

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: P563961

Luminaire Tested: **LX6C50D010 EX6C509030 6LBLWWH**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P563961
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 EX6C509030 6LBLWWH
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 6LRLWW TRIM WITH H FINISH, DIM TO WARM
Light Source: -
Ballast/Driver: -

Summary

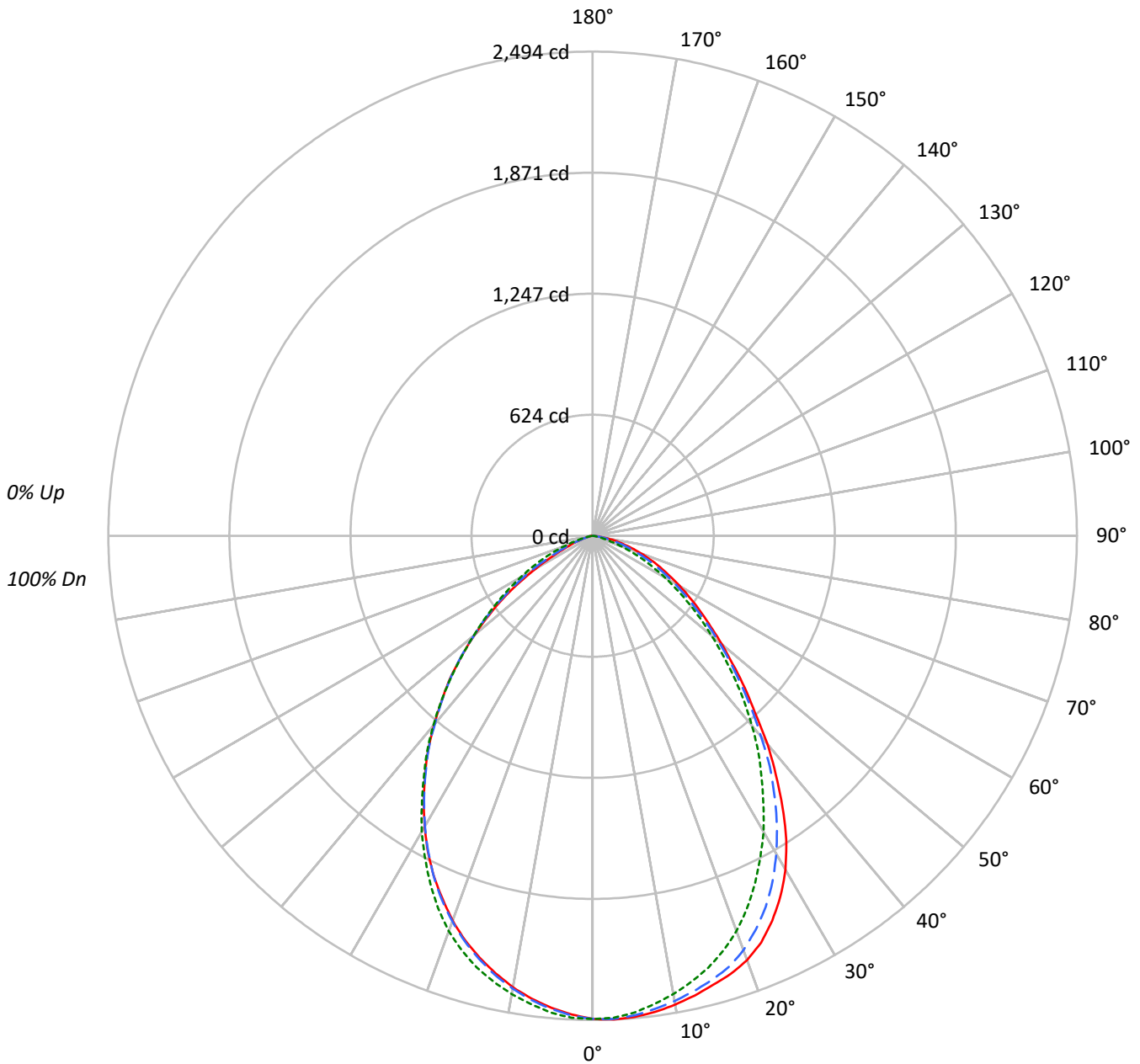
Lumens per Lamp: N/A
Luminaire Lumens: 4526.5 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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°	136420	136420	136420
5°	136897	135653	134322
10°	136482	133448	131494
15°	135966	130693	127657
20°	135660	126384	123024
25°	132358	119608	116977
30°	125754	111410	109555
35°	114137	101435	100766
40°	100152	91292	90813
45°	85862	79768	80411
50°	73908	67989	67631
55°	64590	57403	53886
60°	56772	47058	36784
65°	49694	36463	22142
70°	42379	24539	13015
75°	34186	12751	7096
80°	23772	5020	3946
85°	9498	1572	2139



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.2	5.2
10°-20°	651.1	14.4
20°-30°	926.6	20.5
30°-40°	975.2	21.5
40°-50°	812.7	18.0
50°-60°	549.1	12.1
60°-70°	278.4	6.2
70°-80°	89.9	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°	1810.9	40.0
0°-40°	2786.1	61.6
0°-60°	4148.0	91.6
0°-90°	4526.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4526.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2488	2488	2488	2488	2488	
5°	2488	2480	2465	2447	2441	236
15°	2396	2370	2303	2257	2249	677
25°	2188	2109	1977	1936	1934	1003
35°	1706	1632	1516	1501	1506	1061
45°	1108	1079	1029	1033	1037	857
55°	676	643	601	582	564	608
65°	383	345	281	203	171	381
75°	161	126	60	33	34	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°	2488.5	2488.5	2488.5	2488.5	2488.5	2488.5	2488.5	2488.5	2488.5	2488.5	2488.5
2.5°	2494.4	2494.4	2494.4	2494.4	2494.4	2494.4	2493.6	2493.6	2491.8	2491.8	2491.0
5°	2487.7	2488.5	2488.5	2487.7	2487.7	2486.0	2486.0	2485.2	2482.7	2481.0	2480.1
7.5°	2473.4	2473.4	2472.6	2471.8	2471.0	2468.4	2467.6	2465.1	2463.5	2461.7	2458.4
10°	2451.8	2451.8	2450.8	2449.2	2448.4	2446.7	2446.7	2443.3	2440.0	2435.8	2433.3
12.5°	2425.8	2426.6	2424.9	2424.1	2421.6	2420.7	2419.1	2414.9	2412.4	2407.4	2403.2
15°	2395.7	2397.3	2397.3	2394.0	2391.5	2390.6	2388.2	2385.6	2379.7	2374.8	2369.8
17.5°	2366.4	2368.0	2366.4	2363.9	2361.3	2358.1	2356.3	2351.4	2343.8	2337.1	2329.6
20°	2325.4	2328.0	2324.6	2320.4	2315.4	2314.5	2312.0	2303.7	2292.8	2282.7	2271.9
22.5°	2267.6	2266.0	2263.5	2261.8	2253.5	2248.4	2245.1	2234.3	2222.5	2209.2	2195.7
25°	2188.2	2191.6	2186.6	2179.0	2174.9	2169.8	2161.4	2149.8	2138.9	2124.6	2108.8
27.5°	2094.5	2094.5	2087.8	2085.4	2076.1	2069.5	2065.2	2053.5	2039.3	2025.1	2007.5
30°	1986.6	1981.6	1981.6	1969.9	1962.4	1959.8	1955.7	1936.4	1923.9	1908.9	1891.3
32.5°	1856.2	1855.3	1851.9	1844.4	1834.4	1826.1	1826.1	1812.7	1796.0	1777.6	1766.7
35°	1705.5	1706.5	1704.7	1696.4	1696.4	1686.3	1684.7	1673.0	1659.6	1645.3	1632.0
37.5°	1550.0	1553.4	1550.0	1545.8	1543.3	1542.5	1535.0	1526.6	1516.5	1508.2	1498.1
40°	1399.5	1394.4	1396.1	1387.8	1388.6	1386.9	1383.5	1372.6	1366.8	1358.5	1347.6
42.5°	1237.1	1242.2	1243.8	1238.8	1237.1	1233.8	1237.1	1232.9	1226.2	1222.1	1212.1
45°	1107.5	1102.4	1105.0	1103.4	1104.2	1097.5	1094.9	1093.3	1090.7	1083.2	1079.0
47.5°	978.6	979.6	978.6	975.3	973.7	973.7	970.3	965.3	965.3	960.2	956.9
50°	866.6	866.6	868.3	864.1	862.4	859.0	859.9	854.9	851.5	847.3	844.9
52.5°	763.7	764.5	761.2	762.0	760.4	760.4	757.0	753.6	750.3	742.8	741.1
55°	675.8	676.7	672.6	674.2	669.2	666.7	665.0	660.0	660.0	652.4	643.3
57.5°	593.9	593.0	592.2	589.7	586.4	583.9	581.3	575.5	573.0	568.0	560.5
60°	517.8	516.9	515.3	514.4	512.0	506.1	506.1	501.9	493.5	488.5	480.9
62.5°	445.8	445.8	445.0	442.5	439.9	437.5	435.8	432.4	424.1	418.3	411.6
65°	383.1	382.3	379.7	375.6	373.9	373.9	368.0	365.6	358.9	353.0	345.4
67.5°	322.9	319.5	317.9	318.7	313.7	313.7	308.6	304.4	298.6	288.6	282.7
70°	264.4	262.6	261.0	259.3	258.5	255.1	252.6	247.6	241.8	234.3	225.0
72.5°	211.7	211.7	209.1	207.4	205.0	201.6	199.9	195.7	189.0	180.7	173.9
75°	161.4	161.4	161.4	158.1	156.4	154.7	149.7	147.2	139.7	134.7	126.3
77.5°	118.8	117.1	114.6	113.7	112.1	110.4	107.9	103.8	97.0	91.1	86.2
80°	75.3	77.8	75.3	75.3	71.1	69.5	68.6	63.6	61.0	56.0	51.9
82.5°	41.8	42.6	41.0	40.2	37.6	36.8	36.8	33.5	31.7	28.5	25.9
85°	15.1	15.9	15.1	15.1	13.4	14.2	13.4	12.5	10.9	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°	2488.5	2488.5	2488.5	2488.5	2488.5	2488.5	2488.5	2488.5	2488.5	2488.5	2488.5
2.5°	2491.0	2489.4	2489.4	2488.5	2487.7	2487.7	2487.7	2486.9	2485.2	2485.2	2484.3
5°	2478.5	2476.8	2474.3	2472.6	2471.8	2471.0	2470.2	2469.3	2465.9	2465.1	2462.6
7.5°	2455.9	2454.2	2450.0	2448.4	2445.9	2445.0	2441.7	2440.0	2436.7	2433.3	2431.6
10°	2429.2	2424.9	2421.6	2417.4	2415.7	2413.2	2409.0	2404.1	2401.5	2397.3	2394.0
12.5°	2399.1	2394.0	2387.3	2382.3	2380.7	2376.4	2369.8	2365.6	2359.7	2353.0	2347.2
15°	2361.3	2355.5	2349.6	2340.5	2337.9	2332.9	2326.2	2317.9	2309.6	2302.8	2296.1
17.5°	2320.4	2311.2	2302.0	2292.0	2284.4	2281.9	2271.0	2259.3	2251.8	2240.1	2232.6
20°	2262.7	2250.1	2235.1	2225.0	2218.3	2210.8	2198.3	2185.8	2176.5	2166.4	2155.7
22.5°	2183.2	2171.5	2153.9	2138.9	2133.9	2123.0	2112.1	2100.4	2088.7	2077.8	2064.4
25°	2089.5	2077.0	2059.4	2044.4	2036.0	2030.9	2010.1	1998.4	1986.6	1977.4	1968.3
27.5°	1993.3	1970.7	1959.0	1935.6	1928.1	1926.4	1907.1	1894.6	1882.1	1869.5	1857.8
30°	1874.5	1857.0	1839.4	1822.7	1812.7	1806.8	1792.6	1776.6	1768.3	1760.0	1748.3
32.5°	1751.6	1735.6	1714.0	1698.0	1690.5	1682.1	1669.6	1658.7	1646.2	1637.0	1634.4
35°	1620.3	1602.7	1584.3	1572.6	1570.9	1560.9	1548.3	1539.1	1529.9	1515.7	1513.2
37.5°	1479.7	1469.7	1457.1	1440.5	1432.9	1432.9	1420.3	1413.6	1401.9	1401.1	1394.4
40°	1341.7	1337.5	1318.3	1313.3	1311.6	1299.9	1296.5	1284.8	1276.5	1275.7	1265.6
42.5°	1205.4	1194.5	1191.1	1182.8	1175.3	1173.5	1166.0	1161.0	1157.7	1152.7	1147.6
45°	1069.9	1067.3	1059.0	1053.1	1050.7	1047.3	1044.8	1034.7	1033.1	1028.9	1026.4
47.5°	952.7	946.1	938.6	931.9	931.0	926.0	920.2	920.2	910.9	910.1	908.5
50°	836.4	831.5	827.3	818.0	819.8	813.0	812.2	804.7	800.5	797.2	801.4
52.5°	734.4	724.3	722.7	715.2	712.7	713.6	704.3	701.8	700.1	696.8	695.2
55°	637.4	632.4	625.7	620.7	616.5	612.3	609.0	609.0	599.7	600.6	596.4
57.5°	552.0	547.9	539.5	532.0	530.4	525.3	521.1	516.9	516.1	510.2	506.1
60°	475.9	468.4	457.5	454.2	449.2	445.0	440.9	435.8	433.3	429.2	421.6
62.5°	404.8	392.3	388.2	381.5	375.6	373.1	366.4	360.5	356.3	350.5	344.6
65°	337.1	327.9	320.4	312.9	312.0	305.4	299.5	294.5	286.0	281.1	270.2
67.5°	275.2	266.8	258.5	250.9	245.0	243.4	234.3	228.4	222.5	212.5	203.2
70°	218.3	210.0	203.2	194.1	191.5	184.8	178.2	172.3	162.2	153.1	145.6
72.5°	166.4	157.3	149.7	143.0	138.8	133.0	126.3	119.6	109.6	100.4	93.7
75°	118.8	112.1	104.6	97.9	94.5	91.1	83.6	76.1	69.5	60.2	54.4
77.5°	80.3	73.6	66.9	61.0	56.9	54.4	49.3	43.5	37.6	32.7	28.5
80°	46.9	42.6	37.6	32.7	31.7	29.3	25.1	21.8	18.4	15.9	12.5
82.5°	22.6	20.0	16.7	14.2	12.5	11.7	10.1	8.3	6.7	5.9	5.9
85°	6.7	5.9	5.0	4.2	3.4	3.4	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°	2488.5	2488.5	2488.5	2488.5	2488.5	2488.5	2488.5	2488.5	2488.5	2488.5	2488.5
2.5°	2481.9	2481.0	2480.1	2479.3	2477.7	2477.7	2475.2	2473.4	2473.4	2471.8	2471.0
5°	2460.1	2457.6	2456.7	2455.0	2453.4	2452.6	2449.2	2448.4	2446.7	2445.0	2445.0
7.5°	2429.2	2425.8	2422.5	2420.7	2419.9	2417.4	2415.7	2414.9	2412.4	2410.8	2407.4
10°	2388.2	2385.6	2381.5	2379.7	2378.1	2376.4	2372.2	2369.8	2368.9	2367.2	2365.6
12.5°	2340.5	2337.1	2332.9	2329.6	2328.0	2325.4	2321.3	2318.7	2318.7	2315.4	2315.4
15°	2289.4	2284.4	2276.9	2273.5	2272.7	2267.6	2264.4	2261.0	2256.9	2255.1	2255.1
17.5°	2224.2	2215.9	2209.2	2209.2	2205.8	2200.8	2195.7	2193.3	2190.7	2187.4	2185.8
20°	2147.2	2141.4	2133.9	2133.9	2126.4	2124.6	2119.6	2118.8	2112.9	2113.7	2111.3
22.5°	2054.4	2051.1	2046.9	2043.6	2039.3	2034.3	2031.8	2032.7	2030.1	2029.3	2028.5
25°	1960.7	1951.5	1946.5	1944.8	1943.2	1939.0	1937.3	1936.4	1936.4	1933.9	1934.8
27.5°	1852.8	1846.1	1839.4	1841.9	1838.6	1836.0	1834.4	1831.9	1833.6	1832.7	1833.6
30°	1742.4	1734.0	1729.9	1731.5	1730.7	1724.0	1727.3	1726.5	1727.3	1727.3	1729.0
32.5°	1626.1	1620.3	1619.4	1620.3	1612.8	1613.6	1610.2	1615.2	1616.0	1621.1	1616.9
35°	1508.2	1504.8	1498.9	1498.1	1498.9	1498.1	1498.1	1501.5	1500.7	1505.7	1504.0
37.5°	1386.9	1385.2	1379.3	1381.1	1377.7	1383.5	1385.2	1383.5	1389.4	1387.8	1386.9
40°	1268.1	1265.6	1262.2	1269.0	1264.8	1261.4	1267.2	1262.2	1263.9	1269.0	1269.0
42.5°	1147.6	1143.4	1143.4	1143.4	1142.6	1142.6	1145.2	1147.6	1146.0	1146.8	1153.5
45°	1026.4	1025.5	1023.0	1024.7	1023.8	1028.0	1028.0	1029.7	1033.1	1036.4	1034.7
47.5°	909.3	907.5	910.1	908.5	909.3	906.7	908.5	913.4	917.6	911.7	917.6
50°	799.7	796.4	795.5	798.0	797.2	796.4	798.0	798.0	796.4	796.4	802.2
52.5°	695.2	691.8	689.3	693.4	690.9	691.8	688.4	688.4	690.1	688.4	685.9
55°	597.2	594.8	591.4	593.0	588.9	588.0	584.7	584.7	582.1	580.5	575.5
57.5°	503.5	501.9	494.4	493.5	494.4	488.5	482.7	480.1	473.4	471.8	471.0
60°	420.7	411.6	407.4	402.3	399.0	396.5	389.8	385.6	375.6	369.8	368.8
62.5°	334.6	330.4	325.4	317.9	316.1	307.8	301.1	290.2	285.2	277.7	270.2
65°	265.2	254.3	246.8	242.6	235.9	228.4	220.8	209.1	203.2	194.1	186.6
67.5°	194.1	184.8	174.9	171.5	165.6	156.4	148.9	138.8	133.9	125.5	123.0
70°	133.0	124.6	117.1	112.1	107.9	98.7	91.1	87.8	82.8	81.2	81.2
72.5°	85.3	77.8	69.5	66.9	63.6	58.6	53.5	51.9	53.5	52.7	52.7
75°	47.7	43.5	37.6	35.1	35.1	33.5	32.7	32.7	32.7	32.7	32.7
77.5°	24.2	21.8	20.0	19.2	19.2	19.2	20.0	20.0	20.0	21.0	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°	5.9	5.9	5.9	5.9	5.9	5.9	6.7	6.7	6.7	6.7	6.7
85°	2.5	2.5	2.5	2.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4
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



TEST NUMBER: P563961

CATALOG NUMBER: LX6C50D010 EX6C509030 6LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2488.5	2488.5	2488.5	2488.5	2488.5	2488.5	2488.5	2488.5
2.5°	2470.2	2468.4	2468.4	2467.6	2467.6	2467.6	2467.6	2468.4
5°	2443.3	2442.5	2442.5	2440.9	2440.9	2440.9	2440.9	2440.9
7.5°	2407.4	2405.7	2406.6	2404.9	2404.9	2405.7	2404.9	2404.1
10°	2363.1	2362.2	2363.1	2363.1	2361.3	2360.5	2361.3	2362.2
12.5°	2312.9	2312.0	2310.4	2311.2	2311.2	2310.4	2309.6	2307.8
15°	2254.3	2253.5	2252.6	2251.8	2251.0	2251.8	2251.0	2249.3
17.5°	2185.8	2185.8	2184.8	2184.0	2183.2	2181.5	2182.4	2184.8
20°	2112.1	2111.3	2109.6	2110.4	2107.1	2105.4	2106.2	2108.8
22.5°	2027.6	2025.1	2026.8	2024.2	2024.2	2025.1	2024.2	2022.6
25°	1935.6	1932.3	1933.9	1934.8	1934.8	1933.9	1933.1	1933.9
27.5°	1833.6	1836.0	1836.0	1834.4	1836.9	1833.6	1835.2	1836.0
30°	1729.0	1726.5	1725.7	1729.0	1734.0	1729.9	1729.9	1730.7
32.5°	1621.1	1617.8	1617.8	1619.4	1618.6	1618.6	1621.9	1617.8
35°	1505.7	1507.3	1500.7	1504.8	1506.5	1504.8	1505.7	1505.7
37.5°	1389.4	1387.8	1387.8	1387.8	1390.2	1390.2	1391.9	1391.0
40°	1274.8	1271.4	1270.6	1272.3	1269.0	1271.4	1271.4	1269.0
42.5°	1151.0	1151.9	1156.0	1151.9	1152.7	1151.9	1150.1	1149.3
45°	1036.4	1038.9	1037.2	1036.4	1037.2	1033.9	1034.7	1037.2
47.5°	915.1	920.2	915.1	918.4	917.6	916.0	914.3	910.9
50°	801.4	803.0	802.2	801.4	800.5	799.7	795.5	793.0
52.5°	685.1	685.1	685.1	685.1	676.7	680.9	679.2	674.2
55°	571.4	573.8	570.4	570.4	564.6	564.6	562.9	563.8
57.5°	461.7	459.3	456.7	456.7	450.8	448.4	445.8	442.5
60°	359.7	357.1	353.8	349.6	343.8	343.8	342.1	335.5
62.5°	263.5	259.3	256.8	253.5	248.4	245.0	242.6	244.2
65°	180.7	176.5	173.1	173.1	173.1	171.5	170.7	170.7
67.5°	118.8	121.3	119.6	121.3	121.3	119.6	118.8	120.4
70°	82.0	82.0	81.2	81.2	81.2	81.2	80.3	81.2
72.5°	52.7	52.7	52.7	53.5	52.7	52.7	53.5	53.5
75°	33.5	33.5	33.5	34.3	33.5	33.5	34.3	33.5
77.5°	20.0	21.0	21.0	21.0	21.0	20.0	21.0	21.0
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°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
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



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)