7	393.7	392.9	390.7	388.5	386.2	384.8	381.9	374.4	369.2	363.3
65°	338.2	337.5	335.3	331.6	330.1	330.1	325.0	322.8	316.9	311.7	305.1
67.5°	285.1	282.2	280.6	281.4	277.0	277.0	272.5	268.8	263.7	254.8	249.6
70°	233.3	231.9	230.4	229.0	228.3	225.2	223.1	218.6	213.4	206.8	198.7
72.5°	186.9	186.9	184.6	183.2	181.0	178.0	176.5	172.8	166.9	159.5	153.6
75°	142.5	142.5	142.5	139.6	138.1	136.6	132.2	130.0	123.4	118.9	111.5
77.5°	104.9	103.3	101.2	100.4	99.0	97.4	95.3	91.5	85.6	80.5	76.1
80°	66.4	68.7	66.4	66.4	62.8	61.3	60.5	56.1	53.9	49.4	45.8
82.5°	36.9	37.6	36.2	35.5	33.3	32.4	32.4	29.5	28.1	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



TEST NUMBER: P563947

CATALOG NUMBER: LX6C45D010 EX6C459030 6LBLWWH

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2197.2	2197.2	2197.2	2197.2	2197.2	2197.2	2197.2	2197.2	2197.2	2197.2	2197.2
2.5°	2199.4	2197.9	2197.9	2197.2	2196.4	2196.4	2196.4	2195.7	2194.2	2194.2	2193.5
5°	2188.3	2186.9	2184.6	2183.1	2182.4	2181.7	2180.9	2180.2	2177.2	2176.5	2174.3
7.5°	2168.4	2166.8	2163.2	2161.8	2159.5	2158.8	2155.9	2154.3	2151.4	2148.4	2146.9
10°	2144.8	2141.0	2138.1	2134.4	2132.9	2130.7	2127.0	2122.6	2120.4	2116.7	2113.7
12.5°	2118.1	2113.7	2107.8	2103.4	2101.9	2098.2	2092.3	2088.6	2083.4	2077.5	2072.3
15°	2085.0	2079.8	2074.6	2066.4	2064.2	2059.8	2053.9	2046.5	2039.1	2033.2	2027.3
17.5°	2048.7	2040.6	2032.5	2023.6	2017.0	2014.8	2005.1	1994.8	1988.1	1977.8	1971.1
20°	1997.8	1986.7	1973.4	1964.5	1958.6	1952.0	1940.9	1929.8	1921.7	1912.8	1903.2
22.5°	1927.6	1917.2	1901.8	1888.4	1884.1	1874.4	1864.8	1854.5	1844.2	1834.5	1822.7
25°	1844.9	1833.8	1818.2	1805.0	1797.6	1793.2	1774.7	1764.3	1754.1	1745.9	1737.8
27.5°	1760.0	1740.0	1729.6	1709.0	1702.4	1700.9	1683.9	1672.8	1661.7	1650.6	1640.3
30°	1655.1	1639.5	1624.1	1609.3	1600.5	1595.3	1582.7	1568.6	1561.3	1553.9	1543.6
32.5°	1546.6	1532.5	1513.3	1499.3	1492.6	1485.2	1474.1	1464.6	1453.5	1445.3	1443.1
35°	1430.6	1415.0	1398.8	1388.5	1387.0	1378.1	1367.0	1358.9	1350.8	1338.2	1336.0
37.5°	1306.5	1297.6	1286.6	1271.8	1265.1	1265.1	1254.0	1248.1	1237.8	1237.0	1231.1
40°	1184.6	1181.0	1164.0	1159.5	1158.1	1147.7	1144.8	1134.4	1127.1	1126.2	1117.4
42.5°	1064.2	1054.6	1051.7	1044.3	1037.6	1036.2	1029.5	1025.1	1022.2	1017.7	1013.2
45°	944.6	942.3	935.0	929.8	927.6	924.6	922.4	913.5	912.1	908.4	906.2
47.5°	841.2	835.3	828.6	822.7	822.0	817.5	812.4	812.4	804.3	803.5	802.1
50°	738.6	734.1	730.5	722.3	723.7	717.8	717.1	710.5	706.8	703.8	707.6
52.5°	648.5	639.6	638.1	631.5	629.2	630.0	621.8	619.7	618.2	615.2	613.8
55°	562.8	558.3	552.4	548.0	544.3	540.6	537.7	537.7	529.6	530.3	526.6
57.5°	487.4	483.8	476.4	469.7	468.2	463.8	460.1	456.4	455.7	450.5	446.9
60°	420.2	413.6	404.0	401.0	396.6	392.9	389.2	384.8	382.6	378.9	372.2
62.5°	357.4	346.4	342.7	336.8	331.6	329.4	323.5	318.3	314.6	309.4	304.2
65°	297.6	289.5	282.9	276.2	275.5	269.6	264.4	260.0	252.6	248.2	238.5
67.5°	243.0	235.6	228.3	221.5	216.4	214.9	206.8	201.6	196.4	187.6	179.4
70°	192.8	185.3	179.4	171.3	169.2	163.3	157.3	152.2	143.3	135.2	128.5
72.5°	147.0	138.8	132.2	126.3	122.6	117.4	111.5	105.6	96.7	88.6	82.7
75°	104.9	99.0	92.4	86.4	83.4	80.5	73.8	67.2	61.3	53.2	48.0
77.5°	70.9	65.0	59.1	53.9	50.2	48.0	43.5	38.5	33.3	28.8	25.1
80°	41.4	37.6	33.3	28.8	28.1	25.8	22.2	19.2	16.3	14.0	11.1
82.5°	19.9	17.7	14.7	12.5	11.1	10.4	8.8	7.4	5.9	5.2	5.2
85°	5.9	5.2	4.5	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



TEST NUMBER: P563947

CATALOG NUMBER: LX6C45D010 EX6C459030 6LBLWWH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2197.2	2197.2	2197.2	2197.2	2197.2	2197.2	2197.2	2197.2	2197.2	2197.2	2197.2
2.5°	2191.3	2190.5	2189.8	2189.0	2187.6	2187.6	2185.4	2183.8	2183.8	2182.4	2181.7
5°	2172.0	2169.9	2169.1	2167.7	2166.1	2165.4	2162.5	2161.8	2160.2	2158.8	2158.8
7.5°	2144.8	2141.8	2138.9	2137.3	2136.6	2134.4	2132.9	2132.2	2129.9	2128.5	2125.5
10°	2108.6	2106.3	2102.7	2101.1	2099.7	2098.2	2094.5	2092.3	2091.6	2090.0	2088.6
12.5°	2066.4	2063.5	2059.8	2056.9	2055.4	2053.1	2049.5	2047.2	2047.2	2044.3	2044.3
15°	2021.4	2017.0	2010.3	2007.3	2006.6	2002.2	1999.2	1996.3	1992.6	1991.1	1991.1
17.5°	1963.8	1956.4	1950.5	1950.5	1947.5	1943.2	1938.7	1936.4	1934.2	1931.3	1929.8
20°	1895.9	1890.7	1884.1	1884.1	1877.3	1875.9	1871.4	1870.7	1865.5	1866.3	1864.1
22.5°	1813.9	1810.9	1807.3	1804.3	1800.5	1796.2	1793.9	1794.6	1792.4	1791.7	1791.0
25°	1731.2	1723.0	1718.6	1717.1	1715.6	1711.9	1710.4	1709.7	1709.7	1707.5	1708.3
27.5°	1635.9	1630.0	1624.1	1626.3	1623.3	1621.1	1619.6	1617.4	1618.9	1618.2	1618.9
30°	1538.4	1531.0	1527.3	1528.7	1528.0	1522.1	1525.1	1524.4	1525.1	1525.1	1526.6
32.5°	1435.8	1430.6	1429.8	1430.6	1423.9	1424.7	1421.7	1426.1	1426.8	1431.3	1427.6
35°	1331.6	1328.7	1323.5	1322.8	1323.5	1322.8	1322.8	1325.7	1324.9	1329.4	1327.9
37.5°	1224.5	1223.0	1217.9	1219.3	1216.4	1221.6	1223.0	1221.6	1226.7	1225.2	1224.5
40°	1119.6	1117.4	1114.4	1120.3	1116.7	1113.7	1118.9	1114.4	1116.0	1120.3	1120.3
42.5°	1013.2	1009.6	1009.6	1009.6	1008.9	1008.9	1011.1	1013.2	1011.8	1012.5	1018.4
45°	906.2	905.4	903.3	904.7	904.0	907.6	907.6	909.2	912.1	915.1	913.5
47.5°	802.8	801.4	803.5	802.1	802.8	800.5	802.1	806.5	810.2	805.0	810.2
50°	706.0	703.1	702.4	704.6	703.8	703.1	704.6	704.6	703.1	703.1	708.3
52.5°	613.8	610.7	608.6	612.3	610.0	610.7	607.8	607.8	609.3	607.8	605.6
55°	527.3	525.1	522.1	523.7	519.9	519.2	516.2	516.2	514.0	512.6	508.1
57.5°	444.6	443.1	436.5	435.8	436.5	431.3	426.1	424.0	418.0	416.5	415.8
60°	371.5	363.3	359.7	355.2	352.3	350.1	344.1	340.5	331.6	326.4	325.7
62.5°	295.4	291.7	287.3	280.6	279.1	271.8	265.9	256.2	251.9	245.2	238.5
65°	234.2	224.5	217.9	214.2	208.2	201.6	195.0	184.6	179.4	171.3	164.7
67.5°	171.3	163.3	154.3	151.4	146.3	138.1	131.4	122.6	118.2	110.8	108.5
70°	117.4	110.1	103.3	99.0	95.3	87.2	80.5	77.5	73.1	71.6	71.6
72.5°	75.4	68.7	61.3	59.1	56.1	51.7	47.3	45.8	47.3	46.5	46.5
75°	42.1	38.5	33.3	31.0	31.0	29.5	28.8	28.8	28.8	28.8	28.8
77.5°	21.5	19.2	17.7	17.0	17.0	17.0	17.7	17.7	17.7	18.5	17.7
80°	10.4	9.6	9.6	9.6	10.4	10.4	10.4	10.4	10.4	11.1	10.4
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: P563947

CATALOG NUMBER: LX6C45D010 EX6C459030 6LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2197.2	2197.2	2197.2	2197.2	2197.2	2197.2	2197.2	2197.2
2.5°	2180.9	2179.5	2179.5	2178.7	2178.7	2178.7	2178.7	2179.5
5°	2157.3	2156.6	2156.6	2155.0	2155.0	2155.0	2155.0	2155.0
7.5°	2125.5	2124.0	2124.8	2123.3	2123.3	2124.0	2123.3	2122.6
10°	2086.4	2085.7	2086.4	2086.4	2085.0	2084.1	2085.0	2085.7
12.5°	2042.0	2041.3	2039.9	2040.6	2040.6	2039.9	2039.1	2037.7
15°	1990.4	1989.6	1988.9	1988.1	1987.4	1988.1	1987.4	1986.0
17.5°	1929.8	1929.8	1929.1	1928.3	1927.6	1926.2	1926.9	1929.1
20°	1864.8	1864.1	1862.6	1863.3	1860.4	1858.9	1859.6	1861.9
22.5°	1790.3	1788.0	1789.5	1787.3	1787.3	1788.0	1787.3	1785.8
25°	1709.0	1706.0	1707.5	1708.3	1708.3	1707.5	1706.8	1707.5
27.5°	1618.9	1621.1	1621.1	1619.6	1621.8	1618.9	1620.4	1621.1
30°	1526.6	1524.4	1523.7	1526.6	1531.0	1527.3	1527.3	1528.0
32.5°	1431.3	1428.4	1428.4	1429.8	1429.1	1429.1	1432.0	1428.4
35°	1329.4	1330.9	1324.9	1328.7	1330.1	1328.7	1329.4	1329.4
37.5°	1226.7	1225.2	1225.2	1225.2	1227.5	1227.5	1229.0	1228.2
40°	1125.5	1122.6	1121.9	1123.3	1120.3	1122.6	1122.6	1120.3
42.5°	1016.3	1017.0	1020.7	1017.0	1017.7	1017.0	1015.5	1014.8
45°	915.1	917.3	915.8	915.1	915.8	912.8	913.5	915.8
47.5°	808.0	812.4	808.0	810.9	810.2	808.7	807.2	804.3
50°	707.6	709.0	708.3	707.6	706.8	706.0	702.4	700.1
52.5°	604.8	604.8	604.8	604.8	597.5	601.2	599.7	595.3
55°	504.4	506.7	503.7	503.7	498.5	498.5	497.0	497.8
57.5°	407.7	405.5	403.2	403.2	398.0	395.9	393.7	390.7
60°	317.6	315.3	312.4	308.7	303.5	303.5	302.1	296.1
62.5°	232.6	229.0	226.7	223.8	219.3	216.4	214.2	215.6
65°	159.5	155.8	152.9	152.9	152.9	151.4	150.6	150.6
67.5°	104.9	107.1	105.6	107.1	107.1	105.6	104.9	106.4
70°	72.4	72.4	71.6	71.6	71.6	71.6	70.9	71.6
72.5°	46.5	46.5	46.5	47.3	46.5	46.5	47.3	47.3
75°	29.5	29.5	29.5	30.3	29.5	29.5	30.3	29.5
77.5°	17.7	18.5	18.5	18.5	18.5	17.7	18.5	18.5
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)