

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: P859128

Luminaire Tested: **LX4C55D010 EX4C559040 4LBLWWH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P859128
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 EX4C559040 4LBLWWH
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

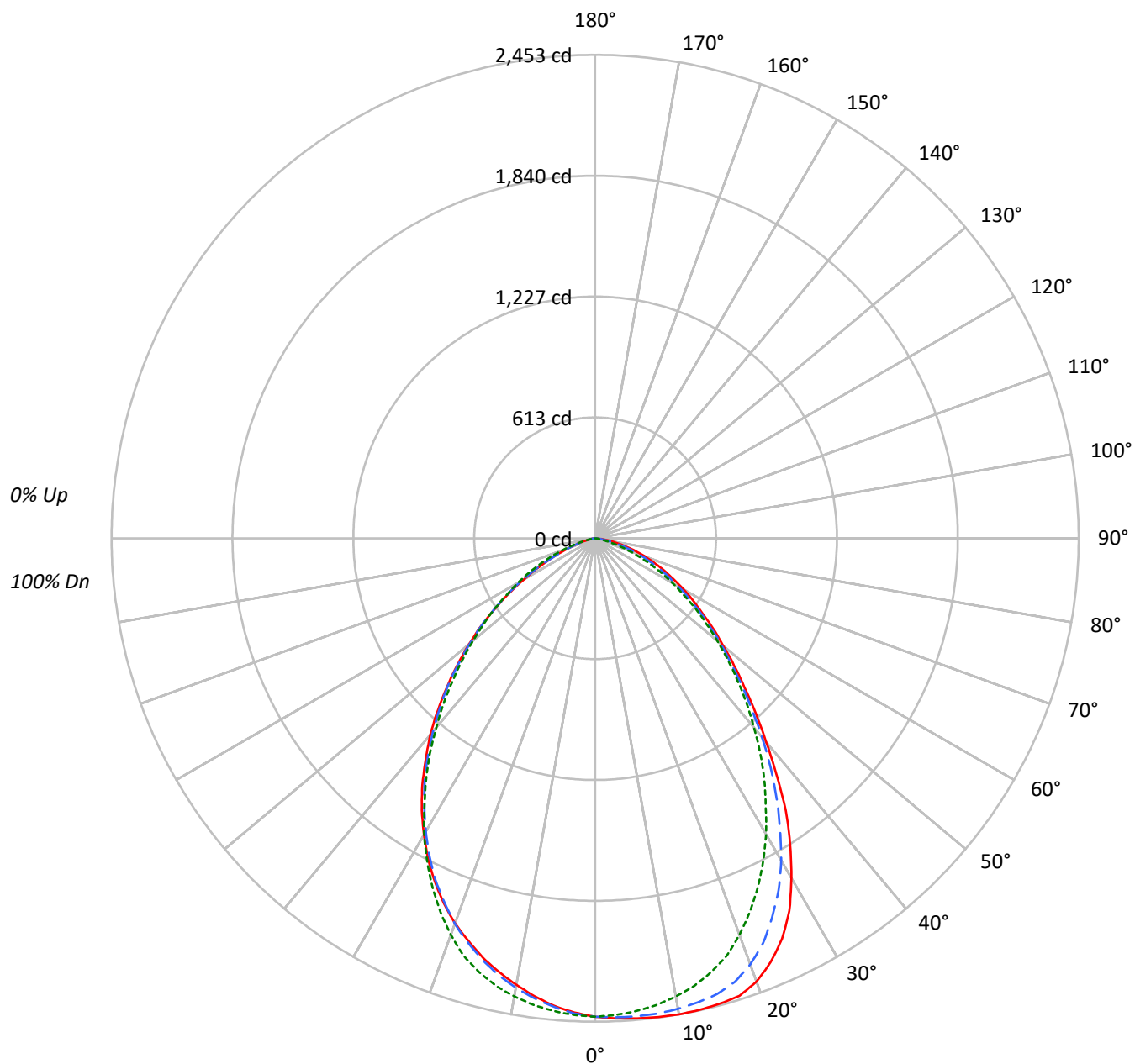
Lumens per Lamp: N/A
Luminaire Lumens: 4575.0 lumens
Efficiency: N/A
Efficacy: 71.6 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P859128

CATALOG NUMBER: LX4C55D010 EX4C559040 4LBLWWH

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	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	107	104	101	108	105	102	99		101	98	96		97	95	93		94	92	90
2	103	96	90	86	100	94	89	85		91	86	83		88	84	81		85	82	79
3	95	86	79	74	93	85	78	73		82	76	72		79	75	71		77	73	70
4	88	78	70	64	86	77	69	64		74	68	63		72	67	62		70	65	62
5	82	71	63	57	80	69	62	57		67	61	56		66	60	55		64	59	55
6	76	64	56	51	74	63	56	50		62	55	50		60	54	50		59	53	49
7	71	59	51	46	69	58	51	45		57	50	45		55	49	45		54	49	44
8	67	54	47	41	65	54	46	41		52	46	41		51	45	41		50	45	40
9	62	50	43	38	61	50	42	37		49	42	37		47	41	37		47	41	37
10	59	47	39	34	58	46	39	34		45	39	34		44	38	34		43	38	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	298239	298239	298239
5°	301561	296961	293742
10°	305984	294457	286997
15°	311011	289758	280143
20°	312987	279910	271843
25°	304007	264777	260724
30°	282526	246097	246225
35°	252905	224335	229089
40°	216521	201109	208438
45°	186389	177303	183957
50°	162037	154353	158998
55°	142585	132797	131597
60°	126858	110814	102091
65°	111278	88750	73837
70°	95583	62716	49965
75°	77561	36360	29240
80°	55467	15848	14503
85°	21003	6625	6625



TEST NUMBER: P859128

CATALOG NUMBER: LX4C55D010 EX4C559040 4LBLWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.8	5.0
10°-20°	647.6	14.2
20°-30°	924.8	20.2
30°-40°	967.4	21.1
40°-50°	810.6	17.7
50°-60°	567.3	12.4
60°-70°	308.9	6.8
70°-80°	107.2	2.3
80°-90°	12.3	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°	1801.2	39.4
0°-40°	2768.6	60.5
0°-60°	4146.5	90.6
0°-90°	4575.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4575.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2428	2428	2428	2428	2428	
5°	2445	2434	2408	2388	2382	234
15°	2445	2394	2278	2213	2203	691
25°	2243	2123	1953	1915	1923	1024
35°	1686	1603	1496	1507	1528	1046
45°	1073	1048	1020	1054	1059	834
55°	666	643	620	620	614	601
65°	383	349	305	257	254	381
75°	163	133	77	62	62	176
85°	15	8	5	5	5	27
90°	0	0	0	0	0	



TEST NUMBER: P859128

CATALOG NUMBER: LX4C55D010 EX4C559040 4LBLWWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2427.6	2427.6	2427.6	2427.6	2427.6	2427.6	2427.6	2427.6	2427.6	2427.6	2427.6
2.5°	2438.8	2436.0	2436.9	2436.9	2436.9	2436.0	2436.9	2436.0	2436.0	2435.1	2433.2
5°	2445.3	2443.5	2443.5	2443.5	2442.5	2441.6	2441.6	2440.7	2438.8	2437.9	2434.1
7.5°	2450.0	2448.1	2448.1	2447.2	2446.3	2445.3	2444.4	2441.6	2438.8	2436.9	2432.3
10°	2452.8	2450.0	2450.0	2448.1	2446.3	2445.3	2443.5	2439.7	2436.0	2431.3	2424.8
12.5°	2450.9	2448.1	2447.2	2445.3	2441.6	2439.7	2437.9	2433.2	2426.7	2420.1	2411.7
15°	2445.3	2443.5	2441.6	2438.8	2434.1	2431.3	2429.5	2422.0	2413.6	2404.3	2394.0
17.5°	2434.1	2431.3	2427.6	2423.9	2417.3	2414.5	2409.9	2400.5	2388.4	2375.3	2359.4
20°	2394.0	2392.1	2388.4	2381.9	2371.6	2367.9	2361.3	2349.2	2333.3	2317.4	2300.6
22.5°	2327.7	2324.9	2319.3	2313.7	2304.4	2297.8	2292.2	2275.4	2257.7	2240.9	2225.0
25°	2242.7	2239.9	2232.5	2225.0	2215.7	2204.5	2198.9	2185.8	2168.0	2146.6	2123.2
27.5°	2133.5	2124.2	2121.4	2113.0	2098.9	2095.2	2086.8	2070.0	2053.2	2034.5	2014.9
30°	1991.6	1991.6	1986.0	1982.2	1969.2	1965.4	1956.1	1938.4	1929.0	1902.9	1887.9
32.5°	1841.2	1839.4	1834.7	1831.9	1824.4	1817.9	1808.6	1799.2	1778.7	1765.6	1745.1
35°	1686.3	1675.0	1676.9	1671.3	1666.6	1659.2	1658.2	1648.0	1629.3	1621.8	1603.2
37.5°	1509.8	1505.1	1511.7	1503.2	1498.6	1499.5	1492.0	1485.5	1478.0	1465.0	1461.2
40°	1350.1	1353.9	1352.9	1345.5	1349.2	1344.5	1337.1	1330.5	1326.8	1318.4	1315.6
42.5°	1207.3	1201.7	1199.8	1199.8	1200.7	1200.7	1197.0	1192.3	1192.3	1183.9	1175.5
45°	1072.8	1072.8	1070.9	1076.6	1068.1	1068.1	1065.3	1064.4	1060.7	1058.8	1048.5
47.5°	957.0	956.1	955.2	954.2	953.3	953.3	947.7	943.0	942.1	936.5	930.9
50°	847.8	853.4	851.5	846.9	845.0	845.9	842.2	839.4	838.5	829.1	830.1
52.5°	756.3	755.4	757.2	754.4	749.8	750.7	747.0	743.2	739.5	734.8	731.1
55°	665.7	670.4	668.5	665.7	664.8	662.9	660.1	655.5	654.5	644.2	643.3
57.5°	590.1	589.2	587.3	582.6	581.7	578.9	578.9	575.2	569.6	564.0	559.3
60°	516.3	516.3	513.5	512.6	508.9	507.9	507.0	503.3	496.7	492.1	484.6
62.5°	445.4	447.2	445.4	442.6	439.8	436.0	434.2	431.4	425.8	421.1	414.6
65°	382.8	381.9	380.9	377.2	376.3	372.5	371.6	366.0	360.4	356.7	349.2
67.5°	323.1	320.3	320.3	318.4	316.5	313.7	311.9	306.3	299.7	296.0	288.5
70°	266.1	264.2	264.2	264.2	259.6	256.8	255.8	253.0	243.7	240.0	232.5
72.5°	213.8	212.9	211.9	209.1	206.3	206.3	202.6	197.0	192.3	187.7	182.1
75°	163.4	165.3	163.4	159.7	158.7	156.9	154.1	149.4	144.7	139.1	132.6
77.5°	119.5	117.6	115.8	115.8	113.9	110.2	109.2	105.5	99.9	96.2	89.6
80°	78.4	77.5	75.6	73.8	72.8	71.9	71.0	67.2	61.6	58.8	53.2
82.5°	42.9	42.0	42.0	41.1	38.3	38.3	37.3	33.6	30.8	28.9	26.1
85°	14.9	14.9	14.9	14.0	14.0	14.0	13.1	12.1	11.2	10.3	8.4
87.5°	1.9	0.9	1.9	0.9	1.9	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	0.0	0.0	0.0



TEST NUMBER: P859128

CATALOG NUMBER: LX4C55D010 EX4C559040 4LBLWWH

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2427.6	2427.6	2427.6	2427.6	2427.6	2427.6	2427.6	2427.6	2427.6	2427.6	2427.6
2.5°	2431.3	2429.5	2428.5	2427.6	2426.7	2425.7	2424.8	2422.9	2422.0	2421.1	2419.2
5°	2431.3	2427.6	2425.7	2422.9	2421.1	2419.2	2416.4	2413.6	2410.8	2408.0	2405.2
7.5°	2427.6	2422.0	2418.3	2412.7	2410.8	2408.0	2402.4	2398.7	2394.0	2388.4	2381.9
10°	2418.3	2411.7	2404.3	2396.8	2394.0	2389.3	2381.9	2375.3	2367.9	2360.4	2353.8
12.5°	2403.3	2393.1	2383.7	2373.5	2367.9	2363.2	2352.9	2343.6	2334.2	2325.8	2314.6
15°	2380.9	2368.8	2356.6	2342.6	2336.1	2330.5	2315.6	2304.4	2289.4	2278.2	2267.0
17.5°	2344.5	2325.8	2310.9	2293.2	2283.8	2277.3	2264.2	2246.5	2232.5	2220.3	2207.3
20°	2282.0	2264.2	2243.7	2224.1	2213.8	2205.4	2186.7	2168.0	2154.0	2141.0	2127.0
22.5°	2199.8	2177.4	2162.4	2138.2	2129.8	2119.5	2097.1	2080.3	2064.4	2051.3	2038.3
25°	2099.9	2080.3	2059.7	2037.3	2027.1	2014.9	1996.2	1978.5	1968.2	1953.3	1937.4
27.5°	1985.0	1969.2	1944.0	1924.3	1914.1	1904.7	1887.0	1871.1	1856.2	1845.9	1831.0
30°	1863.7	1845.0	1822.6	1802.0	1796.4	1785.2	1769.4	1757.2	1741.3	1734.8	1728.3
32.5°	1730.1	1708.7	1691.9	1678.8	1667.6	1658.2	1649.8	1630.2	1627.4	1610.6	1608.8
35°	1584.5	1575.1	1559.3	1548.1	1538.7	1532.2	1518.2	1508.9	1498.6	1495.8	1489.2
37.5°	1447.2	1436.0	1421.1	1410.8	1404.3	1403.3	1393.1	1387.5	1380.0	1376.3	1368.8
40°	1303.4	1298.8	1285.7	1283.8	1273.6	1272.6	1267.0	1260.5	1254.0	1254.0	1254.9
42.5°	1170.9	1165.3	1159.6	1153.1	1147.5	1147.5	1144.7	1142.8	1141.0	1138.2	1142.8
45°	1046.7	1039.2	1035.5	1028.9	1031.7	1026.1	1024.3	1024.3	1021.5	1020.5	1027.1
47.5°	930.9	922.5	918.8	916.9	916.9	917.8	909.4	912.2	911.3	913.2	916.0
50°	825.4	817.9	812.3	812.3	813.2	809.5	805.8	808.6	805.8	807.6	814.2
52.5°	727.3	719.9	717.1	717.1	711.5	710.5	712.4	708.7	709.6	710.5	714.3
55°	636.8	632.1	627.4	622.8	623.7	621.8	618.1	617.2	619.0	620.0	624.6
57.5°	555.5	549.0	542.5	540.6	538.7	538.7	534.1	533.1	535.0	530.3	530.3
60°	478.1	474.3	465.9	463.1	463.1	458.4	454.7	456.6	451.9	451.0	451.9
62.5°	406.2	403.4	397.8	392.2	390.3	388.4	383.7	381.9	380.0	376.3	370.7
65°	343.6	337.1	330.5	326.8	324.0	319.3	316.5	312.8	307.2	305.3	299.7
67.5°	281.0	274.5	268.0	265.2	262.4	259.6	254.9	250.2	243.7	236.2	229.7
70°	226.0	217.6	213.8	206.3	204.5	200.7	194.2	189.5	183.0	174.6	168.1
72.5°	172.7	167.1	161.5	155.0	150.3	147.5	141.9	134.5	127.0	122.3	115.8
75°	124.2	121.4	113.9	106.4	104.6	100.8	94.3	89.6	84.0	76.6	71.0
77.5°	84.0	78.4	73.8	67.2	65.4	61.6	57.9	53.2	49.5	44.8	41.1
80°	49.5	44.8	42.0	37.3	35.5	33.6	30.8	27.1	24.3	22.4	21.5
82.5°	24.3	20.5	19.6	16.8	15.9	14.9	13.1	12.1	10.3	10.3	10.3
85°	8.4	6.5	6.5	5.6	4.7	4.7	4.7	4.7	4.7	4.7	4.7
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.9	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: P859128

CATALOG NUMBER: LX4C55D010 EX4C559040 4LBLWWH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2427.6	2427.6	2427.6	2427.6	2427.6	2427.6	2427.6	2427.6	2427.6	2427.6	2427.6
2.5°	2418.3	2417.3	2416.4	2415.5	2415.5	2414.5	2414.5	2413.6	2413.6	2412.7	2412.7
5°	2401.5	2398.7	2396.8	2394.9	2394.9	2392.1	2390.3	2388.4	2387.5	2387.5	2385.6
7.5°	2378.1	2374.4	2370.7	2367.9	2366.9	2362.2	2358.5	2358.5	2354.8	2352.9	2351.0
10°	2347.3	2340.8	2335.2	2332.4	2328.6	2325.8	2321.2	2318.4	2315.6	2310.9	2310.0
12.5°	2305.3	2300.6	2292.2	2288.5	2286.6	2281.0	2273.5	2269.8	2268.9	2265.1	2262.3
15°	2257.7	2247.4	2239.9	2235.3	2235.3	2225.9	2222.2	2216.6	2212.9	2210.1	2209.1
17.5°	2196.1	2185.8	2178.3	2171.8	2169.9	2162.4	2156.8	2155.0	2150.3	2152.2	2147.5
20°	2116.7	2108.3	2102.7	2094.3	2094.3	2089.6	2087.7	2083.1	2081.2	2079.3	2081.2
22.5°	2031.7	2021.4	2012.1	2011.2	2011.2	2004.6	2003.7	2002.8	1999.0	2001.8	2000.9
25°	1931.8	1924.3	1918.7	1917.8	1917.8	1914.1	1910.3	1912.2	1915.0	1914.1	1916.9
27.5°	1828.2	1820.7	1818.8	1817.9	1816.0	1815.1	1817.0	1817.0	1819.8	1823.5	1827.2
30°	1716.1	1714.3	1711.5	1710.5	1708.7	1713.3	1715.2	1718.0	1717.1	1722.7	1726.4
32.5°	1604.1	1600.4	1599.4	1601.3	1604.1	1603.2	1608.8	1610.6	1612.5	1619.0	1621.8
35°	1491.1	1490.2	1488.3	1488.3	1489.2	1496.7	1496.7	1503.2	1507.0	1508.9	1516.3
37.5°	1369.7	1373.5	1375.3	1378.1	1379.1	1381.9	1383.7	1390.3	1394.0	1397.7	1401.5
40°	1258.6	1256.8	1265.2	1259.6	1261.4	1269.8	1273.6	1272.6	1278.2	1283.8	1287.6
42.5°	1140.0	1142.8	1144.7	1146.6	1151.2	1152.2	1156.8	1163.4	1165.3	1171.8	1173.7
45°	1025.2	1026.1	1029.9	1033.6	1036.4	1043.9	1045.7	1048.5	1054.1	1054.1	1056.9
47.5°	916.9	920.6	920.6	926.2	930.9	930.0	936.5	938.4	937.4	942.1	944.0
50°	813.2	818.9	817.9	821.7	823.5	824.5	830.1	831.9	828.2	832.9	833.8
52.5°	714.3	717.1	720.8	721.7	719.9	724.5	722.7	726.4	725.5	729.2	725.5
55°	623.7	622.8	622.8	624.6	622.8	624.6	626.5	622.8	620.0	623.7	622.8
57.5°	533.1	533.1	531.3	534.1	531.3	528.5	527.5	524.7	521.9	521.9	521.0
60°	448.2	446.3	442.6	441.6	441.6	437.0	435.1	431.4	431.4	427.6	423.9
62.5°	368.8	364.1	361.3	361.3	359.5	354.8	346.4	340.8	338.9	333.3	332.4
65°	294.1	289.4	286.6	281.0	276.4	274.5	266.1	259.6	256.8	251.2	252.1
67.5°	226.0	218.5	210.1	206.3	203.5	197.0	194.2	189.5	186.7	186.7	186.7
70°	162.5	155.9	147.5	144.7	142.9	137.3	134.5	133.5	136.3	135.4	136.3
72.5°	109.2	102.7	99.0	97.1	95.2	92.4	94.3	95.2	93.4	94.3	95.2
75°	66.3	64.4	61.6	60.7	60.7	61.6	60.7	60.7	61.6	61.6	62.6
77.5°	38.3	36.4	36.4	35.5	37.3	36.4	36.4	36.4	37.3	37.3	37.3
80°	20.5	20.5	20.5	20.5	21.5	20.5	21.5	21.5	21.5	21.5	21.5
82.5°	10.3	10.3	10.3	11.2	11.2	11.2	11.2	11.2	11.2	11.2	10.3
85°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
87.5°	0.9	1.9	1.9	1.9	1.9	1.9	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



TEST NUMBER: P859128

CATALOG NUMBER: LX4C55D010 EX4C559040 4LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2427.6	2427.6	2427.6	2427.6	2427.6	2427.6	2427.6	2427.6
2.5°	2410.8	2410.8	2410.8	2408.9	2409.9	2409.9	2408.9	2408.9
5°	2384.7	2383.7	2381.9	2381.9	2380.0	2381.9	2380.9	2381.9
7.5°	2349.2	2349.2	2346.4	2346.4	2345.4	2344.5	2343.6	2344.5
10°	2307.2	2307.2	2305.3	2304.4	2305.3	2301.6	2301.6	2300.6
12.5°	2260.5	2258.6	2256.7	2257.7	2256.7	2253.9	2253.0	2253.9
15°	2206.3	2203.5	2204.5	2201.7	2201.7	2200.7	2202.6	2202.6
17.5°	2146.6	2144.7	2142.8	2143.8	2141.9	2142.8	2141.9	2141.0
20°	2080.3	2079.3	2079.3	2075.6	2076.5	2075.6	2076.5	2079.3
22.5°	2003.7	2002.8	2003.7	2000.9	2002.8	2002.8	2005.6	2005.6
25°	1919.7	1918.7	1920.6	1921.5	1922.5	1925.3	1922.5	1923.4
27.5°	1826.3	1829.1	1831.9	1832.8	1836.6	1833.8	1831.9	1834.7
30°	1732.0	1732.0	1731.1	1734.8	1737.6	1740.4	1735.7	1735.7
32.5°	1623.7	1628.4	1628.4	1629.3	1632.1	1632.1	1632.1	1635.8
35°	1520.1	1522.9	1523.8	1520.1	1521.9	1521.0	1527.5	1527.5
37.5°	1404.3	1404.3	1405.2	1411.7	1411.7	1408.9	1410.8	1410.8
40°	1294.1	1295.0	1291.3	1293.2	1297.8	1296.0	1297.8	1299.7
42.5°	1173.7	1180.2	1176.5	1178.3	1177.4	1178.3	1179.3	1179.3
45°	1058.8	1060.7	1060.7	1061.6	1063.5	1065.3	1059.7	1058.8
47.5°	946.8	947.7	950.5	945.8	951.4	945.8	951.4	944.9
50°	833.8	837.5	834.7	836.6	833.8	833.8	832.9	831.9
52.5°	726.4	725.5	725.5	724.5	724.5	726.4	724.5	727.3
55°	619.0	620.0	618.1	617.2	616.2	619.0	616.2	614.4
57.5°	517.3	519.1	515.4	517.3	510.7	513.5	514.5	515.4
60°	423.0	420.2	420.2	416.4	416.4	419.2	415.5	415.5
62.5°	327.7	329.6	326.8	330.5	330.5	334.3	332.4	334.3
65°	251.2	252.1	253.0	253.0	253.0	258.6	256.8	254.0
67.5°	189.5	190.5	191.4	190.5	193.3	191.4	191.4	192.3
70°	137.3	138.2	139.1	139.1	138.2	139.1	139.1	139.1
72.5°	95.2	96.2	95.2	96.2	97.1	96.2	96.2	97.1
75°	62.6	62.6	61.6	61.6	61.6	61.6	62.6	61.6
77.5°	36.4	37.3	36.4	37.3	37.3	37.3	37.3	37.3
80°	21.5	21.5	21.5	20.5	21.5	21.5	21.5	20.5
82.5°	11.2	11.2	10.3	10.3	11.2	11.2	11.2	11.2
85°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
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)