

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: P859106

Luminaire Tested: **LX4C55D010 EX4C559035 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P859106
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-1)
Test Lab: INNOVATION CENTER
Issue Date: 2/9/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C55D010 EX4C559035 4LBLWW*
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LRLWW TRIM WITH * FINISH
Light Source: -
Ballast/Driver: -

Summary

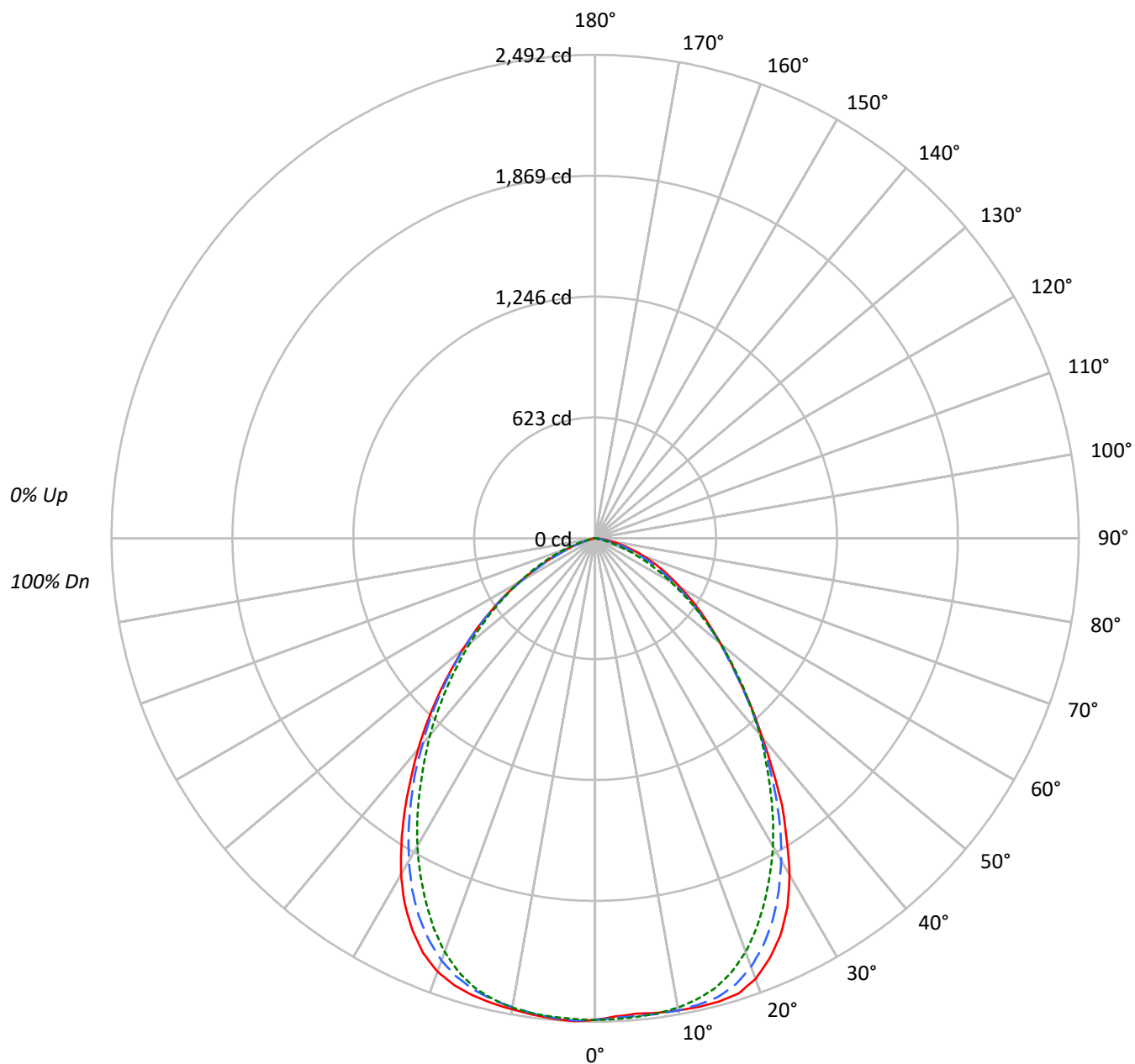
Lumens per Lamp: N/A
Luminaire Lumens: 4760.0 lumens
Efficiency: N/A
Efficacy: 74.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	109	105	102	99		101	99	96			97	95	93			94
2	103	96	91	86	101	95	89	85		91	87	83			88	84	81			85
3	95	87	80	74	93	85	79	74		82	77	72			80	75	71			77
4	88	78	71	65	86	77	70	65		75	69	64			72	67	63			70
5	82	71	63	57	80	70	63	57		68	61	57			66	60	56			64
6	76	65	57	51	75	64	56	51		62	56	51			61	55	50			59
7	71	59	51	46	70	59	51	46		57	50	46			56	50	45			54
8	67	55	47	42	65	54	47	42		53	46	41			52	46	41			50
9	63	51	43	38	61	50	43	38		49	42	38			48	42	38			47
10	59	47	40	35	58	46	39	35		45	39	35			45	39	35			44

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	305021	305021	305021
5°	303312	305384	306531
10°	308329	306470	307630
15°	314356	305110	310210
20°	315941	296566	310699
25°	306216	280068	302055
30°	284229	259886	283704
35°	251690	235748	256445
40°	214564	212319	227426
45°	184339	186442	198100
50°	160909	161272	169816
55°	142178	136202	140786
60°	124623	111109	110642
65°	110319	86191	76715
70°	94110	59268	45547
75°	76137	31850	20791
80°	52142	7924	5306
85°	15787	2678	2678



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.0	5.0
10°-20°	683.1	14.4
20°-30°	987.0	20.7
30°-40°	1020.4	21.4
40°-50°	843.1	17.7
50°-60°	581.9	12.2
60°-70°	304.6	6.4
70°-80°	95.9	2.0
80°-90°	8.1	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°	1906.0	40.0
0°-40°	2926.4	61.5
0°-60°	4351.4	91.4
0°-90°	4760.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4760.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2483	2483	2483	2483	2483	
5°	2460	2472	2476	2481	2486	235
15°	2472	2448	2399	2410	2439	697
25°	2259	2168	2066	2149	2228	1031
35°	1678	1622	1572	1654	1710	1042
45°	1061	1056	1073	1122	1140	827
55°	664	643	636	654	657	596
65°	380	344	296	246	264	376
75°	160	126	67	46	44	172
85°	11	6	2	2	2	23
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°	2482.8	2482.8	2482.8	2482.8	2482.8	2482.8	2482.8	2482.8	2482.8	2482.8	2482.8
2.5°	2467.0	2467.9	2467.9	2469.8	2469.8	2469.8	2470.7	2470.7	2471.6	2472.6	2473.5
5°	2459.5	2459.5	2461.4	2462.3	2464.2	2465.1	2467.0	2467.9	2469.8	2470.7	2471.6
7.5°	2467.0	2467.0	2467.9	2468.8	2468.8	2469.8	2469.8	2470.7	2471.6	2472.6	2472.6
10°	2471.6	2471.6	2471.6	2471.6	2472.6	2472.6	2472.6	2471.6	2471.6	2471.6	2470.7
12.5°	2473.5	2473.5	2472.6	2471.6	2472.6	2471.6	2471.6	2468.8	2467.0	2465.1	2462.3
15°	2471.6	2471.6	2470.7	2469.8	2468.8	2467.0	2466.0	2461.4	2457.6	2452.0	2448.3
17.5°	2459.5	2457.6	2455.8	2453.9	2450.2	2447.4	2445.5	2437.1	2430.6	2421.3	2411.0
20°	2416.6	2414.7	2412.0	2407.3	2402.6	2398.9	2393.3	2381.2	2374.7	2360.7	2350.4
22.5°	2346.7	2344.8	2345.8	2337.4	2328.0	2322.4	2318.7	2308.5	2297.3	2279.6	2268.4
25°	2259.0	2253.5	2253.5	2240.4	2235.7	2232.0	2227.3	2215.2	2198.4	2182.6	2167.7
27.5°	2145.3	2137.8	2134.1	2132.3	2121.1	2112.7	2106.1	2096.8	2082.8	2068.9	2048.3
30°	2003.6	2002.7	1998.0	1989.6	1981.2	1977.5	1970.0	1954.2	1941.1	1930.9	1917.8
32.5°	1836.7	1835.8	1835.8	1835.8	1830.2	1829.2	1818.1	1809.7	1799.4	1783.6	1775.2
35°	1678.2	1677.3	1678.2	1664.2	1660.5	1657.7	1656.8	1651.2	1637.2	1629.7	1622.3
37.5°	1499.2	1502.0	1500.1	1496.4	1501.1	1492.7	1499.2	1487.1	1481.5	1479.6	1471.2
40°	1337.9	1345.4	1337.9	1338.8	1343.5	1335.1	1335.1	1333.2	1329.5	1327.6	1325.8
42.5°	1199.9	1190.6	1196.2	1191.5	1196.2	1193.4	1188.7	1191.5	1192.5	1188.7	1187.8
45°	1061.0	1062.9	1064.7	1061.9	1061.9	1059.1	1066.6	1061.9	1061.9	1062.9	1056.3
47.5°	948.2	945.4	947.3	945.4	946.3	944.5	946.3	947.3	945.4	945.4	939.8
50°	841.9	840.0	846.6	841.0	841.0	840.0	841.0	839.1	836.3	836.3	838.2
52.5°	749.6	745.9	744.9	749.6	743.1	743.1	744.0	742.1	738.4	736.5	731.9
55°	663.8	662.9	663.8	660.1	658.2	658.2	653.6	651.7	650.8	646.1	643.3
57.5°	583.6	580.8	581.8	580.8	577.1	576.2	572.5	572.5	568.7	565.0	560.3
60°	507.2	507.2	510.0	506.3	503.5	501.6	499.7	497.9	491.3	484.8	479.2
62.5°	439.1	440.1	439.1	436.3	434.5	432.6	430.7	425.1	419.6	415.8	409.3
65°	379.5	378.5	375.7	373.9	369.2	369.2	365.5	362.7	356.2	350.6	344.0
67.5°	317.9	316.1	316.1	316.1	310.5	309.5	307.7	302.1	296.5	289.0	283.4
70°	262.0	263.9	261.1	258.3	255.5	254.5	251.7	246.1	239.6	232.2	227.5
72.5°	208.8	210.7	207.9	207.0	201.4	199.5	198.6	193.9	186.5	181.8	174.3
75°	160.4	161.3	159.4	157.6	153.8	152.9	148.2	144.5	139.9	132.4	125.9
77.5°	115.6	113.7	113.7	110.0	106.3	106.3	105.4	99.8	93.2	87.6	82.0
80°	73.7	72.7	69.9	68.1	65.3	64.3	63.4	58.7	54.1	50.3	46.6
82.5°	37.3	36.4	35.4	34.5	32.6	30.8	31.7	28.0	26.1	22.4	19.6
85°	11.2	12.1	12.1	11.2	10.3	10.3	10.3	9.3	7.5	6.5	5.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	2482.8	2482.8	2482.8	2482.8	2482.8	2482.8	2482.8	2482.8	2482.8	2482.8	2482.8
2.5°	2474.4	2475.3	2476.3	2477.2	2477.2	2478.1	2479.1	2480.0	2480.9	2480.9	2481.9
5°	2472.6	2474.4	2474.4	2475.3	2475.3	2475.3	2476.3	2476.3	2476.3	2476.3	2477.2
7.5°	2473.5	2473.5	2473.5	2472.6	2472.6	2471.6	2471.6	2471.6	2469.8	2469.8	2469.8
10°	2468.8	2467.9	2467.0	2465.1	2464.2	2463.2	2461.4	2459.5	2457.6	2456.7	2454.8
12.5°	2459.5	2455.8	2452.0	2448.3	2446.4	2445.5	2441.8	2439.0	2436.2	2433.4	2431.5
15°	2440.9	2435.3	2428.7	2421.3	2419.4	2417.5	2411.0	2405.4	2401.7	2398.9	2394.2
17.5°	2403.6	2392.4	2384.9	2373.7	2369.1	2367.2	2356.9	2351.3	2344.8	2343.0	2339.2
20°	2337.4	2327.1	2313.1	2302.9	2297.3	2291.7	2283.3	2275.8	2268.4	2268.4	2263.7
22.5°	2254.4	2241.3	2223.6	2210.6	2209.6	2198.4	2191.0	2182.6	2179.8	2174.2	2174.2
25°	2150.0	2138.8	2119.2	2108.0	2102.4	2099.6	2087.5	2076.3	2070.7	2066.1	2069.8
27.5°	2034.4	2017.6	2002.7	1988.7	1984.0	1978.4	1967.2	1962.6	1952.3	1951.4	1950.4
30°	1902.0	1885.2	1870.3	1863.7	1854.4	1849.8	1841.4	1835.8	1832.0	1832.0	1830.2
32.5°	1763.0	1748.1	1740.7	1726.7	1722.0	1715.5	1709.9	1704.3	1706.2	1704.3	1705.2
35°	1612.9	1609.2	1595.2	1586.8	1586.8	1585.9	1576.6	1572.8	1571.0	1571.9	1576.6
37.5°	1470.3	1459.1	1449.8	1444.2	1448.8	1443.3	1442.3	1442.3	1447.9	1444.2	1451.6
40°	1318.3	1317.4	1313.7	1315.5	1316.5	1309.9	1311.8	1312.7	1316.5	1323.9	1324.8
42.5°	1185.9	1185.0	1185.0	1185.0	1183.1	1179.4	1183.1	1189.7	1188.7	1194.3	1199.0
45°	1058.2	1056.3	1060.1	1057.3	1062.9	1064.7	1061.9	1063.8	1069.4	1073.1	1080.6
47.5°	941.7	941.7	942.6	944.5	938.9	943.5	945.4	949.1	951.9	953.8	957.5
50°	833.5	833.5	831.6	831.6	831.6	834.4	830.7	835.4	836.3	843.8	848.4
52.5°	733.7	729.1	731.9	730.0	726.3	724.4	726.3	727.2	732.8	734.7	740.3
55°	638.6	638.6	631.2	629.3	632.1	631.2	630.3	630.3	633.1	635.9	640.5
57.5°	554.7	549.1	543.6	542.6	539.8	540.8	540.8	539.8	538.0	538.9	539.8
60°	475.5	471.8	463.4	463.4	462.4	461.5	456.8	455.9	451.3	452.2	448.5
62.5°	402.8	400.9	389.7	386.0	386.0	383.2	378.5	377.6	371.1	371.1	367.3
65°	337.5	331.9	325.4	318.9	318.9	315.1	312.3	303.9	299.3	296.5	290.9
67.5°	277.8	269.4	262.9	257.3	253.6	252.7	246.1	240.5	233.1	228.4	220.0
70°	220.0	213.5	207.0	201.4	197.7	193.9	187.4	179.0	173.4	165.0	159.4
72.5°	166.0	160.4	154.8	147.3	142.6	139.9	133.3	125.9	116.5	110.9	103.5
75°	119.3	112.8	105.4	98.8	96.0	93.2	85.8	80.2	73.7	67.1	59.7
77.5°	77.4	69.9	64.3	56.9	55.9	54.1	46.6	41.0	36.4	32.6	28.0
80°	41.0	37.3	32.6	28.0	26.1	23.3	19.6	16.8	14.0	11.2	9.3
82.5°	17.7	14.9	12.1	10.3	9.3	8.4	6.5	5.6	4.7	4.7	3.7
85°	4.7	3.7	3.7	2.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9
87.5°	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.0	0.9	0.9	0.0
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°	2482.8	2482.8	2482.8	2482.8	2482.8	2482.8	2482.8	2482.8	2482.8	2482.8	2482.8
2.5°	2482.8	2483.7	2484.7	2484.7	2485.6	2486.5	2486.5	2487.5	2488.4	2489.3	2489.3
5°	2478.1	2478.1	2478.1	2479.1	2479.1	2479.1	2479.1	2480.9	2480.9	2481.9	2482.8
7.5°	2468.8	2468.8	2468.8	2468.8	2467.9	2468.8	2467.9	2467.9	2469.8	2470.7	2471.6
10°	2453.9	2453.0	2453.0	2452.0	2452.0	2452.0	2453.0	2453.9	2454.8	2455.8	2458.6
12.5°	2430.6	2429.7	2429.7	2428.7	2428.7	2429.7	2430.6	2432.5	2436.2	2438.1	2441.8
15°	2393.3	2392.4	2393.3	2394.2	2396.1	2398.9	2401.7	2404.5	2410.1	2414.7	2419.4
17.5°	2339.2	2340.2	2341.1	2343.0	2345.8	2349.5	2356.9	2364.4	2370.9	2378.4	2385.8
20°	2264.6	2268.4	2269.3	2275.8	2277.7	2286.1	2294.5	2305.7	2315.9	2325.2	2335.5
22.5°	2175.1	2177.9	2181.7	2189.1	2193.8	2205.0	2215.2	2228.3	2239.5	2251.6	2266.5
25°	2073.5	2074.4	2085.6	2085.6	2096.8	2106.1	2118.3	2132.3	2149.0	2164.9	2175.1
27.5°	1957.9	1962.6	1971.0	1974.7	1983.1	1998.0	2008.2	2025.0	2041.8	2055.8	2067.0
30°	1836.7	1840.4	1854.4	1856.3	1862.8	1875.9	1889.8	1905.7	1918.7	1934.6	1944.9
32.5°	1709.0	1719.2	1727.6	1734.1	1736.0	1755.6	1763.0	1774.2	1789.2	1805.0	1815.3
35°	1585.0	1589.6	1601.8	1605.5	1611.1	1622.3	1637.2	1646.5	1654.0	1664.2	1676.3
37.5°	1453.5	1467.5	1470.3	1481.5	1483.3	1493.6	1501.1	1512.2	1521.6	1530.9	1532.8
40°	1331.4	1336.0	1346.3	1349.1	1351.0	1364.9	1374.3	1377.1	1381.7	1390.1	1401.3
42.5°	1207.4	1212.0	1223.2	1220.4	1228.8	1235.3	1240.0	1251.2	1255.9	1258.7	1258.7
45°	1085.2	1087.1	1094.6	1098.3	1103.0	1106.7	1115.1	1120.7	1122.5	1130.9	1133.7
47.5°	968.7	970.6	976.2	982.7	980.8	985.5	994.8	997.6	998.5	1004.1	1006.9
50°	854.0	858.7	866.1	864.3	869.9	872.7	881.1	882.9	882.9	883.9	884.8
52.5°	746.8	750.5	752.4	754.3	757.1	761.7	765.4	763.6	767.3	771.0	768.2
55°	640.5	643.3	648.0	649.8	649.8	650.8	648.9	657.3	653.6	652.6	653.6
57.5°	543.6	539.8	538.9	543.6	545.4	544.5	541.7	545.4	545.4	543.6	540.8
60°	449.4	446.6	445.7	446.6	442.9	440.1	441.9	440.1	435.4	433.5	434.5
62.5°	363.6	360.8	353.4	353.4	351.5	350.6	343.1	344.0	340.3	334.7	336.6
65°	284.4	276.9	273.2	272.2	265.7	260.1	258.3	251.7	246.1	245.2	246.1
67.5°	213.5	205.1	198.6	195.8	192.1	187.4	180.9	175.3	177.1	176.2	179.9
70°	148.2	142.6	136.1	131.5	133.3	127.7	124.0	124.0	124.9	125.9	127.7
72.5°	98.8	91.4	88.6	85.8	83.9	80.2	82.0	82.0	81.1	82.0	80.2
75°	55.9	52.2	49.4	48.5	46.6	46.6	46.6	46.6	45.7	44.8	44.8
77.5°	25.2	23.3	22.4	21.4	21.4	21.4	20.5	19.6	19.6	19.6	18.6
80°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
82.5°	3.7	3.7	4.7	4.7	4.7	3.7	4.7	4.7	3.7	3.7	4.7
85°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
87.5°	0.9	0.9	0.9	0.0	0.9	0.9	0.9	0.9	0.0	0.9	0.0
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: P859106

CATALOG NUMBER: LX4C55D010 EX4C559035 4LBLWW*

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2482.8	2482.8	2482.8	2482.8	2482.8	2482.8	2482.8	2482.8
2.5°	2490.3	2491.2	2491.2	2491.2	2492.1	2492.1	2492.1	2492.1
5°	2483.7	2484.7	2484.7	2484.7	2485.6	2485.6	2485.6	2485.6
7.5°	2472.6	2473.5	2473.5	2474.4	2474.4	2475.3	2475.3	2476.3
10°	2459.5	2461.4	2462.3	2463.2	2464.2	2465.1	2465.1	2466.0
12.5°	2445.5	2447.4	2448.3	2450.2	2452.0	2453.0	2453.9	2454.8
15°	2425.0	2428.7	2430.6	2431.5	2435.3	2437.1	2438.1	2439.0
17.5°	2392.4	2399.8	2402.6	2404.5	2408.2	2412.0	2414.7	2415.7
20°	2345.8	2354.1	2357.9	2362.5	2368.1	2372.8	2374.7	2376.5
22.5°	2280.5	2289.8	2295.4	2301.0	2305.7	2310.3	2317.8	2315.0
25°	2187.3	2203.1	2209.6	2212.4	2222.7	2228.3	2232.0	2228.3
27.5°	2082.8	2092.2	2097.8	2104.3	2111.7	2117.3	2119.2	2124.8
30°	1957.0	1972.8	1971.9	1978.4	1987.7	1993.3	1995.2	1999.9
32.5°	1826.4	1833.9	1839.5	1838.6	1842.3	1852.5	1848.8	1857.2
35°	1687.5	1688.5	1697.8	1696.8	1704.3	1704.3	1704.3	1709.9
37.5°	1539.3	1550.5	1545.8	1557.0	1553.3	1556.1	1556.1	1557.9
40°	1404.1	1407.8	1407.8	1411.6	1414.4	1411.6	1413.4	1418.1
42.5°	1264.2	1268.0	1268.9	1267.0	1269.8	1278.2	1271.7	1277.3
45°	1133.7	1136.5	1140.2	1137.4	1142.1	1139.3	1142.1	1140.2
47.5°	1010.7	1009.7	1008.8	1016.2	1009.7	1010.7	1014.4	1007.9
50°	884.8	890.4	886.7	889.4	891.3	891.3	888.5	888.5
52.5°	772.9	772.0	769.2	772.0	770.1	771.0	772.9	771.0
55°	657.3	661.0	659.2	658.2	659.2	659.2	664.8	657.3
57.5°	543.6	541.7	544.5	551.0	544.5	549.1	551.9	552.9
60°	435.4	435.4	441.0	438.2	443.8	448.5	452.2	450.3
62.5°	331.9	336.6	338.4	339.4	345.0	348.7	348.7	347.8
65°	246.1	252.7	252.7	256.4	258.3	258.3	260.1	263.9
67.5°	181.8	181.8	182.7	184.6	183.7	183.7	185.5	186.5
70°	126.8	124.9	127.7	126.8	126.8	125.9	126.8	126.8
72.5°	80.2	80.2	81.1	80.2	78.3	79.2	79.2	81.1
75°	42.9	44.8	42.9	42.9	43.8	42.0	42.9	43.8
77.5°	17.7	17.7	17.7	17.7	17.7	16.8	16.8	16.8
80°	8.4	8.4	8.4	8.4	8.4	8.4	7.5	7.5
82.5°	3.7	4.7	3.7	4.7	3.7	3.7	3.7	3.7
85°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
87.5°	0.0	0.9	0.0	0.9	0.0	0.0	0.0	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)