

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: P859609

Luminaire Tested: **LX4C75D010 EX4C759727 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P859609
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: LX4C75D010 EX4C759727 4LBLWW*
Description: 4 INCH 7500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 97CRI LEDS
AND 4LRLWW TRIM WITH * FINISH
Light Source: -
Ballast/Driver: -

Summary

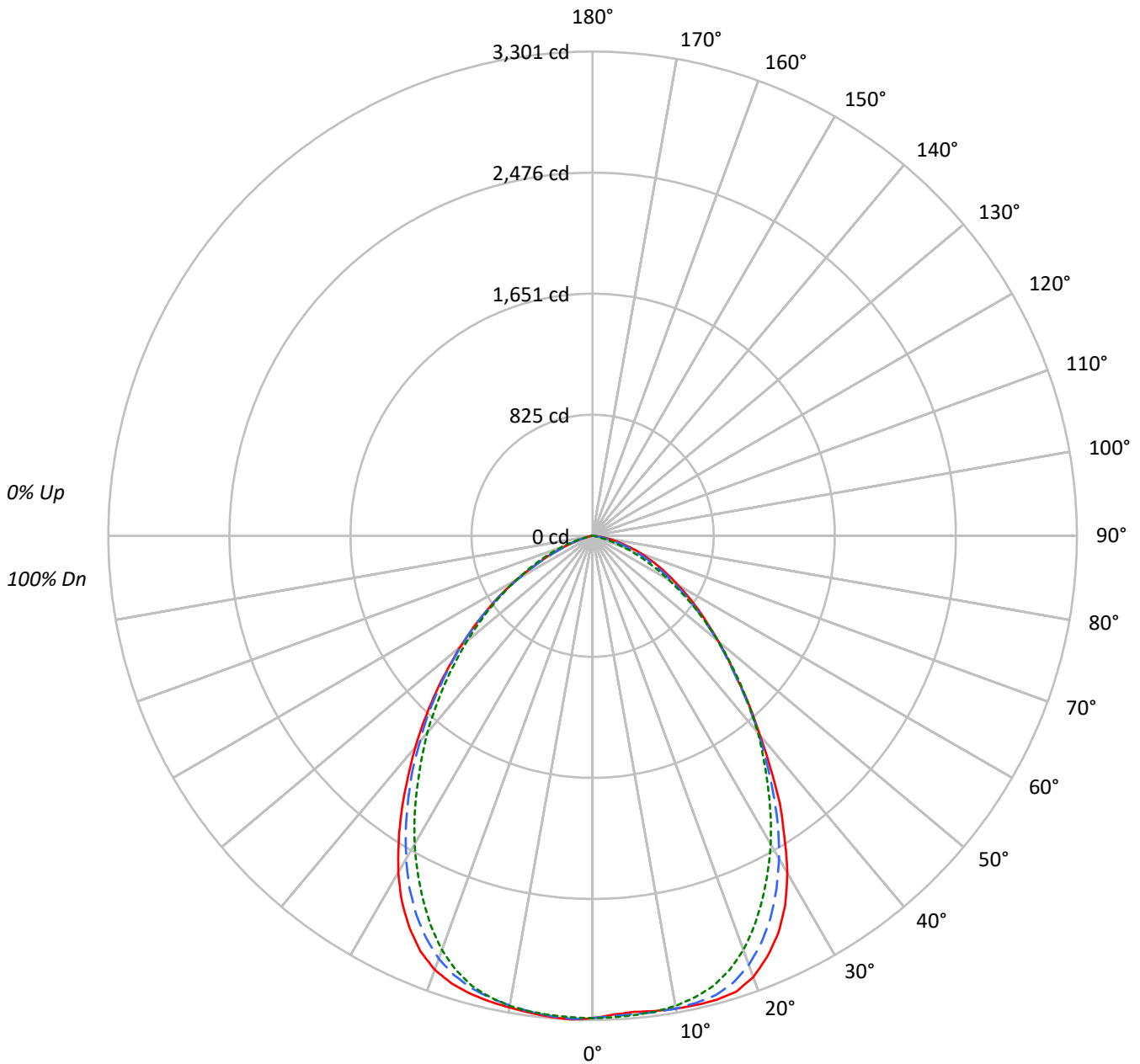
Lumens per Lamp: N/A
Luminaire Lumens: 6305.0 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 81.5
Input Voltage (V):
Input Current (A_{in}): 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: P859609

CATALOG NUMBER: LX4C75D010 EX4C759727 4LBLWW*

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			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			89
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78			78
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68			68
4	88	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60			60
5	82	71	63	57	80	70	63	57	68	61	57	66	60	56	64	59	55	54			54
6	76	65	57	51	75	64	56	51	62	56	51	61	55	50	59	54	50	48			48
7	71	59	51	46	70	59	51	46	57	50	46	56	50	45	54	49	45	43			43
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	50	45	41	39			39
9	63	51	43	38	61	50	43	38	49	42	38	48	42	38	47	41	37	36			36
10	59	47	40	35	58	46	39	35	45	39	35	45	39	35	44	38	34	33			33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	404028	404028	404028
5°	401761	404499	406028
10°	408415	405945	407479
15°	416398	404138	410891
20°	418492	392815	411550
25°	405618	370970	400087
30°	376480	344249	375784
35°	333383	312266	339682
40°	284214	281232	301246
45°	244176	246956	262401
50°	213144	213603	224936
55°	188336	180390	186473
60°	165066	147178	146564
65°	146104	114156	101598
70°	124642	78521	60346
75°	100820	42198	27531
80°	69051	10471	7004
85°	20862	3524	3524



TEST NUMBER: P859609

CATALOG NUMBER: LX4C75D010 EX4C759727 4LBLWW*

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.6	5.0
10°-20°	904.8	14.4
20°-30°	1307.4	20.7
30°-40°	1351.5	21.4
40°-50°	1116.7	17.7
50°-60°	770.7	12.2
60°-70°	403.5	6.4
70°-80°	127.0	2.0
80°-90°	10.8	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°	2524.7	40.0
0°-40°	3876.3	61.5
0°-60°	5763.7	91.4
0°-90°	6305.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6305.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3289	3289	3289	3289	3289	
5°	3258	3274	3280	3286	3292	312
15°	3274	3243	3178	3192	3231	924
25°	2992	2871	2737	2847	2952	1366
35°	2223	2149	2082	2191	2265	1380
45°	1405	1399	1421	1487	1510	1096
55°	879	852	842	866	871	790
65°	503	456	393	326	350	498
75°	212	167	89	60	58	228
85°	15	7	2	2	2	31
90°	0	0	0	0	0	



TEST NUMBER: P859609

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3288.7	3288.7	3288.7	3288.7	3288.7	3288.7	3288.7	3288.7	3288.7	3288.7	3288.7
2.5°	3267.7	3268.9	3268.9	3271.4	3271.4	3271.4	3272.6	3272.6	3273.9	3275.1	3276.3
5°	3257.8	3257.8	3260.3	3261.5	3264.0	3265.2	3267.7	3268.9	3271.4	3272.6	3273.9
7.5°	3267.7	3267.7	3268.9	3270.2	3270.2	3271.4	3271.4	3272.6	3273.9	3275.1	3275.1
10°	3273.9	3273.9	3273.9	3273.9	3275.1	3275.1	3275.1	3273.9	3273.9	3273.9	3272.6
12.5°	3276.3	3276.3	3275.1	3273.9	3275.1	3273.9	3273.9	3270.2	3267.7	3265.2	3261.5
15°	3273.9	3273.9	3272.6	3271.4	3270.2	3267.7	3266.4	3260.3	3255.3	3247.9	3243.0
17.5°	3257.8	3255.3	3252.9	3250.4	3245.5	3241.7	3239.3	3228.2	3219.5	3207.2	3193.6
20°	3201.0	3198.5	3194.8	3188.6	3182.5	3177.5	3170.1	3154.1	3145.4	3126.9	3113.3
22.5°	3108.4	3105.9	3107.1	3096.0	3083.7	3076.3	3071.3	3057.7	3042.9	3019.5	3004.6
25°	2992.3	2984.9	2984.9	2967.6	2961.4	2956.5	2950.3	2934.2	2912.0	2891.0	2871.3
27.5°	2841.6	2831.7	2826.8	2824.3	2809.5	2798.4	2789.8	2777.4	2758.9	2740.4	2713.2
30°	2653.9	2652.7	2646.5	2635.4	2624.3	2619.3	2609.5	2588.5	2571.2	2557.6	2540.3
32.5°	2432.9	2431.6	2431.6	2431.6	2424.2	2423.0	2408.2	2397.0	2383.5	2362.5	2351.3
35°	2222.9	2221.7	2222.9	2204.4	2199.5	2195.7	2194.5	2187.1	2168.6	2158.7	2148.8
37.5°	1985.8	1989.5	1987.0	1982.1	1988.3	1977.2	1985.8	1969.7	1962.3	1959.9	1948.8
40°	1772.2	1782.0	1772.2	1773.4	1779.6	1768.5	1768.5	1766.0	1761.0	1758.6	1756.1
42.5°	1589.4	1577.0	1584.4	1578.3	1584.4	1580.7	1574.6	1578.3	1579.5	1574.6	1573.3
45°	1405.4	1407.8	1410.3	1406.6	1406.6	1402.9	1412.8	1406.6	1406.6	1407.8	1399.2
47.5°	1255.9	1252.2	1254.7	1252.2	1253.5	1251.0	1253.5	1254.7	1252.2	1252.2	1244.8
50°	1115.2	1112.7	1121.3	1113.9	1113.9	1112.7	1113.9	1111.5	1107.8	1107.8	1110.2
52.5°	992.9	988.0	986.7	992.9	984.3	984.3	985.5	983.0	978.1	975.6	969.4
55°	879.3	878.1	879.3	874.3	871.9	871.9	865.7	863.2	862.0	855.8	852.1
57.5°	773.1	769.4	770.6	769.4	764.4	763.2	758.3	758.3	753.3	748.4	742.2
60°	671.8	671.8	675.5	670.6	666.9	664.4	661.9	659.5	650.8	642.2	634.8
62.5°	581.7	582.9	581.7	578.0	575.5	573.0	570.5	563.1	555.7	550.8	542.1
65°	502.6	501.4	497.7	495.2	489.0	489.0	484.1	480.4	471.8	464.3	455.7
67.5°	421.1	418.6	418.6	418.6	411.2	410.0	407.5	400.1	392.7	382.8	375.4
70°	347.0	349.5	345.8	342.1	338.4	337.1	333.4	326.0	317.4	307.5	301.3
72.5°	276.6	279.1	275.4	274.2	266.7	264.3	263.0	256.9	247.0	240.8	230.9
75°	212.4	213.6	211.2	208.7	203.8	202.5	196.4	191.4	185.2	175.4	166.7
77.5°	153.1	150.7	150.7	145.7	140.8	140.8	139.5	132.1	123.5	116.1	108.7
80°	97.6	96.3	92.6	90.2	86.4	85.2	84.0	77.8	71.6	66.7	61.7
82.5°	49.4	48.2	46.9	45.7	43.2	40.8	42.0	37.0	34.6	29.6	25.9
85°	14.8	16.1	16.1	14.8	13.6	13.6	13.6	12.3	9.9	8.6	7.4
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



TEST NUMBER: P859609

CATALOG NUMBER: LX4C75D010 EX4C759727 4LBLWW*

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3288.7	3288.7	3288.7	3288.7	3288.7	3288.7	3288.7	3288.7	3288.7	3288.7	3288.7
2.5°	3277.6	3278.8	3280.0	3281.3	3281.3	3282.5	3283.7	3285.0	3286.2	3286.2	3287.4
5°	3275.1	3277.6	3277.6	3278.8	3278.8	3278.8	3280.0	3280.0	3280.0	3280.0	3281.3
7.5°	3276.3	3276.3	3276.3	3275.1	3275.1	3273.9	3273.9	3273.9	3271.4	3271.4	3271.4
10°	3270.2	3268.9	3267.7	3265.2	3264.0	3262.7	3260.3	3257.8	3255.3	3254.1	3251.6
12.5°	3257.8	3252.9	3247.9	3243.0	3240.5	3239.3	3234.3	3230.6	3226.9	3223.2	3220.8
15°	3233.1	3225.7	3217.1	3207.2	3204.7	3202.2	3193.6	3186.2	3181.2	3177.5	3171.4
17.5°	3183.7	3168.9	3159.0	3144.2	3138.0	3135.5	3122.0	3114.5	3105.9	3103.4	3098.5
20°	3096.0	3082.4	3063.9	3050.3	3042.9	3035.5	3024.4	3014.5	3004.6	3004.6	2998.5
22.5°	2986.1	2968.8	2945.4	2928.1	2926.8	2912.0	2902.1	2891.0	2887.3	2879.9	2879.9
25°	2847.8	2833.0	2807.0	2792.2	2784.8	2781.1	2765.1	2750.2	2742.8	2736.7	2741.6
27.5°	2694.7	2672.4	2652.7	2634.2	2628.0	2620.6	2605.7	2599.6	2586.0	2584.8	2583.5
30°	2519.3	2497.1	2477.3	2468.7	2456.3	2450.1	2439.0	2431.6	2426.7	2426.7	2424.2
32.5°	2335.3	2315.5	2305.7	2287.1	2281.0	2272.3	2264.9	2257.5	2260.0	2257.5	2258.7
35°	2136.5	2131.5	2113.0	2101.9	2101.9	2100.7	2088.3	2083.4	2080.9	2082.1	2088.3
37.5°	1947.5	1932.7	1920.4	1912.9	1919.1	1911.7	1910.5	1910.5	1917.9	1912.9	1922.8
40°	1746.2	1745.0	1740.0	1742.5	1743.8	1735.1	1737.6	1738.8	1743.8	1753.6	1754.9
42.5°	1570.9	1569.6	1569.6	1569.6	1567.2	1562.2	1567.2	1575.8	1574.6	1582.0	1588.1
45°	1401.7	1399.2	1404.1	1400.4	1407.8	1410.3	1406.6	1409.1	1416.5	1421.4	1431.3
47.5°	1247.3	1247.3	1248.5	1251.0	1243.6	1249.8	1252.2	1257.2	1260.9	1263.4	1268.3
50°	1104.0	1104.0	1101.6	1101.6	1101.6	1105.3	1100.3	1106.5	1107.8	1117.6	1123.8
52.5°	971.9	965.7	969.4	967.0	962.0	959.6	962.0	963.3	970.7	973.1	980.6
55°	845.9	845.9	836.1	833.6	837.3	836.1	834.8	834.8	838.5	842.2	848.4
57.5°	734.8	727.4	720.0	718.7	715.0	716.3	716.3	715.0	712.6	713.8	715.0
60°	629.8	624.9	613.8	613.8	612.5	611.3	605.1	603.9	597.7	599.0	594.0
62.5°	533.5	531.0	516.2	511.3	511.3	507.6	501.4	500.2	491.5	491.5	486.6
65°	447.1	439.6	431.0	422.4	422.4	417.4	413.7	402.6	396.4	392.7	385.3
67.5°	368.0	356.9	348.3	340.8	335.9	334.7	326.0	318.6	308.7	302.6	291.4
70°	291.4	282.8	274.2	266.7	261.8	256.9	248.2	237.1	229.7	218.6	211.2
72.5°	219.8	212.4	205.0	195.1	188.9	185.2	176.6	166.7	154.4	147.0	137.1
75°	158.1	149.4	139.5	130.9	127.2	123.5	113.6	106.2	97.6	88.9	79.0
77.5°	102.5	92.6	85.2	75.3	74.1	71.6	61.7	54.3	48.2	43.2	37.0
80°	54.3	49.4	43.2	37.0	34.6	30.9	25.9	22.2	18.5	14.8	12.3
82.5°	23.5	19.8	16.1	13.6	12.3	11.1	8.6	7.4	6.2	6.2	4.9
85°	6.2	4.9	4.9	3.7	2.5	2.5	2.5	2.5	2.5	2.5	2.5
87.5°	0.0	0.0	0.0	0.0	1.2	1.2	1.2	0.0	1.2	1.2	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: P859609

CATALOG NUMBER: LX4C75D010 EX4C759727 4LBLWW*

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3288.7	3288.7	3288.7	3288.7	3288.7	3288.7	3288.7	3288.7	3288.7	3288.7	3288.7
2.5°	3288.7	3289.9	3291.1	3291.1	3292.4	3293.6	3293.6	3294.9	3296.1	3297.3	3297.3
5°	3282.5	3282.5	3282.5	3283.7	3283.7	3283.7	3283.7	3286.2	3286.2	3287.4	3288.7
7.5°	3270.2	3270.2	3270.2	3270.2	3268.9	3270.2	3268.9	3268.9	3271.4	3272.6	3273.9
10°	3250.4	3249.2	3249.2	3247.9	3247.9	3247.9	3249.2	3250.4	3251.6	3252.9	3256.6
12.5°	3219.5	3218.3	3218.3	3217.1	3217.1	3218.3	3219.5	3222.0	3226.9	3229.4	3234.3
15°	3170.1	3168.9	3170.1	3171.4	3173.8	3177.5	3181.2	3184.9	3192.4	3198.5	3204.7
17.5°	3098.5	3099.7	3101.0	3103.4	3107.1	3112.1	3122.0	3131.8	3140.5	3150.4	3160.2
20°	2999.7	3004.6	3005.9	3014.5	3017.0	3028.1	3039.2	3054.0	3067.6	3080.0	3093.6
22.5°	2881.1	2884.8	2889.8	2899.7	2905.8	2920.7	2934.2	2951.5	2966.4	2982.4	3002.2
25°	2746.5	2747.8	2762.6	2762.6	2777.4	2789.8	2805.8	2824.3	2846.6	2867.6	2881.1
27.5°	2593.4	2599.6	2610.7	2615.6	2626.7	2646.5	2660.1	2682.3	2704.5	2723.1	2737.9
30°	2432.9	2437.8	2456.3	2458.8	2467.4	2484.7	2503.2	2524.2	2541.5	2562.5	2576.1
32.5°	2263.7	2277.3	2288.4	2297.0	2299.5	2325.4	2335.3	2350.1	2369.9	2390.9	2404.5
35°	2099.4	2105.6	2121.6	2126.6	2134.0	2148.8	2168.6	2180.9	2190.8	2204.4	2220.4
37.5°	1925.3	1943.8	1947.5	1962.3	1964.8	1978.4	1988.3	2003.1	2015.4	2027.8	2030.3
40°	1763.5	1769.7	1783.3	1787.0	1789.4	1808.0	1820.3	1824.0	1830.2	1841.3	1856.1
42.5°	1599.3	1605.4	1620.3	1616.6	1627.7	1636.3	1642.5	1657.3	1663.5	1667.2	1667.2
45°	1437.5	1440.0	1449.8	1454.8	1460.9	1465.9	1477.0	1484.4	1486.9	1498.0	1501.7
47.5°	1283.1	1285.6	1293.0	1301.6	1299.2	1305.3	1317.7	1321.4	1322.6	1330.0	1333.7
50°	1131.2	1137.4	1147.3	1144.8	1152.2	1155.9	1167.0	1169.5	1169.5	1170.7	1172.0
52.5°	989.2	994.1	996.6	999.1	1002.8	1009.0	1013.9	1011.4	1016.4	1021.3	1017.6
55°	848.4	852.1	858.3	860.8	860.8	862.0	859.5	870.6	865.7	864.5	865.7
57.5°	720.0	715.0	713.8	720.0	722.4	721.2	717.5	722.4	722.4	720.0	716.3
60°	595.2	591.5	590.3	591.5	586.6	582.9	585.4	582.9	576.7	574.3	575.5
62.5°	481.6	477.9	468.0	468.0	465.6	464.3	454.5	455.7	450.8	443.3	445.8
65°	376.7	366.8	361.8	360.6	352.0	344.6	342.1	333.4	326.0	324.8	326.0
67.5°	282.8	271.7	263.0	259.3	254.4	248.2	239.6	232.2	234.6	233.4	238.3
70°	196.4	188.9	180.3	174.1	176.6	169.2	164.2	164.2	165.5	166.7	169.2
72.5°	130.9	121.0	117.3	113.6	111.1	106.2	108.7	108.7	107.4	108.7	106.2
75°	74.1	69.2	65.5	64.2	61.7	61.7	61.7	61.7	60.5	59.3	59.3
77.5°	33.3	30.9	29.6	28.4	28.4	28.4	27.2	25.9	25.9	25.9	24.7
80°	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
82.5°	4.9	4.9	6.2	6.2	6.2	4.9	6.2	6.2	4.9	4.9	6.2
85°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
87.5°	1.2	1.2	1.2	0.0	1.2	1.2	1.2	1.2	0.0	1.2	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: P859609

CATALOG NUMBER: LX4C75D010 EX4C759727 4LBLWW*

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3288.7	3288.7	3288.7	3288.7	3288.7	3288.7	3288.7	3288.7
2.5°	3298.6	3299.8	3299.8	3299.8	3301.0	3301.0	3301.0	3301.0
5°	3289.9	3291.1	3291.1	3291.1	3292.4	3292.4	3292.4	3292.4
7.5°	3275.1	3276.3	3276.3	3277.6	3277.6	3278.8	3278.8	3280.0
10°	3257.8	3260.3	3261.5	3262.7	3264.0	3265.2	3265.2	3266.4
12.5°	3239.3	3241.7	3243.0	3245.5	3247.9	3249.2	3250.4	3251.6
15°	3212.1	3217.1	3219.5	3220.8	3225.7	3228.2	3229.4	3230.6
17.5°	3168.9	3178.8	3182.5	3184.9	3189.9	3194.8	3198.5	3199.8
20°	3107.1	3118.3	3123.2	3129.4	3136.8	3143.0	3145.4	3147.9
22.5°	3020.7	3033.0	3040.5	3047.9	3054.0	3060.2	3070.1	3066.4
25°	2897.2	2918.2	2926.8	2930.5	2944.1	2951.5	2956.5	2951.5
27.5°	2758.9	2771.2	2778.6	2787.3	2797.2	2804.6	2807.0	2814.5
30°	2592.2	2613.2	2611.9	2620.6	2632.9	2640.3	2642.8	2649.0
32.5°	2419.3	2429.2	2436.6	2435.3	2440.3	2453.9	2448.9	2460.0
35°	2235.3	2236.5	2248.8	2247.6	2257.5	2257.5	2257.5	2264.9
37.5°	2038.9	2053.7	2047.6	2062.4	2057.4	2061.1	2061.1	2063.6
40°	1859.8	1864.8	1864.8	1869.7	1873.4	1869.7	1872.2	1878.4
42.5°	1674.6	1679.5	1680.8	1678.3	1682.0	1693.1	1684.5	1691.9
45°	1501.7	1505.4	1510.3	1506.6	1512.8	1509.1	1512.8	1510.3
47.5°	1338.7	1337.5	1336.2	1346.1	1337.5	1338.7	1343.6	1335.0
50°	1172.0	1179.4	1174.4	1178.1	1180.6	1180.6	1176.9	1176.9
52.5°	1023.8	1022.5	1018.8	1022.5	1020.1	1021.3	1023.8	1021.3
55°	870.6	875.6	873.1	871.9	873.1	873.1	880.5	870.6
57.5°	720.0	717.5	721.2	729.9	721.2	727.4	731.1	732.3
60°	576.7	576.7	584.1	580.4	587.8	594.0	599.0	596.5
62.5°	439.6	445.8	448.3	449.5	456.9	461.9	461.9	460.6
65°	326.0	334.7	334.7	339.6	342.1	342.1	344.6	349.5
67.5°	240.8	240.8	242.1	244.5	243.3	243.3	245.8	247.0
70°	168.0	165.5	169.2	168.0	168.0	166.7	168.0	168.0
72.5°	106.2	106.2	107.4	106.2	103.7	105.0	105.0	107.4
75°	56.8	59.3	56.8	56.8	58.0	55.6	56.8	58.0
77.5°	23.5	23.5	23.5	23.5	23.5	22.2	22.2	22.2
80°	11.1	11.1	11.1	11.1	11.1	11.1	9.9	9.9
82.5°	4.9	6.2	4.9	6.2	4.9	4.9	4.9	4.9
85°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
87.5°	0.0	1.2	0.0	1.2	0.0	0.0	0.0	1.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)