

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: P684268

Luminaire Tested: **LX6C40D010 EX6C409035 6LCSWH**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P684268
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P252284)
Test Lab: INNOVATION CENTER
Issue Date: 2/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX6C40D010 EX6C409035 6LCSWH
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

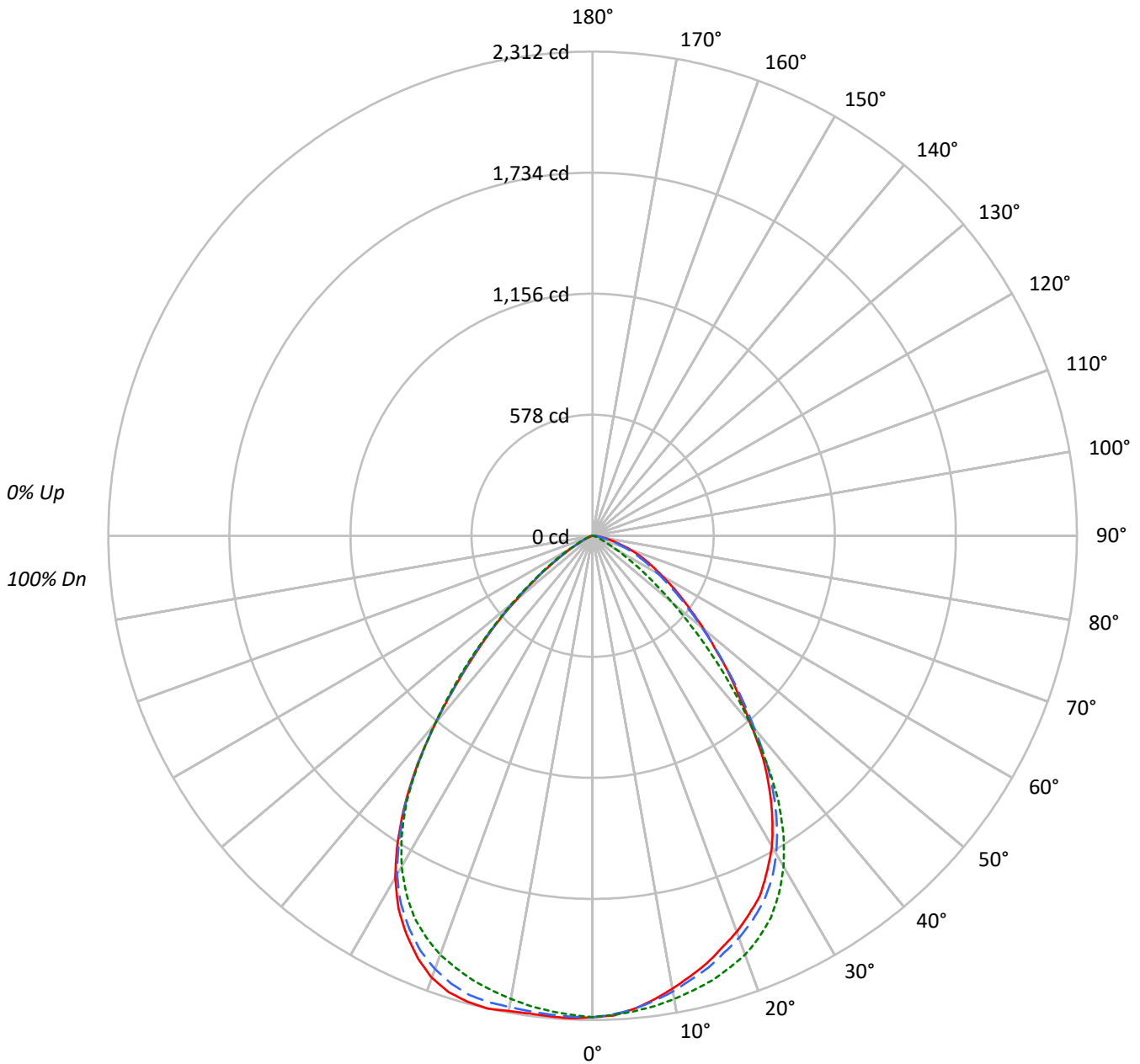
Lumens per Lamp: N/A
Luminaire Lumens: 3856.0 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80																			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72																			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64																			
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58																			
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52																			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47																			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43																			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40																			
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	126004	126004	126004
5°	124802	125407	126788
10°	122226	125003	128254
15°	119887	124774	130761
20°	117400	124202	131005
25°	114509	121725	127102
30°	108422	115442	119309
35°	98457	103476	104400
40°	84029	83628	83235
45°	70581	62619	60688
50°	58949	42378	40246
55°	49614	25997	23617
60°	42003	13694	11863
65°	36372	7199	5759
70°	30245	4456	3109
75°	22346	2944	1779
80°	17521	1736	884
85°	13964	1761	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.6	5.6
10°-20°	620.2	16.1
20°-30°	915.8	23.8
30°-40°	943.9	24.5
40°-50°	651.9	16.9
50°-60°	321.3	8.3
60°-70°	130.2	3.4
70°-80°	46.4	1.2
80°-90°	9.6	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°	1752.7	45.5
0°-40°	2696.5	69.9
0°-60°	3669.8	95.2
0°-90°	3856.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3856.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2298	2298	2298	2298	2298	
5°	2268	2268	2279	2296	2304	214
15°	2112	2135	2198	2271	2304	595
25°	1893	1929	2012	2071	2101	865
35°	1471	1507	1546	1554	1560	912
45°	910	916	808	797	783	704
55°	519	500	272	255	247	469
65°	280	253	56	44	44	278
75°	106	89	14	8	8	118
85°	22	17	3	0	0	27
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°	2298.5	2298.5	2298.5	2298.5	2298.5	2298.5	2298.5	2298.5	2298.5	2298.5	2298.5
2.5°	2292.8	2284.6	2290.1	2278.9	2292.8	2278.9	2281.8	2284.6	2281.8	2284.6	2287.3
5°	2267.9	2259.5	2267.9	2254.0	2267.9	2259.5	2259.5	2262.3	2262.3	2265.1	2267.9
7.5°	2234.6	2226.2	2234.6	2220.7	2237.3	2229.0	2229.0	2234.6	2231.8	2234.6	2240.1
10°	2195.7	2184.6	2192.9	2184.6	2201.3	2190.1	2195.7	2195.7	2195.7	2204.0	2209.6
12.5°	2154.1	2142.9	2154.1	2140.2	2156.8	2148.6	2151.3	2159.6	2162.3	2168.0	2170.7
15°	2112.4	2098.6	2104.1	2095.7	2112.4	2104.1	2106.9	2118.0	2118.0	2126.3	2134.7
17.5°	2059.7	2048.6	2059.7	2048.6	2062.4	2056.9	2062.4	2070.8	2070.8	2079.1	2087.4
20°	2012.4	2001.4	2009.7	2001.4	2018.1	2009.7	2012.4	2023.6	2026.3	2034.7	2043.0
22.5°	1954.2	1945.8	1951.4	1943.1	1959.7	1954.2	1957.0	1968.1	1970.9	1976.4	1990.3
25°	1893.1	1876.4	1884.8	1879.2	1895.9	1887.6	1893.1	1904.2	1909.8	1918.1	1929.2
27.5°	1804.3	1795.9	1801.5	1801.5	1815.4	1807.1	1809.8	1821.0	1829.2	1837.6	1851.5
30°	1712.8	1698.9	1704.4	1707.1	1718.3	1712.8	1718.3	1729.3	1732.2	1743.2	1754.3
32.5°	1596.2	1590.5	1601.7	1596.2	1601.7	1601.7	1604.4	1612.7	1618.3	1623.9	1637.8
35°	1471.2	1460.1	1471.2	1465.7	1479.6	1471.2	1479.6	1487.9	1487.9	1499.0	1507.3
37.5°	1335.2	1321.3	1326.8	1326.8	1332.4	1329.7	1329.7	1343.5	1346.3	1354.6	1363.0
40°	1174.2	1168.6	1179.8	1176.9	1179.8	1179.8	1182.5	1190.8	1196.4	1199.2	1202.0
42.5°	1029.9	1032.6	1035.4	1035.4	1035.4	1035.4	1035.4	1046.5	1043.7	1052.1	1054.8
45°	910.4	899.4	904.9	902.2	910.4	902.2	910.4	918.8	913.3	921.6	916.0
47.5°	788.3	788.3	788.3	785.6	791.1	788.3	793.8	796.7	796.7	796.7	793.8
50°	691.2	682.9	685.6	685.6	688.4	685.6	691.2	694.0	694.0	688.4	677.4
52.5°	596.8	594.1	594.1	599.6	599.6	596.8	596.8	596.8	596.8	588.5	582.9
55°	519.1	513.6	516.3	516.3	516.3	516.3	519.1	516.3	516.3	507.9	499.7
57.5°	449.7	444.2	444.2	444.2	446.9	444.2	444.2	444.2	441.3	433.0	421.9
60°	383.1	380.3	383.1	383.1	385.8	383.1	383.1	383.1	377.6	369.2	358.0
62.5°	327.6	327.6	327.6	330.3	330.3	327.6	327.6	324.7	322.0	310.9	299.8
65°	280.4	277.6	280.4	280.4	283.1	283.1	280.4	277.6	274.8	263.7	252.6
67.5°	233.2	230.4	233.2	233.2	235.9	233.2	233.2	233.2	224.8	219.3	208.1
70°	188.7	186.0	186.0	186.0	188.7	183.2	186.0	186.0	180.5	172.1	161.0
72.5°	144.4	144.4	144.4	144.4	144.4	144.4	141.5	141.5	136.0	127.7	122.1
75°	105.5	105.5	108.2	108.2	105.5	105.5	105.5	102.7	99.9	94.4	88.8
77.5°	77.8	77.8	77.8	77.8	74.9	74.9	74.9	72.1	69.4	66.6	61.1
80°	55.5	55.5	55.5	52.7	55.5	52.7	52.7	52.7	47.2	44.4	41.6
82.5°	38.8	36.1	36.1	36.1	36.1	36.1	36.1	33.3	33.3	30.6	27.8
85°	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	19.4	16.7	16.7
87.5°	11.1	13.9	13.9	13.9	13.9	13.9	13.9	11.1	11.1	11.1	8.4
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°	2298.5	2298.5	2298.5	2298.5	2298.5	2298.5	2298.5	2298.5	2298.5	2298.5	2298.5
2.5°	2287.3	2287.3	2292.8	2284.6	2298.5	2290.1	2287.3	2301.2	2292.8	2290.1	2295.6
5°	2267.9	2270.7	2273.4	2267.9	2281.8	2273.4	2273.4	2287.3	2281.8	2278.9	2287.3
7.5°	2242.9	2245.6	2251.2	2248.5	2259.5	2254.0	2256.8	2270.7	2265.1	2265.1	2273.4
10°	2212.3	2217.9	2223.5	2223.5	2237.3	2231.8	2231.8	2248.5	2242.9	2245.6	2256.8
12.5°	2176.2	2184.6	2192.9	2195.7	2209.6	2201.3	2204.0	2223.5	2220.7	2223.5	2234.6
15°	2137.4	2148.6	2156.8	2156.8	2173.5	2165.2	2173.5	2192.9	2187.4	2198.5	2212.3
17.5°	2093.0	2104.1	2115.2	2118.0	2134.7	2129.0	2140.2	2159.6	2159.6	2165.2	2181.9
20°	2051.4	2065.3	2070.8	2079.1	2095.7	2093.0	2098.6	2120.8	2120.8	2129.0	2145.7
22.5°	1995.8	2009.7	2020.8	2029.1	2043.0	2043.0	2051.4	2070.8	2070.8	2076.3	2093.0
25°	1934.8	1951.4	1959.7	1968.1	1982.0	1979.1	1987.5	2004.2	2006.9	2012.4	2029.1
27.5°	1857.0	1870.9	1882.1	1887.6	1907.0	1895.9	1904.2	1923.7	1920.9	1926.4	1940.3
30°	1759.9	1773.8	1784.9	1784.9	1801.5	1801.5	1809.8	1818.2	1818.2	1823.7	1834.9
32.5°	1646.0	1662.8	1662.8	1671.1	1682.2	1671.1	1682.2	1693.2	1687.7	1696.0	1704.4
35°	1515.6	1523.9	1526.7	1526.7	1535.1	1532.3	1529.5	1537.8	1532.3	1546.2	1554.5
37.5°	1357.4	1368.5	1363.0	1368.5	1365.7	1357.4	1357.4	1371.3	1360.1	1363.0	1371.3
40°	1204.7	1204.7	1202.0	1188.1	1190.8	1182.5	1179.8	1182.5	1171.4	1168.6	1179.8
42.5°	1046.5	1043.7	1035.4	1016.0	1018.7	1004.8	993.7	993.7	988.2	985.4	988.2
45°	904.9	896.6	882.7	860.6	854.9	843.8	821.6	816.1	807.7	807.7	810.6
47.5°	774.4	763.4	741.1	716.2	702.3	688.4	666.2	657.8	644.0	638.4	644.0
50°	666.2	646.8	619.0	582.9	569.0	552.4	530.2	516.3	502.4	496.9	494.1
52.5°	566.3	538.5	510.8	466.4	455.2	438.6	408.0	394.2	380.3	369.2	369.2
55°	480.2	455.2	416.4	374.7	358.0	341.4	310.9	291.4	277.6	272.0	266.5
57.5°	402.5	374.7	338.6	294.3	277.6	261.0	230.4	211.0	197.1	188.7	183.2
60°	338.6	308.1	272.0	233.2	213.8	197.1	166.6	147.1	133.2	124.9	119.3
62.5°	277.6	252.6	216.5	180.5	163.8	147.1	122.1	102.7	88.8	83.3	74.9
65°	233.2	208.1	174.8	144.4	130.5	113.8	91.7	74.9	63.9	55.5	50.0
67.5°	188.7	169.3	141.5	113.8	99.9	88.8	69.4	55.5	44.4	38.8	36.1
70°	149.9	130.5	108.2	86.0	77.8	66.6	52.7	38.8	33.3	27.8	24.9
72.5°	111.1	97.2	80.5	63.9	55.5	50.0	36.1	30.6	22.2	19.4	16.7
75°	80.5	69.4	58.2	44.4	38.8	36.1	27.8	19.4	16.7	13.9	11.1
77.5°	55.5	50.0	38.8	30.6	27.8	24.9	19.4	13.9	11.1	8.4	8.4
80°	36.1	30.6	24.9	19.4	19.4	16.7	11.1	8.4	8.4	5.5	5.5
82.5°	22.2	19.4	16.7	13.9	11.1	11.1	8.4	5.5	5.5	2.8	2.8
85°	13.9	11.1	8.4	8.4	5.5	5.5	5.5	2.8	2.8	2.8	2.8
87.5°	5.5	5.5	5.5	2.8	2.8	2.8	2.8	0.0	0.0	0.0	0.0
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°	2298.5	2298.5	2298.5	2298.5	2298.5	2298.5	2298.5	2298.5	2298.5	2298.5	2298.5
2.5°	2295.6	2295.6	2301.2	2292.8	2298.5	2298.5	2304.0	2292.8	2298.5	2301.2	2306.7
5°	2284.6	2287.3	2292.8	2290.1	2292.8	2292.8	2298.5	2284.6	2295.6	2295.6	2304.0
7.5°	2273.4	2273.4	2278.9	2276.2	2281.8	2284.6	2290.1	2278.9	2290.1	2290.1	2298.5
10°	2259.5	2259.5	2267.9	2265.1	2273.4	2276.2	2284.6	2273.4	2284.6	2287.3	2295.6
12.5°	2240.1	2242.9	2251.2	2251.2	2259.5	2265.1	2273.4	2267.9	2281.8	2284.6	2295.6
15°	2217.9	2223.5	2234.6	2231.8	2240.1	2248.5	2259.5	2251.2	2270.7	2276.2	2287.3
17.5°	2190.1	2195.7	2204.0	2204.0	2212.3	2217.9	2231.8	2226.2	2242.9	2245.6	2259.5
20°	2148.6	2156.8	2168.0	2165.2	2173.5	2179.0	2190.1	2184.6	2201.3	2206.8	2220.7
22.5°	2098.6	2104.1	2112.4	2112.4	2120.8	2126.3	2137.4	2129.0	2145.7	2148.6	2159.6
25°	2032.0	2037.5	2043.0	2045.8	2054.1	2056.9	2062.4	2056.9	2070.8	2073.6	2087.4
27.5°	1945.8	1948.7	1957.0	1957.0	1962.5	1965.3	1973.6	1962.5	1982.0	1982.0	1990.3
30°	1843.1	1840.4	1851.5	1845.9	1851.5	1851.5	1859.8	1854.3	1868.2	1862.6	1870.9
32.5°	1707.1	1712.8	1712.8	1707.1	1718.3	1715.5	1715.5	1709.9	1718.3	1721.0	1726.5
35°	1549.0	1557.2	1557.2	1560.0	1562.9	1554.5	1557.2	1540.6	1554.5	1557.2	1560.0
37.5°	1376.8	1368.5	1374.0	1365.7	1379.6	1363.0	1363.0	1351.9	1363.0	1363.0	1365.7
40°	1179.8	1176.9	1182.5	1176.9	1174.2	1171.4	1165.9	1157.5	1168.6	1163.1	1171.4
42.5°	993.7	990.9	990.9	985.4	982.7	982.7	977.1	971.5	968.8	968.8	982.7
45°	802.2	807.7	802.2	799.5	805.0	799.5	802.2	791.1	796.7	791.1	796.7
47.5°	641.2	644.0	638.4	632.9	641.2	632.9	632.9	624.5	635.7	635.7	630.1
50°	496.9	494.1	488.5	494.1	491.3	491.3	491.3	483.0	488.5	480.2	485.8
52.5°	366.4	363.7	363.7	360.9	363.7	360.9	360.9	358.0	358.0	355.3	358.0
55°	266.5	263.7	258.1	258.1	258.1	261.0	258.1	255.4	255.4	252.6	255.4
57.5°	180.5	174.8	174.8	174.8	174.8	172.1	172.1	169.3	172.1	169.3	172.1
60°	116.6	116.6	111.1	111.1	111.1	111.1	111.1	108.2	111.1	111.1	111.1
62.5°	72.1	72.1	69.4	66.6	69.4	66.6	66.6	66.6	69.4	66.6	69.4
65°	47.2	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
67.5°	33.3	30.6	30.6	30.6	30.6	30.6	30.6	27.8	30.6	30.6	30.6
70°	22.2	22.2	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4
72.5°	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9
75°	11.1	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
77.5°	8.4	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
80°	5.5	5.5	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
82.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
85°	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
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: P684268

CATALOG NUMBER: LX6C40D010 EX6C409035 6LCSWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2298.5	2298.5	2298.5	2298.5	2298.5	2298.5	2298.5	2298.5
2.5°	2298.5	2301.2	2295.6	2298.5	2292.8	2298.5	2301.2	2306.7
5°	2292.8	2295.6	2290.1	2295.6	2290.1	2295.6	2298.5	2304.0
7.5°	2287.3	2292.8	2287.3	2292.8	2287.3	2292.8	2295.6	2301.2
10°	2287.3	2295.6	2290.1	2298.5	2290.1	2295.6	2301.2	2304.0
12.5°	2287.3	2295.6	2292.8	2298.5	2295.6	2301.2	2306.7	2312.2
15°	2281.8	2290.1	2284.6	2292.8	2290.1	2292.8	2304.0	2304.0
17.5°	2251.2	2259.5	2259.5	2265.1	2265.1	2273.4	2278.9	2284.6
20°	2212.3	2220.7	2217.9	2226.2	2226.2	2234.6	2240.1	2245.6
22.5°	2154.1	2165.2	2162.3	2170.7	2168.0	2173.5	2184.6	2181.9
25°	2079.1	2093.0	2090.2	2095.7	2093.0	2093.0	2098.6	2101.3
27.5°	1987.5	1995.8	1993.0	1998.7	1993.0	1998.7	2004.2	2006.9
30°	1868.2	1873.7	1870.9	1873.7	1870.9	1876.4	1879.2	1884.8
32.5°	1723.8	1732.2	1723.8	1729.3	1726.5	1726.5	1737.7	1732.2
35°	1551.7	1554.5	1557.2	1557.2	1551.7	1554.5	1560.0	1560.0
37.5°	1360.1	1374.0	1357.4	1365.7	1363.0	1363.0	1363.0	1371.3
40°	1160.3	1163.1	1157.5	1157.5	1157.5	1154.7	1165.9	1163.1
42.5°	971.5	974.3	971.5	963.3	966.0	966.0	974.3	963.3
45°	788.3	793.8	791.1	791.1	785.6	785.6	788.3	782.8
47.5°	624.5	630.1	621.8	624.5	619.0	624.5	621.8	627.4
50°	474.6	480.2	477.5	480.2	480.2	474.6	483.0	471.9
52.5°	355.3	358.0	355.3	352.5	349.8	349.8	355.3	352.5
55°	252.6	249.8	249.8	249.8	252.6	252.6	249.8	247.1
57.5°	169.3	169.3	166.6	166.6	169.3	163.8	166.6	163.8
60°	108.2	108.2	108.2	108.2	105.5	108.2	108.2	108.2
62.5°	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
65°	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
67.5°	27.8	30.6	30.6	30.6	27.8	27.8	27.8	27.8
70°	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4
72.5°	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9
75°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
77.5°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
80°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
82.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.8	2.8	2.8	2.8	2.8	0.0	0.0	0.0
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)