

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: P859541

Luminaire Tested: **LX4C75D010 EX4C759027 4LBLWWH**

Issue Date: 2/14/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P859541  
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: LX4C75D010 EX4C759027 4LBLWWH  
Description: 4 INCH 7500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 4LRLWW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

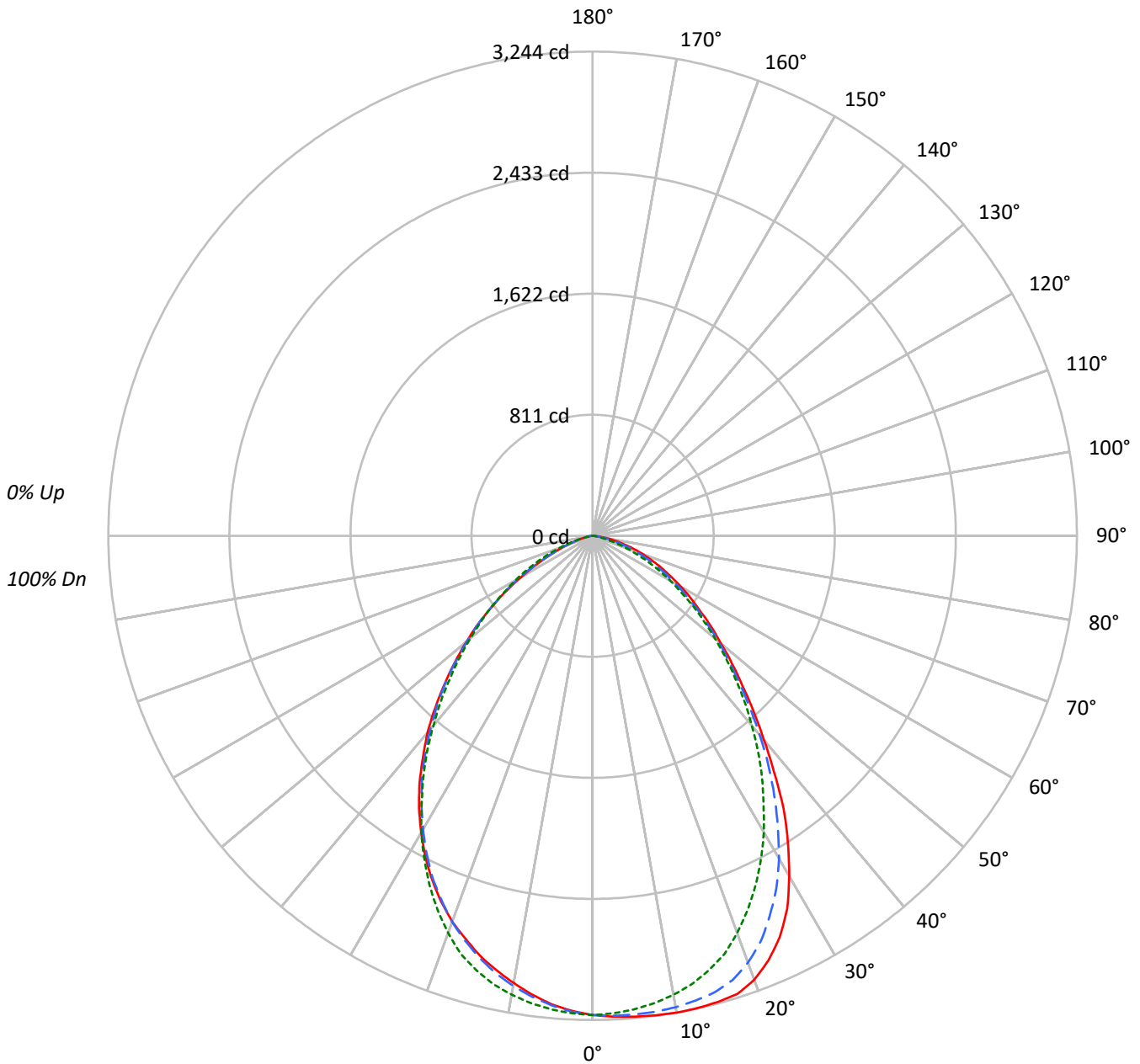
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6051.0 lumens  
Efficiency: N/A  
Efficacy: 74.2 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): 81.5  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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			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	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°	394458	394458	394458
5°	398863	392771	388504
10°	404710	389453	379598
15°	411362	383241	370522
20°	413969	370211	359555
25°	402093	350203	344835
30°	373671	325495	325666
35°	334492	296713	302997
40°	286380	265980	275683
45°	246521	234516	243307
50°	214310	204161	210296
55°	188593	175635	174050
60°	167793	146564	135016
65°	147179	117383	97645
70°	126438	82939	66093
75°	102576	48084	38686
80°	73366	20942	19244
85°	27910	8739	8739



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	302.6	5.0
10°-20°	856.6	14.2
20°-30°	1223.1	20.2
30°-40°	1279.5	21.1
40°-50°	1072.1	17.7
50°-60°	750.3	12.4
60°-70°	408.6	6.8
70°-80°	141.8	2.3
80°-90°	16.3	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°	2382.3	39.4
0°-40°	3661.9	60.5
0°-60°	5484.3	90.6
0°-90°	6051.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6051.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3211	3211	3211	3211	3211	
5°	3234	3220	3185	3158	3150	309
15°	3234	3166	3013	2927	2913	913
25°	2966	2808	2584	2533	2544	1355
35°	2230	2120	1978	1993	2020	1383
45°	1419	1387	1350	1394	1400	1103
55°	880	851	820	820	813	795
65°	506	462	404	340	336	504
75°	216	175	101	82	82	233
85°	20	11	6	6	6	36
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°	3210.8	3210.8	3210.8	3210.8	3210.8	3210.8	3210.8	3210.8	3210.8	3210.8	3210.8
2.5°	3225.6	3221.9	3223.2	3223.2	3223.2	3221.9	3223.2	3221.9	3221.9	3220.7	3218.2
5°	3234.3	3231.8	3231.8	3231.8	3230.6	3229.3	3229.3	3228.1	3225.6	3224.4	3219.5
7.5°	3240.4	3238.0	3238.0	3236.7	3235.5	3234.3	3233.0	3229.3	3225.6	3223.2	3217.0
10°	3244.2	3240.4	3240.4	3238.0	3235.5	3234.3	3231.8	3226.9	3221.9	3215.7	3207.1
12.5°	3241.7	3238.0	3236.7	3234.3	3229.3	3226.9	3224.4	3218.2	3209.6	3200.9	3189.8
15°	3234.3	3231.8	3229.3	3225.6	3219.5	3215.7	3213.3	3203.4	3192.3	3179.9	3166.4
17.5°	3219.5	3215.7	3210.8	3205.9	3197.2	3193.5	3187.3	3175.0	3158.9	3141.7	3120.7
20°	3166.4	3163.9	3158.9	3150.3	3136.7	3131.8	3123.1	3107.1	3086.1	3065.1	3042.9
22.5°	3078.7	3075.0	3067.6	3060.1	3047.8	3039.2	3031.7	3009.5	2986.1	2963.8	2942.8
25°	2966.3	2962.6	2952.7	2942.8	2930.5	2915.7	2908.3	2891.0	2867.5	2839.1	2808.2
27.5°	2821.8	2809.5	2805.8	2794.6	2776.1	2771.2	2760.1	2737.8	2715.6	2690.9	2665.0
30°	2634.1	2634.1	2626.7	2621.7	2604.5	2599.5	2587.2	2563.7	2551.4	2516.8	2497.0
32.5°	2435.3	2432.8	2426.6	2422.9	2413.0	2404.4	2392.1	2379.7	2352.5	2335.2	2308.1
35°	2230.3	2215.5	2217.9	2210.5	2204.3	2194.5	2193.2	2179.6	2154.9	2145.1	2120.4
37.5°	1996.9	1990.7	1999.3	1988.2	1982.1	1983.3	1973.4	1964.8	1954.9	1937.6	1932.7
40°	1785.7	1790.6	1789.4	1779.5	1784.5	1778.3	1768.4	1759.8	1754.8	1743.7	1740.0
42.5°	1596.8	1589.4	1586.9	1586.9	1588.1	1588.1	1583.2	1577.0	1577.0	1565.9	1554.8
45°	1418.9	1418.9	1416.5	1423.9	1412.8	1412.8	1409.1	1407.8	1402.9	1400.4	1386.8
47.5°	1265.8	1264.6	1263.3	1262.1	1260.9	1260.9	1253.5	1247.3	1246.0	1238.6	1231.2
50°	1121.3	1128.7	1126.3	1120.1	1117.6	1118.8	1113.9	1110.2	1109.0	1096.6	1097.8
52.5°	1000.3	999.1	1001.5	997.8	991.6	992.9	987.9	983.0	978.1	971.9	966.9
55°	880.5	886.7	884.2	880.5	879.3	876.8	873.1	866.9	865.7	852.1	850.9
57.5°	780.5	779.2	776.8	770.6	769.4	765.7	765.7	760.7	753.3	745.9	739.7
60°	682.9	682.9	679.2	678.0	673.0	671.8	670.6	665.6	657.0	650.8	640.9
62.5°	589.1	591.5	589.1	585.4	581.7	576.7	574.2	570.5	563.1	557.0	548.3
65°	506.3	505.1	503.8	498.9	497.7	492.7	491.5	484.1	476.7	471.7	461.9
67.5°	427.3	423.6	423.6	421.1	418.6	414.9	412.5	405.1	396.4	391.5	381.6
70°	352.0	349.5	349.5	349.5	343.3	339.6	338.4	334.7	322.3	317.4	307.5
72.5°	282.8	281.6	280.3	276.6	272.9	272.9	268.0	260.6	254.4	248.2	240.8
75°	216.1	218.6	216.1	211.2	209.9	207.5	203.8	197.6	191.4	184.0	175.4
77.5°	158.1	155.6	153.1	153.1	150.7	145.7	144.5	139.5	132.1	127.2	118.6
80°	103.7	102.5	100.0	97.6	96.3	95.1	93.9	88.9	81.5	77.8	70.4
82.5°	56.8	55.6	55.6	54.3	50.6	50.6	49.4	44.5	40.8	38.3	34.6
85°	19.8	19.8	19.8	18.5	18.5	18.5	17.3	16.1	14.8	13.6	11.1
87.5°	2.5	1.2	2.5	1.2	2.5	1.2	1.2	1.2	1.2	1.2	1.2
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°	3210.8	3210.8	3210.8	3210.8	3210.8	3210.8	3210.8	3210.8	3210.8	3210.8	3210.8
2.5°	3215.7	3213.3	3212.0	3210.8	3209.6	3208.3	3207.1	3204.6	3203.4	3202.2	3199.7
5°	3215.7	3210.8	3208.3	3204.6	3202.2	3199.7	3196.0	3192.3	3188.6	3184.9	3181.2
7.5°	3210.8	3203.4	3198.5	3191.0	3188.6	3184.9	3177.5	3172.5	3166.4	3158.9	3150.3
10°	3198.5	3189.8	3179.9	3170.1	3166.4	3160.2	3150.3	3141.7	3131.8	3121.9	3113.2
12.5°	3178.7	3165.1	3152.8	3139.2	3131.8	3125.6	3112.0	3099.7	3087.3	3076.2	3061.4
15°	3149.1	3133.0	3117.0	3098.4	3089.8	3082.4	3062.6	3047.8	3028.0	3013.2	2998.4
17.5°	3100.9	3076.2	3056.4	3033.0	3020.6	3012.0	2994.7	2971.2	2952.7	2936.7	2919.4
20°	3018.2	2994.7	2967.5	2941.6	2928.0	2916.9	2892.2	2867.5	2849.0	2831.7	2813.2
22.5°	2909.5	2879.8	2860.1	2828.0	2816.9	2803.3	2773.6	2751.4	2730.4	2713.1	2695.8
25°	2777.3	2751.4	2724.2	2694.6	2681.0	2665.0	2640.3	2616.8	2603.2	2583.5	2562.5
27.5°	2625.5	2604.5	2571.1	2545.2	2531.6	2519.2	2495.8	2474.8	2455.0	2441.4	2421.7
30°	2464.9	2440.2	2410.6	2383.4	2376.0	2361.2	2340.2	2324.1	2303.1	2294.5	2285.8
32.5°	2288.3	2259.9	2237.7	2220.4	2205.6	2193.2	2182.1	2156.2	2152.5	2130.2	2127.8
35°	2095.7	2083.3	2062.3	2047.5	2035.2	2026.5	2008.0	1995.6	1982.1	1978.4	1969.7
37.5°	1914.1	1899.3	1879.6	1866.0	1857.3	1856.1	1842.5	1835.1	1825.2	1820.3	1810.4
40°	1724.0	1717.8	1700.5	1698.0	1684.4	1683.2	1675.8	1667.2	1658.5	1658.5	1659.7
42.5°	1548.6	1541.2	1533.8	1525.1	1517.7	1517.7	1514.0	1511.5	1509.1	1505.4	1511.5
45°	1384.4	1374.5	1369.5	1360.9	1364.6	1357.2	1354.7	1354.7	1351.0	1349.8	1358.4
47.5°	1231.2	1220.1	1215.2	1212.7	1212.7	1213.9	1202.8	1206.5	1205.3	1207.8	1211.5
50°	1091.7	1081.8	1074.4	1074.4	1075.6	1070.7	1065.7	1069.4	1065.7	1068.2	1076.9
52.5°	962.0	952.1	948.4	948.4	941.0	939.8	942.2	937.3	938.5	939.8	944.7
55°	842.2	836.0	829.9	823.7	824.9	822.5	817.5	816.3	818.8	820.0	826.2
57.5°	734.8	726.1	717.5	715.0	712.6	712.6	706.4	705.1	707.6	701.4	701.4
60°	632.3	627.3	616.2	612.5	612.5	606.3	601.4	603.9	597.7	596.5	597.7
62.5°	537.2	533.5	526.1	518.7	516.2	513.7	507.6	505.1	502.6	497.7	490.3
65°	454.5	445.8	437.2	432.2	428.5	422.3	418.6	413.7	406.3	403.8	396.4
67.5°	371.7	363.1	354.4	350.7	347.0	343.3	337.1	331.0	322.3	312.4	303.8
70°	298.9	287.7	282.8	272.9	270.4	265.5	256.9	250.7	242.0	230.9	222.3
72.5°	228.5	221.1	213.6	205.0	198.8	195.1	187.7	177.8	167.9	161.8	153.1
75°	164.2	160.5	150.7	140.8	138.3	133.4	124.7	118.6	111.1	101.3	93.9
77.5°	111.1	103.7	97.6	88.9	86.4	81.5	76.6	70.4	65.5	59.3	54.3
80°	65.5	59.3	55.6	49.4	46.9	44.5	40.8	35.8	32.1	29.6	28.4
82.5°	32.1	27.2	25.9	22.2	21.0	19.8	17.3	16.1	13.6	13.6	13.6
85°	11.1	8.6	8.6	7.4	6.2	6.2	6.2	6.2	6.2	6.2	6.2
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.5	1.2
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°	3210.8	3210.8	3210.8	3210.8	3210.8	3210.8	3210.8	3210.8	3210.8	3210.8	3210.8
2.5°	3198.5	3197.2	3196.0	3194.8	3194.8	3193.5	3193.5	3192.3	3192.3	3191.0	3191.0
5°	3176.2	3172.5	3170.1	3167.6	3167.6	3163.9	3161.4	3158.9	3157.7	3157.7	3155.2
7.5°	3145.4	3140.4	3135.5	3131.8	3130.5	3124.4	3119.4	3119.4	3114.5	3112.0	3109.5
10°	3104.6	3096.0	3088.6	3084.8	3079.9	3076.2	3070.0	3066.3	3062.6	3056.4	3055.2
12.5°	3049.0	3042.9	3031.7	3026.8	3024.3	3016.9	3007.0	3002.1	3000.9	2995.9	2992.2
15°	2986.1	2972.5	2962.6	2956.4	2956.4	2944.1	2939.1	2931.7	2926.8	2923.1	2921.8
17.5°	2904.5	2891.0	2881.1	2872.4	2870.0	2860.1	2852.7	2850.2	2844.0	2846.5	2840.3
20°	2799.6	2788.5	2781.1	2769.9	2769.9	2763.8	2761.3	2755.1	2752.7	2750.2	2752.7
22.5°	2687.2	2673.6	2661.3	2660.0	2660.0	2651.4	2650.2	2648.9	2644.0	2647.7	2646.4
25°	2555.1	2545.2	2537.8	2536.5	2536.5	2531.6	2526.7	2529.1	2532.8	2531.6	2535.3
27.5°	2418.0	2408.1	2405.6	2404.4	2401.9	2400.7	2403.2	2403.2	2406.9	2411.8	2416.8
30°	2269.8	2267.3	2263.6	2262.4	2259.9	2266.1	2268.6	2272.3	2271.0	2278.4	2283.4
32.5°	2121.6	2116.7	2115.4	2117.9	2121.6	2120.4	2127.8	2130.2	2132.7	2141.4	2145.1
35°	1972.2	1970.9	1968.5	1968.5	1969.7	1979.6	1979.6	1988.2	1993.2	1995.6	2005.5
37.5°	1811.6	1816.6	1819.0	1822.8	1824.0	1827.7	1830.2	1838.8	1843.7	1848.7	1853.6
40°	1664.7	1662.2	1673.3	1665.9	1668.4	1679.5	1684.4	1683.2	1690.6	1698.0	1703.0
42.5°	1507.8	1511.5	1514.0	1516.5	1522.7	1523.9	1530.1	1538.7	1541.2	1549.8	1552.3
45°	1355.9	1357.2	1362.1	1367.1	1370.8	1380.6	1383.1	1386.8	1394.2	1394.2	1397.9
47.5°	1212.7	1217.6	1217.6	1225.0	1231.2	1230.0	1238.6	1241.1	1239.9	1246.0	1248.5
50°	1075.6	1083.0	1081.8	1086.7	1089.2	1090.4	1097.8	1100.3	1095.4	1101.6	1102.8
52.5°	944.7	948.4	953.4	954.6	952.1	958.3	955.8	960.8	959.5	964.5	959.5
55°	824.9	823.7	823.7	826.2	823.7	826.2	828.6	823.7	820.0	824.9	823.7
57.5°	705.1	705.1	702.7	706.4	702.7	699.0	697.7	694.0	690.3	690.3	689.1
60°	592.8	590.3	585.4	584.1	584.1	577.9	575.5	570.5	570.5	565.6	560.7
62.5°	487.8	481.6	477.9	477.9	475.4	469.3	458.2	450.7	448.3	440.9	439.6
65°	389.0	382.8	379.1	371.7	365.5	363.1	352.0	343.3	339.6	332.2	333.4
67.5°	298.9	289.0	277.9	272.9	269.2	260.6	256.9	250.7	247.0	247.0	247.0
70°	214.9	206.2	195.1	191.4	188.9	181.5	177.8	176.6	180.3	179.1	180.3
72.5°	144.5	135.8	130.9	128.4	126.0	122.3	124.7	126.0	123.5	124.7	126.0
75°	87.7	85.2	81.5	80.3	80.3	81.5	80.3	80.3	81.5	81.5	82.7
77.5°	50.6	48.2	48.2	46.9	49.4	48.2	48.2	48.2	49.4	49.4	49.4
80°	27.2	27.2	27.2	27.2	28.4	27.2	28.4	28.4	28.4	28.4	28.4
82.5°	13.6	13.6	13.6	14.8	14.8	14.8	14.8	14.8	14.8	14.8	13.6
85°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
87.5°	1.2	2.5	2.5	2.5	2.5	2.5	1.2	1.2	1.2	1.2	1.2
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: P859541

CATALOG NUMBER: LX4C75D010 EX4C759027 4LBLWWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3210.8	3210.8	3210.8	3210.8	3210.8	3210.8	3210.8	3210.8
2.5°	3188.6	3188.6	3188.6	3186.1	3187.3	3187.3	3186.1	3186.1
5°	3154.0	3152.8	3150.3	3150.3	3147.8	3150.3	3149.1	3150.3
7.5°	3107.1	3107.1	3103.4	3103.4	3102.1	3100.9	3099.7	3100.9
10°	3051.5	3051.5	3049.0	3047.8	3049.0	3044.1	3044.1	3042.9
12.5°	2989.8	2987.3	2984.8	2986.1	2984.8	2981.1	2979.9	2981.1
15°	2918.1	2914.4	2915.7	2912.0	2912.0	2910.7	2913.2	2913.2
17.5°	2839.1	2836.6	2834.2	2835.4	2832.9	2834.2	2832.9	2831.7
20°	2751.4	2750.2	2750.2	2745.2	2746.5	2745.2	2746.5	2750.2
22.5°	2650.2	2648.9	2650.2	2646.4	2648.9	2648.9	2652.6	2652.6
25°	2539.0	2537.8	2540.2	2541.5	2542.7	2546.4	2542.7	2543.9
27.5°	2415.5	2419.2	2422.9	2424.2	2429.1	2425.4	2422.9	2426.6
30°	2290.8	2290.8	2289.6	2294.5	2298.2	2301.9	2295.7	2295.7
32.5°	2147.5	2153.7	2153.7	2154.9	2158.7	2158.7	2158.7	2163.6
35°	2010.5	2014.2	2015.4	2010.5	2012.9	2011.7	2020.3	2020.3
37.5°	1857.3	1857.3	1858.6	1867.2	1867.2	1863.5	1866.0	1866.0
40°	1711.6	1712.8	1707.9	1710.4	1716.5	1714.1	1716.5	1719.0
42.5°	1552.3	1560.9	1556.0	1558.5	1557.2	1558.5	1559.7	1559.7
45°	1400.4	1402.9	1402.9	1404.1	1406.6	1409.1	1401.6	1400.4
47.5°	1252.2	1253.5	1257.2	1251.0	1258.4	1251.0	1258.4	1249.7
50°	1102.8	1107.7	1104.0	1106.5	1102.8	1102.8	1101.6	1100.3
52.5°	960.8	959.5	959.5	958.3	958.3	960.8	958.3	962.0
55°	818.8	820.0	817.5	816.3	815.1	818.8	815.1	812.6
57.5°	684.1	686.6	681.7	684.1	675.5	679.2	680.4	681.7
60°	559.4	555.7	555.7	550.8	550.8	554.5	549.5	549.5
62.5°	433.5	435.9	432.2	437.2	437.2	442.1	439.6	442.1
65°	332.2	333.4	334.7	334.7	334.7	342.1	339.6	335.9
67.5°	250.7	251.9	253.2	251.9	255.6	253.2	253.2	254.4
70°	181.5	182.8	184.0	184.0	182.8	184.0	184.0	184.0
72.5°	126.0	127.2	126.0	127.2	128.4	127.2	127.2	128.4
75°	82.7	82.7	81.5	81.5	81.5	81.5	82.7	81.5
77.5°	48.2	49.4	48.2	49.4	49.4	49.4	49.4	49.4
80°	28.4	28.4	28.4	27.2	28.4	28.4	28.4	27.2
82.5°	14.8	14.8	13.6	13.6	14.8	14.8	14.8	14.8
85°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	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)