

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: P859086

Luminaire Tested: **LX4C55D010 EX4C559030 4LBLWWH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P859086
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-2)
Test Lab: INNOVATION CENTER
Issue Date: 2/14/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C55D010 EX4C559030 4LBLWWH
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

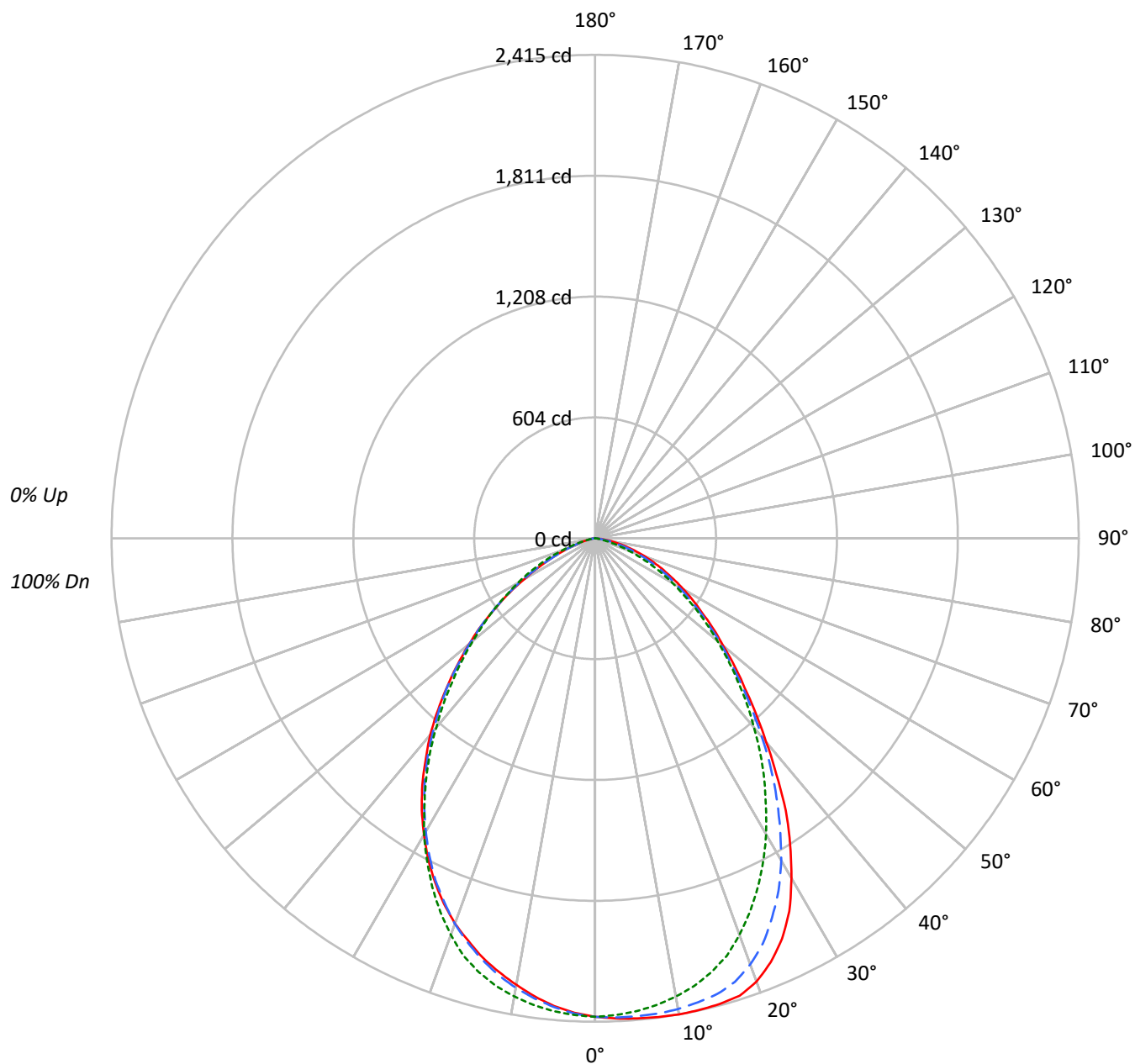
Lumens per Lamp: N/A
Luminaire Lumens: 4505.0 lumens
Efficiency: N/A
Efficacy: 70.5 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 63.9
Input Voltage (V):
Input Current (Ain): 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
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			50
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	111	107	104	101	108	105	102	99		101	98	96			97	95	93			94
2	103	96	90	86	100	94	89	85		91	86	83			88	84	81			85
3	95	86	79	74	93	85	78	73		82	76	72			79	75	71			77
4	88	78	70	64	86	77	69	64		74	68	63			72	67	62			70
5	82	71	63	57	80	69	62	57		67	61	56			66	60	55			64
6	76	64	56	51	74	63	56	50		62	55	50			60	54	50			59
7	71	59	51	46	69	58	51	45		57	50	45			55	49	45			54
8	67	54	47	41	65	54	46	41		52	46	41			51	45	41			50
9	62	50	43	38	61	50	42	37		49	42	37			47	41	37			47
10	59	47	39	34	58	46	39	34		45	39	34			44	38	34			43

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	293681	293681	293681
5°	296949	292423	289241
10°	301306	289953	282606
15°	306254	285332	275856
20°	308202	275622	267686
25°	299357	260724	256739
30°	278200	242338	242465
35°	249036	220900	225595
40°	213217	198030	205246
45°	183540	174592	181142
50°	159552	152003	156570
55°	140401	130762	129584
60°	124917	109118	100519
65°	109592	87383	72703
70°	94110	61746	49210
75°	76374	35790	28812
80°	54618	15635	14291
85°	20721	6484	6484



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.3	5.0
10°-20°	637.7	14.2
20°-30°	910.6	20.2
30°-40°	952.6	21.1
40°-50°	798.2	17.7
50°-60°	558.6	12.4
60°-70°	304.2	6.8
70°-80°	105.6	2.3
80°-90°	12.1	0.3
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°	1773.6	39.4
0°-40°	2726.3	60.5
0°-60°	4083.1	90.6
0°-90°	4505.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4505.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2390	2390	2390	2390	2390	
5°	2408	2397	2371	2351	2345	230
15°	2408	2357	2243	2179	2169	680
25°	2208	2091	1923	1886	1894	1008
35°	1660	1579	1473	1484	1504	1030
45°	1056	1032	1005	1038	1043	821
55°	656	634	610	610	605	592
65°	377	344	301	253	250	375
75°	161	131	75	61	61	173
85°	15	8	5	5	5	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°	2390.5	2390.5	2390.5	2390.5	2390.5	2390.5	2390.5	2390.5	2390.5	2390.5	2390.5
2.5°	2401.5	2398.7	2399.7	2399.7	2399.7	2398.7	2399.7	2398.7	2398.7	2397.8	2396.0
5°	2407.9	2406.1	2406.1	2406.1	2405.2	2404.3	2404.3	2403.3	2401.5	2400.6	2396.9
7.5°	2412.5	2410.7	2410.7	2409.8	2408.9	2407.9	2407.0	2404.3	2401.5	2399.7	2395.1
10°	2415.3	2412.5	2412.5	2410.7	2408.9	2407.9	2406.1	2402.4	2398.7	2394.1	2387.7
12.5°	2413.4	2410.7	2409.8	2407.9	2404.3	2402.4	2400.6	2396.0	2389.5	2383.1	2374.8
15°	2407.9	2406.1	2404.3	2401.5	2396.9	2394.1	2392.3	2384.9	2376.7	2367.5	2357.4
17.5°	2396.9	2394.1	2390.5	2386.8	2380.3	2377.6	2373.0	2363.8	2351.8	2339.0	2323.3
20°	2357.4	2355.5	2351.8	2345.4	2335.3	2331.6	2325.2	2313.2	2297.6	2282.0	2265.4
22.5°	2292.1	2289.3	2283.8	2278.3	2269.1	2262.7	2257.1	2240.6	2223.1	2206.6	2191.0
25°	2208.4	2205.7	2198.3	2191.0	2181.8	2170.7	2165.2	2152.3	2134.9	2113.7	2090.7
27.5°	2100.8	2091.7	2088.9	2080.6	2066.8	2063.2	2054.9	2038.3	2021.8	2003.4	1984.1
30°	1961.1	1961.1	1955.6	1951.9	1939.0	1935.4	1926.2	1908.7	1899.5	1873.8	1859.0
32.5°	1813.1	1811.2	1806.6	1803.9	1796.5	1790.1	1780.9	1771.7	1751.5	1738.6	1718.4
35°	1660.5	1649.4	1651.3	1645.7	1641.1	1633.8	1632.9	1622.8	1604.4	1597.0	1578.6
37.5°	1486.7	1482.1	1488.5	1480.2	1475.7	1476.6	1469.2	1462.8	1455.4	1442.6	1438.9
40°	1329.5	1333.1	1332.2	1324.9	1328.5	1323.9	1316.6	1310.2	1306.5	1298.2	1295.4
42.5°	1188.8	1183.3	1181.4	1181.4	1182.4	1182.4	1178.7	1174.1	1174.1	1165.8	1157.5
45°	1056.4	1056.4	1054.6	1060.1	1051.8	1051.8	1049.0	1048.1	1044.4	1042.6	1032.5
47.5°	942.4	941.5	940.6	939.6	938.7	938.7	933.2	928.6	927.7	922.2	916.7
50°	834.8	840.3	838.5	833.9	832.1	833.0	829.3	826.5	825.6	816.4	817.4
52.5°	744.7	743.8	745.6	742.9	738.3	739.2	735.5	731.8	728.2	723.6	719.9
55°	655.5	660.1	658.3	655.5	654.6	652.8	650.0	645.4	644.5	634.4	633.5
57.5°	581.1	580.1	578.3	573.7	572.8	570.0	570.0	566.4	560.8	555.3	550.7
60°	508.4	508.4	505.7	504.8	501.1	500.2	499.2	495.6	489.1	484.5	477.2
62.5°	438.6	440.4	438.6	435.8	433.0	429.4	427.5	424.8	419.3	414.7	408.2
65°	377.0	376.0	375.1	371.4	370.5	366.8	365.9	360.4	354.9	351.2	343.9
67.5°	318.1	315.4	315.4	313.5	311.7	308.9	307.1	301.6	295.1	291.5	284.1
70°	262.0	260.2	260.2	260.2	255.6	252.8	251.9	249.2	240.0	236.3	228.9
72.5°	210.5	209.6	208.7	205.9	203.2	203.2	199.5	194.0	189.4	184.8	179.3
75°	160.9	162.7	160.9	157.2	156.3	154.5	151.7	147.1	142.5	137.0	130.6
77.5°	117.7	115.8	114.0	114.0	112.2	108.5	107.6	103.9	98.4	94.7	88.3
80°	77.2	76.3	74.5	72.6	71.7	70.8	69.9	66.2	60.7	57.9	52.4
82.5°	42.3	41.4	41.4	40.5	37.7	37.7	36.8	33.1	30.3	28.5	25.7
85°	14.7	14.7	14.7	13.8	13.8	13.8	12.9	12.0	11.0	10.1	8.3
87.5°	1.8	0.9	1.8	0.9	1.8	0.9	0.9	0.9	0.9	0.9	0.9
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°	2390.5	2390.5	2390.5	2390.5	2390.5	2390.5	2390.5	2390.5	2390.5	2390.5	2390.5
2.5°	2394.1	2392.3	2391.4	2390.5	2389.5	2388.6	2387.7	2385.9	2384.9	2384.0	2382.2
5°	2394.1	2390.5	2388.6	2385.9	2384.0	2382.2	2379.4	2376.7	2373.9	2371.2	2368.4
7.5°	2390.5	2384.9	2381.3	2375.8	2373.9	2371.2	2365.6	2362.0	2357.4	2351.8	2345.4
10°	2381.3	2374.8	2367.5	2360.1	2357.4	2352.8	2345.4	2339.0	2331.6	2324.3	2317.8
12.5°	2366.6	2356.4	2347.3	2337.1	2331.6	2327.0	2316.9	2307.7	2298.5	2290.2	2279.2
15°	2344.5	2332.5	2320.6	2306.8	2300.4	2294.8	2280.1	2269.1	2254.4	2243.4	2232.3
17.5°	2308.6	2290.2	2275.5	2258.1	2248.9	2242.4	2229.6	2212.1	2198.3	2186.4	2173.5
20°	2247.0	2229.6	2209.3	2190.0	2179.9	2171.6	2153.3	2134.9	2121.1	2108.2	2094.4
22.5°	2166.1	2144.1	2129.4	2105.4	2097.2	2087.1	2065.0	2048.4	2032.8	2019.9	2007.1
25°	2067.8	2048.4	2028.2	2006.1	1996.0	1984.1	1965.7	1948.2	1938.1	1923.4	1907.8
27.5°	1954.7	1939.0	1914.2	1894.9	1884.8	1875.6	1858.1	1842.5	1827.8	1817.7	1803.0
30°	1835.1	1816.8	1794.7	1774.5	1768.9	1757.9	1742.3	1730.3	1714.7	1708.3	1701.8
32.5°	1703.7	1682.5	1666.0	1653.1	1642.1	1632.9	1624.6	1605.3	1602.5	1586.0	1584.1
35°	1560.2	1551.0	1535.4	1524.4	1515.2	1508.7	1495.0	1485.8	1475.7	1472.9	1466.5
37.5°	1425.1	1414.1	1399.3	1389.2	1382.8	1381.9	1371.8	1366.2	1358.9	1355.2	1347.9
40°	1283.5	1278.9	1266.0	1264.2	1254.1	1253.2	1247.6	1241.2	1234.8	1234.8	1235.7
42.5°	1152.9	1147.4	1141.9	1135.5	1130.0	1130.0	1127.2	1125.4	1123.5	1120.8	1125.4
45°	1030.7	1023.3	1019.6	1013.2	1015.9	1010.4	1008.6	1008.6	1005.8	1004.9	1011.3
47.5°	916.7	908.4	904.7	902.9	902.9	903.8	895.5	898.3	897.3	899.2	901.9
50°	812.8	805.4	799.9	799.9	800.8	797.1	793.4	796.2	793.4	795.3	801.7
52.5°	716.2	708.9	706.1	706.1	700.6	699.7	701.5	697.8	698.8	699.7	703.3
55°	627.0	622.4	617.8	613.2	614.2	612.3	608.6	607.7	609.6	610.5	615.1
57.5°	547.0	540.6	534.2	532.3	530.5	530.5	525.9	525.0	526.8	522.2	522.2
60°	470.7	467.1	458.8	456.0	456.0	451.4	447.8	449.6	445.0	444.1	445.0
62.5°	399.9	397.2	391.7	386.2	384.3	382.5	377.9	376.0	374.2	370.5	365.0
65°	338.3	331.9	325.5	321.8	319.0	314.4	311.7	308.0	302.5	300.6	295.1
67.5°	276.7	270.3	263.9	261.1	258.4	255.6	251.0	246.4	240.0	232.6	226.2
70°	222.5	214.2	210.5	203.2	201.4	197.7	191.2	186.6	180.2	171.9	165.5
72.5°	170.1	164.6	159.1	152.6	148.0	145.3	139.8	132.4	125.0	120.4	114.0
75°	122.3	119.5	112.2	104.8	103.0	99.3	92.9	88.3	82.7	75.4	69.9
77.5°	82.7	77.2	72.6	66.2	64.4	60.7	57.0	52.4	48.7	44.1	40.5
80°	48.7	44.1	41.4	36.8	34.9	33.1	30.3	26.7	23.9	22.1	21.1
82.5°	23.9	20.2	19.3	16.5	15.6	14.7	12.9	12.0	10.1	10.1	10.1
85°	8.3	6.4	6.4	5.5	4.6	4.6	4.6	4.6	4.6	4.6	4.6
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.8	0.9
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°	2390.5	2390.5	2390.5	2390.5	2390.5	2390.5	2390.5	2390.5	2390.5	2390.5	2390.5
2.5°	2381.3	2380.3	2379.4	2378.5	2378.5	2377.6	2377.6	2376.7	2376.7	2375.8	2375.8
5°	2364.7	2362.0	2360.1	2358.3	2358.3	2355.5	2353.7	2351.8	2350.9	2350.9	2349.1
7.5°	2341.7	2338.1	2334.4	2331.6	2330.7	2326.1	2322.4	2322.4	2318.7	2316.9	2315.1
10°	2311.4	2305.0	2299.4	2296.7	2293.0	2290.2	2285.7	2282.9	2280.1	2275.5	2274.6
12.5°	2270.0	2265.4	2257.1	2253.5	2251.6	2246.1	2238.8	2235.1	2234.2	2230.5	2227.7
15°	2223.1	2213.0	2205.7	2201.1	2201.1	2191.9	2188.2	2182.7	2179.0	2176.2	2175.3
17.5°	2162.4	2152.3	2145.0	2138.5	2136.7	2129.4	2123.8	2122.0	2117.4	2119.2	2114.6
20°	2084.3	2076.0	2070.5	2062.2	2062.2	2057.6	2055.8	2051.2	2049.4	2047.5	2049.4
22.5°	2000.6	1990.5	1981.3	1980.4	1980.4	1974.0	1973.1	1972.1	1968.5	1971.2	1970.3
25°	1902.3	1894.9	1889.4	1888.5	1888.5	1884.8	1881.1	1882.9	1885.7	1884.8	1887.5
27.5°	1800.2	1792.8	1791.0	1790.1	1788.3	1787.3	1789.2	1789.2	1791.9	1795.6	1799.3
30°	1689.9	1688.0	1685.3	1684.4	1682.5	1687.1	1689.0	1691.7	1690.8	1696.3	1700.0
32.5°	1579.5	1575.9	1574.9	1576.8	1579.5	1578.6	1584.1	1586.0	1587.8	1594.3	1597.0
35°	1468.3	1467.4	1465.5	1465.5	1466.5	1473.8	1473.8	1480.2	1483.9	1485.8	1493.1
37.5°	1348.8	1352.5	1354.3	1357.0	1358.0	1360.7	1362.6	1369.0	1372.7	1376.4	1380.0
40°	1239.4	1237.5	1245.8	1240.3	1242.1	1250.4	1254.1	1253.2	1258.7	1264.2	1267.9
42.5°	1122.6	1125.4	1127.2	1129.0	1133.6	1134.6	1139.1	1145.6	1147.4	1153.9	1155.7
45°	1009.5	1010.4	1014.1	1017.8	1020.5	1027.9	1029.7	1032.5	1038.0	1038.0	1040.8
47.5°	902.9	906.5	906.5	912.1	916.7	915.7	922.2	924.0	923.1	927.7	929.5
50°	800.8	806.3	805.4	809.1	810.9	811.8	817.4	819.2	815.5	820.1	821.0
52.5°	703.3	706.1	709.8	710.7	708.9	713.5	711.6	715.3	714.4	718.1	714.4
55°	614.2	613.2	613.2	615.1	613.2	615.1	616.9	613.2	610.5	614.2	613.2
57.5°	525.0	525.0	523.1	525.9	523.1	520.4	519.5	516.7	513.9	513.9	513.0
60°	441.3	439.5	435.8	434.9	434.9	430.3	428.4	424.8	424.8	421.1	417.4
62.5°	363.2	358.6	355.8	355.8	354.0	349.4	341.1	335.6	333.7	328.2	327.3
65°	289.6	285.0	282.3	276.7	272.1	270.3	262.0	255.6	252.8	247.3	248.2
67.5°	222.5	215.1	206.9	203.2	200.4	194.0	191.2	186.6	183.9	183.9	183.9
70°	160.0	153.5	145.3	142.5	140.7	135.2	132.4	131.5	134.2	133.3	134.2
72.5°	107.6	101.1	97.5	95.6	93.8	91.0	92.9	93.8	91.9	92.9	93.8
75°	65.3	63.4	60.7	59.8	59.8	60.7	59.8	59.8	60.7	60.7	61.6
77.5°	37.7	35.9	35.9	34.9	36.8	35.9	35.9	35.9	36.8	36.8	36.8
80°	20.2	20.2	20.2	20.2	21.1	20.2	21.1	21.1	21.1	21.1	21.1
82.5°	10.1	10.1	10.1	11.0	11.0	11.0	11.0	11.0	11.0	11.0	10.1
85°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
87.5°	0.9	1.8	1.8	1.8	1.8	1.8	0.9	0.9	0.9	0.9	0.9
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: P859086

CATALOG NUMBER: LX4C55D010 EX4C559030 4LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2390.5	2390.5	2390.5	2390.5	2390.5	2390.5	2390.5	2390.5
2.5°	2373.9	2373.9	2373.9	2372.1	2373.0	2373.0	2372.1	2372.1
5°	2348.2	2347.3	2345.4	2345.4	2343.6	2345.4	2344.5	2345.4
7.5°	2313.2	2313.2	2310.5	2310.5	2309.6	2308.6	2307.7	2308.6
10°	2271.9	2271.9	2270.0	2269.1	2270.0	2266.3	2266.3	2265.4
12.5°	2225.9	2224.0	2222.2	2223.1	2222.2	2219.5	2218.5	2219.5
15°	2172.6	2169.8	2170.7	2168.0	2168.0	2167.0	2168.9	2168.9
17.5°	2113.7	2111.9	2110.0	2111.0	2109.1	2110.0	2109.1	2108.2
20°	2048.4	2047.5	2047.5	2043.8	2044.8	2043.8	2044.8	2047.5
22.5°	1973.1	1972.1	1973.1	1970.3	1972.1	1972.1	1974.9	1974.9
25°	1890.3	1889.4	1891.2	1892.1	1893.1	1895.8	1893.1	1894.0
27.5°	1798.4	1801.1	1803.9	1804.8	1808.5	1805.7	1803.9	1806.6
30°	1705.5	1705.5	1704.6	1708.3	1711.0	1713.8	1709.2	1709.2
32.5°	1598.9	1603.4	1603.4	1604.4	1607.1	1607.1	1607.1	1610.8
35°	1496.8	1499.6	1500.5	1496.8	1498.6	1497.7	1504.2	1504.2
37.5°	1382.8	1382.8	1383.7	1390.1	1390.1	1387.4	1389.2	1389.2
40°	1274.3	1275.2	1271.5	1273.4	1278.0	1276.1	1278.0	1279.8
42.5°	1155.7	1162.1	1158.5	1160.3	1159.4	1160.3	1161.2	1161.2
45°	1042.6	1044.4	1044.4	1045.4	1047.2	1049.0	1043.5	1042.6
47.5°	932.3	933.2	936.0	931.4	936.9	931.4	936.9	930.4
50°	821.0	824.7	822.0	823.8	821.0	821.0	820.1	819.2
52.5°	715.3	714.4	714.4	713.5	713.5	715.3	713.5	716.2
55°	609.6	610.5	608.6	607.7	606.8	609.6	606.8	605.0
57.5°	509.4	511.2	507.5	509.4	502.9	505.7	506.6	507.5
60°	416.5	413.7	413.7	410.1	410.1	412.8	409.1	409.1
62.5°	322.7	324.6	321.8	325.5	325.5	329.1	327.3	329.1
65°	247.3	248.2	249.2	249.2	249.2	254.7	252.8	250.1
67.5°	186.6	187.6	188.5	187.6	190.3	188.5	188.5	189.4
70°	135.2	136.1	137.0	137.0	136.1	137.0	137.0	137.0
72.5°	93.8	94.7	93.8	94.7	95.6	94.7	94.7	95.6
75°	61.6	61.6	60.7	60.7	60.7	60.7	61.6	60.7
77.5°	35.9	36.8	35.9	36.8	36.8	36.8	36.8	36.8
80°	21.1	21.1	21.1	20.2	21.1	21.1	21.1	20.2
82.5°	11.0	11.0	10.1	10.1	11.0	11.0	11.0	11.0
85°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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)