

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: P859554

Luminaire Tested: **LX4C75D010 EX4C759030 4LBLWW***

Issue Date: 2/9/2022

Test Information

Test Method: LM-79-08
Report Number: P859554
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 EX4C759030 4LBLWW*
Description: 4 INCH 7500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LRLWW TRIM WITH * FINISH
Light Source: -
Ballast/Driver: -

Summary

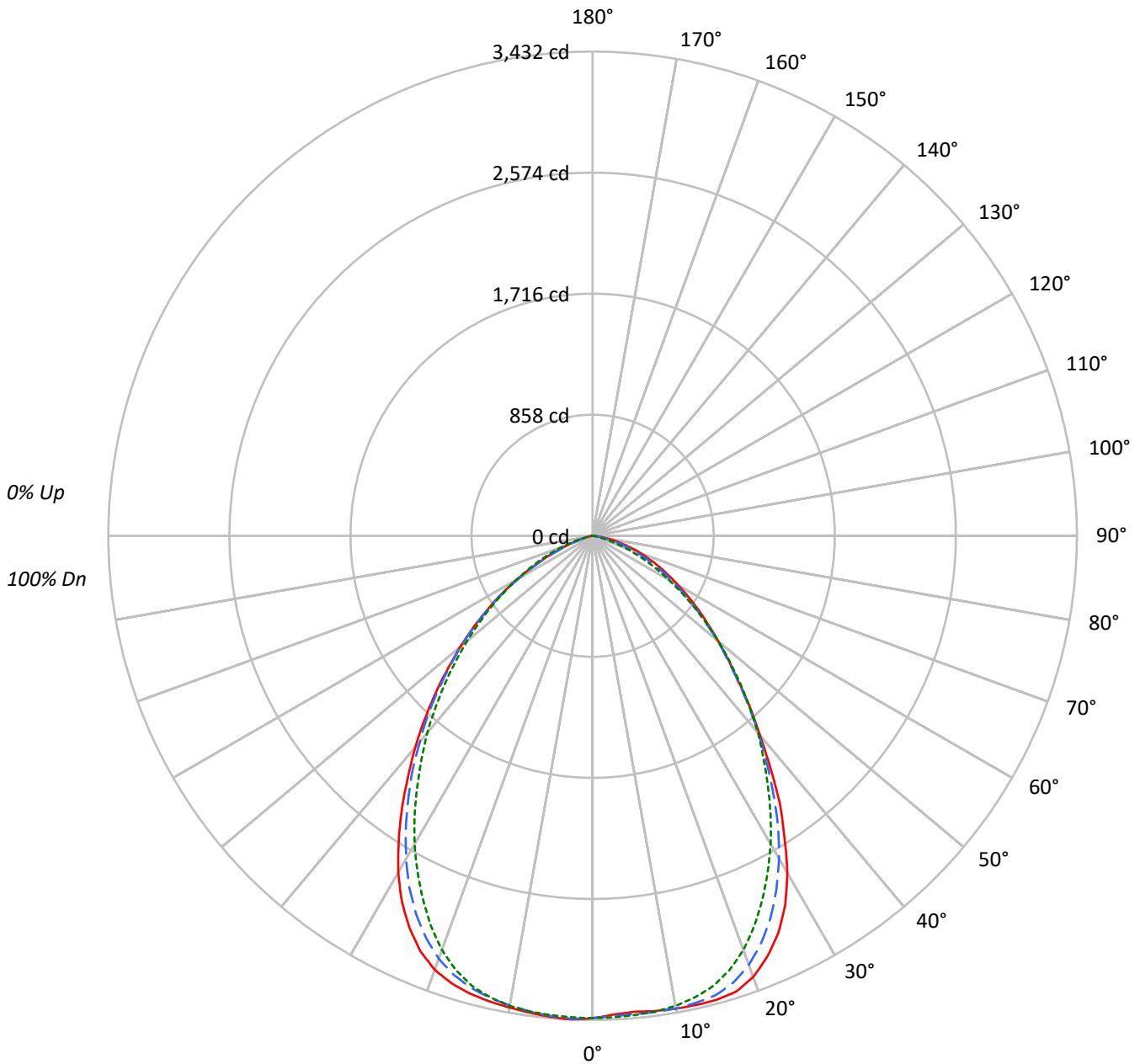
Lumens per Lamp: N/A
Luminaire Lumens: 6555.0 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P859554

CATALOG NUMBER: LX4C75D010 EX4C759030 4LBLWW*

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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																			
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89																			
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78																			
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68																			
4	88	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60																			
5	82	71	63	57	80	70	63	57	68	61	57	66	60	56	64	59	55	54																			
6	76	65	57	51	75	64	56	51	62	56	51	61	55	50	59	54	50	48																			
7	71	59	51	46	70	59	51	46	57	50	46	56	50	45	54	49	45	43																			
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	50	45	41	39																			
9	63	51	43	38	61	50	43	38	49	42	38	48	42	38	47	41	37	36																			
10	59	47	40	35	58	46	39	35	45	39	35	45	39	35	44	38	34	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	420048	420048	420048
5°	417694	420543	422121
10°	424607	422037	423647
15°	432907	420163	427184
20°	435083	408399	427866
25°	421694	385678	415960
30°	391403	357896	390680
35°	346610	324654	353149
40°	295473	292394	313178
45°	253853	256755	272808
50°	221592	222069	233862
55°	195811	187543	193883
60°	171626	153002	152363
65°	151918	118691	105610
70°	129599	81646	62716
75°	104807	43859	28623
80°	71739	10895	7287
85°	21708	3665	3665



TEST NUMBER: P859554

CATALOG NUMBER: LX4C75D010 EX4C759030 4LBLWW*

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.9	5.0
10°-20°	940.7	14.4
20°-30°	1359.2	20.7
30°-40°	1405.1	21.4
40°-50°	1161.0	17.7
50°-60°	801.3	12.2
60°-70°	419.5	6.4
70°-80°	132.1	2.0
80°-90°	11.2	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°	2624.8	40.0
0°-40°	4030.0	61.5
0°-60°	5992.3	91.4
0°-90°	6555.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6555.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3419	3419	3419	3419	3419	
5°	3387	3404	3410	3416	3423	324
15°	3404	3372	3304	3319	3359	960
25°	3111	2985	2845	2959	3069	1420
35°	2311	2234	2165	2278	2355	1434
45°	1461	1455	1478	1546	1570	1139
55°	914	886	876	900	905	821
65°	523	474	408	339	363	518
75°	221	173	92	63	60	237
85°	15	8	3	3	3	32
90°	0	0	0	0	0	



TEST NUMBER: P859554

CATALOG NUMBER: LX4C75D010 EX4C759030 4LBLWW*

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3419.1	3419.1	3419.1	3419.1	3419.1	3419.1	3419.1	3419.1	3419.1	3419.1	3419.1
2.5°	3397.3	3398.5	3398.5	3401.1	3401.1	3401.1	3402.4	3402.4	3403.7	3405.0	3406.2
5°	3387.0	3387.0	3389.5	3390.8	3393.4	3394.7	3397.3	3398.5	3401.1	3402.4	3403.7
7.5°	3397.3	3397.3	3398.5	3399.8	3399.8	3401.1	3401.1	3402.4	3403.7	3405.0	3405.0
10°	3403.7	3403.7	3403.7	3403.7	3405.0	3405.0	3405.0	3403.7	3403.7	3403.7	3402.4
12.5°	3406.2	3406.2	3405.0	3403.7	3405.0	3403.7	3403.7	3399.8	3397.3	3394.7	3390.8
15°	3403.7	3403.7	3402.4	3401.1	3399.8	3397.3	3396.0	3389.5	3384.4	3376.7	3371.6
17.5°	3387.0	3384.4	3381.8	3379.3	3374.1	3370.3	3367.7	3356.2	3347.2	3334.3	3320.2
20°	3327.9	3325.4	3321.5	3315.1	3308.7	3303.5	3295.8	3279.1	3270.1	3250.9	3236.8
22.5°	3231.6	3229.1	3230.3	3218.8	3205.9	3198.2	3193.1	3179.0	3163.6	3139.2	3123.8
25°	3110.9	3103.2	3103.2	3085.3	3078.8	3073.7	3067.3	3050.6	3027.5	3005.7	2985.1
27.5°	2954.3	2944.0	2938.9	2936.3	2920.9	2909.4	2900.4	2887.5	2868.3	2849.0	2820.8
30°	2759.1	2757.9	2751.4	2739.9	2728.3	2723.2	2712.9	2691.1	2673.1	2659.0	2641.0
32.5°	2529.3	2528.0	2528.0	2528.0	2520.3	2519.1	2503.6	2492.1	2478.0	2456.1	2444.6
35°	2311.1	2309.8	2311.1	2291.8	2286.7	2282.8	2281.5	2273.8	2254.6	2244.3	2234.0
37.5°	2064.5	2068.4	2065.8	2060.7	2067.1	2055.6	2064.5	2047.9	2040.1	2037.6	2026.0
40°	1842.4	1852.7	1842.4	1843.7	1850.1	1838.6	1838.6	1836.0	1830.9	1828.3	1825.7
42.5°	1652.4	1639.6	1647.3	1640.8	1647.3	1643.4	1637.0	1640.8	1642.1	1637.0	1635.7
45°	1461.1	1463.7	1466.2	1462.4	1462.4	1458.5	1468.8	1462.4	1462.4	1463.7	1454.7
47.5°	1305.7	1301.9	1304.5	1301.9	1303.2	1300.6	1303.2	1304.5	1301.9	1301.9	1294.2
50°	1159.4	1156.8	1165.8	1158.1	1158.1	1156.8	1158.1	1155.5	1151.7	1151.7	1154.2
52.5°	1032.3	1027.1	1025.9	1032.3	1023.3	1023.3	1024.6	1022.0	1016.9	1014.3	1007.9
55°	914.2	912.9	914.2	909.0	906.4	906.4	900.0	897.5	896.2	889.8	885.9
57.5°	803.7	799.9	801.2	799.9	794.7	793.5	788.3	788.3	783.2	778.1	771.6
60°	698.5	698.5	702.3	697.2	693.3	690.7	688.2	685.6	676.6	667.6	659.9
62.5°	604.7	606.0	604.7	600.9	598.3	595.7	593.2	585.5	577.8	572.6	563.6
65°	522.6	521.3	517.4	514.9	508.4	508.4	503.3	499.4	490.5	482.8	473.8
67.5°	437.8	435.2	435.2	435.2	427.5	426.3	423.7	416.0	408.3	398.0	390.3
70°	360.8	363.3	359.5	355.6	351.8	350.5	346.7	339.0	330.0	319.7	313.3
72.5°	287.6	290.2	286.3	285.0	277.3	274.8	273.5	267.1	256.8	250.4	240.1
75°	220.8	222.1	219.6	217.0	211.8	210.6	204.1	199.0	192.6	182.3	173.3
77.5°	159.2	156.6	156.6	151.5	146.4	146.4	145.1	137.4	128.4	120.7	113.0
80°	101.4	100.1	96.3	93.7	89.9	88.6	87.3	80.9	74.5	69.3	64.2
82.5°	51.4	50.1	48.8	47.5	44.9	42.4	43.7	38.5	35.9	30.8	27.0
85°	15.4	16.7	16.7	15.4	14.1	14.1	14.1	12.8	10.3	9.0	7.7
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: P859554

CATALOG NUMBER: LX4C75D010 EX4C759030 4LBLWW*

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3419.1	3419.1	3419.1	3419.1	3419.1	3419.1	3419.1	3419.1	3419.1	3419.1	3419.1
2.5°	3407.5	3408.8	3410.1	3411.4	3411.4	3412.7	3413.9	3415.2	3416.5	3416.5	3417.8
5°	3405.0	3407.5	3407.5	3408.8	3408.8	3408.8	3410.1	3410.1	3410.1	3410.1	3411.4
7.5°	3406.2	3406.2	3406.2	3405.0	3405.0	3403.7	3403.7	3403.7	3401.1	3401.1	3401.1
10°	3399.8	3398.5	3397.3	3394.7	3393.4	3392.1	3389.5	3387.0	3384.4	3383.1	3380.6
12.5°	3387.0	3381.8	3376.7	3371.6	3369.0	3367.7	3362.6	3358.7	3354.9	3351.0	3348.5
15°	3361.3	3353.6	3344.6	3334.3	3331.8	3329.2	3320.2	3312.5	3307.4	3303.5	3297.1
17.5°	3309.9	3294.5	3284.3	3268.9	3262.4	3259.9	3245.7	3238.0	3229.1	3226.5	3221.4
20°	3218.8	3204.7	3185.4	3171.3	3163.6	3155.9	3144.3	3134.0	3123.8	3123.8	3117.4
22.5°	3104.5	3086.5	3062.1	3044.2	3042.9	3027.5	3017.2	3005.7	3001.8	2994.1	2994.1
25°	2960.7	2945.3	2918.3	2902.9	2895.2	2891.4	2874.7	2859.3	2851.6	2845.2	2850.3
27.5°	2801.5	2778.4	2757.9	2738.6	2732.2	2724.5	2709.1	2702.7	2688.5	2687.2	2686.0
30°	2619.2	2596.1	2575.5	2566.6	2553.7	2547.3	2535.7	2528.0	2522.9	2522.9	2520.3
32.5°	2427.9	2407.3	2397.1	2377.8	2371.4	2362.4	2354.7	2347.0	2349.6	2347.0	2348.3
35°	2221.2	2216.0	2196.8	2185.2	2185.2	2183.9	2171.1	2166.0	2163.4	2164.7	2171.1
37.5°	2024.7	2009.3	1996.5	1988.8	1995.2	1987.5	1986.2	1986.2	1993.9	1988.8	1999.1
40°	1815.5	1814.2	1809.0	1811.6	1812.9	1803.9	1806.5	1807.8	1812.9	1823.2	1824.4
42.5°	1633.1	1631.9	1631.9	1631.9	1629.3	1624.2	1629.3	1638.3	1637.0	1644.7	1651.1
45°	1457.2	1454.7	1459.8	1456.0	1463.7	1466.2	1462.4	1465.0	1472.7	1477.8	1488.1
47.5°	1296.8	1296.8	1298.0	1300.6	1292.9	1299.3	1301.9	1307.0	1310.9	1313.4	1318.6
50°	1147.8	1147.8	1145.3	1145.3	1145.3	1149.1	1144.0	1150.4	1151.7	1161.9	1168.4
52.5°	1010.4	1004.0	1007.9	1005.3	1000.2	997.6	1000.2	1001.5	1009.2	1011.7	1019.4
55°	879.5	879.5	869.2	866.6	870.5	869.2	867.9	867.9	871.8	875.6	882.1
57.5°	763.9	756.2	748.5	747.2	743.4	744.7	744.7	743.4	740.8	742.1	743.4
60°	654.8	649.7	638.1	638.1	636.8	635.5	629.1	627.8	621.4	622.7	617.6
62.5°	554.7	552.1	536.7	531.5	531.5	527.7	521.3	520.0	511.0	511.0	505.9
65°	464.8	457.1	448.1	439.1	439.1	434.0	430.1	418.6	412.1	408.3	400.6
67.5°	382.6	371.1	362.1	354.4	349.2	347.9	339.0	331.3	321.0	314.6	303.0
70°	303.0	294.0	285.0	277.3	272.2	267.1	258.1	246.5	238.8	227.3	219.6
72.5°	228.5	220.8	213.1	202.9	196.4	192.6	183.6	173.3	160.5	152.8	142.5
75°	164.3	155.4	145.1	136.1	132.2	128.4	118.1	110.4	101.4	92.4	82.2
77.5°	106.6	96.3	88.6	78.3	77.0	74.5	64.2	56.5	50.1	44.9	38.5
80°	56.5	51.4	44.9	38.5	35.9	32.1	27.0	23.1	19.3	15.4	12.8
82.5°	24.4	20.5	16.7	14.1	12.8	11.6	9.0	7.7	6.4	6.4	5.1
85°	6.4	5.1	5.1	3.9	2.6	2.6	2.6	2.6	2.6	2.6	2.6
87.5°	0.0	0.0	0.0	0.0	1.3	1.3	1.3	0.0	1.3	1.3	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: P859554

CATALOG NUMBER: LX4C75D010 EX4C759030 4LBLWW*

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3419.1	3419.1	3419.1	3419.1	3419.1	3419.1	3419.1	3419.1	3419.1	3419.1	3419.1
2.5°	3419.1	3420.4	3421.6	3421.6	3422.9	3424.2	3424.2	3425.5	3426.8	3428.1	3428.1
5°	3412.7	3412.7	3412.7	3413.9	3413.9	3413.9	3413.9	3416.5	3416.5	3417.8	3419.1
7.5°	3399.8	3399.8	3399.8	3399.8	3398.5	3399.8	3398.5	3398.5	3401.1	3402.4	3403.7
10°	3379.3	3378.0	3378.0	3376.7	3376.7	3376.7	3378.0	3379.3	3380.6	3381.8	3385.7
12.5°	3347.2	3345.9	3345.9	3344.6	3344.6	3345.9	3347.2	3349.7	3354.9	3357.4	3362.6
15°	3295.8	3294.5	3295.8	3297.1	3299.7	3303.5	3307.4	3311.2	3318.9	3325.4	3331.8
17.5°	3221.4	3222.6	3223.9	3226.5	3230.3	3235.5	3245.7	3256.0	3265.0	3275.3	3285.6
20°	3118.6	3123.8	3125.1	3134.0	3136.6	3148.2	3159.7	3175.1	3189.3	3202.1	3216.2
22.5°	2995.4	2999.2	3004.4	3014.6	3021.1	3036.5	3050.6	3068.6	3084.0	3100.7	3121.2
25°	2855.4	2856.7	2872.1	2872.1	2887.5	2900.4	2917.1	2936.3	2959.4	2981.3	2995.4
27.5°	2696.2	2702.7	2714.2	2719.3	2730.9	2751.4	2765.6	2788.7	2811.8	2831.0	2846.4
30°	2529.3	2534.5	2553.7	2556.3	2565.3	2583.2	2602.5	2624.3	2642.3	2664.1	2678.3
32.5°	2353.4	2367.5	2379.1	2388.1	2390.7	2417.6	2427.9	2443.3	2463.8	2485.7	2499.8
35°	2182.7	2189.1	2205.8	2210.9	2218.6	2234.0	2254.6	2267.4	2277.7	2291.8	2308.5
37.5°	2001.6	2020.9	2024.7	2040.1	2042.7	2056.8	2067.1	2082.5	2095.4	2108.2	2110.8
40°	1833.4	1839.9	1854.0	1857.8	1860.4	1879.7	1892.5	1896.3	1902.8	1914.3	1929.7
42.5°	1662.7	1669.1	1684.5	1680.7	1692.2	1701.2	1707.6	1723.0	1729.4	1733.3	1733.3
45°	1494.5	1497.1	1507.3	1512.5	1518.9	1524.0	1535.6	1543.3	1545.8	1557.4	1561.2
47.5°	1334.0	1336.6	1344.3	1353.3	1350.7	1357.1	1369.9	1373.8	1375.1	1382.8	1386.6
50°	1176.1	1182.5	1192.8	1190.2	1197.9	1201.7	1213.3	1215.9	1215.9	1217.2	1218.4
52.5°	1028.4	1033.6	1036.1	1038.7	1042.5	1049.0	1054.1	1051.5	1056.7	1061.8	1057.9
55°	882.1	885.9	892.3	894.9	894.9	896.2	893.6	905.2	900.0	898.7	900.0
57.5°	748.5	743.4	742.1	748.5	751.1	749.8	746.0	751.1	751.1	748.5	744.7
60°	618.8	615.0	613.7	615.0	609.9	606.0	608.6	606.0	599.6	597.0	598.3
62.5°	500.7	496.9	486.6	486.6	484.0	482.8	472.5	473.8	468.6	460.9	463.5
65°	391.6	381.3	376.2	374.9	365.9	358.2	355.6	346.7	339.0	337.7	339.0
67.5°	294.0	282.5	273.5	269.6	264.5	258.1	249.1	241.4	243.9	242.7	247.8
70°	204.1	196.4	187.5	181.0	183.6	175.9	170.8	170.8	172.0	173.3	175.9
72.5°	136.1	125.8	122.0	118.1	115.6	110.4	113.0	113.0	111.7	113.0	110.4
75°	77.0	71.9	68.0	66.8	64.2	64.2	64.2	64.2	62.9	61.6	61.6
77.5°	34.7	32.1	30.8	29.5	29.5	29.5	28.2	27.0	27.0	27.0	25.7
80°	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6
82.5°	5.1	5.1	6.4	6.4	6.4	5.1	6.4	6.4	5.1	5.1	6.4
85°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
87.5°	1.3	1.3	1.3	0.0	1.3	1.3	1.3	1.3	0.0	1.3	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: P859554

CATALOG NUMBER: LX4C75D010 EX4C759030 4LBLWW*

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3419.1	3419.1	3419.1	3419.1	3419.1	3419.1	3419.1	3419.1
2.5°	3429.3	3430.6	3430.6	3430.6	3431.9	3431.9	3431.9	3431.9
5°	3420.4	3421.6	3421.6	3421.6	3422.9	3422.9	3422.9	3422.9
7.5°	3405.0	3406.2	3406.2	3407.5	3407.5	3408.8	3408.8	3410.1
10°	3387.0	3389.5	3390.8	3392.1	3393.4	3394.7	3394.7	3396.0
12.5°	3367.7	3370.3	3371.6	3374.1	3376.7	3378.0	3379.3	3380.6
15°	3339.5	3344.6	3347.2	3348.5	3353.6	3356.2	3357.4	3358.7
17.5°	3294.5	3304.8	3308.7	3311.2	3316.4	3321.5	3325.4	3326.6
20°	3230.3	3241.9	3247.0	3253.5	3261.2	3267.6	3270.1	3272.7
22.5°	3140.5	3153.3	3161.0	3168.7	3175.1	3181.6	3191.8	3188.0
25°	3012.1	3033.9	3042.9	3046.7	3060.9	3068.6	3073.7	3068.6
27.5°	2868.3	2881.1	2888.8	2897.8	2908.1	2915.8	2918.3	2926.1
30°	2694.9	2716.8	2715.5	2724.5	2737.3	2745.0	2747.6	2754.0
32.5°	2515.2	2525.5	2533.2	2531.9	2537.0	2551.1	2546.0	2557.6
35°	2323.9	2325.2	2338.0	2336.7	2347.0	2347.0	2347.0	2354.7
37.5°	2119.8	2135.2	2128.7	2144.1	2139.0	2142.9	2142.9	2145.4
40°	1933.6	1938.7	1938.7	1943.9	1947.7	1943.9	1946.4	1952.8
42.5°	1741.0	1746.1	1747.4	1744.8	1748.7	1760.3	1751.3	1759.0
45°	1561.2	1565.1	1570.2	1566.4	1572.8	1568.9	1572.8	1570.2
47.5°	1391.8	1390.5	1389.2	1399.5	1390.5	1391.8	1396.9	1387.9
50°	1218.4	1226.1	1221.0	1224.9	1227.4	1227.4	1223.6	1223.6
52.5°	1064.4	1063.1	1059.2	1063.1	1060.5	1061.8	1064.4	1061.8
55°	905.2	910.3	907.7	906.4	907.7	907.7	915.4	905.2
57.5°	748.5	746.0	749.8	758.8	749.8	756.2	760.1	761.4
60°	599.6	599.6	607.3	603.4	611.1	617.6	622.7	620.1
62.5°	457.1	463.5	466.1	467.3	475.1	480.2	480.2	478.9
65°	339.0	347.9	347.9	353.1	355.6	355.6	358.2	363.3
67.5°	250.4	250.4	251.6	254.2	252.9	252.9	255.5	256.8
70°	174.6	172.0	175.9	174.6	174.6	173.3	174.6	174.6
72.5°	110.4	110.4	111.7	110.4	107.8	109.1	109.1	111.7
75°	59.1	61.6	59.1	59.1	60.3	57.8	59.1	60.3
77.5°	24.4	24.4	24.4	24.4	24.4	23.1	23.1	23.1
80°	11.6	11.6	11.6	11.6	11.6	11.6	10.3	10.3
82.5°	5.1	6.4	5.1	6.4	5.1	5.1	5.1	5.1
85°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
87.5°	0.0	1.3	0.0	1.3	0.0	0.0	0.0	1.3
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)