

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: P859127

Luminaire Tested: **LX4C55D010 EX4C559040 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P859127
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 EX4C559040 4LBLWW*
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LRLWW TRIM WITH * FINISH
Light Source: -
Ballast/Driver: -

Summary

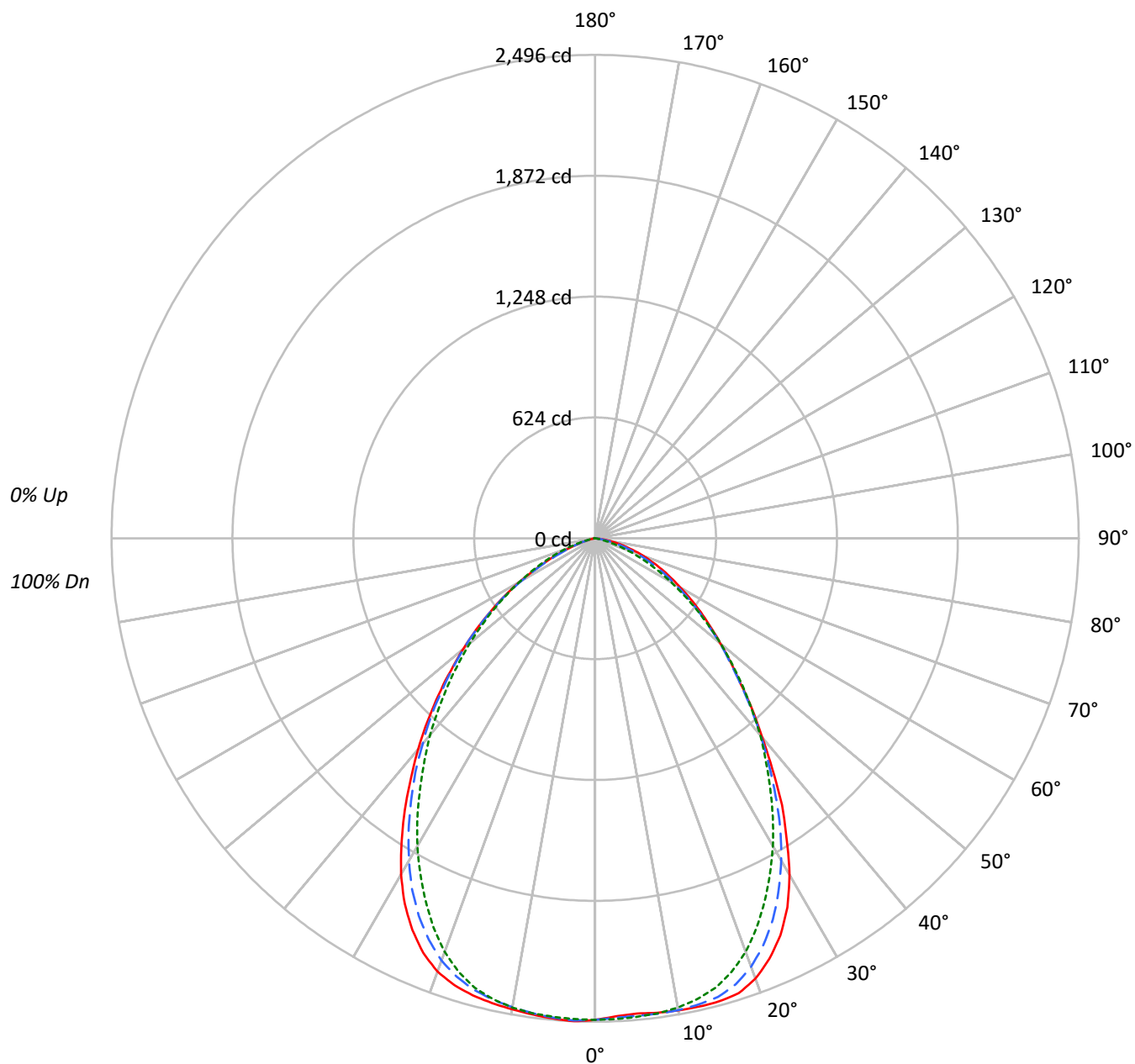
Lumens per Lamp: N/A
Luminaire Lumens: 4767.0 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	305475	305475	305475
5°	303756	305828	306987
10°	308790	306919	308092
15°	314827	305555	310668
20°	316412	296997	311156
25°	306677	280474	302502
30°	284640	260269	284115
35°	252065	236093	256820
40°	214885	212640	227763
45°	184617	186720	198395
50°	161138	161502	170064
55°	142393	136395	141000
60°	124795	111256	110814
65°	110465	86308	76802
70°	94254	59376	45618
75°	76232	31898	20838
80°	52212	7924	5306
85°	15787	2678	2678



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.3	5.0
10°-20°	684.1	14.4
20°-30°	988.5	20.7
30°-40°	1021.9	21.4
40°-50°	844.3	17.7
50°-60°	582.7	12.2
60°-70°	305.1	6.4
70°-80°	96.0	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°	1908.9	40.0
0°-40°	2930.7	61.5
0°-60°	4357.8	91.4
0°-90°	4767.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4767.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2486	2486	2486	2486	2486	
5°	2463	2475	2480	2485	2489	236
15°	2475	2452	2402	2414	2443	698
25°	2262	2171	2069	2152	2232	1033
35°	1681	1625	1574	1656	1712	1043
45°	1063	1058	1075	1124	1142	828
55°	665	644	637	654	658	597
65°	380	344	297	246	264	376
75°	161	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°	2486.5	2486.5	2486.5	2486.5	2486.5	2486.5	2486.5	2486.5	2486.5	2486.5	2486.5
2.5°	2470.6	2471.5	2471.5	2473.4	2473.4	2473.4	2474.3	2474.3	2475.3	2476.2	2477.1
5°	2463.1	2463.1	2465.0	2465.9	2467.8	2468.7	2470.6	2471.5	2473.4	2474.3	2475.3
7.5°	2470.6	2470.6	2471.5	2472.5	2472.5	2473.4	2473.4	2474.3	2475.3	2476.2	2476.2
10°	2475.3	2475.3	2475.3	2475.3	2476.2	2476.2	2476.2	2475.3	2475.3	2475.3	2474.3
12.5°	2477.1	2477.1	2476.2	2475.3	2476.2	2475.3	2475.3	2472.5	2470.6	2468.7	2465.9
15°	2475.3	2475.3	2474.3	2473.4	2472.5	2470.6	2469.7	2465.0	2461.2	2455.6	2451.9
17.5°	2463.1	2461.2	2459.4	2457.5	2453.8	2451.0	2449.1	2440.7	2434.2	2424.8	2414.6
20°	2420.2	2418.3	2415.5	2410.8	2406.2	2402.4	2396.8	2384.7	2378.1	2364.1	2353.9
22.5°	2350.1	2348.3	2349.2	2340.8	2331.5	2325.9	2322.1	2311.9	2300.7	2282.9	2271.7
25°	2262.4	2256.8	2256.8	2243.7	2239.0	2235.3	2230.6	2218.5	2201.7	2185.8	2170.9
27.5°	2148.5	2141.0	2137.3	2135.4	2124.2	2115.8	2109.2	2099.9	2085.9	2071.9	2051.4
30°	2006.5	2005.6	2000.9	1992.5	1984.1	1980.4	1972.9	1957.0	1944.0	1933.7	1920.6
32.5°	1839.4	1838.5	1838.5	1838.5	1832.9	1831.9	1820.7	1812.3	1802.1	1786.2	1777.8
35°	1680.7	1679.7	1680.7	1666.7	1662.9	1660.1	1659.2	1653.6	1639.6	1632.1	1624.6
37.5°	1501.4	1504.2	1502.3	1498.6	1503.3	1494.9	1501.4	1489.3	1483.7	1481.8	1473.4
40°	1339.9	1347.3	1339.9	1340.8	1345.5	1337.1	1337.1	1335.2	1331.5	1329.6	1327.7
42.5°	1201.7	1192.3	1197.9	1193.3	1197.9	1195.1	1190.5	1193.3	1194.2	1190.5	1189.5
45°	1062.6	1064.4	1066.3	1063.5	1063.5	1060.7	1068.2	1063.5	1063.5	1064.4	1057.9
47.5°	949.6	946.8	948.6	946.8	947.7	945.8	947.7	948.6	946.8	946.8	941.2
50°	843.1	841.3	847.8	842.2	842.2	841.3	842.2	840.3	837.5	837.5	839.4
52.5°	750.7	747.0	746.0	750.7	744.2	744.2	745.1	743.2	739.5	737.6	733.0
55°	664.8	663.9	664.8	661.1	659.2	659.2	654.5	652.7	651.7	647.1	644.3
57.5°	584.5	581.7	582.6	581.7	578.0	577.0	573.3	573.3	569.6	565.8	561.2
60°	507.9	507.9	510.7	507.0	504.2	502.3	500.5	498.6	492.1	485.5	479.9
62.5°	439.8	440.7	439.8	437.0	435.1	433.2	431.4	425.8	420.2	416.4	409.9
65°	380.0	379.1	376.3	374.4	369.7	369.7	366.0	363.2	356.7	351.1	344.5
67.5°	318.4	316.5	316.5	316.5	310.9	310.0	308.1	302.5	296.9	289.4	283.8
70°	262.4	264.2	261.4	258.6	255.8	254.9	252.1	246.5	240.0	232.5	227.8
72.5°	209.2	211.0	208.2	207.3	201.7	199.8	198.9	194.2	186.7	182.1	174.6
75°	160.6	161.5	159.7	157.8	154.1	153.1	148.5	144.7	140.1	132.6	126.1
77.5°	115.8	113.9	113.9	110.2	106.4	106.4	105.5	99.9	93.4	87.8	82.2
80°	73.8	72.8	70.0	68.2	65.4	64.4	63.5	58.8	54.2	50.4	46.7
82.5°	37.3	36.4	35.5	34.5	32.7	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°	2486.5	2486.5	2486.5	2486.5	2486.5	2486.5	2486.5	2486.5	2486.5	2486.5	2486.5
2.5°	2478.1	2479.0	2479.9	2480.9	2480.9	2481.8	2482.7	2483.7	2484.6	2484.6	2485.5
5°	2476.2	2478.1	2478.1	2479.0	2479.0	2479.0	2479.9	2479.9	2479.9	2479.9	2480.9
7.5°	2477.1	2477.1	2477.1	2476.2	2476.2	2475.3	2475.3	2475.3	2473.4	2473.4	2473.4
10°	2472.5	2471.5	2470.6	2468.7	2467.8	2466.9	2465.0	2463.1	2461.2	2460.3	2458.4
12.5°	2463.1	2459.4	2455.6	2451.9	2450.0	2449.1	2445.4	2442.6	2439.8	2437.0	2435.1
15°	2444.4	2438.8	2432.3	2424.8	2423.0	2421.1	2414.6	2409.0	2405.2	2402.4	2397.8
17.5°	2407.1	2395.9	2388.4	2377.2	2372.5	2370.7	2360.4	2354.8	2348.3	2346.4	2342.7
20°	2340.8	2330.5	2316.5	2306.3	2300.7	2295.0	2286.6	2279.2	2271.7	2271.7	2267.0
22.5°	2257.7	2244.6	2226.9	2213.8	2212.9	2201.7	2194.2	2185.8	2183.0	2177.4	2177.4
25°	2153.1	2141.9	2122.3	2111.1	2105.5	2102.7	2090.6	2079.4	2073.8	2069.1	2072.8
27.5°	2037.3	2020.5	2005.6	1991.6	1986.9	1981.3	1970.1	1965.5	1955.2	1954.2	1953.3
30°	1904.8	1888.0	1873.0	1866.5	1857.1	1852.5	1844.1	1838.5	1834.7	1834.7	1832.9
32.5°	1765.6	1750.7	1743.2	1729.2	1724.6	1718.0	1712.4	1706.8	1708.7	1706.8	1707.7
35°	1615.3	1611.6	1597.6	1589.2	1589.2	1588.2	1578.9	1575.2	1573.3	1574.2	1578.9
37.5°	1472.5	1461.3	1451.9	1446.3	1451.0	1445.4	1444.4	1444.4	1450.0	1446.3	1453.8
40°	1320.3	1319.3	1315.6	1317.5	1318.4	1311.9	1313.7	1314.7	1318.4	1325.9	1326.8
42.5°	1187.7	1186.7	1186.7	1186.7	1184.9	1181.1	1184.9	1191.4	1190.5	1196.1	1200.7
45°	1059.8	1057.9	1061.6	1058.8	1064.4	1066.3	1063.5	1065.4	1071.0	1074.7	1082.2
47.5°	943.0	943.0	944.0	945.8	940.2	944.9	946.8	950.5	953.3	955.2	958.9
50°	834.7	834.7	832.9	832.9	832.9	835.7	831.9	836.6	837.5	845.0	849.7
52.5°	734.8	730.2	733.0	731.1	727.4	725.5	727.4	728.3	733.9	735.8	741.4
55°	639.6	639.6	632.1	630.3	633.1	632.1	631.2	631.2	634.0	636.8	641.5
57.5°	555.6	550.0	544.4	543.4	540.6	541.5	541.5	540.6	538.7	539.7	540.6
60°	476.2	472.5	464.1	464.1	463.1	462.2	457.5	456.6	451.9	452.8	449.1
62.5°	403.4	401.5	390.3	386.6	386.6	383.8	379.1	378.2	371.6	371.6	367.9
65°	338.0	332.4	325.9	319.3	319.3	315.6	312.8	304.4	299.7	296.9	291.3
67.5°	278.2	269.8	263.3	257.7	254.0	253.0	246.5	240.9	233.4	228.8	220.4
70°	220.4	213.8	207.3	201.7	197.9	194.2	187.7	179.3	173.7	165.3	159.7
72.5°	166.2	160.6	155.0	147.5	142.9	140.1	133.5	126.1	116.7	111.1	103.6
75°	119.5	113.0	105.5	99.0	96.2	93.4	85.9	80.3	73.8	67.2	59.8
77.5°	77.5	70.0	64.4	57.0	56.0	54.2	46.7	41.1	36.4	32.7	28.0
80°	41.1	37.3	32.7	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°	2486.5	2486.5	2486.5	2486.5	2486.5	2486.5	2486.5	2486.5	2486.5	2486.5	2486.5
2.5°	2486.5	2487.4	2488.3	2488.3	2489.3	2490.2	2490.2	2491.1	2492.1	2493.0	2493.0
5°	2481.8	2481.8	2481.8	2482.7	2482.7	2482.7	2482.7	2484.6	2484.6	2485.5	2486.5
7.5°	2472.5	2472.5	2472.5	2472.5	2471.5	2472.5	2471.5	2471.5	2473.4	2474.3	2475.3
10°	2457.5	2456.6	2456.6	2455.6	2455.6	2455.6	2456.6	2457.5	2458.4	2459.4	2462.2
12.5°	2434.2	2433.2	2433.2	2432.3	2432.3	2433.2	2434.2	2436.0	2439.8	2441.6	2445.4
15°	2396.8	2395.9	2396.8	2397.8	2399.6	2402.4	2405.2	2408.0	2413.6	2418.3	2423.0
17.5°	2342.7	2343.6	2344.5	2346.4	2349.2	2352.9	2360.4	2367.9	2374.4	2381.9	2389.4
20°	2268.0	2271.7	2272.6	2279.2	2281.0	2289.4	2297.9	2309.1	2319.3	2328.7	2338.9
22.5°	2178.3	2181.1	2184.9	2192.3	2197.0	2208.2	2218.5	2231.6	2242.8	2254.9	2269.8
25°	2076.6	2077.5	2088.7	2088.7	2099.9	2109.2	2121.4	2135.4	2152.2	2168.1	2178.3
27.5°	1960.8	1965.5	1973.9	1977.6	1986.0	2000.9	2011.2	2028.0	2044.8	2058.8	2070.0
30°	1839.4	1843.1	1857.1	1859.0	1865.5	1878.6	1892.6	1908.5	1921.6	1937.4	1947.7
32.5°	1711.5	1721.8	1730.2	1736.7	1738.6	1758.2	1765.6	1776.8	1791.8	1807.7	1817.9
35°	1587.3	1592.0	1604.1	1607.8	1613.4	1624.6	1639.6	1648.9	1656.4	1666.7	1678.8
37.5°	1455.6	1469.7	1472.5	1483.7	1485.5	1495.8	1503.3	1514.5	1523.8	1533.1	1535.0
40°	1333.3	1338.0	1348.3	1351.1	1352.9	1366.9	1376.3	1379.1	1383.8	1392.2	1403.4
42.5°	1209.1	1213.8	1225.0	1222.2	1230.6	1237.2	1241.8	1253.0	1257.7	1260.5	1260.5
45°	1086.8	1088.7	1096.2	1099.9	1104.6	1108.3	1116.7	1122.3	1124.2	1132.6	1135.4
47.5°	970.1	972.0	977.6	984.1	982.3	986.9	996.3	999.1	1000.0	1005.6	1008.4
50°	855.3	859.9	867.4	865.5	871.1	873.9	882.4	884.2	884.2	885.2	886.1
52.5°	747.9	751.6	753.5	755.4	758.2	762.8	766.6	764.7	768.4	772.2	769.4
55°	641.5	644.3	648.9	650.8	650.8	651.7	649.9	658.3	654.5	653.6	654.5
57.5°	544.4	540.6	539.7	544.4	546.2	545.3	542.5	546.2	546.2	544.4	541.5
60°	450.0	447.2	446.3	447.2	443.5	440.7	442.6	440.7	436.0	434.2	435.1
62.5°	364.1	361.3	353.9	353.9	352.0	351.1	343.6	344.5	340.8	335.2	337.1
65°	284.8	277.3	273.6	272.6	266.1	260.5	258.6	252.1	246.5	245.6	246.5
67.5°	213.8	205.4	198.9	196.1	192.3	187.7	181.1	175.5	177.4	176.5	180.2
70°	148.5	142.9	136.3	131.7	133.5	127.9	124.2	124.2	125.1	126.1	127.9
72.5°	99.0	91.5	88.7	85.9	84.0	80.3	82.2	82.2	81.2	82.2	80.3
75°	56.0	52.3	49.5	48.6	46.7	46.7	46.7	46.7	45.8	44.8	44.8
77.5°	25.2	23.3	22.4	21.5	21.5	21.5	20.5	19.6	19.6	19.6	18.7
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: P859127

CATALOG NUMBER: LX4C55D010 EX4C559040 4LBLWW*

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2486.5	2486.5	2486.5	2486.5	2486.5	2486.5	2486.5	2486.5
2.5°	2493.9	2494.9	2494.9	2494.9	2495.8	2495.8	2495.8	2495.8
5°	2487.4	2488.3	2488.3	2488.3	2489.3	2489.3	2489.3	2489.3
7.5°	2476.2	2477.1	2477.1	2478.1	2478.1	2479.0	2479.0	2479.9
10°	2463.1	2465.0	2465.9	2466.9	2467.8	2468.7	2468.7	2469.7
12.5°	2449.1	2451.0	2451.9	2453.8	2455.6	2456.6	2457.5	2458.4
15°	2428.6	2432.3	2434.2	2435.1	2438.8	2440.7	2441.6	2442.6
17.5°	2395.9	2403.4	2406.2	2408.0	2411.8	2415.5	2418.3	2419.2
20°	2349.2	2357.6	2361.3	2366.0	2371.6	2376.3	2378.1	2380.0
22.5°	2283.8	2293.2	2298.8	2304.4	2309.1	2313.7	2321.2	2318.4
25°	2190.5	2206.3	2212.9	2215.7	2226.0	2231.6	2235.3	2231.6
27.5°	2085.9	2095.2	2100.8	2107.4	2114.8	2120.4	2122.3	2127.9
30°	1959.8	1975.7	1974.8	1981.3	1990.7	1996.3	1998.1	2002.8
32.5°	1829.1	1836.6	1842.2	1841.3	1845.0	1855.3	1851.5	1859.9
35°	1690.0	1690.9	1700.3	1699.3	1706.8	1706.8	1706.8	1712.4
37.5°	1541.5	1552.8	1548.1	1559.3	1555.6	1558.4	1558.4	1560.2
40°	1406.2	1409.9	1409.9	1413.6	1416.4	1413.6	1415.5	1420.2
42.5°	1266.1	1269.8	1270.8	1268.9	1271.7	1280.1	1273.6	1279.2
45°	1135.4	1138.2	1141.9	1139.1	1143.8	1141.0	1143.8	1141.9
47.5°	1012.1	1011.2	1010.3	1017.7	1011.2	1012.1	1015.9	1009.3
50°	886.1	891.7	888.0	890.8	892.6	892.6	889.8	889.8
52.5°	774.0	773.1	770.3	773.1	771.2	772.2	774.0	772.2
55°	658.3	662.0	660.1	659.2	660.1	660.1	665.7	658.3
57.5°	544.4	542.5	545.3	551.8	545.3	550.0	552.8	553.7
60°	436.0	436.0	441.6	438.8	444.4	449.1	452.8	451.0
62.5°	332.4	337.1	338.9	339.9	345.5	349.2	349.2	348.3
65°	246.5	253.0	253.0	256.8	258.6	258.6	260.5	264.2
67.5°	182.1	182.1	183.0	184.9	183.9	183.9	185.8	186.7
70°	127.0	125.1	127.9	127.0	127.0	126.1	127.0	127.0
72.5°	80.3	80.3	81.2	80.3	78.4	79.4	79.4	81.2
75°	43.0	44.8	43.0	43.0	43.9	42.0	43.0	43.9
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)