

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: P684386

Luminaire Tested: **LX6C50D010 EX6C509040 6LBLWWH**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P684386
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 EX6C509040 6LBLWWH
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

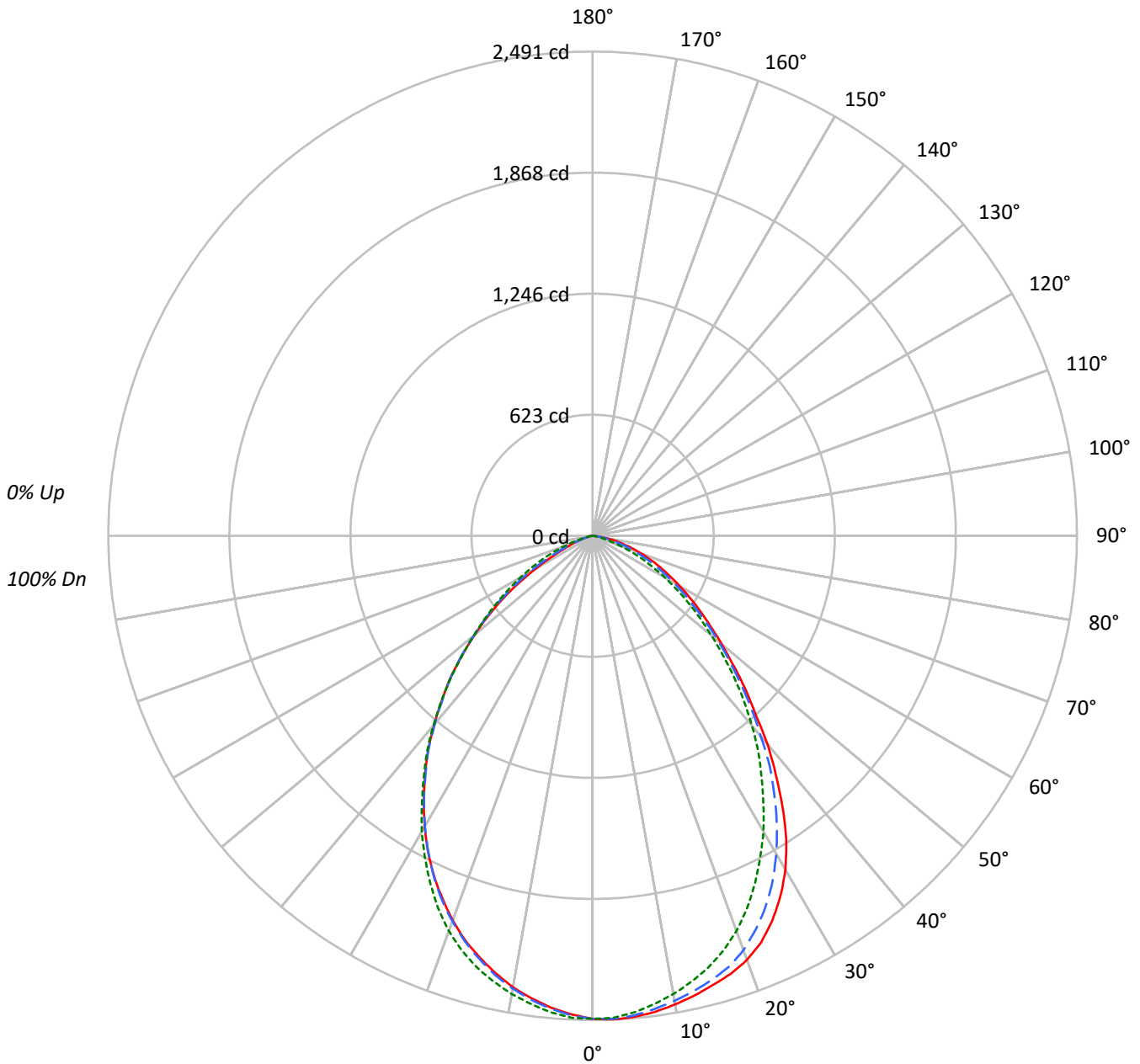
Lumens per Lamp: N/A
Luminaire Lumens: 4520.0 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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				20				
RC	80				70				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			100
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			89
2	103	96	91	86	101	95	90	85	91	87	83	88	85	81	85	82	80	78			78
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68			68
4	89	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60			60
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	64	60	56	54			54
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48			48
7	71	59	52	46	70	59	51	46	57	51	46	56	50	45	55	49	45	43			43
8	67	55	47	42	65	54	47	42	53	46	42	52	46	41	51	45	41	39			39
9	63	51	43	38	62	50	43	38	49	42	38	48	42	38	47	42	38	36			36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	38	35	33			33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	136223	136223	136223
5°	136699	135455	134124
10°	136281	133258	131305
15°	135767	130506	127470
20°	135462	126203	122843
25°	132171	119438	116807
30°	125576	111245	109397
35°	113977	101288	100619
40°	100002	91157	90677
45°	85738	79652	80295
50°	73797	67887	67529
55°	64504	57317	53809
60°	56684	46981	36719
65°	49629	36411	22104
70°	42299	24507	12983
75°	34144	12730	7074
80°	23740	5020	3946
85°	9435	1572	2076



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.8	5.2
10°-20°	650.2	14.4
20°-30°	925.2	20.5
30°-40°	973.8	21.5
40°-50°	811.6	18.0
50°-60°	548.3	12.1
60°-70°	278.0	6.2
70°-80°	89.7	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°	1808.3	40.0
0°-40°	2782.1	61.6
0°-60°	4142.0	91.6
0°-90°	4520.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4520.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2485	2485	2485	2485	2485	
5°	2484	2477	2462	2443	2437	236
15°	2392	2366	2300	2254	2246	676
25°	2185	2106	1975	1934	1931	1001
35°	1703	1630	1514	1498	1504	1060
45°	1106	1078	1027	1032	1036	856
55°	675	642	600	581	563	607
65°	383	345	281	203	170	381
75°	161	126	60	33	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°	2484.9	2484.9	2484.9	2484.9	2484.9	2484.9	2484.9	2484.9	2484.9	2484.9	2484.9
2.5°	2490.8	2490.8	2490.8	2490.8	2490.8	2490.8	2489.9	2489.9	2488.3	2488.3	2487.4
5°	2484.1	2484.9	2484.9	2484.1	2484.1	2482.4	2482.4	2481.6	2479.1	2477.4	2476.6
7.5°	2469.9	2469.9	2469.1	2468.2	2467.4	2464.9	2464.0	2461.5	2459.9	2458.2	2454.9
10°	2448.2	2448.2	2447.3	2445.7	2444.8	2443.2	2443.2	2439.8	2436.5	2432.3	2429.8
12.5°	2422.3	2423.1	2421.4	2420.6	2418.1	2417.3	2415.6	2411.4	2408.9	2403.9	2399.7
15°	2392.2	2393.9	2393.9	2390.5	2388.0	2387.2	2384.7	2382.2	2376.3	2371.3	2366.3
17.5°	2363.0	2364.6	2363.0	2360.5	2358.0	2354.6	2353.0	2347.9	2340.4	2333.7	2326.2
20°	2322.0	2324.6	2321.2	2317.0	2312.0	2311.2	2308.7	2300.3	2289.5	2279.4	2268.6
22.5°	2264.4	2262.7	2260.2	2258.6	2250.2	2245.2	2241.9	2231.0	2219.3	2205.9	2192.6
25°	2185.1	2188.4	2183.4	2175.9	2171.7	2166.7	2158.3	2146.6	2135.8	2121.6	2105.7
27.5°	2091.5	2091.5	2084.8	2082.3	2073.1	2066.5	2062.3	2050.6	2036.4	2022.2	2004.6
30°	1983.8	1978.8	1978.8	1967.1	1959.5	1957.0	1952.9	1933.6	1921.1	1906.1	1888.5
32.5°	1853.5	1852.6	1849.3	1841.8	1831.7	1823.4	1823.4	1810.0	1793.3	1774.9	1764.1
35°	1703.1	1703.9	1702.3	1693.9	1693.9	1683.9	1682.2	1670.5	1657.2	1643.0	1629.6
37.5°	1547.8	1551.1	1547.8	1543.6	1541.1	1540.2	1532.7	1524.4	1514.3	1506.0	1496.0
40°	1397.4	1392.4	1394.1	1385.7	1386.5	1384.9	1381.5	1370.7	1364.8	1356.5	1345.6
42.5°	1235.4	1240.4	1242.0	1237.0	1235.4	1232.0	1235.4	1231.2	1224.5	1220.3	1210.3
45°	1105.9	1100.9	1103.4	1101.7	1102.6	1095.9	1093.4	1091.7	1089.2	1081.7	1077.5
47.5°	977.3	978.1	977.3	973.9	972.3	972.3	968.9	963.9	963.9	958.9	955.5
50°	865.3	865.3	867.0	862.8	861.2	857.8	858.7	853.6	850.3	846.1	843.6
52.5°	762.6	763.4	760.1	760.9	759.3	759.3	755.9	752.6	749.2	741.7	740.0
55°	674.9	675.7	671.6	673.2	668.2	665.7	664.0	659.0	659.0	651.5	642.3
57.5°	593.0	592.2	591.4	588.9	585.5	583.0	580.5	574.7	572.2	567.1	559.6
60°	517.0	516.2	514.5	513.7	511.2	505.3	505.3	501.2	492.8	487.8	480.3
62.5°	445.2	445.2	444.4	441.9	439.4	436.8	435.2	431.8	423.5	417.6	411.0
65°	382.6	381.7	379.2	375.0	373.4	373.4	367.5	365.0	358.3	352.5	345.0
67.5°	322.4	319.1	317.4	318.2	313.2	313.2	308.2	304.0	298.2	288.2	282.3
70°	263.9	262.3	260.6	258.9	258.1	254.8	252.3	247.2	241.4	233.9	224.7
72.5°	211.3	211.3	208.8	207.1	204.6	201.3	199.6	195.5	188.8	180.4	173.7
75°	161.2	161.2	161.2	157.9	156.2	154.5	149.5	147.0	139.5	134.5	126.1
77.5°	118.6	116.9	114.4	113.6	111.9	110.3	107.7	103.6	96.9	91.0	86.0
80°	75.2	77.7	75.2	75.2	71.0	69.3	68.5	63.5	61.0	56.0	51.8
82.5°	41.8	42.6	40.9	40.1	37.6	36.8	36.8	33.4	31.7	28.4	25.9
85°	15.0	15.9	15.0	15.0	13.4	14.2	13.4	12.5	10.9	9.2	8.4
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°	2484.9	2484.9	2484.9	2484.9	2484.9	2484.9	2484.9	2484.9	2484.9	2484.9	2484.9
2.5°	2487.4	2485.8	2485.8	2484.9	2484.1	2484.1	2484.1	2483.3	2481.6	2481.6	2480.7
5°	2474.9	2473.2	2470.7	2469.1	2468.2	2467.4	2466.5	2465.7	2462.4	2461.5	2459.0
7.5°	2452.4	2450.7	2446.5	2444.8	2442.3	2441.5	2438.2	2436.5	2433.1	2429.8	2428.1
10°	2425.6	2421.4	2418.1	2413.9	2412.3	2409.8	2405.6	2400.6	2398.1	2393.9	2390.5
12.5°	2395.6	2390.5	2383.9	2378.8	2377.2	2373.0	2366.3	2362.1	2356.3	2349.6	2343.8
15°	2358.0	2352.1	2346.3	2337.1	2334.6	2329.6	2322.9	2314.5	2306.2	2299.5	2292.8
17.5°	2317.0	2307.8	2298.7	2288.6	2281.1	2278.6	2267.8	2256.1	2248.5	2236.9	2229.3
20°	2259.4	2246.9	2231.8	2221.8	2215.1	2207.6	2195.1	2182.6	2173.4	2163.3	2152.5
22.5°	2180.1	2168.4	2150.8	2135.8	2130.8	2119.9	2109.1	2097.4	2085.7	2074.8	2061.4
25°	2086.5	2074.0	2056.4	2041.4	2033.0	2028.0	2007.2	1995.5	1983.8	1974.6	1965.4
27.5°	1990.4	1967.9	1956.2	1932.8	1925.3	1923.6	1904.4	1891.9	1879.4	1866.8	1855.1
30°	1871.8	1854.3	1836.8	1820.1	1810.0	1804.2	1790.0	1774.1	1765.8	1757.4	1745.7
32.5°	1749.1	1733.2	1711.5	1695.6	1688.1	1679.7	1667.2	1656.3	1643.8	1634.6	1632.1
35°	1617.9	1600.4	1582.0	1570.3	1568.6	1558.6	1546.1	1536.9	1527.7	1513.5	1511.0
37.5°	1477.6	1467.6	1455.0	1438.3	1430.8	1430.8	1418.3	1411.6	1399.9	1399.1	1392.4
40°	1339.8	1335.6	1316.4	1311.4	1309.7	1298.0	1294.7	1283.0	1274.6	1273.8	1263.8
42.5°	1203.6	1192.8	1189.4	1181.1	1173.6	1171.9	1164.4	1159.4	1156.0	1151.0	1146.0
45°	1068.3	1065.8	1057.5	1051.6	1049.1	1045.8	1043.3	1033.2	1031.6	1027.4	1024.9
47.5°	951.4	944.7	937.2	930.5	929.7	924.6	918.8	918.8	909.6	908.8	907.1
50°	835.3	830.3	826.1	816.9	818.6	811.9	811.0	803.5	799.4	796.0	800.2
52.5°	733.4	723.3	721.7	714.2	711.6	712.5	703.3	700.8	699.1	695.8	694.1
55°	636.5	631.5	624.8	619.8	615.6	611.4	608.1	608.1	598.9	599.7	595.5
57.5°	551.3	547.1	538.7	531.2	529.6	524.5	520.4	516.2	515.4	509.5	505.3
60°	475.3	467.8	456.9	453.6	448.5	444.4	440.2	435.2	432.7	428.5	421.0
62.5°	404.3	391.7	387.6	380.9	375.0	372.5	365.8	360.0	355.8	350.0	344.1
65°	336.6	327.4	319.9	312.4	311.6	304.9	299.0	294.0	285.7	280.7	269.8
67.5°	274.8	266.5	258.1	250.6	244.7	243.1	233.9	228.0	222.2	212.2	203.0
70°	218.0	209.7	203.0	193.8	191.3	184.6	177.9	172.1	162.0	152.9	145.3
72.5°	166.2	157.0	149.5	142.8	138.7	132.8	126.1	119.4	109.4	100.2	93.6
75°	118.6	111.9	104.4	97.7	94.4	91.0	83.5	76.0	69.3	60.1	54.3
77.5°	80.2	73.5	66.8	61.0	56.8	54.3	49.3	43.4	37.6	32.6	28.4
80°	46.8	42.6	37.6	32.6	31.7	29.2	25.1	21.7	18.4	15.9	12.5
82.5°	22.6	20.0	16.7	14.2	12.5	11.7	10.0	8.4	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°	2484.9	2484.9	2484.9	2484.9	2484.9	2484.9	2484.9	2484.9	2484.9	2484.9	2484.9
2.5°	2478.2	2477.4	2476.6	2475.7	2474.1	2474.1	2471.6	2469.9	2469.9	2468.2	2467.4
5°	2456.5	2454.0	2453.2	2451.5	2449.8	2449.0	2445.7	2444.8	2443.2	2441.5	2441.5
7.5°	2425.6	2422.3	2418.9	2417.3	2416.4	2413.9	2412.3	2411.4	2408.9	2407.2	2403.9
10°	2384.7	2382.2	2378.0	2376.3	2374.7	2373.0	2368.8	2366.3	2365.5	2363.8	2362.1
12.5°	2337.1	2333.7	2329.6	2326.2	2324.6	2322.0	2317.9	2315.4	2315.4	2312.0	2312.0
15°	2286.1	2281.1	2273.6	2270.3	2269.4	2264.4	2261.1	2257.7	2253.6	2251.9	2251.9
17.5°	2221.0	2212.6	2205.9	2205.9	2202.6	2197.6	2192.6	2190.1	2187.6	2184.2	2182.6
20°	2144.1	2138.3	2130.8	2130.8	2123.3	2121.6	2116.6	2115.7	2109.9	2110.7	2108.2
22.5°	2051.4	2048.1	2043.9	2040.6	2036.4	2031.4	2028.9	2029.7	2027.2	2026.4	2025.5
25°	1957.9	1948.7	1943.7	1942.0	1940.3	1936.2	1934.5	1933.6	1933.6	1931.1	1932.0
27.5°	1850.1	1843.4	1836.8	1839.3	1835.9	1833.4	1831.7	1829.2	1830.9	1830.1	1830.9
30°	1739.9	1731.5	1727.3	1729.0	1728.2	1721.5	1724.8	1724.0	1724.8	1724.8	1726.5
32.5°	1623.8	1617.9	1617.1	1617.9	1610.4	1611.2	1607.9	1612.9	1613.7	1618.8	1614.6
35°	1506.0	1502.6	1496.8	1496.0	1496.8	1496.0	1496.0	1499.3	1498.5	1503.5	1501.8
37.5°	1384.9	1383.2	1377.4	1379.0	1375.7	1381.5	1383.2	1381.5	1387.4	1385.7	1384.9
40°	1266.3	1263.8	1260.4	1267.1	1262.9	1259.6	1265.4	1260.4	1262.1	1267.1	1267.1
42.5°	1146.0	1141.8	1141.8	1141.8	1141.0	1141.0	1143.5	1146.0	1144.3	1145.2	1151.8
45°	1024.9	1024.0	1021.5	1023.2	1022.4	1026.5	1026.5	1028.2	1031.6	1034.9	1033.2
47.5°	907.9	906.3	908.8	907.1	907.9	905.4	907.1	912.1	916.3	910.4	916.3
50°	798.5	795.2	794.3	796.8	796.0	795.2	796.8	796.8	795.2	795.2	801.0
52.5°	694.1	690.8	688.3	692.4	689.9	690.8	687.4	687.4	689.1	687.4	684.9
55°	596.4	593.9	590.5	592.2	588.0	587.2	583.9	583.9	581.3	579.7	574.7
57.5°	502.8	501.2	493.6	492.8	493.6	487.8	482.0	479.4	472.8	471.1	470.3
60°	420.1	411.0	406.8	401.8	398.4	395.9	389.2	385.1	375.0	369.2	368.4
62.5°	334.1	329.9	324.9	317.4	315.7	307.4	300.7	289.8	284.8	277.3	269.8
65°	264.8	253.9	246.4	242.2	235.5	228.0	220.5	208.8	203.0	193.8	186.3
67.5°	193.8	184.6	174.6	171.2	165.4	156.2	148.7	138.7	133.6	125.3	122.8
70°	132.8	124.5	116.9	111.9	107.7	98.6	91.0	87.7	82.7	81.0	81.0
72.5°	85.2	77.7	69.3	66.8	63.5	58.5	53.5	51.8	53.5	52.6	52.6
75°	47.6	43.4	37.6	35.1	35.1	33.4	32.6	32.6	32.6	32.6	32.6
77.5°	24.2	21.7	20.0	19.2	19.2	19.2	20.0	20.0	20.0	20.9	20.0
80°	11.7	10.9	10.9	10.9	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: P684386

CATALOG NUMBER: LX6C50D010 EX6C509040 6LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2484.9	2484.9	2484.9	2484.9	2484.9	2484.9	2484.9	2484.9
2.5°	2466.5	2464.9	2464.9	2464.0	2464.0	2464.0	2464.0	2464.9
5°	2439.8	2439.0	2439.0	2437.3	2437.3	2437.3	2437.3	2437.3
7.5°	2403.9	2402.2	2403.1	2401.4	2401.4	2402.2	2401.4	2400.6
10°	2359.6	2358.8	2359.6	2359.6	2358.0	2357.1	2358.0	2358.8
12.5°	2309.5	2308.7	2307.0	2307.8	2307.8	2307.0	2306.2	2304.5
15°	2251.1	2250.2	2249.4	2248.5	2247.7	2248.5	2247.7	2246.0
17.5°	2182.6	2182.6	2181.7	2180.9	2180.1	2178.4	2179.2	2181.7
20°	2109.1	2108.2	2106.5	2107.4	2104.0	2102.4	2103.2	2105.7
22.5°	2024.7	2022.2	2023.9	2021.4	2021.4	2022.2	2021.4	2019.7
25°	1932.8	1929.5	1931.1	1932.0	1932.0	1931.1	1930.3	1931.1
27.5°	1830.9	1833.4	1833.4	1831.7	1834.3	1830.9	1832.6	1833.4
30°	1726.5	1724.0	1723.2	1726.5	1731.5	1727.3	1727.3	1728.2
32.5°	1618.8	1615.4	1615.4	1617.1	1616.2	1616.2	1619.6	1615.4
35°	1503.5	1505.2	1498.5	1502.6	1504.3	1502.6	1503.5	1503.5
37.5°	1387.4	1385.7	1385.7	1385.7	1388.2	1388.2	1389.9	1389.1
40°	1273.0	1269.6	1268.8	1270.4	1267.1	1269.6	1269.6	1267.1
42.5°	1149.3	1150.2	1154.3	1150.2	1151.0	1150.2	1148.5	1147.7
45°	1034.9	1037.4	1035.7	1034.9	1035.7	1032.4	1033.2	1035.7
47.5°	913.8	918.8	913.8	917.1	916.3	914.6	912.9	909.6
50°	800.2	801.9	801.0	800.2	799.4	798.5	794.3	791.8
52.5°	684.1	684.1	684.1	684.1	675.7	679.9	678.2	673.2
55°	570.5	573.0	569.7	569.7	563.8	563.8	562.1	563.0
57.5°	461.1	458.6	456.1	456.1	450.2	447.7	445.2	441.9
60°	359.2	356.7	353.3	349.1	343.3	343.3	341.6	334.9
62.5°	263.1	258.9	256.4	253.1	248.1	244.7	242.2	243.9
65°	180.4	176.2	172.9	172.9	172.9	171.2	170.4	170.4
67.5°	118.6	121.1	119.4	121.1	121.1	119.4	118.6	120.3
70°	81.9	81.9	81.0	81.0	81.0	81.0	80.2	81.0
72.5°	52.6	52.6	52.6	53.5	52.6	52.6	53.5	53.5
75°	33.4	33.4	33.4	34.2	33.4	33.4	34.2	33.4
77.5°	20.0	20.9	20.9	20.9	20.9	20.0	20.9	20.9
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)