

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: P859582

Luminaire Tested: **LX4C75D010 EX4C759040 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P859582
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 EX4C759040 4LBLWW*
Description: 4 INCH 7500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LRLWW TRIM WITH * FINISH
Light Source: -
Ballast/Driver: -

Summary

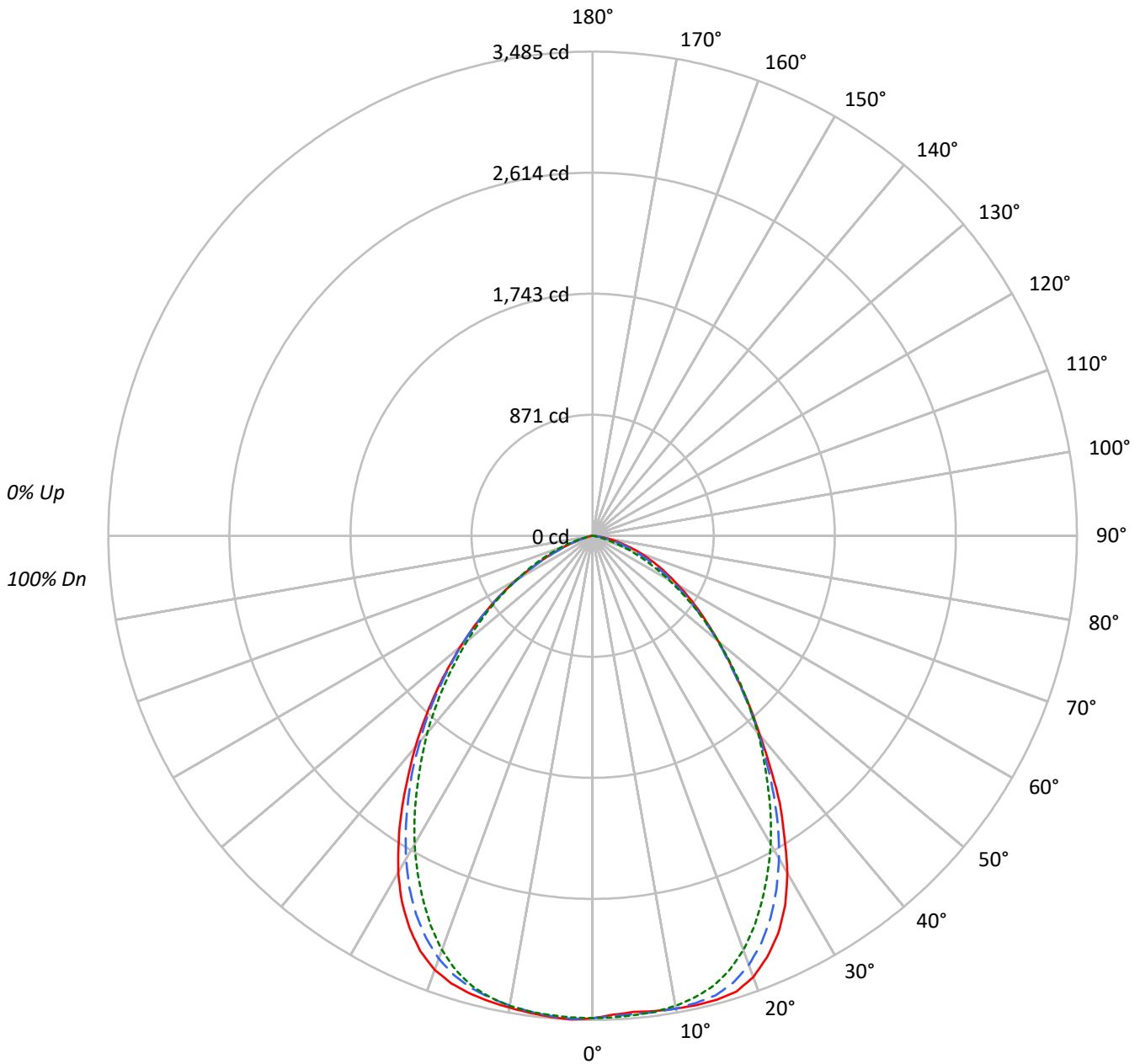
Lumens per Lamp: N/A
Luminaire Lumens: 6657.0 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

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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°	426584	426584	426584
5°	424193	427091	428695
10°	431206	428612	430233
15°	439636	426701	433836
20°	441855	414753	434521
25°	428255	391669	422426
30°	397503	363471	396765
35°	351995	329708	358639
40°	300075	296932	318053
45°	257797	260751	277065
50°	225032	225529	237493
55°	198853	190478	196882
60°	174280	155385	154746
65°	154272	120523	107267
70°	131611	82903	63686
75°	106468	44571	29097
80°	72871	11037	7358
85°	21990	3665	3665



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.0	5.0
10°-20°	955.3	14.4
20°-30°	1380.4	20.7
30°-40°	1427.0	21.4
40°-50°	1179.1	17.7
50°-60°	813.7	12.2
60°-70°	426.0	6.4
70°-80°	134.1	2.0
80°-90°	11.4	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°	2665.7	40.0
0°-40°	4092.7	61.5
0°-60°	6085.5	91.4
0°-90°	6657.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6657.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3472	3472	3472	3472	3472	
5°	3440	3457	3463	3470	3476	329
15°	3457	3424	3355	3371	3411	975
25°	3159	3032	2889	3006	3116	1442
35°	2347	2269	2198	2313	2391	1457
45°	1484	1477	1501	1570	1595	1157
55°	928	900	889	914	919	834
65°	531	481	415	344	369	526
75°	224	176	94	64	61	240
85°	16	8	3	3	3	32
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°	3472.3	3472.3	3472.3	3472.3	3472.3	3472.3	3472.3	3472.3	3472.3	3472.3	3472.3
2.5°	3450.1	3451.4	3451.4	3454.0	3454.0	3454.0	3455.3	3455.3	3456.6	3457.9	3459.2
5°	3439.7	3439.7	3442.3	3443.6	3446.2	3447.5	3450.1	3451.4	3454.0	3455.3	3456.6
7.5°	3450.1	3450.1	3451.4	3452.7	3452.7	3454.0	3454.0	3455.3	3456.6	3457.9	3457.9
10°	3456.6	3456.6	3456.6	3456.6	3457.9	3457.9	3457.9	3456.6	3456.6	3456.6	3455.3
12.5°	3459.2	3459.2	3457.9	3456.6	3457.9	3456.6	3456.6	3452.7	3450.1	3447.5	3443.6
15°	3456.6	3456.6	3455.3	3454.0	3452.7	3450.1	3448.8	3442.3	3437.1	3429.3	3424.0
17.5°	3439.7	3437.1	3434.5	3431.9	3426.6	3422.7	3420.1	3408.4	3399.3	3386.2	3371.9
20°	3379.7	3377.1	3373.2	3366.7	3360.1	3354.9	3347.1	3330.2	3321.0	3301.5	3287.1
22.5°	3281.9	3279.3	3280.6	3268.9	3255.8	3248.0	3242.8	3228.5	3212.8	3188.0	3172.4
25°	3159.3	3151.5	3151.5	3133.3	3126.7	3121.5	3115.0	3098.1	3074.6	3052.4	3031.6
27.5°	3000.3	2989.8	2984.6	2982.0	2966.4	2954.6	2945.5	2932.5	2912.9	2893.3	2864.7
30°	2802.1	2800.8	2794.3	2782.5	2770.8	2765.6	2755.1	2733.0	2714.7	2700.4	2682.1
32.5°	2568.7	2567.4	2567.4	2567.4	2559.6	2558.2	2542.6	2530.9	2516.5	2494.4	2482.6
35°	2347.0	2345.7	2347.0	2327.5	2322.2	2318.3	2317.0	2309.2	2289.6	2279.2	2268.8
37.5°	2096.7	2100.6	2098.0	2092.8	2099.3	2087.5	2096.7	2079.7	2071.9	2069.3	2057.6
40°	1871.1	1881.5	1871.1	1872.4	1878.9	1867.2	1867.2	1864.6	1859.4	1856.8	1854.1
42.5°	1678.1	1665.1	1672.9	1666.4	1672.9	1669.0	1662.5	1666.4	1667.7	1662.5	1661.2
45°	1483.8	1486.4	1489.1	1485.1	1485.1	1481.2	1491.7	1485.1	1485.1	1486.4	1477.3
47.5°	1326.1	1322.2	1324.8	1322.2	1323.5	1320.8	1323.5	1324.8	1322.2	1322.2	1314.3
50°	1177.4	1174.8	1183.9	1176.1	1176.1	1174.8	1176.1	1173.5	1169.6	1169.6	1172.2
52.5°	1048.3	1043.1	1041.8	1048.3	1039.2	1039.2	1040.5	1037.9	1032.7	1030.1	1023.6
55°	928.4	927.1	928.4	923.2	920.6	920.6	914.0	911.4	910.1	903.6	899.7
57.5°	816.2	812.3	813.6	812.3	807.1	805.8	800.6	800.6	795.4	790.2	783.6
60°	709.3	709.3	713.2	708.0	704.1	701.5	698.9	696.3	687.2	678.0	670.2
62.5°	614.1	615.4	614.1	610.2	607.6	605.0	602.4	594.6	586.8	581.5	572.4
65°	530.7	529.4	525.5	522.9	516.3	516.3	511.1	507.2	498.1	490.3	481.1
67.5°	444.6	442.0	442.0	442.0	434.2	432.9	430.3	422.5	414.6	404.2	396.4
70°	366.4	369.0	365.1	361.2	357.3	356.0	352.1	344.2	335.1	324.7	318.2
72.5°	292.1	294.7	290.8	289.5	281.6	279.0	277.7	271.2	260.8	254.3	243.8
75°	224.3	225.6	223.0	220.4	215.1	213.8	207.3	202.1	195.6	185.2	176.0
77.5°	161.7	159.1	159.1	153.9	148.6	148.6	147.3	139.5	130.4	122.6	114.7
80°	103.0	101.7	97.8	95.2	91.3	90.0	88.7	82.1	75.6	70.4	65.2
82.5°	52.2	50.9	49.5	48.2	45.6	43.0	44.3	39.1	36.5	31.3	27.4
85°	15.6	17.0	17.0	15.6	14.3	14.3	14.3	13.0	10.4	9.1	7.8
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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3472.3	3472.3	3472.3	3472.3	3472.3	3472.3	3472.3	3472.3	3472.3	3472.3	3472.3
2.5°	3460.5	3461.8	3463.2	3464.5	3464.5	3465.8	3467.1	3468.4	3469.7	3469.7	3471.0
5°	3457.9	3460.5	3460.5	3461.8	3461.8	3461.8	3463.2	3463.2	3463.2	3463.2	3464.5
7.5°	3459.2	3459.2	3459.2	3457.9	3457.9	3456.6	3456.6	3456.6	3454.0	3454.0	3454.0
10°	3452.7	3451.4	3450.1	3447.5	3446.2	3444.9	3442.3	3439.7	3437.1	3435.8	3433.2
12.5°	3439.7	3434.5	3429.3	3424.0	3421.4	3420.1	3414.9	3411.0	3407.1	3403.2	3400.6
15°	3413.6	3405.8	3396.7	3386.2	3383.6	3381.0	3371.9	3364.1	3358.8	3354.9	3348.4
17.5°	3361.4	3345.8	3335.4	3319.7	3313.2	3310.6	3296.3	3288.4	3279.3	3276.7	3271.5
20°	3268.9	3254.5	3235.0	3220.6	3212.8	3205.0	3193.2	3182.8	3172.4	3172.4	3165.9
22.5°	3152.8	3134.6	3109.8	3091.5	3090.2	3074.6	3064.2	3052.4	3048.5	3040.7	3040.7
25°	3006.8	2991.1	2963.8	2948.1	2940.3	2936.4	2919.4	2903.8	2896.0	2889.4	2894.7
27.5°	2845.1	2821.6	2800.8	2781.2	2774.7	2766.9	2751.2	2744.7	2730.4	2729.1	2727.8
30°	2660.0	2636.5	2615.6	2606.5	2593.5	2586.9	2575.2	2567.4	2562.2	2562.2	2559.6
32.5°	2465.7	2444.8	2434.4	2414.8	2408.3	2399.2	2391.3	2383.5	2386.1	2383.5	2384.8
35°	2255.7	2250.5	2231.0	2219.2	2219.2	2217.9	2204.9	2199.7	2197.1	2198.4	2204.9
37.5°	2056.2	2040.6	2027.6	2019.7	2026.3	2018.4	2017.1	2017.1	2025.0	2019.7	2030.2
40°	1843.7	1842.4	1837.2	1839.8	1841.1	1832.0	1834.6	1835.9	1841.1	1851.5	1852.8
42.5°	1658.6	1657.3	1657.3	1657.3	1654.6	1649.4	1654.6	1663.8	1662.5	1670.3	1676.8
45°	1479.9	1477.3	1482.5	1478.6	1486.4	1489.1	1485.1	1487.7	1495.6	1500.8	1511.2
47.5°	1316.9	1316.9	1318.2	1320.8	1313.0	1319.5	1322.2	1327.4	1331.3	1333.9	1339.1
50°	1165.7	1165.7	1163.1	1163.1	1163.1	1167.0	1161.8	1168.3	1169.6	1180.0	1186.5
52.5°	1026.2	1019.6	1023.6	1021.0	1015.7	1013.1	1015.7	1017.0	1024.9	1027.5	1035.3
55°	893.2	893.2	882.7	880.1	884.0	882.7	881.4	881.4	885.3	889.3	895.8
57.5°	775.8	768.0	760.2	758.9	755.0	756.3	756.3	755.0	752.3	753.7	755.0
60°	665.0	659.8	648.0	648.0	646.7	645.4	638.9	637.6	631.1	632.4	627.2
62.5°	563.3	560.7	545.0	539.8	539.8	535.9	529.4	528.1	519.0	519.0	513.7
65°	472.0	464.2	455.1	445.9	445.9	440.7	436.8	425.1	418.6	414.6	406.8
67.5°	388.6	376.8	367.7	359.9	354.7	353.4	344.2	336.4	326.0	319.5	307.7
70°	307.7	298.6	289.5	281.6	276.4	271.2	262.1	250.3	242.5	230.8	223.0
72.5°	232.1	224.3	216.4	206.0	199.5	195.6	186.5	176.0	163.0	155.2	144.7
75°	166.9	157.8	147.3	138.2	134.3	130.4	120.0	112.1	103.0	93.9	83.4
77.5°	108.2	97.8	90.0	79.5	78.2	75.6	65.2	57.4	50.9	45.6	39.1
80°	57.4	52.2	45.6	39.1	36.5	32.6	27.4	23.5	19.6	15.6	13.0
82.5°	24.8	20.9	17.0	14.3	13.0	11.7	9.1	7.8	6.5	6.5	5.2
85°	6.5	5.2	5.2	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3472.3	3472.3	3472.3	3472.3	3472.3	3472.3	3472.3	3472.3	3472.3	3472.3	3472.3
2.5°	3472.3	3473.6	3474.9	3474.9	3476.2	3477.5	3477.5	3478.8	3480.1	3481.4	3481.4
5°	3465.8	3465.8	3465.8	3467.1	3467.1	3467.1	3467.1	3469.7	3469.7	3471.0	3472.3
7.5°	3452.7	3452.7	3452.7	3452.7	3451.4	3452.7	3451.4	3451.4	3454.0	3455.3	3456.6
10°	3431.9	3430.6	3430.6	3429.3	3429.3	3429.3	3430.6	3431.9	3433.2	3434.5	3438.4
12.5°	3399.3	3398.0	3398.0	3396.7	3396.7	3398.0	3399.3	3401.9	3407.1	3409.7	3414.9
15°	3347.1	3345.8	3347.1	3348.4	3351.0	3354.9	3358.8	3362.8	3370.6	3377.1	3383.6
17.5°	3271.5	3272.8	3274.1	3276.7	3280.6	3285.8	3296.3	3306.7	3315.8	3326.2	3336.7
20°	3167.2	3172.4	3173.7	3182.8	3185.4	3197.2	3208.9	3224.5	3238.9	3251.9	3266.3
22.5°	3042.0	3045.9	3051.1	3061.6	3068.1	3083.7	3098.1	3116.3	3132.0	3148.9	3169.8
25°	2899.9	2901.2	2916.8	2916.8	2932.5	2945.5	2962.5	2982.0	3005.5	3027.7	3042.0
27.5°	2738.2	2744.7	2756.4	2761.7	2773.4	2794.3	2808.6	2832.1	2855.5	2875.1	2890.7
30°	2568.7	2573.9	2593.5	2596.1	2605.2	2623.4	2643.0	2665.2	2683.4	2705.6	2719.9
32.5°	2390.0	2404.4	2416.1	2425.3	2427.9	2455.2	2465.7	2481.3	2502.2	2524.3	2538.7
35°	2216.6	2223.1	2240.1	2245.3	2253.1	2268.8	2289.6	2302.7	2313.1	2327.5	2344.4
37.5°	2032.8	2052.3	2056.2	2071.9	2074.5	2088.8	2099.3	2114.9	2128.0	2141.0	2143.6
40°	1862.0	1868.5	1882.8	1886.7	1889.3	1908.9	1921.9	1925.9	1932.4	1944.1	1959.8
42.5°	1688.5	1695.1	1710.7	1706.8	1718.5	1727.7	1734.2	1749.8	1756.4	1760.3	1760.3
45°	1517.7	1520.3	1530.8	1536.0	1542.5	1547.7	1559.5	1567.3	1569.9	1581.6	1585.5
47.5°	1354.8	1357.4	1365.2	1374.3	1371.7	1378.2	1391.3	1395.2	1396.5	1404.3	1408.2
50°	1194.4	1200.9	1211.3	1208.7	1216.5	1220.4	1232.2	1234.8	1234.8	1236.1	1237.4
52.5°	1044.4	1049.6	1052.2	1054.9	1058.8	1065.3	1070.5	1067.9	1073.1	1078.3	1074.4
55°	895.8	899.7	906.2	908.8	908.8	910.1	907.5	919.2	914.0	912.7	914.0
57.5°	760.2	755.0	753.7	760.2	762.8	761.5	757.6	762.8	762.8	760.2	756.3
60°	628.5	624.6	623.3	624.6	619.4	615.4	618.0	615.4	608.9	606.3	607.6
62.5°	508.5	504.6	494.2	494.2	491.6	490.3	479.8	481.1	475.9	468.1	470.7
65°	397.7	387.3	382.0	380.7	371.6	363.8	361.2	352.1	344.2	342.9	344.2
67.5°	298.6	286.9	277.7	273.8	268.6	262.1	253.0	245.1	247.7	246.4	251.7
70°	207.3	199.5	190.4	183.8	186.5	178.6	173.4	173.4	174.7	176.0	178.6
72.5°	138.2	127.8	123.9	120.0	117.4	112.1	114.7	114.7	113.4	114.7	112.1
75°	78.2	73.0	69.1	67.8	65.2	65.2	65.2	65.2	63.9	62.6	62.6
77.5°	35.2	32.6	31.3	30.0	30.0	30.0	28.7	27.4	27.4	27.4	26.1
80°	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7
82.5°	5.2	5.2	6.5	6.5	6.5	5.2	6.5	6.5	5.2	5.2	6.5
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: P859582

CATALOG NUMBER: LX4C75D010 EX4C759040 4LBLWW*

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3472.3	3472.3	3472.3	3472.3	3472.3	3472.3	3472.3	3472.3
2.5°	3482.7	3484.0	3484.0	3484.0	3485.3	3485.3	3485.3	3485.3
5°	3473.6	3474.9	3474.9	3474.9	3476.2	3476.2	3476.2	3476.2
7.5°	3457.9	3459.2	3459.2	3460.5	3460.5	3461.8	3461.8	3463.2
10°	3439.7	3442.3	3443.6	3444.9	3446.2	3447.5	3447.5	3448.8
12.5°	3420.1	3422.7	3424.0	3426.6	3429.3	3430.6	3431.9	3433.2
15°	3391.4	3396.7	3399.3	3400.6	3405.8	3408.4	3409.7	3411.0
17.5°	3345.8	3356.2	3360.1	3362.8	3368.0	3373.2	3377.1	3378.4
20°	3280.6	3292.3	3297.6	3304.1	3311.9	3318.4	3321.0	3323.6
22.5°	3189.3	3202.4	3210.2	3218.0	3224.5	3231.1	3241.5	3237.6
25°	3058.9	3081.1	3090.2	3094.2	3108.5	3116.3	3121.5	3116.3
27.5°	2912.9	2925.9	2933.8	2942.9	2953.3	2961.2	2963.8	2971.6
30°	2736.9	2759.0	2757.7	2766.9	2779.9	2787.7	2790.3	2796.9
32.5°	2554.3	2564.8	2572.6	2571.3	2576.5	2590.8	2585.6	2597.4
35°	2360.1	2361.4	2374.4	2373.1	2383.5	2383.5	2383.5	2391.3
37.5°	2152.7	2168.4	2161.9	2177.5	2172.3	2176.2	2176.2	2178.8
40°	1963.7	1968.9	1968.9	1974.1	1978.0	1974.1	1976.7	1983.2
42.5°	1768.1	1773.3	1774.6	1772.0	1775.9	1787.6	1778.5	1786.3
45°	1585.5	1589.5	1594.7	1590.8	1597.3	1593.4	1597.3	1594.7
47.5°	1413.4	1412.1	1410.8	1421.2	1412.1	1413.4	1418.6	1409.5
50°	1237.4	1245.2	1240.0	1243.9	1246.5	1246.5	1242.6	1242.6
52.5°	1080.9	1079.6	1075.7	1079.6	1077.0	1078.3	1080.9	1078.3
55°	919.2	924.5	921.9	920.6	921.9	921.9	929.7	919.2
57.5°	760.2	757.6	761.5	770.6	761.5	768.0	771.9	773.2
60°	608.9	608.9	616.7	612.8	620.7	627.2	632.4	629.8
62.5°	464.2	470.7	473.3	474.6	482.4	487.7	487.7	486.4
65°	344.2	353.4	353.4	358.6	361.2	361.2	363.8	369.0
67.5°	254.3	254.3	255.6	258.2	256.9	256.9	259.5	260.8
70°	177.3	174.7	178.6	177.3	177.3	176.0	177.3	177.3
72.5°	112.1	112.1	113.4	112.1	109.5	110.8	110.8	113.4
75°	60.0	62.6	60.0	60.0	61.3	58.7	60.0	61.3
77.5°	24.8	24.8	24.8	24.8	24.8	23.5	23.5	23.5
80°	11.7	11.7	11.7	11.7	11.7	11.7	10.4	10.4
82.5°	5.2	6.5	5.2	6.5	5.2	5.2	5.2	5.2
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



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













(END OF REPORT)