

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: P859162

Luminaire Tested: **LX4C55D010 EX4C559727 4LBLWWH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P859162
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 EX4C559727 4LBLWWH
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 97CRI LEDS
AND 4LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

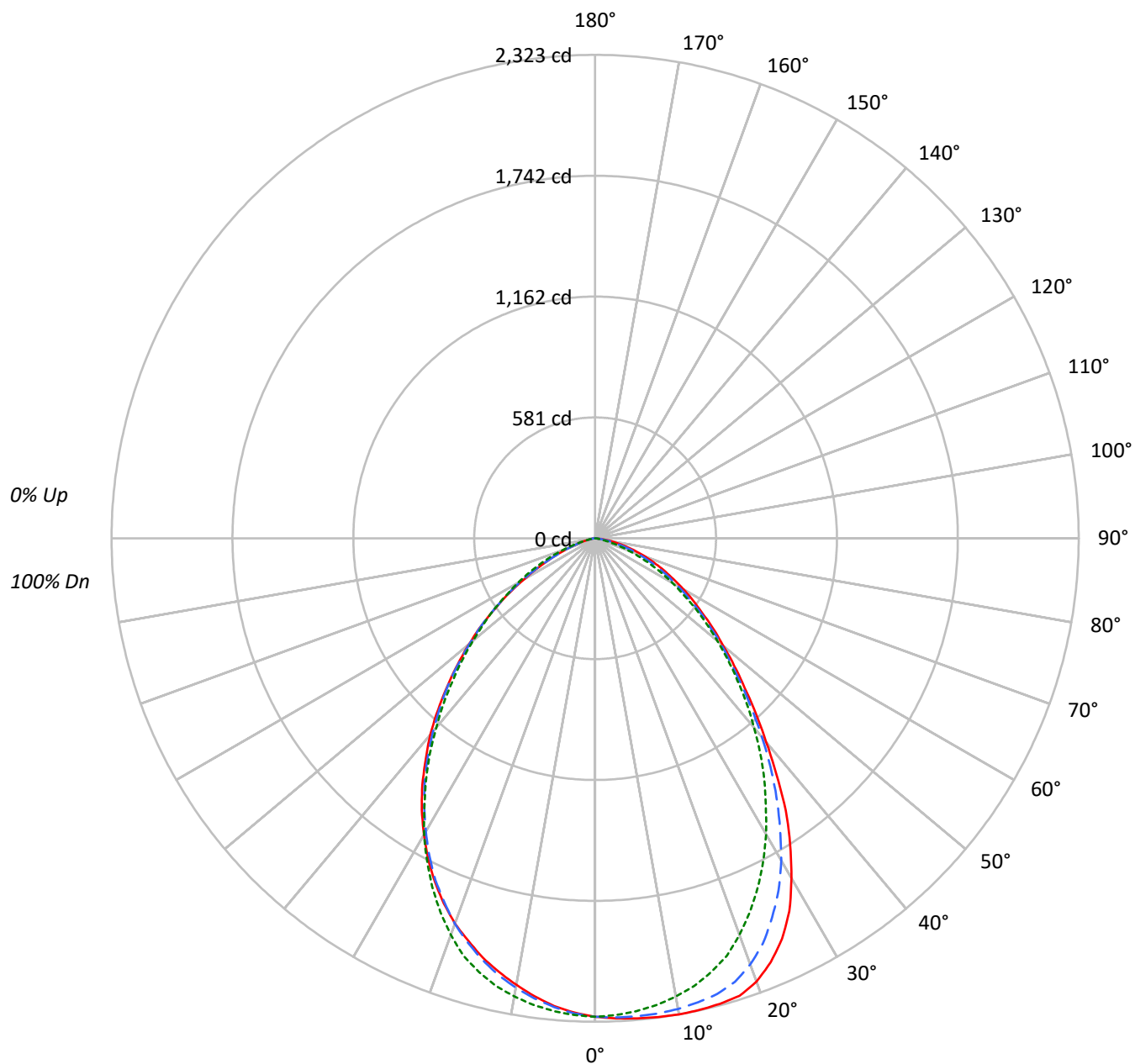
Lumens per Lamp: N/A
Luminaire Lumens: 4333.0 lumens
Efficiency: N/A
Efficacy: 67.8 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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
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		48	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°	282465	282465	282465
5°	285616	281250	278204
10°	289804	278876	271815
15°	294566	274432	265325
20°	296435	265097	257462
25°	287930	250775	246938
30°	267574	233074	233202
35°	239527	212472	216971
40°	205070	190460	197420
45°	176538	167921	174228
50°	153455	146192	150588
55°	135046	125771	124636
60°	120151	104941	96686
65°	105406	84069	69912
70°	90518	59412	47342
75°	73479	34414	27721
80°	52566	14999	13796
85°	19875	6202	6202



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.7	5.0
10°-20°	613.4	14.2
20°-30°	875.9	20.2
30°-40°	916.3	21.1
40°-50°	767.7	17.7
50°-60°	537.3	12.4
60°-70°	292.6	6.8
70°-80°	101.5	2.3
80°-90°	11.7	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°	1705.9	39.4
0°-40°	2622.2	60.5
0°-60°	3927.2	90.6
0°-90°	4333.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4333.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2299	2299	2299	2299	2299	
5°	2316	2305	2281	2261	2256	221
15°	2316	2267	2158	2096	2086	654
25°	2124	2011	1850	1814	1822	970
35°	1597	1518	1417	1427	1447	990
45°	1016	993	966	998	1003	790
55°	630	609	587	587	582	570
65°	363	331	289	243	240	361
75°	155	126	72	58	58	167
85°	14	8	4	4	4	25
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°	2299.2	2299.2	2299.2	2299.2	2299.2	2299.2	2299.2	2299.2	2299.2	2299.2	2299.2
2.5°	2309.8	2307.2	2308.0	2308.0	2308.0	2307.2	2308.0	2307.2	2307.2	2306.3	2304.5
5°	2316.0	2314.2	2314.2	2314.2	2313.3	2312.5	2312.5	2311.6	2309.8	2308.9	2305.4
7.5°	2320.4	2318.7	2318.7	2317.8	2316.9	2316.0	2315.1	2312.5	2309.8	2308.0	2303.6
10°	2323.1	2320.4	2320.4	2318.7	2316.9	2316.0	2314.2	2310.7	2307.2	2302.7	2296.5
12.5°	2321.3	2318.7	2317.8	2316.0	2312.5	2310.7	2308.9	2304.5	2298.3	2292.1	2284.2
15°	2316.0	2314.2	2312.5	2309.8	2305.4	2302.7	2301.0	2293.9	2285.9	2277.1	2267.4
17.5°	2305.4	2302.7	2299.2	2295.7	2289.5	2286.8	2282.4	2273.6	2262.1	2249.7	2234.6
20°	2267.4	2265.6	2262.1	2255.9	2246.1	2242.6	2236.4	2224.9	2209.9	2194.8	2178.9
22.5°	2204.6	2201.9	2196.6	2191.3	2182.5	2176.3	2171.0	2155.1	2138.3	2122.3	2107.3
25°	2124.1	2121.4	2114.4	2107.3	2098.5	2087.8	2082.5	2070.2	2053.4	2033.0	2010.9
27.5°	2020.6	2011.8	2009.1	2001.2	1987.9	1984.4	1976.4	1960.5	1944.6	1926.9	1908.3
30°	1886.2	1886.2	1880.9	1877.4	1865.0	1861.5	1852.6	1835.8	1827.0	1802.2	1788.1
32.5°	1743.9	1742.1	1737.7	1735.0	1727.9	1721.7	1712.9	1704.1	1684.6	1672.2	1652.8
35°	1597.1	1586.4	1588.2	1582.9	1578.5	1571.4	1570.5	1560.8	1543.1	1536.0	1518.4
37.5°	1429.9	1425.5	1431.7	1423.7	1419.3	1420.2	1413.1	1406.9	1399.9	1387.5	1383.9
40°	1278.7	1282.2	1281.4	1274.3	1277.8	1273.4	1266.3	1260.1	1256.6	1248.6	1246.0
42.5°	1143.4	1138.1	1136.3	1136.3	1137.2	1137.2	1133.7	1129.3	1129.3	1121.3	1113.3
45°	1016.1	1016.1	1014.3	1019.6	1011.6	1011.6	1009.0	1008.1	1004.6	1002.8	993.1
47.5°	906.4	905.5	904.6	903.8	902.9	902.9	897.6	893.1	892.3	887.0	881.7
50°	802.9	808.3	806.5	802.1	800.3	801.2	797.6	795.0	794.1	785.3	786.1
52.5°	716.3	715.4	717.2	714.5	710.1	711.0	707.4	703.9	700.4	695.9	692.4
55°	630.5	634.9	633.2	630.5	629.6	627.9	625.2	620.8	619.9	610.2	609.3
57.5°	558.9	558.0	556.2	551.8	550.9	548.3	548.3	544.7	539.4	534.1	529.7
60°	489.0	489.0	486.4	485.5	481.9	481.1	480.2	476.6	470.5	466.0	459.0
62.5°	421.8	423.6	421.8	419.2	416.5	413.0	411.2	408.5	403.2	398.8	392.6
65°	362.6	361.7	360.8	357.3	356.4	352.8	352.0	346.6	341.3	337.8	330.7
67.5°	306.0	303.3	303.3	301.5	299.8	297.1	295.4	290.1	283.9	280.3	273.3
70°	252.0	250.3	250.3	250.3	245.8	243.2	242.3	239.6	230.8	227.3	220.2
72.5°	202.5	201.6	200.7	198.1	195.4	195.4	191.9	186.6	182.2	177.7	172.4
75°	154.8	156.5	154.8	151.2	150.3	148.6	145.9	141.5	137.1	131.8	125.6
77.5°	113.2	111.4	109.7	109.7	107.9	104.3	103.5	99.9	94.6	91.1	84.9
80°	74.3	73.4	71.6	69.9	69.0	68.1	67.2	63.7	58.4	55.7	50.4
82.5°	40.7	39.8	39.8	38.9	36.3	36.3	35.4	31.8	29.2	27.4	24.8
85°	14.1	14.1	14.1	13.3	13.3	13.3	12.4	11.5	10.6	9.7	8.0
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°	2299.2	2299.2	2299.2	2299.2	2299.2	2299.2	2299.2	2299.2	2299.2	2299.2	2299.2
2.5°	2302.7	2301.0	2300.1	2299.2	2298.3	2297.4	2296.5	2294.8	2293.9	2293.0	2291.2
5°	2302.7	2299.2	2297.4	2294.8	2293.0	2291.2	2288.6	2285.9	2283.3	2280.6	2278.0
7.5°	2299.2	2293.9	2290.4	2285.0	2283.3	2280.6	2275.3	2271.8	2267.4	2262.1	2255.9
10°	2290.4	2284.2	2277.1	2270.0	2267.4	2262.9	2255.9	2249.7	2242.6	2235.5	2229.3
12.5°	2276.2	2266.5	2257.6	2247.9	2242.6	2238.2	2228.5	2219.6	2210.8	2202.8	2192.2
15°	2255.0	2243.5	2232.0	2218.7	2212.5	2207.2	2193.1	2182.5	2168.3	2157.7	2147.1
17.5°	2220.5	2202.8	2188.7	2171.9	2163.0	2156.8	2144.4	2127.6	2114.4	2102.9	2090.5
20°	2161.2	2144.4	2125.0	2106.4	2096.7	2088.7	2071.0	2053.4	2040.1	2027.7	2014.4
22.5°	2083.4	2062.2	2048.1	2025.1	2017.1	2007.4	1986.2	1970.2	1955.2	1942.8	1930.4
25°	1988.8	1970.2	1950.8	1929.6	1919.8	1908.3	1890.6	1873.8	1864.1	1850.0	1834.9
27.5°	1880.0	1865.0	1841.1	1822.6	1812.8	1804.0	1787.2	1772.1	1758.0	1748.3	1734.1
30°	1765.1	1747.4	1726.2	1706.7	1701.4	1690.8	1675.8	1664.3	1649.2	1643.0	1636.9
32.5°	1638.6	1618.3	1602.4	1590.0	1579.4	1570.5	1562.6	1544.0	1541.3	1525.4	1523.7
35°	1500.7	1491.8	1476.8	1466.2	1457.3	1451.1	1437.9	1429.0	1419.3	1416.7	1410.5
37.5°	1370.7	1360.1	1345.9	1336.2	1330.0	1329.1	1319.4	1314.1	1307.0	1303.5	1296.4
40°	1234.5	1230.1	1217.7	1215.9	1206.2	1205.3	1200.0	1193.8	1187.6	1187.6	1188.5
42.5°	1108.9	1103.6	1098.3	1092.1	1086.8	1086.8	1084.2	1082.4	1080.6	1078.0	1082.4
45°	991.3	984.2	980.7	974.5	977.2	971.9	970.1	970.1	967.4	966.5	972.7
47.5°	881.7	873.7	870.2	868.4	868.4	869.3	861.3	864.0	863.1	864.9	867.5
50°	781.7	774.7	769.3	769.3	770.2	766.7	763.2	765.8	763.2	764.9	771.1
52.5°	688.9	681.8	679.1	679.1	673.8	673.0	674.7	671.2	672.1	673.0	676.5
55°	603.1	598.7	594.3	589.8	590.7	588.9	585.4	584.5	586.3	587.2	591.6
57.5°	526.2	520.0	513.8	512.0	510.2	510.2	505.8	504.9	506.7	502.3	502.3
60°	452.8	449.2	441.3	438.6	438.6	434.2	430.7	432.4	428.0	427.1	428.0
62.5°	384.7	382.0	376.7	371.4	369.6	367.9	363.4	361.7	359.9	356.4	351.1
65°	325.4	319.2	313.0	309.5	306.9	302.4	299.8	296.2	290.9	289.2	283.9
67.5°	266.2	260.0	253.8	251.1	248.5	245.8	241.4	237.0	230.8	223.7	217.5
70°	214.0	206.0	202.5	195.4	193.7	190.1	183.9	179.5	173.3	165.4	159.2
72.5°	163.6	158.3	153.0	146.8	142.4	139.7	134.4	127.3	120.3	115.8	109.7
75°	117.6	115.0	107.9	100.8	99.0	95.5	89.3	84.9	79.6	72.5	67.2
77.5°	79.6	74.3	69.9	63.7	61.9	58.4	54.8	50.4	46.9	42.4	38.9
80°	46.9	42.4	39.8	35.4	33.6	31.8	29.2	25.6	23.0	21.2	20.3
82.5°	23.0	19.5	18.6	15.9	15.0	14.1	12.4	11.5	9.7	9.7	9.7
85°	8.0	6.2	6.2	5.3	4.4	4.4	4.4	4.4	4.4	4.4	4.4
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°	2299.2	2299.2	2299.2	2299.2	2299.2	2299.2	2299.2	2299.2	2299.2	2299.2	2299.2
2.5°	2290.4	2289.5	2288.6	2287.7	2287.7	2286.8	2286.8	2285.9	2285.9	2285.0	2285.0
5°	2274.4	2271.8	2270.0	2268.2	2268.2	2265.6	2263.8	2262.1	2261.2	2261.2	2259.4
7.5°	2252.3	2248.8	2245.3	2242.6	2241.7	2237.3	2233.8	2233.8	2230.2	2228.5	2226.7
10°	2223.1	2217.0	2211.6	2209.0	2205.5	2202.8	2198.4	2195.7	2193.1	2188.7	2187.8
12.5°	2183.4	2178.9	2171.0	2167.4	2165.7	2160.4	2153.3	2149.7	2148.9	2145.3	2142.7
15°	2138.3	2128.5	2121.4	2117.0	2117.0	2108.2	2104.6	2099.3	2095.8	2093.2	2092.3
17.5°	2079.9	2070.2	2063.1	2056.9	2055.1	2048.1	2042.7	2041.0	2036.6	2038.3	2033.9
20°	2004.7	1996.8	1991.5	1983.5	1983.5	1979.1	1977.3	1972.9	1971.1	1969.3	1971.1
22.5°	1924.2	1914.5	1905.7	1904.8	1904.8	1898.6	1897.7	1896.8	1893.3	1896.0	1895.1
25°	1829.6	1822.6	1817.2	1816.4	1816.4	1812.8	1809.3	1811.1	1813.7	1812.8	1815.5
27.5°	1731.5	1724.4	1722.6	1721.7	1720.0	1719.1	1720.9	1720.9	1723.5	1727.0	1730.6
30°	1625.4	1623.6	1620.9	1620.0	1618.3	1622.7	1624.5	1627.1	1626.2	1631.5	1635.1
32.5°	1519.2	1515.7	1514.8	1516.6	1519.2	1518.4	1523.7	1525.4	1527.2	1533.4	1536.0
35°	1412.2	1411.4	1409.6	1409.6	1410.5	1417.5	1417.5	1423.7	1427.3	1429.0	1436.1
37.5°	1297.3	1300.8	1302.6	1305.2	1306.1	1308.8	1310.5	1316.7	1320.3	1323.8	1327.3
40°	1192.0	1190.3	1198.2	1192.9	1194.7	1202.7	1206.2	1205.3	1210.6	1215.9	1219.5
42.5°	1079.7	1082.4	1084.2	1085.9	1090.3	1091.2	1095.7	1101.8	1103.6	1109.8	1111.6
45°	971.0	971.9	975.4	978.9	981.6	988.7	990.4	993.1	998.4	998.4	1001.0
47.5°	868.4	871.9	871.9	877.2	881.7	880.8	887.0	888.7	887.8	892.3	894.0
50°	770.2	775.5	774.7	778.2	780.0	780.8	786.1	787.9	784.4	788.8	789.7
52.5°	676.5	679.1	682.7	683.6	681.8	686.2	684.5	688.0	687.1	690.6	687.1
55°	590.7	589.8	589.8	591.6	589.8	591.6	593.4	589.8	587.2	590.7	589.8
57.5°	504.9	504.9	503.2	505.8	503.2	500.5	499.6	497.0	494.3	494.3	493.4
60°	424.5	422.7	419.2	418.3	418.3	413.9	412.1	408.5	408.5	405.0	401.5
62.5°	349.3	344.9	342.2	342.2	340.5	336.0	328.1	322.8	321.0	315.7	314.8
65°	278.6	274.1	271.5	266.2	261.8	260.0	252.0	245.8	243.2	237.9	238.8
67.5°	214.0	206.9	199.0	195.4	192.8	186.6	183.9	179.5	176.9	176.9	176.9
70°	153.9	147.7	139.7	137.1	135.3	130.0	127.3	126.5	129.1	128.2	129.1
72.5°	103.5	97.3	93.7	92.0	90.2	87.5	89.3	90.2	88.4	89.3	90.2
75°	62.8	61.0	58.4	57.5	57.5	58.4	57.5	57.5	58.4	58.4	59.2
77.5°	36.3	34.5	34.5	33.6	35.4	34.5	34.5	34.5	35.4	35.4	35.4
80°	19.5	19.5	19.5	19.5	20.3	19.5	20.3	20.3	20.3	20.3	20.3
82.5°	9.7	9.7	9.7	10.6	10.6	10.6	10.6	10.6	10.6	10.6	9.7
85°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
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: P859162

CATALOG NUMBER: LX4C55D010 EX4C559727 4LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2299.2	2299.2	2299.2	2299.2	2299.2	2299.2	2299.2	2299.2
2.5°	2283.3	2283.3	2283.3	2281.5	2282.4	2282.4	2281.5	2281.5
5°	2258.5	2257.6	2255.9	2255.9	2254.1	2255.9	2255.0	2255.9
7.5°	2224.9	2224.9	2222.3	2222.3	2221.4	2220.5	2219.6	2220.5
10°	2185.1	2185.1	2183.4	2182.5	2183.4	2179.8	2179.8	2178.9
12.5°	2140.9	2139.1	2137.4	2138.3	2137.4	2134.7	2133.8	2134.7
15°	2089.6	2087.0	2087.8	2085.2	2085.2	2084.3	2086.1	2086.1
17.5°	2033.0	2031.3	2029.5	2030.4	2028.6	2029.5	2028.6	2027.7
20°	1970.2	1969.3	1969.3	1965.8	1966.7	1965.8	1966.7	1969.3
22.5°	1897.7	1896.8	1897.7	1895.1	1896.8	1896.8	1899.5	1899.5
25°	1818.1	1817.2	1819.0	1819.9	1820.8	1823.4	1820.8	1821.7
27.5°	1729.7	1732.4	1735.0	1735.9	1739.4	1736.8	1735.0	1737.7
30°	1640.4	1640.4	1639.5	1643.0	1645.7	1648.3	1643.9	1643.9
32.5°	1537.8	1542.2	1542.2	1543.1	1545.8	1545.8	1545.8	1549.3
35°	1439.7	1442.3	1443.2	1439.7	1441.4	1440.5	1446.7	1446.7
37.5°	1330.0	1330.0	1330.9	1337.1	1337.1	1334.4	1336.2	1336.2
40°	1225.6	1226.5	1223.0	1224.8	1229.2	1227.4	1229.2	1231.0
42.5°	1111.6	1117.8	1114.2	1116.0	1115.1	1116.0	1116.9	1116.9
45°	1002.8	1004.6	1004.6	1005.5	1007.2	1009.0	1003.7	1002.8
47.5°	896.7	897.6	900.2	895.8	901.1	895.8	901.1	894.9
50°	789.7	793.2	790.6	792.3	789.7	789.7	788.8	787.9
52.5°	688.0	687.1	687.1	686.2	686.2	688.0	686.2	688.9
55°	586.3	587.2	585.4	584.5	583.6	586.3	583.6	581.9
57.5°	489.9	491.7	488.1	489.9	483.7	486.4	487.3	488.1
60°	400.6	397.9	397.9	394.4	394.4	397.1	393.5	393.5
62.5°	310.4	312.2	309.5	313.0	313.0	316.6	314.8	316.6
65°	237.9	238.8	239.6	239.6	239.6	245.0	243.2	240.5
67.5°	179.5	180.4	181.3	180.4	183.1	181.3	181.3	182.2
70°	130.0	130.9	131.8	131.8	130.9	131.8	131.8	131.8
72.5°	90.2	91.1	90.2	91.1	92.0	91.1	91.1	92.0
75°	59.2	59.2	58.4	58.4	58.4	58.4	59.2	58.4
77.5°	34.5	35.4	34.5	35.4	35.4	35.4	35.4	35.4
80°	20.3	20.3	20.3	19.5	20.3	20.3	20.3	19.5
82.5°	10.6	10.6	9.7	9.7	10.6	10.6	10.6	10.6
85°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
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)