

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: P684379

Luminaire Tested: **LX6C50D010 EX6C509035 6LBLWWH**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P684379
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: LX6C50D010 EX6C509035 6LBLWWH
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

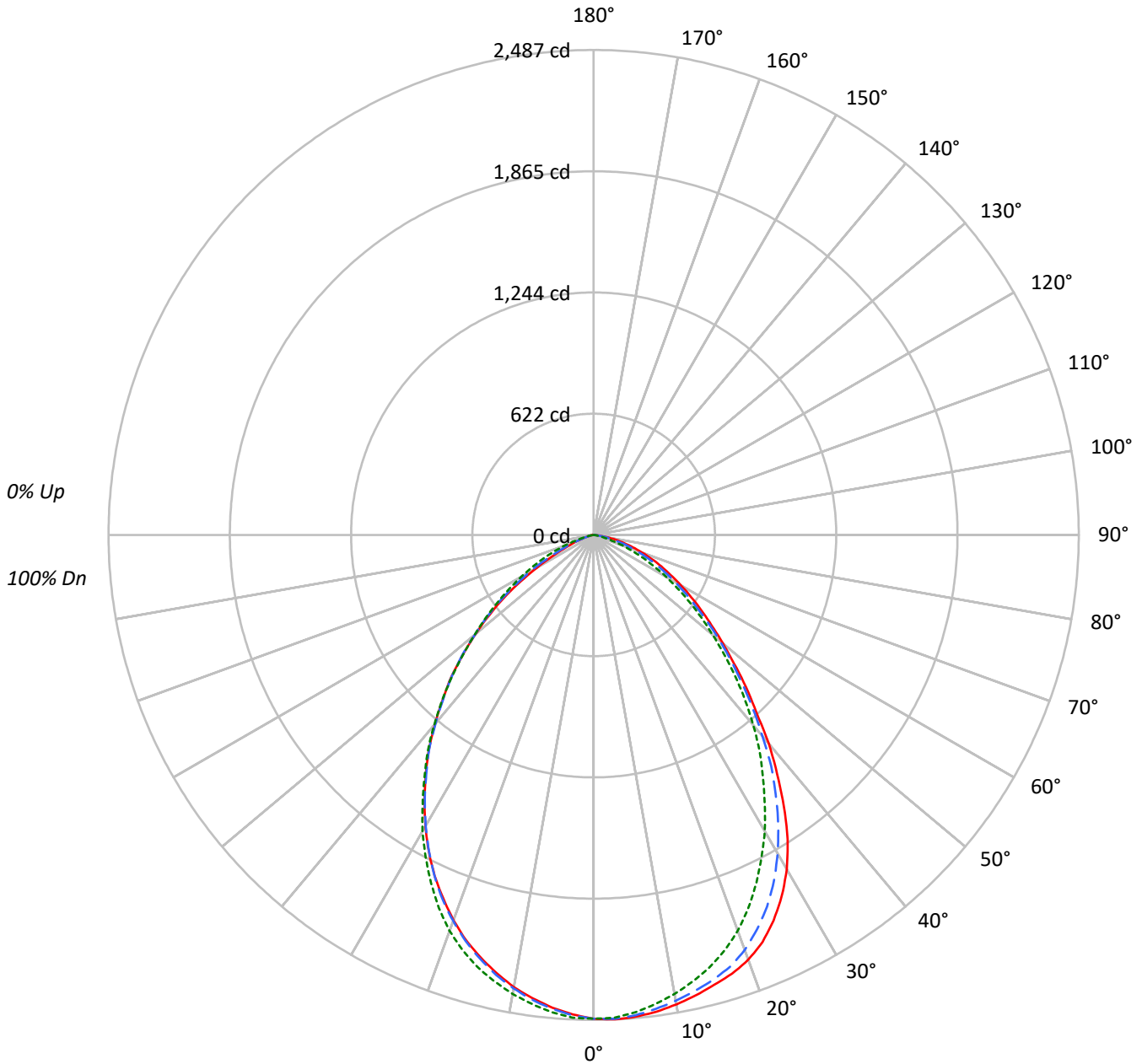
Lumens per Lamp: N/A
Luminaire Lumens: 4513.0 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
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°	136014	136014	136014
5°	136484	135246	133914
10°	136070	133053	131099
15°	135557	130302	127277
20°	135258	126011	122656
25°	131965	119251	116632
30°	125380	111074	109226
35°	113803	101134	100465
40°	99844	91013	90534
45°	85606	79528	80171
50°	73686	67785	67426
55°	64409	57231	53723
60°	56596	46904	36664
65°	49551	36346	22065
70°	42235	24459	12967
75°	34101	12709	7074
80°	23709	4988	3946
85°	9435	1572	2076



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.5	5.2
10°-20°	649.2	14.4
20°-30°	923.8	20.5
30°-40°	972.3	21.5
40°-50°	810.3	18.0
50°-60°	547.5	12.1
60°-70°	277.6	6.2
70°-80°	89.6	2.0
80°-90°	10.3	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°	1805.5	40.0
0°-40°	2777.8	61.6
0°-60°	4135.6	91.6
0°-90°	4513.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4513.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2481	2481	2481	2481	2481	
5°	2480	2473	2458	2439	2434	236
15°	2388	2363	2296	2250	2243	675
25°	2182	2102	1972	1931	1928	1000
35°	1700	1627	1511	1496	1501	1058
45°	1104	1076	1026	1030	1034	855
55°	674	641	599	580	562	607
65°	382	344	280	203	170	380
75°	161	126	60	32	33	174
85°	15	8	2	3	3	26
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°	2481.1	2481.1	2481.1	2481.1	2481.1	2481.1	2481.1	2481.1	2481.1	2481.1	2481.1
2.5°	2486.9	2486.9	2486.9	2486.9	2486.9	2486.9	2486.1	2486.1	2484.4	2484.4	2483.6
5°	2480.2	2481.1	2481.1	2480.2	2480.2	2478.6	2478.6	2477.7	2475.2	2473.6	2472.7
7.5°	2466.1	2466.1	2465.2	2464.4	2463.6	2461.1	2460.2	2457.7	2456.1	2454.4	2451.1
10°	2444.4	2444.4	2443.5	2441.9	2441.0	2439.4	2439.4	2436.0	2432.7	2428.5	2426.0
12.5°	2418.5	2419.4	2417.7	2416.9	2414.4	2413.5	2411.9	2407.7	2405.2	2400.2	2396.0
15°	2388.5	2390.2	2390.2	2386.8	2384.3	2383.5	2381.0	2378.5	2372.7	2367.7	2362.7
17.5°	2359.3	2361.0	2359.3	2356.8	2354.3	2351.0	2349.3	2344.3	2336.8	2330.1	2322.6
20°	2318.5	2321.0	2317.6	2313.4	2308.4	2307.6	2305.1	2296.8	2285.9	2275.9	2265.1
22.5°	2260.9	2259.2	2256.7	2255.1	2246.7	2241.7	2238.4	2227.5	2215.9	2202.5	2189.2
25°	2181.7	2185.0	2180.0	2172.5	2168.3	2163.3	2155.0	2143.3	2132.5	2118.3	2102.5
27.5°	2088.3	2088.3	2081.6	2079.1	2069.9	2063.3	2059.1	2047.4	2033.2	2019.1	2001.5
30°	1980.7	1975.7	1975.7	1964.0	1956.5	1954.0	1949.8	1930.7	1918.1	1903.1	1885.6
32.5°	1850.6	1849.8	1846.4	1838.9	1828.9	1820.6	1820.6	1807.2	1790.5	1772.2	1761.4
35°	1700.5	1701.3	1699.6	1691.3	1691.3	1681.3	1679.6	1668.0	1654.6	1640.4	1627.1
37.5°	1545.4	1548.7	1545.4	1541.2	1538.7	1537.9	1530.3	1522.0	1512.0	1503.7	1493.7
40°	1395.2	1390.2	1391.9	1383.6	1384.4	1382.7	1379.4	1368.6	1362.7	1354.4	1343.5
42.5°	1233.4	1238.5	1240.1	1235.1	1233.4	1230.1	1233.4	1229.3	1222.6	1218.4	1208.4
45°	1104.2	1099.2	1101.7	1100.0	1100.8	1094.2	1091.7	1090.0	1087.5	1080.0	1075.8
47.5°	975.8	976.6	975.8	972.4	970.7	970.7	967.4	962.4	962.4	957.4	954.1
50°	864.0	864.0	865.7	861.5	859.8	856.5	857.3	852.3	849.0	844.8	842.3
52.5°	761.4	762.3	758.9	759.8	758.1	758.1	754.7	751.4	748.1	740.6	738.9
55°	673.9	674.7	670.5	672.2	667.2	664.7	663.0	658.0	658.0	650.5	641.3
57.5°	592.1	591.3	590.5	588.0	584.6	582.1	579.6	573.8	571.3	566.3	558.8
60°	516.2	515.4	513.7	512.9	510.4	504.6	504.6	500.4	492.0	487.0	479.5
62.5°	444.5	444.5	443.7	441.2	438.7	436.2	434.5	431.2	422.8	417.0	410.3
65°	382.0	381.1	378.6	374.5	372.8	372.8	366.9	364.4	357.8	351.9	344.4
67.5°	321.9	318.6	316.9	317.7	312.7	312.7	307.7	303.6	297.7	287.7	281.9
70°	263.5	261.9	260.2	258.5	257.7	254.4	251.9	246.9	241.0	233.5	224.3
72.5°	211.0	211.0	208.5	206.8	204.3	201.0	199.3	195.2	188.5	180.1	173.5
75°	161.0	161.0	161.0	157.6	156.0	154.3	149.3	146.8	139.3	134.3	125.9
77.5°	118.4	116.8	114.3	113.4	111.8	110.1	107.6	103.4	96.7	90.9	85.9
80°	75.1	77.6	75.1	75.1	70.9	69.2	68.4	63.4	60.9	55.9	51.7
82.5°	41.7	42.5	40.9	40.0	37.5	36.7	36.7	33.4	31.7	28.4	25.9
85°	15.0	15.8	15.0	15.0	13.3	14.2	13.3	12.5	10.8	9.2	8.3
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
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°	2481.1	2481.1	2481.1	2481.1	2481.1	2481.1	2481.1	2481.1	2481.1	2481.1	2481.1
2.5°	2483.6	2481.9	2481.9	2481.1	2480.2	2480.2	2480.2	2479.4	2477.7	2477.7	2476.9
5°	2471.1	2469.4	2466.9	2465.2	2464.4	2463.6	2462.7	2461.9	2458.6	2457.7	2455.2
7.5°	2448.6	2446.9	2442.7	2441.0	2438.5	2437.7	2434.4	2432.7	2429.4	2426.0	2424.4
10°	2421.9	2417.7	2414.4	2410.2	2408.5	2406.0	2401.8	2396.8	2394.3	2390.2	2386.8
12.5°	2391.8	2386.8	2380.2	2375.2	2373.5	2369.3	2362.7	2358.5	2352.6	2346.0	2340.1
15°	2354.3	2348.5	2342.6	2333.5	2331.0	2326.0	2319.3	2310.9	2302.6	2295.9	2289.3
17.5°	2313.4	2304.3	2295.1	2285.1	2277.6	2275.1	2264.2	2252.6	2245.1	2233.4	2225.9
20°	2255.9	2243.4	2228.4	2218.4	2211.7	2204.2	2191.7	2179.2	2170.0	2160.0	2149.2
22.5°	2176.7	2165.0	2147.5	2132.5	2127.5	2116.6	2105.8	2094.1	2082.4	2071.6	2058.3
25°	2083.3	2070.8	2053.2	2038.2	2029.9	2024.9	2004.0	1992.4	1980.7	1971.5	1962.3
27.5°	1987.4	1964.8	1953.2	1929.8	1922.3	1920.6	1901.5	1889.0	1876.4	1863.9	1852.3
30°	1868.9	1851.4	1833.9	1817.2	1807.2	1801.4	1787.2	1771.4	1763.0	1754.7	1743.0
32.5°	1746.3	1730.5	1708.8	1693.0	1685.5	1677.1	1664.6	1653.8	1641.3	1632.1	1629.6
35°	1615.4	1597.9	1579.5	1567.9	1566.2	1556.2	1543.7	1534.5	1525.3	1511.2	1508.7
37.5°	1475.3	1465.3	1452.8	1436.1	1428.6	1428.6	1416.1	1409.4	1397.7	1396.9	1390.2
40°	1337.7	1333.5	1314.3	1309.3	1307.7	1296.0	1292.7	1281.0	1272.6	1271.8	1261.8
42.5°	1201.8	1190.9	1187.6	1179.2	1171.7	1170.1	1162.6	1157.6	1154.2	1149.2	1144.2
45°	1066.7	1064.2	1055.8	1050.0	1047.5	1044.1	1041.6	1031.6	1030.0	1025.8	1023.3
47.5°	949.9	943.2	935.7	929.0	928.2	923.2	917.4	917.4	908.2	907.4	905.7
50°	834.0	829.0	824.8	815.6	817.3	810.6	809.8	802.3	798.1	794.8	798.9
52.5°	732.2	722.2	720.6	713.0	710.5	711.4	702.2	699.7	698.0	694.7	693.0
55°	635.5	630.5	623.8	618.8	614.6	610.5	607.1	607.1	598.0	598.8	594.6
57.5°	550.4	546.3	537.9	530.4	528.7	523.7	519.6	515.4	514.6	508.7	504.6
60°	474.5	467.0	456.2	452.8	447.8	443.7	439.5	434.5	432.0	427.8	420.3
62.5°	403.6	391.1	387.0	380.3	374.5	372.0	365.3	359.4	355.3	349.4	343.6
65°	336.1	326.9	319.4	311.9	311.1	304.4	298.6	293.6	285.2	280.2	269.4
67.5°	274.4	266.0	257.7	250.2	244.4	242.7	233.5	227.7	221.8	211.8	202.7
70°	217.7	209.3	202.7	193.5	191.0	184.3	177.6	171.8	161.8	152.6	145.1
72.5°	166.0	156.8	149.3	142.6	138.4	132.6	125.9	119.3	109.3	100.1	93.4
75°	118.4	111.8	104.2	97.6	94.2	90.9	83.4	75.9	69.2	60.0	54.2
77.5°	80.1	73.4	66.7	60.9	56.7	54.2	49.2	43.4	37.5	32.5	28.4
80°	46.7	42.5	37.5	32.5	31.7	29.2	25.0	21.7	18.3	15.8	12.5
82.5°	22.5	20.0	16.7	14.2	12.5	11.7	10.0	8.3	6.7	5.8	5.8
85°	6.7	5.8	5.0	4.2	3.3	3.3	2.5	2.5	2.5	2.5	2.5
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
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°	2481.1	2481.1	2481.1	2481.1	2481.1	2481.1	2481.1	2481.1	2481.1	2481.1	2481.1
2.5°	2474.4	2473.6	2472.7	2471.9	2470.2	2470.2	2467.7	2466.1	2466.1	2464.4	2463.6
5°	2452.7	2450.2	2449.4	2447.7	2446.1	2445.2	2441.9	2441.0	2439.4	2437.7	2437.7
7.5°	2421.9	2418.5	2415.2	2413.5	2412.7	2410.2	2408.5	2407.7	2405.2	2403.5	2400.2
10°	2381.0	2378.5	2374.3	2372.7	2371.0	2369.3	2365.2	2362.7	2361.8	2360.2	2358.5
12.5°	2333.5	2330.1	2326.0	2322.6	2321.0	2318.5	2314.3	2311.8	2311.8	2308.4	2308.4
15°	2282.6	2277.6	2270.1	2266.7	2265.9	2260.9	2257.6	2254.2	2250.1	2248.4	2248.4
17.5°	2217.5	2209.2	2202.5	2202.5	2199.2	2194.2	2189.2	2186.7	2184.2	2180.8	2179.2
20°	2140.8	2135.0	2127.5	2127.5	2120.0	2118.3	2113.3	2112.5	2106.6	2107.5	2105.0
22.5°	2048.2	2044.9	2040.7	2037.4	2033.2	2028.2	2025.7	2026.6	2024.1	2023.2	2022.4
25°	1954.8	1945.7	1940.7	1939.0	1937.3	1933.2	1931.5	1930.7	1930.7	1928.2	1929.0
27.5°	1847.3	1840.6	1833.9	1836.4	1833.1	1830.6	1828.9	1826.4	1828.1	1827.2	1828.1
30°	1737.2	1728.8	1724.7	1726.3	1725.5	1718.8	1722.2	1721.3	1722.2	1722.2	1723.8
32.5°	1621.2	1615.4	1614.6	1615.4	1607.9	1608.7	1605.4	1610.4	1611.2	1616.2	1612.1
35°	1503.7	1500.3	1494.5	1493.7	1494.5	1493.7	1493.7	1497.0	1496.2	1501.2	1499.5
37.5°	1382.7	1381.1	1375.2	1376.9	1373.6	1379.4	1381.1	1379.4	1385.2	1383.6	1382.7
40°	1264.3	1261.8	1258.5	1265.1	1261.0	1257.6	1263.5	1258.5	1260.1	1265.1	1265.1
42.5°	1144.2	1140.0	1140.0	1140.0	1139.2	1139.2	1141.7	1144.2	1142.5	1143.4	1150.1
45°	1023.3	1022.5	1020.0	1021.6	1020.8	1025.0	1025.0	1026.6	1030.0	1033.3	1031.6
47.5°	906.5	904.9	907.4	905.7	906.5	904.0	905.7	910.7	914.9	909.0	914.9
50°	797.3	793.9	793.1	795.6	794.8	793.9	795.6	795.6	793.9	793.9	799.8
52.5°	693.0	689.7	687.2	691.4	688.9	689.7	686.4	686.4	688.0	686.4	683.9
55°	595.5	593.0	589.6	591.3	587.1	586.3	582.9	582.9	580.4	578.8	573.8
57.5°	502.1	500.4	492.9	492.0	492.9	487.0	481.2	478.7	472.0	470.4	469.5
60°	419.5	410.3	406.1	401.1	397.8	395.3	388.6	384.5	374.5	368.6	367.8
62.5°	333.6	329.4	324.4	316.9	315.2	306.9	300.2	289.4	284.4	276.9	269.4
65°	264.4	253.5	246.0	241.9	235.2	227.7	220.2	208.5	202.7	193.5	186.0
67.5°	193.5	184.3	174.3	171.0	165.1	156.0	148.4	138.4	133.4	125.1	122.6
70°	132.6	124.3	116.8	111.8	107.6	98.4	90.9	87.6	82.6	80.9	80.9
72.5°	85.1	77.6	69.2	66.7	63.4	58.4	53.4	51.7	53.4	52.5	52.5
75°	47.5	43.4	37.5	35.0	35.0	33.4	32.5	32.5	32.5	32.5	32.5
77.5°	24.2	21.7	20.0	19.2	19.2	19.2	20.0	20.0	20.0	20.8	20.0
80°	11.7	10.8	10.8	10.8	11.7	11.7	11.7	11.7	11.7	12.5	11.7
82.5°	5.8	5.8	5.8	5.8	5.8	5.8	6.7	6.7	6.7	6.7	6.7
85°	2.5	2.5	2.5	2.5	3.3	3.3	3.3	3.3	3.3	3.3	3.3
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
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: P684379

CATALOG NUMBER: LX6C50D010 EX6C509035 6LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2481.1	2481.1	2481.1	2481.1	2481.1	2481.1	2481.1	2481.1
2.5°	2462.7	2461.1	2461.1	2460.2	2460.2	2460.2	2460.2	2461.1
5°	2436.0	2435.2	2435.2	2433.5	2433.5	2433.5	2433.5	2433.5
7.5°	2400.2	2398.5	2399.3	2397.7	2397.7	2398.5	2397.7	2396.8
10°	2356.0	2355.1	2356.0	2356.0	2354.3	2353.5	2354.3	2355.1
12.5°	2305.9	2305.1	2303.4	2304.3	2304.3	2303.4	2302.6	2300.9
15°	2247.6	2246.7	2245.9	2245.1	2244.2	2245.1	2244.2	2242.6
17.5°	2179.2	2179.2	2178.3	2177.5	2176.7	2175.0	2175.8	2178.3
20°	2105.8	2105.0	2103.3	2104.1	2100.8	2099.1	2100.0	2102.5
22.5°	2021.6	2019.1	2020.7	2018.2	2018.2	2019.1	2018.2	2016.6
25°	1929.8	1926.5	1928.2	1929.0	1929.0	1928.2	1927.3	1928.2
27.5°	1828.1	1830.6	1830.6	1828.9	1831.4	1828.1	1829.7	1830.6
30°	1723.8	1721.3	1720.5	1723.8	1728.8	1724.7	1724.7	1725.5
32.5°	1616.2	1612.9	1612.9	1614.6	1613.7	1613.7	1617.1	1612.9
35°	1501.2	1502.8	1496.2	1500.3	1502.0	1500.3	1501.2	1501.2
37.5°	1385.2	1383.6	1383.6	1383.6	1386.1	1386.1	1387.7	1386.9
40°	1271.0	1267.6	1266.8	1268.5	1265.1	1267.6	1267.6	1265.1
42.5°	1147.6	1148.4	1152.6	1148.4	1149.2	1148.4	1146.7	1145.9
45°	1033.3	1035.8	1034.1	1033.3	1034.1	1030.8	1031.6	1034.1
47.5°	912.4	917.4	912.4	915.7	914.9	913.2	911.5	908.2
50°	798.9	800.6	799.8	798.9	798.1	797.3	793.1	790.6
52.5°	683.0	683.0	683.0	683.0	674.7	678.9	677.2	672.2
55°	569.6	572.1	568.8	568.8	562.9	562.9	561.3	562.1
57.5°	460.4	457.9	455.4	455.4	449.5	447.0	444.5	441.2
60°	358.6	356.1	352.8	348.6	342.8	342.8	341.1	334.4
62.5°	262.7	258.5	256.0	252.7	247.7	244.4	241.9	243.5
65°	180.1	176.0	172.6	172.6	172.6	171.0	170.1	170.1
67.5°	118.4	120.9	119.3	120.9	120.9	119.3	118.4	120.1
70°	81.7	81.7	80.9	80.9	80.9	80.9	80.1	80.9
72.5°	52.5	52.5	52.5	53.4	52.5	52.5	53.4	53.4
75°	33.4	33.4	33.4	34.2	33.4	33.4	34.2	33.4
77.5°	20.0	20.8	20.8	20.8	20.8	20.0	20.8	20.8
80°	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
82.5°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
85°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
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)