

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: P684372

Luminaire Tested: **LX6C50D010 EX6C509030 6LBLWWH**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P684372
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
Light Source: -
Ballast/Driver: -

Summary

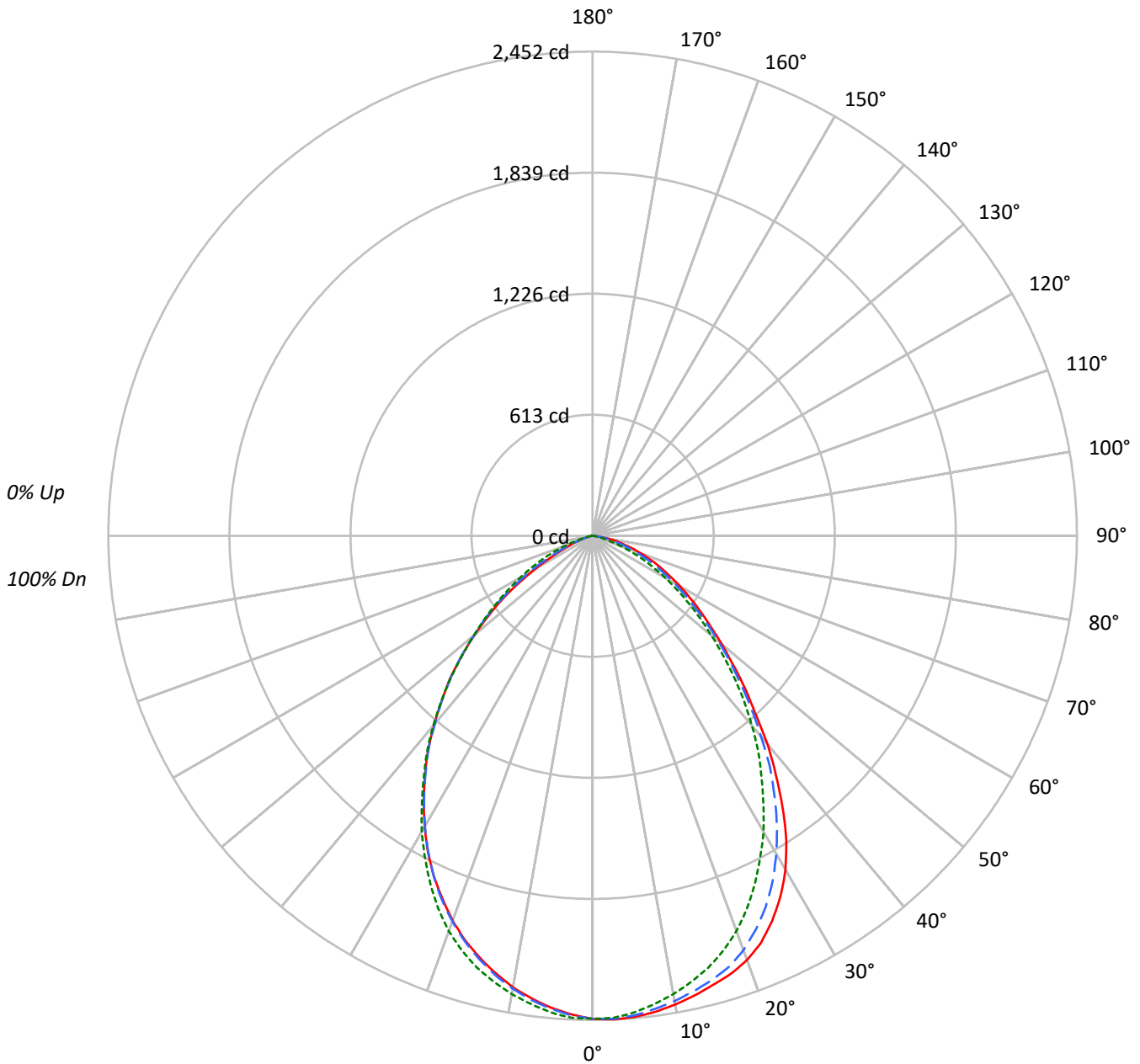
Lumens per Lamp: N/A
Luminaire Lumens: 4450.0 lumens
Efficiency: N/A
Efficacy: 76.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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°	134112	134112	134112
5°	134580	133359	132049
10°	134171	131193	129273
15°	133667	128485	125500
20°	133367	124249	120941
25°	130120	117587	114999
30°	123627	109523	107700
35°	112210	99722	99060
40°	98456	89747	89274
45°	84412	78419	79055
50°	72654	66838	66488
55°	63501	56428	52978
60°	55807	46257	36159
65°	48851	35840	21766
70°	41658	24123	12791
75°	33614	12539	6969
80°	23362	4925	3883
85°	9309	1572	2076



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.2	5.2
10°-20°	640.1	14.4
20°-30°	910.9	20.5
30°-40°	958.8	21.5
40°-50°	799.0	18.0
50°-60°	539.8	12.1
60°-70°	273.7	6.2
70°-80°	88.3	2.0
80°-90°	10.1	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°	1780.3	40.0
0°-40°	2739.0	61.6
0°-60°	4077.8	91.6
0°-90°	4450.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4450.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2446	2446	2446	2446	2446	
5°	2446	2438	2423	2405	2400	232
15°	2355	2330	2264	2219	2211	665
25°	2151	2073	1944	1904	1901	986
35°	1677	1604	1490	1475	1480	1043
45°	1089	1061	1012	1016	1020	843
55°	664	632	590	572	554	598
65°	377	340	276	200	168	375
75°	159	124	59	32	33	171
85°	15	8	2	3	3	25
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°	2446.4	2446.4	2446.4	2446.4	2446.4	2446.4	2446.4	2446.4	2446.4	2446.4	2446.4
2.5°	2452.2	2452.2	2452.2	2452.2	2452.2	2452.2	2451.4	2451.4	2449.7	2449.7	2448.9
5°	2445.6	2446.4	2446.4	2445.6	2445.6	2444.0	2444.0	2443.2	2440.7	2439.0	2438.2
7.5°	2431.6	2431.6	2430.8	2430.0	2429.2	2426.7	2425.9	2423.4	2421.8	2420.1	2416.8
10°	2410.3	2410.3	2409.4	2407.8	2407.0	2405.3	2405.3	2402.0	2398.7	2394.6	2392.2
12.5°	2384.8	2385.6	2383.9	2383.1	2380.7	2379.8	2378.2	2374.1	2371.6	2366.7	2362.6
15°	2355.2	2356.8	2356.8	2353.5	2351.1	2350.2	2347.8	2345.3	2339.5	2334.6	2329.7
17.5°	2326.4	2328.0	2326.4	2323.9	2321.4	2318.2	2316.5	2311.6	2304.2	2297.6	2290.2
20°	2286.1	2288.6	2285.3	2281.2	2276.2	2275.4	2272.9	2264.7	2254.0	2244.1	2233.5
22.5°	2229.3	2227.7	2225.2	2223.6	2215.4	2210.4	2207.1	2196.5	2184.9	2171.8	2158.6
25°	2151.2	2154.5	2149.6	2142.2	2138.1	2133.1	2124.9	2113.4	2102.7	2088.7	2073.1
27.5°	2059.1	2059.1	2052.5	2050.1	2041.0	2034.5	2030.3	2018.8	2004.8	1990.9	1973.6
30°	1953.0	1948.1	1948.1	1936.6	1929.2	1926.7	1922.6	1903.7	1891.4	1876.6	1859.3
32.5°	1824.8	1823.9	1820.6	1813.2	1803.4	1795.2	1795.2	1782.0	1765.6	1747.5	1736.8
35°	1676.7	1677.6	1675.9	1667.7	1667.7	1657.8	1656.2	1644.7	1631.5	1617.5	1604.4
37.5°	1523.8	1527.1	1523.8	1519.7	1517.2	1516.4	1509.0	1500.8	1490.9	1482.7	1472.8
40°	1375.8	1370.8	1372.5	1364.3	1365.1	1363.4	1360.1	1349.4	1343.7	1335.5	1324.8
42.5°	1216.2	1221.2	1222.8	1217.9	1216.2	1212.9	1216.2	1212.1	1205.5	1201.4	1191.6
45°	1088.8	1083.8	1086.3	1084.7	1085.5	1078.9	1076.4	1074.8	1072.3	1064.9	1060.8
47.5°	962.1	963.0	962.1	958.8	957.2	957.2	953.9	949.0	949.0	944.0	940.7
50°	851.9	851.9	853.6	849.5	847.8	844.5	845.4	840.4	837.1	833.0	830.6
52.5°	750.8	751.6	748.3	749.1	747.5	747.5	744.2	740.9	737.6	730.2	728.6
55°	664.4	665.3	661.2	662.8	657.9	655.4	653.8	648.8	648.8	641.4	632.4
57.5°	583.9	583.0	582.2	579.7	576.5	574.0	571.5	565.8	563.3	558.4	551.0
60°	509.0	508.2	506.6	505.7	503.3	497.5	497.5	493.4	485.2	480.2	472.8
62.5°	438.3	438.3	437.5	435.0	432.5	430.1	428.4	425.1	416.9	411.2	404.6
65°	376.6	375.8	373.3	369.2	367.6	367.6	361.8	359.4	352.8	347.0	339.6
67.5°	317.4	314.1	312.5	313.3	308.4	308.4	303.4	299.3	293.6	283.7	277.9
70°	259.9	258.2	256.6	254.9	254.1	250.8	248.3	243.4	237.7	230.3	221.2
72.5°	208.1	208.1	205.6	203.9	201.5	198.2	196.5	192.4	185.8	177.6	171.0
75°	158.7	158.7	158.7	155.4	153.8	152.1	147.2	144.7	137.3	132.4	124.2
77.5°	116.8	115.1	112.7	111.8	110.2	108.5	106.1	102.0	95.4	89.6	84.7
80°	74.0	76.5	74.0	74.0	69.9	68.3	67.4	62.5	60.0	55.1	51.0
82.5°	41.1	41.9	40.3	39.5	37.0	36.2	36.2	32.9	31.2	28.0	25.5
85°	14.8	15.6	14.8	14.8	13.2	14.0	13.2	12.3	10.7	9.0	8.2
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°	2446.4	2446.4	2446.4	2446.4	2446.4	2446.4	2446.4	2446.4	2446.4	2446.4	2446.4
2.5°	2448.9	2447.3	2447.3	2446.4	2445.6	2445.6	2445.6	2444.8	2443.2	2443.2	2442.3
5°	2436.6	2434.9	2432.5	2430.8	2430.0	2429.2	2428.4	2427.5	2424.2	2423.4	2421.0
7.5°	2414.4	2412.7	2408.6	2407.0	2404.5	2403.7	2400.4	2398.7	2395.5	2392.2	2390.5
10°	2388.1	2383.9	2380.7	2376.5	2374.9	2372.4	2368.3	2363.4	2360.9	2356.8	2353.5
12.5°	2358.5	2353.5	2346.9	2342.0	2340.4	2336.2	2329.7	2325.6	2319.8	2313.2	2307.5
15°	2321.4	2315.7	2309.9	2300.9	2298.4	2293.5	2286.9	2278.7	2270.5	2263.9	2257.3
17.5°	2281.2	2272.1	2263.1	2253.2	2245.8	2243.3	2232.6	2221.1	2213.7	2202.2	2194.8
20°	2224.4	2212.1	2197.3	2187.4	2180.8	2173.4	2161.1	2148.8	2139.7	2129.8	2119.2
22.5°	2146.3	2134.8	2117.5	2102.7	2097.8	2087.1	2076.4	2064.9	2053.4	2042.7	2029.5
25°	2054.2	2041.9	2024.6	2009.8	2001.6	1996.6	1976.1	1964.6	1953.0	1944.0	1935.0
27.5°	1959.6	1937.4	1925.9	1902.9	1895.5	1893.8	1874.9	1862.6	1850.3	1837.9	1826.4
30°	1842.8	1825.6	1808.3	1791.9	1782.0	1776.2	1762.3	1746.6	1738.4	1730.2	1718.7
32.5°	1722.0	1706.3	1685.0	1669.3	1661.9	1653.7	1641.4	1630.7	1618.4	1609.3	1606.8
35°	1592.9	1575.6	1557.5	1546.0	1544.3	1534.5	1522.1	1513.1	1504.0	1490.1	1487.6
37.5°	1454.7	1444.8	1432.5	1416.1	1408.7	1408.7	1396.3	1389.7	1378.2	1377.4	1370.8
40°	1319.0	1314.9	1296.0	1291.1	1289.4	1277.9	1274.6	1263.1	1254.9	1254.1	1244.2
42.5°	1185.0	1174.3	1171.0	1162.8	1155.4	1153.7	1146.3	1141.4	1138.1	1133.2	1128.2
45°	1051.8	1049.3	1041.1	1035.3	1032.9	1029.6	1027.1	1017.2	1015.6	1011.5	1009.0
47.5°	936.6	930.1	922.7	916.1	915.3	910.3	904.6	904.6	895.5	894.7	893.1
50°	822.3	817.4	813.3	804.2	805.9	799.3	798.5	791.1	787.0	783.7	787.8
52.5°	722.0	712.1	710.5	703.1	700.6	701.5	692.4	689.9	688.3	685.0	683.4
55°	626.6	621.7	615.1	610.2	606.1	601.9	598.7	598.7	589.6	590.4	586.3
57.5°	542.7	538.6	530.4	523.0	521.4	516.4	512.3	508.2	507.4	501.6	497.5
60°	467.9	460.5	449.8	446.5	441.6	437.5	433.4	428.4	426.0	421.9	414.5
62.5°	398.0	385.7	381.6	375.0	369.2	366.8	360.2	354.4	350.3	344.6	338.8
65°	331.4	322.4	315.0	307.6	306.7	300.2	294.4	289.5	281.2	276.3	265.6
67.5°	270.5	262.3	254.1	246.7	240.9	239.3	230.3	224.5	218.7	208.9	199.8
70°	214.6	206.4	199.8	190.8	188.3	181.7	175.2	169.4	159.5	150.5	143.1
72.5°	163.6	154.6	147.2	140.6	136.5	130.8	124.2	117.6	107.7	98.7	92.1
75°	116.8	110.2	102.8	96.2	92.9	89.6	82.2	74.8	68.3	59.2	53.5
77.5°	78.9	72.4	65.8	60.0	55.9	53.5	48.5	42.8	37.0	32.1	28.0
80°	46.1	41.9	37.0	32.1	31.2	28.8	24.7	21.4	18.1	15.6	12.3
82.5°	22.2	19.7	16.4	14.0	12.3	11.5	9.9	8.2	6.6	5.8	5.8
85°	6.6	5.8	4.9	4.1	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°	2446.4	2446.4	2446.4	2446.4	2446.4	2446.4	2446.4	2446.4	2446.4	2446.4	2446.4
2.5°	2439.9	2439.0	2438.2	2437.4	2435.8	2435.8	2433.3	2431.6	2431.6	2430.0	2429.2
5°	2418.5	2416.0	2415.2	2413.5	2411.9	2411.1	2407.8	2407.0	2405.3	2403.7	2403.7
7.5°	2388.1	2384.8	2381.5	2379.8	2379.0	2376.5	2374.9	2374.1	2371.6	2370.0	2366.7
10°	2347.8	2345.3	2341.2	2339.5	2337.9	2336.2	2332.1	2329.7	2328.8	2327.2	2325.6
12.5°	2300.9	2297.6	2293.5	2290.2	2288.6	2286.1	2282.0	2279.5	2279.5	2276.2	2276.2
15°	2250.7	2245.8	2238.4	2235.1	2234.3	2229.3	2226.1	2222.8	2218.7	2217.0	2217.0
17.5°	2186.6	2178.4	2171.8	2171.8	2168.5	2163.6	2158.6	2156.2	2153.7	2150.4	2148.8
20°	2110.9	2105.2	2097.8	2097.8	2090.4	2088.7	2083.8	2083.0	2077.2	2078.0	2075.6
22.5°	2019.7	2016.4	2012.3	2009.0	2004.8	1999.9	1997.4	1998.3	1995.8	1995.0	1994.2
25°	1927.5	1918.5	1913.6	1911.9	1910.3	1906.2	1904.5	1903.7	1903.7	1901.2	1902.1
27.5°	1821.5	1814.9	1808.3	1810.8	1807.5	1805.0	1803.4	1800.9	1802.6	1801.7	1802.6
30°	1712.9	1704.7	1700.6	1702.2	1701.4	1694.8	1698.1	1697.3	1698.1	1698.1	1699.8
32.5°	1598.6	1592.9	1592.0	1592.9	1585.5	1586.3	1583.0	1587.9	1588.7	1593.7	1589.6
35°	1482.7	1479.4	1473.6	1472.8	1473.6	1472.8	1472.8	1476.1	1475.3	1480.2	1478.6
37.5°	1363.4	1361.8	1356.0	1357.7	1354.4	1360.1	1361.8	1360.1	1365.9	1364.3	1363.4
40°	1246.7	1244.2	1240.9	1247.5	1243.4	1240.1	1245.8	1240.9	1242.5	1247.5	1247.5
42.5°	1128.2	1124.1	1124.1	1124.1	1123.3	1123.3	1125.8	1128.2	1126.6	1127.4	1134.0
45°	1009.0	1008.2	1005.7	1007.4	1006.5	1010.6	1010.6	1012.3	1015.6	1018.9	1017.2
47.5°	893.9	892.2	894.7	893.1	893.9	891.4	893.1	898.0	902.1	896.3	902.1
50°	786.2	782.9	782.0	784.5	783.7	782.9	784.5	784.5	782.9	782.9	788.6
52.5°	683.4	680.1	677.6	681.7	679.2	680.1	676.8	676.8	678.4	676.8	674.3
55°	587.1	584.7	581.4	583.0	578.9	578.1	574.8	574.8	572.3	570.7	565.8
57.5°	495.0	493.4	486.0	485.2	486.0	480.2	474.5	472.0	465.4	463.8	463.0
60°	413.6	404.6	400.5	395.5	392.3	389.8	383.2	379.1	369.2	363.5	362.6
62.5°	328.9	324.8	319.9	312.5	310.8	302.6	296.0	285.3	280.4	273.0	265.6
65°	260.7	250.0	242.6	238.5	231.9	224.5	217.1	205.6	199.8	190.8	183.4
67.5°	190.8	181.7	171.9	168.6	162.8	153.8	146.4	136.5	131.6	123.4	120.9
70°	130.8	122.5	115.1	110.2	106.1	97.0	89.6	86.3	81.4	79.8	79.8
72.5°	83.9	76.5	68.3	65.8	62.5	57.6	52.6	51.0	52.6	51.8	51.8
75°	46.9	42.8	37.0	34.5	34.5	32.9	32.1	32.1	32.1	32.1	32.1
77.5°	23.8	21.4	19.7	18.9	18.9	18.9	19.7	19.7	19.7	20.6	19.7
80°	11.5	10.7	10.7	10.7	11.5	11.5	11.5	11.5	11.5	12.3	11.5
82.5°	5.8	5.8	5.8	5.8	5.8	5.8	6.6	6.6	6.6	6.6	6.6
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: P684372

CATALOG NUMBER: LX6C50D010 EX6C509030 6LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2446.4	2446.4	2446.4	2446.4	2446.4	2446.4	2446.4	2446.4
2.5°	2428.4	2426.7	2426.7	2425.9	2425.9	2425.9	2425.9	2426.7
5°	2402.0	2401.2	2401.2	2399.6	2399.6	2399.6	2399.6	2399.6
7.5°	2366.7	2365.0	2365.9	2364.2	2364.2	2365.0	2364.2	2363.4
10°	2323.1	2322.3	2323.1	2323.1	2321.4	2320.6	2321.4	2322.3
12.5°	2273.8	2272.9	2271.3	2272.1	2272.1	2271.3	2270.5	2268.8
15°	2216.2	2215.4	2214.5	2213.7	2212.9	2213.7	2212.9	2211.3
17.5°	2148.8	2148.8	2147.9	2147.1	2146.3	2144.6	2145.5	2147.9
20°	2076.4	2075.6	2073.9	2074.7	2071.5	2069.8	2070.6	2073.1
22.5°	1993.3	1990.9	1992.5	1990.0	1990.0	1990.9	1990.0	1988.4
25°	1902.9	1899.6	1901.2	1902.1	1902.1	1901.2	1900.4	1901.2
27.5°	1802.6	1805.0	1805.0	1803.4	1805.8	1802.6	1804.2	1805.0
30°	1699.8	1697.3	1696.5	1699.8	1704.7	1700.6	1700.6	1701.4
32.5°	1593.7	1590.4	1590.4	1592.0	1591.2	1591.2	1594.5	1590.4
35°	1480.2	1481.8	1475.3	1479.4	1481.0	1479.4	1480.2	1480.2
37.5°	1365.9	1364.3	1364.3	1364.3	1366.7	1366.7	1368.4	1367.5
40°	1253.2	1249.9	1249.1	1250.8	1247.5	1249.9	1249.9	1247.5
42.5°	1131.5	1132.4	1136.5	1132.4	1133.2	1132.4	1130.7	1129.9
45°	1018.9	1021.3	1019.7	1018.9	1019.7	1016.4	1017.2	1019.7
47.5°	899.6	904.6	899.6	902.9	902.1	900.5	898.8	895.5
50°	787.8	789.4	788.6	787.8	787.0	786.2	782.0	779.6
52.5°	673.5	673.5	673.5	673.5	665.3	669.4	667.7	662.8
55°	561.7	564.1	560.8	560.8	555.1	555.1	553.4	554.3
57.5°	453.9	451.5	449.0	449.0	443.2	440.8	438.3	435.0
60°	353.6	351.1	347.8	343.7	338.0	338.0	336.3	329.8
62.5°	259.0	254.9	252.5	249.2	244.2	240.9	238.5	240.1
65°	177.6	173.5	170.2	170.2	170.2	168.6	167.8	167.8
67.5°	116.8	119.2	117.6	119.2	119.2	117.6	116.8	118.4
70°	80.6	80.6	79.8	79.8	79.8	79.8	78.9	79.8
72.5°	51.8	51.8	51.8	52.6	51.8	51.8	52.6	52.6
75°	32.9	32.9	32.9	33.7	32.9	32.9	33.7	32.9
77.5°	19.7	20.6	20.6	20.6	20.6	19.7	20.6	20.6
80°	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
82.5°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
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)