

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: P859107

Luminaire Tested: **LX4C55D010 EX4C559035 4LBLWWH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P859107
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 EX4C559035 4LBLWWH
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

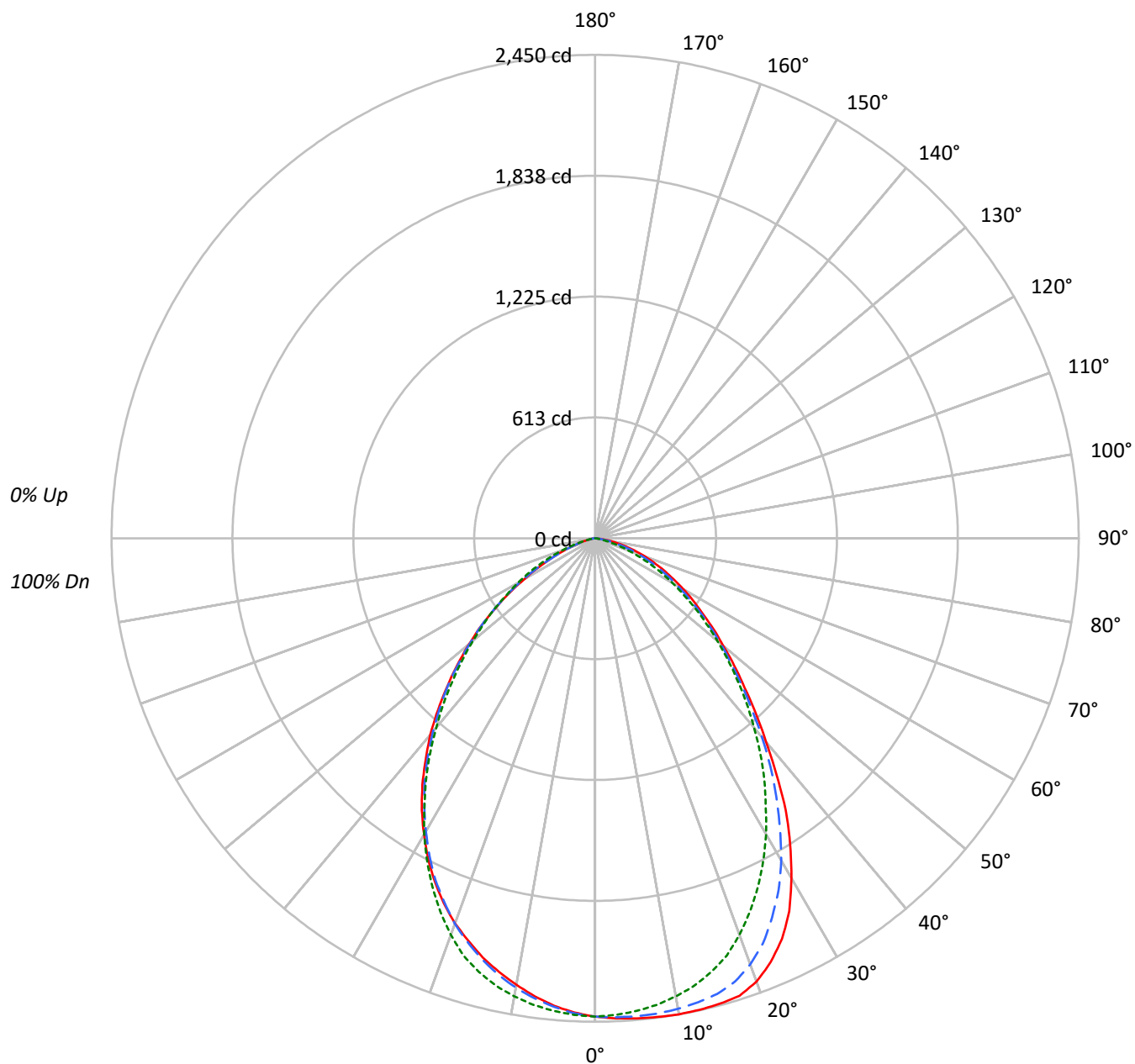
Lumens per Lamp: N/A
Luminaire Lumens: 4569.0 lumens
Efficiency: N/A
Efficacy: 71.5 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88		
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77		
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68		
4	88	78	70	64	86	77	69	64	74	68	63	72	67	62	70	65	62	60		
5	82	71	63	57	80	69	62	57	67	61	56	66	60	55	64	59	55	53		
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47		
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	44	43		
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39		
9	62	50	43	38	61	50	42	37	48	42	37	47	41	37	47	41	37	35		
10	59	47	39	34	58	46	39	34	45	39	34	44	38	34	43	38	34	32		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	297846	297846	297846
5°	301167	296567	293348
10°	305584	294070	286623
15°	310604	289376	279774
20°	312581	279544	271490
25°	303613	264425	260385
30°	282157	245771	245913
35°	252560	224035	228789
40°	216248	200836	208165
45°	186146	177077	183714
50°	161826	154162	158788
55°	142414	132626	131426
60°	126711	110666	101944
65°	111133	88633	73721
70°	95475	62644	49893
75°	77466	36312	29192
80°	55396	15848	14503
85°	21003	6625	6625



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.5	5.0
10°-20°	646.8	14.2
20°-30°	923.6	20.2
30°-40°	966.2	21.1
40°-50°	809.5	17.7
50°-60°	566.6	12.4
60°-70°	308.5	6.8
70°-80°	107.1	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°	1798.8	39.4
0°-40°	2765.0	60.5
0°-60°	4141.1	90.6
0°-90°	4569.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4569.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2424	2424	2424	2424	2424	
5°	2442	2431	2405	2384	2379	233
15°	2442	2391	2275	2210	2200	690
25°	2240	2120	1951	1912	1921	1023
35°	1684	1601	1494	1505	1526	1044
45°	1071	1047	1019	1053	1057	833
55°	665	642	619	619	614	601
65°	382	349	305	256	254	381
75°	163	132	76	62	62	176
85°	15	8	5	5	5	27
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°	2424.4	2424.4	2424.4	2424.4	2424.4	2424.4	2424.4	2424.4	2424.4	2424.4	2424.4
2.5°	2435.6	2432.8	2433.7	2433.7	2433.7	2432.8	2433.7	2432.8	2432.8	2431.9	2430.0
5°	2442.1	2440.3	2440.3	2440.3	2439.3	2438.4	2438.4	2437.5	2435.6	2434.7	2431.0
7.5°	2446.8	2444.9	2444.9	2444.0	2443.1	2442.1	2441.2	2438.4	2435.6	2433.7	2429.1
10°	2449.6	2446.8	2446.8	2444.9	2443.1	2442.1	2440.3	2436.5	2432.8	2428.2	2421.6
12.5°	2447.7	2444.9	2444.0	2442.1	2438.4	2436.5	2434.7	2430.0	2423.5	2417.0	2408.6
15°	2442.1	2440.3	2438.4	2435.6	2431.0	2428.2	2426.3	2418.8	2410.4	2401.1	2390.9
17.5°	2431.0	2428.2	2424.4	2420.7	2414.2	2411.4	2406.7	2397.4	2385.3	2372.2	2356.4
20°	2390.9	2389.0	2385.3	2378.7	2368.5	2364.7	2358.2	2346.1	2330.2	2314.4	2297.6
22.5°	2324.6	2321.9	2316.3	2310.7	2301.3	2294.8	2289.2	2272.4	2254.7	2237.9	2222.1
25°	2239.8	2237.0	2229.5	2222.1	2212.8	2201.6	2196.0	2182.9	2165.2	2143.7	2120.4
27.5°	2130.7	2121.4	2118.6	2110.2	2096.2	2092.5	2084.1	2067.3	2050.5	2031.9	2012.3
30°	1989.0	1989.0	1983.4	1979.6	1966.6	1962.8	1953.5	1935.8	1926.5	1900.4	1885.5
32.5°	1838.8	1837.0	1832.3	1829.5	1822.0	1815.5	1806.2	1796.9	1776.4	1763.3	1742.8
35°	1684.0	1672.9	1674.7	1669.1	1664.5	1657.0	1656.1	1645.8	1627.2	1619.7	1601.1
37.5°	1507.8	1503.1	1509.7	1501.3	1496.6	1497.5	1490.1	1483.6	1476.1	1463.0	1459.3
40°	1348.4	1352.1	1351.1	1343.7	1347.4	1342.8	1335.3	1328.8	1325.0	1316.6	1313.9
42.5°	1205.7	1200.1	1198.2	1198.2	1199.2	1199.2	1195.4	1190.8	1190.8	1182.4	1174.0
45°	1071.4	1071.4	1069.5	1075.1	1066.7	1066.7	1063.9	1063.0	1059.3	1057.4	1047.2
47.5°	955.8	954.8	953.9	953.0	952.1	952.1	946.5	941.8	940.9	935.3	929.7
50°	846.7	852.3	850.4	845.8	843.9	844.8	841.1	838.3	837.4	828.0	829.0
52.5°	755.3	754.4	756.2	753.4	748.8	749.7	746.0	742.2	738.5	733.9	730.1
55°	664.9	669.5	667.6	664.9	663.9	662.1	659.3	654.6	653.7	643.4	642.5
57.5°	589.3	588.4	586.5	581.9	580.9	578.1	578.1	574.4	568.8	563.2	558.5
60°	515.7	515.7	512.9	511.9	508.2	507.3	506.3	502.6	496.1	491.4	484.0
62.5°	444.8	446.7	444.8	442.0	439.2	435.5	433.6	430.8	425.2	420.5	414.0
65°	382.3	381.4	380.4	376.7	375.8	372.1	371.1	365.5	359.9	356.2	348.7
67.5°	322.6	319.8	319.8	318.0	316.1	313.3	311.4	305.9	299.3	295.6	288.1
70°	265.8	263.9	263.9	263.9	259.2	256.4	255.5	252.7	243.4	239.6	232.2
72.5°	213.5	212.6	211.7	208.9	206.1	206.1	202.3	196.8	192.1	187.4	181.8
75°	163.2	165.0	163.2	159.5	158.5	156.7	153.9	149.2	144.5	138.9	132.4
77.5°	119.4	117.5	115.6	115.6	113.8	110.0	109.1	105.4	99.8	96.0	89.5
80°	78.3	77.4	75.5	73.7	72.7	71.8	70.9	67.1	61.5	58.7	53.2
82.5°	42.9	42.0	42.0	41.0	38.2	38.2	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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2424.4	2424.4	2424.4	2424.4	2424.4	2424.4	2424.4	2424.4	2424.4	2424.4	2424.4
2.5°	2428.2	2426.3	2425.4	2424.4	2423.5	2422.6	2421.6	2419.8	2418.8	2417.9	2416.0
5°	2428.2	2424.4	2422.6	2419.8	2417.9	2416.0	2413.2	2410.4	2407.6	2404.8	2402.0
7.5°	2424.4	2418.8	2415.1	2409.5	2407.6	2404.8	2399.2	2395.5	2390.9	2385.3	2378.7
10°	2415.1	2408.6	2401.1	2393.7	2390.9	2386.2	2378.7	2372.2	2364.7	2357.3	2350.8
12.5°	2400.2	2389.9	2380.6	2370.3	2364.7	2360.1	2349.8	2340.5	2331.2	2322.8	2311.6
15°	2377.8	2365.7	2353.6	2339.6	2333.0	2327.4	2312.5	2301.3	2286.4	2275.2	2264.0
17.5°	2341.4	2322.8	2307.9	2290.1	2280.8	2274.3	2261.2	2243.5	2229.5	2217.4	2204.4
20°	2279.0	2261.2	2240.7	2221.1	2210.9	2202.5	2183.8	2165.2	2151.2	2138.2	2124.2
22.5°	2196.9	2174.5	2159.6	2135.4	2127.0	2116.7	2094.3	2077.5	2061.7	2048.6	2035.6
25°	2097.1	2077.5	2057.0	2034.7	2024.4	2012.3	1993.6	1975.9	1965.6	1950.7	1934.9
27.5°	1982.4	1966.6	1941.4	1921.8	1911.6	1902.2	1884.5	1868.7	1853.8	1843.5	1828.6
30°	1861.2	1842.6	1820.2	1799.7	1794.1	1782.9	1767.0	1754.9	1739.1	1732.5	1726.0
32.5°	1727.9	1706.4	1689.6	1676.6	1665.4	1656.1	1647.7	1628.1	1625.3	1608.5	1606.6
35°	1582.4	1573.1	1557.2	1546.0	1536.7	1530.2	1516.2	1506.9	1496.6	1493.8	1487.3
37.5°	1445.3	1434.1	1419.2	1409.0	1402.4	1401.5	1391.2	1385.7	1378.2	1374.5	1367.0
40°	1301.7	1297.1	1284.0	1282.1	1271.9	1271.0	1265.4	1258.8	1252.3	1252.3	1253.2
42.5°	1169.3	1163.7	1158.1	1151.6	1146.0	1146.0	1143.2	1141.3	1139.5	1136.7	1141.3
45°	1045.3	1037.8	1034.1	1027.6	1030.4	1024.8	1022.9	1022.9	1020.1	1019.2	1025.7
47.5°	929.7	921.3	917.6	915.7	915.7	916.6	908.2	911.0	910.1	912.0	914.8
50°	824.3	816.8	811.2	811.2	812.2	808.5	804.7	807.5	804.7	806.6	813.1
52.5°	726.4	718.9	716.1	716.1	710.5	709.6	711.5	707.7	708.7	709.6	713.3
55°	635.9	631.3	626.6	622.0	622.9	621.0	617.3	616.4	618.2	619.2	623.8
57.5°	554.8	548.3	541.8	539.9	538.0	538.0	533.4	532.4	534.3	529.6	529.6
60°	477.4	473.7	465.3	462.5	462.5	457.8	454.1	456.0	451.3	450.4	451.3
62.5°	405.6	402.8	397.2	391.6	389.8	387.9	383.2	381.4	379.5	375.8	370.2
65°	343.1	336.6	330.1	326.4	323.6	318.9	316.1	312.4	306.8	304.9	299.3
67.5°	280.7	274.1	267.6	264.8	262.0	259.2	254.6	249.9	243.4	235.9	229.4
70°	225.7	217.3	213.5	206.1	204.2	200.5	194.0	189.3	182.8	174.4	167.8
72.5°	172.5	166.9	161.3	154.8	150.1	147.3	141.7	134.3	126.8	122.2	115.6
75°	124.0	121.2	113.8	106.3	104.4	100.7	94.2	89.5	83.9	76.5	70.9
77.5°	83.9	78.3	73.7	67.1	65.3	61.5	57.8	53.2	49.4	44.8	41.0
80°	49.4	44.8	42.0	37.3	35.4	33.6	30.8	27.0	24.2	22.4	21.4
82.5°	24.2	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2424.4	2424.4	2424.4	2424.4	2424.4	2424.4	2424.4	2424.4	2424.4	2424.4	2424.4
2.5°	2415.1	2414.2	2413.2	2412.3	2412.3	2411.4	2411.4	2410.4	2410.4	2409.5	2409.5
5°	2398.3	2395.5	2393.7	2391.8	2391.8	2389.0	2387.1	2385.3	2384.3	2384.3	2382.5
7.5°	2375.0	2371.3	2367.5	2364.7	2363.8	2359.1	2355.4	2355.4	2351.7	2349.8	2348.0
10°	2344.2	2337.7	2332.1	2329.3	2325.6	2322.8	2318.1	2315.3	2312.5	2307.9	2306.9
12.5°	2302.3	2297.6	2289.2	2285.5	2283.6	2278.0	2270.6	2266.8	2265.9	2262.2	2259.4
15°	2254.7	2244.5	2237.0	2232.3	2232.3	2223.0	2219.3	2213.7	2210.0	2207.2	2206.2
17.5°	2193.2	2182.9	2175.5	2168.9	2167.1	2159.6	2154.0	2152.1	2147.5	2149.3	2144.7
20°	2113.9	2105.5	2099.9	2091.5	2091.5	2086.9	2085.0	2080.3	2078.5	2076.6	2078.5
22.5°	2029.1	2018.8	2009.5	2008.5	2008.5	2002.0	2001.1	2000.1	1996.4	1999.2	1998.3
25°	1929.3	1921.8	1916.2	1915.3	1915.3	1911.6	1907.8	1909.7	1912.5	1911.6	1914.4
27.5°	1825.8	1818.3	1816.5	1815.5	1813.7	1812.7	1814.6	1814.6	1817.4	1821.1	1824.8
30°	1713.9	1712.0	1709.2	1708.3	1706.4	1711.1	1712.9	1715.7	1714.8	1720.4	1724.1
32.5°	1602.0	1598.3	1597.3	1599.2	1602.0	1601.1	1606.6	1608.5	1610.4	1616.9	1619.7
35°	1489.2	1488.2	1486.4	1486.4	1487.3	1494.7	1494.7	1501.3	1505.0	1506.9	1514.3
37.5°	1367.9	1371.7	1373.5	1376.3	1377.3	1380.1	1381.9	1388.4	1392.2	1395.9	1399.6
40°	1257.0	1255.1	1263.5	1257.9	1259.8	1268.2	1271.9	1271.0	1276.6	1282.1	1285.9
42.5°	1138.5	1141.3	1143.2	1145.1	1149.7	1150.7	1155.3	1161.9	1163.7	1170.3	1172.1
45°	1023.9	1024.8	1028.5	1032.2	1035.0	1042.5	1044.4	1047.2	1052.8	1052.8	1055.6
47.5°	915.7	919.4	919.4	925.0	929.7	928.7	935.3	937.1	936.2	940.9	942.7
50°	812.2	817.8	816.8	820.6	822.4	823.4	829.0	830.8	827.1	831.8	832.7
52.5°	713.3	716.1	719.9	720.8	718.9	723.6	721.7	725.5	724.5	728.3	724.5
55°	622.9	622.0	622.0	623.8	622.0	623.8	625.7	622.0	619.2	622.9	622.0
57.5°	532.4	532.4	530.6	533.4	530.6	527.8	526.8	524.0	521.3	521.3	520.3
60°	447.6	445.7	442.0	441.1	441.1	436.4	434.5	430.8	430.8	427.1	423.3
62.5°	368.3	363.7	360.9	360.9	359.0	354.3	345.9	340.4	338.5	332.9	332.0
65°	293.7	289.1	286.3	280.7	276.0	274.1	265.8	259.2	256.4	250.8	251.8
67.5°	225.7	218.2	209.8	206.1	203.3	196.8	194.0	189.3	186.5	186.5	186.5
70°	162.2	155.7	147.3	144.5	142.7	137.1	134.3	133.3	136.1	135.2	136.1
72.5°	109.1	102.6	98.8	97.0	95.1	92.3	94.2	95.1	93.2	94.2	95.1
75°	66.2	64.3	61.5	60.6	60.6	61.5	60.6	60.6	61.5	61.5	62.5
77.5°	38.2	36.4	36.4	35.4	37.3	36.4	36.4	36.4	37.3	37.3	37.3
80°	20.5	20.5	20.5	20.5	21.4	20.5	21.4	21.4	21.4	21.4	21.4
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: P859107

CATALOG NUMBER: LX4C55D010 EX4C559035 4LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2424.4	2424.4	2424.4	2424.4	2424.4	2424.4	2424.4	2424.4
2.5°	2407.6	2407.6	2407.6	2405.8	2406.7	2406.7	2405.8	2405.8
5°	2381.5	2380.6	2378.7	2378.7	2376.9	2378.7	2377.8	2378.7
7.5°	2346.1	2346.1	2343.3	2343.3	2342.4	2341.4	2340.5	2341.4
10°	2304.1	2304.1	2302.3	2301.3	2302.3	2298.5	2298.5	2297.6
12.5°	2257.5	2255.6	2253.8	2254.7	2253.8	2251.0	2250.1	2251.0
15°	2203.4	2200.6	2201.6	2198.8	2198.8	2197.8	2199.7	2199.7
17.5°	2143.7	2141.9	2140.0	2141.0	2139.1	2140.0	2139.1	2138.2
20°	2077.5	2076.6	2076.6	2072.9	2073.8	2072.9	2073.8	2076.6
22.5°	2001.1	2000.1	2001.1	1998.3	2000.1	2000.1	2002.9	2002.9
25°	1917.2	1916.2	1918.1	1919.0	1920.0	1922.8	1920.0	1920.9
27.5°	1823.9	1826.7	1829.5	1830.4	1834.2	1831.4	1829.5	1832.3
30°	1729.7	1729.7	1728.8	1732.5	1735.3	1738.1	1733.5	1733.5
32.5°	1621.6	1626.2	1626.2	1627.2	1630.0	1630.0	1630.0	1633.7
35°	1518.1	1520.9	1521.8	1518.1	1519.9	1519.0	1525.5	1525.5
37.5°	1402.4	1402.4	1403.4	1409.9	1409.9	1407.1	1409.0	1409.0
40°	1292.4	1293.3	1289.6	1291.5	1296.1	1294.3	1296.1	1298.0
42.5°	1172.1	1178.6	1174.9	1176.8	1175.8	1176.8	1177.7	1177.7
45°	1057.4	1059.3	1059.3	1060.2	1062.1	1063.9	1058.4	1057.4
47.5°	945.5	946.5	949.3	944.6	950.2	944.6	950.2	943.7
50°	832.7	836.4	833.6	835.5	832.7	832.7	831.8	830.8
52.5°	725.5	724.5	724.5	723.6	723.6	725.5	723.6	726.4
55°	618.2	619.2	617.3	616.4	615.4	618.2	615.4	613.6
57.5°	516.6	518.5	514.7	516.6	510.1	512.9	513.8	514.7
60°	422.4	419.6	419.6	415.9	415.9	418.7	414.9	414.9
62.5°	327.3	329.2	326.4	330.1	330.1	333.8	332.0	333.8
65°	250.8	251.8	252.7	252.7	252.7	258.3	256.4	253.6
67.5°	189.3	190.2	191.2	190.2	193.0	191.2	191.2	192.1
70°	137.1	138.0	138.9	138.9	138.0	138.9	138.9	138.9
72.5°	95.1	96.0	95.1	96.0	97.0	96.0	96.0	97.0
75°	62.5	62.5	61.5	61.5	61.5	61.5	62.5	61.5
77.5°	36.4	37.3	36.4	37.3	37.3	37.3	37.3	37.3
80°	21.4	21.4	21.4	20.5	21.4	21.4	21.4	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)