

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: P685120

Luminaire Tested: **LX6C60D010 EX6609030 6LCSWLI**

Issue Date: 2/15/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P685120  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P252180)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LX6C60D010 EX6609030 6LCSWLI  
Description: 6 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 6LCSW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

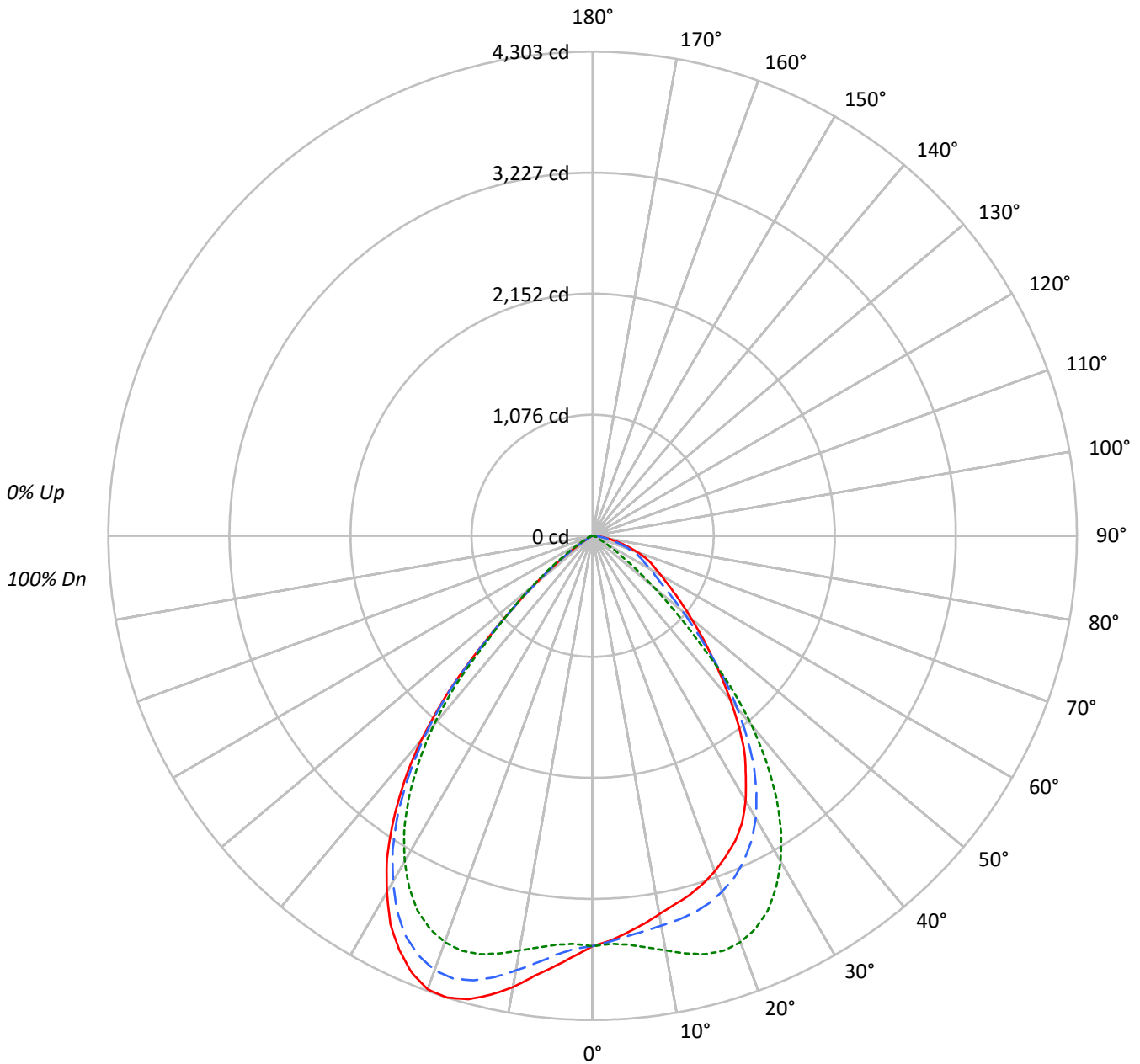
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6667.0 lumens  
Efficiency: N/A  
Efficacy: 92.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 72  
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									
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	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80																			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72																			
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65																			
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58																			
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53																			
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48																			
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44																			
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40																			
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	199951	199951	199951
5°	194766	200715	211264
10°	190027	208274	226716
15°	187805	218480	242027
20°	185114	224177	250208
25°	181184	222515	245718
30°	172172	211463	231320
35°	157517	190650	206518
40°	136248	157452	169432
45°	114896	103274	110833
50°	97549	59776	56211
55°	84652	28663	21658
60°	76463	13376	5350
65°	74171	7679	1803
70°	66502	6155	1683
75°	54668	4448	741
80°	40725	2178	0
85°	35098	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	352.3	5.3
10°-20°	1073.7	16.1
20°-30°	1640.5	24.6
30°-40°	1715.8	25.7
40°-50°	1113.1	16.7
50°-60°	441.9	6.6
60°-70°	209.6	3.1
70°-80°	99.7	1.5
80°-90°	20.3	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°	3066.5	46.0
0°-40°	4782.3	71.7
0°-60°	6337.3	95.1
0°-90°	6667.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6667.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3647	3647	3647	3647	3647	
5°	3539	3571	3647	3738	3839	334
15°	3309	3470	3850	4090	4264	933
25°	2995	3184	3679	3926	4062	1372
35°	2354	2497	2849	3016	3086	1456
45°	1482	1468	1332	1412	1430	1153
55°	886	753	300	234	227	803
65°	572	474	59	14	14	559
75°	258	209	21	7	4	278
85°	56	35	0	0	0	65
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°	3647.4	3647.4	3647.4	3647.4	3647.4	3647.4	3647.4	3647.4	3647.4	3647.4	3647.4
2.5°	3602.0	3609.0	3570.7	3560.2	3588.1	3598.5	3602.0	3591.6	3595.1	3609.0	3609.0
5°	3539.3	3546.2	3511.3	3500.9	3528.8	3535.9	3546.2	3542.8	3553.3	3574.1	3570.7
7.5°	3480.0	3490.5	3452.1	3438.2	3473.1	3490.5	3497.5	3497.5	3511.3	3539.3	3542.8
10°	3413.7	3427.7	3392.9	3385.8	3424.2	3441.6	3445.2	3452.1	3473.1	3511.3	3518.3
12.5°	3358.0	3371.9	3347.5	3337.0	3378.8	3396.3	3403.2	3417.2	3441.6	3490.5	3497.5
15°	3309.1	3319.6	3291.7	3284.7	3326.6	3347.5	3350.9	3371.9	3403.2	3459.1	3469.5
17.5°	3246.3	3253.3	3232.5	3225.5	3267.3	3288.2	3291.7	3316.1	3354.5	3410.3	3427.7
20°	3173.1	3180.2	3159.2	3152.2	3194.1	3218.4	3222.0	3242.9	3288.2	3347.5	3365.0
22.5°	3085.9	3100.0	3075.6	3068.5	3110.4	3131.3	3141.8	3159.2	3204.5	3263.8	3288.2
25°	2995.4	2995.4	2977.9	2974.4	3012.8	3037.2	3033.6	3058.0	3103.4	3162.7	3183.6
27.5°	2876.8	2873.2	2855.8	2852.4	2894.2	2915.2	2908.1	2932.6	2974.4	3033.6	3054.6
30°	2719.9	2726.8	2702.4	2695.4	2730.4	2765.2	2761.7	2786.1	2827.9	2883.7	2897.7
32.5°	2531.5	2538.5	2535.1	2524.6	2555.9	2573.4	2583.8	2601.3	2636.1	2695.4	2709.4
35°	2353.7	2343.2	2329.3	2329.3	2360.6	2388.6	2378.1	2399.0	2433.9	2493.1	2496.7
37.5°	2134.0	2130.5	2123.6	2116.6	2151.5	2158.4	2162.0	2175.8	2207.3	2256.1	2249.1
40°	1903.9	1907.3	1903.9	1889.9	1910.8	1938.8	1935.2	1942.3	1970.1	2004.9	1994.6
42.5°	1687.7	1687.7	1687.7	1673.8	1698.1	1712.2	1719.1	1715.6	1722.5	1754.0	1739.9
45°	1482.0	1485.4	1482.0	1478.5	1482.0	1489.0	1482.0	1478.5	1478.5	1489.0	1468.0
47.5°	1304.2	1304.2	1293.7	1283.2	1293.7	1297.1	1286.7	1276.3	1272.7	1269.3	1234.4
50°	1143.8	1140.2	1136.8	1119.4	1129.7	1133.3	1119.4	1112.3	1098.4	1081.0	1039.2
52.5°	1004.3	1000.8	997.2	979.8	986.9	990.3	976.4	962.4	944.9	931.0	878.8
55°	885.7	882.2	882.2	871.8	864.7	871.8	857.8	847.3	822.9	805.5	753.2
57.5°	784.5	784.5	777.6	767.1	770.6	770.6	756.7	742.7	721.7	700.9	659.1
60°	697.4	697.4	697.4	686.9	686.9	686.9	679.9	666.0	648.6	627.6	585.8
62.5°	627.6	627.6	624.1	613.8	617.2	617.2	610.2	596.3	578.9	564.9	523.1
65°	571.8	571.8	571.8	561.5	561.5	564.9	557.9	544.0	530.0	512.6	474.2
67.5°	502.1	498.7	498.7	491.6	495.1	498.7	491.6	481.3	463.8	453.3	418.5
70°	414.9	418.5	421.9	411.5	414.9	414.9	411.5	401.0	390.6	380.1	348.7
72.5°	338.3	338.3	334.7	331.3	331.3	334.7	327.8	317.3	310.3	303.4	278.9
75°	258.1	254.5	258.1	251.1	251.1	251.1	244.0	240.6	237.1	226.6	209.2
77.5°	188.3	184.8	184.8	177.8	181.4	181.4	177.8	170.9	163.8	160.4	146.4
80°	129.0	129.0	129.0	125.6	125.6	122.0	122.0	118.6	111.5	108.1	101.2
82.5°	87.2	87.2	87.2	83.7	83.7	83.7	80.2	76.7	73.3	69.7	62.8
85°	55.8	55.8	55.8	52.3	52.3	52.3	48.8	48.8	45.3	41.8	34.9
87.5°	31.3	31.3	31.3	27.9	27.9	27.9	27.9	27.9	24.4	21.0	17.4
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°	3647.4	3647.4	3647.4	3647.4	3647.4	3647.4	3647.4	3647.4	3647.4	3647.4	3647.4
2.5°	3633.4	3584.6	3615.9	3615.9	3605.6	3633.4	3650.9	3664.8	3661.3	3630.0	3626.4
5°	3605.6	3563.6	3598.5	3602.0	3591.6	3630.0	3654.3	3671.8	3675.3	3647.4	3650.9
7.5°	3584.6	3549.7	3595.1	3609.0	3605.6	3640.4	3668.4	3696.1	3710.2	3689.2	3692.7
10°	3574.1	3546.2	3595.1	3615.9	3619.5	3657.9	3699.7	3738.1	3755.5	3741.5	3752.0
12.5°	3560.2	3542.8	3598.5	3630.0	3643.8	3682.2	3734.5	3779.9	3807.8	3800.9	3821.7
15°	3546.2	3532.3	3598.5	3643.8	3661.3	3696.1	3755.5	3821.7	3853.1	3849.6	3877.5
17.5°	3511.3	3507.9	3577.7	3626.4	3650.9	3692.7	3748.4	3828.6	3860.1	3867.0	3901.9
20°	3455.6	3455.6	3532.3	3584.6	3612.5	3650.9	3720.6	3797.3	3835.7	3842.7	3881.1
22.5°	3378.8	3385.8	3459.1	3511.3	3553.3	3581.1	3654.3	3734.5	3769.4	3779.9	3821.7
25°	3277.8	3284.7	3354.5	3406.8	3452.1	3483.4	3553.3	3626.4	3668.4	3678.7	3710.2
27.5°	3145.3	3159.2	3225.5	3277.8	3316.1	3337.0	3410.3	3487.0	3518.3	3528.8	3560.2
30°	2991.8	2995.4	3061.5	3106.9	3145.3	3162.7	3225.5	3305.7	3330.1	3340.6	3385.8
32.5°	2803.5	2800.1	2862.9	2904.7	2936.0	2957.0	3023.1	3075.6	3100.0	3117.4	3141.8
35°	2576.9	2573.4	2618.7	2667.6	2692.0	2698.9	2765.2	2820.9	2834.9	2848.8	2880.3
37.5°	2322.4	2322.4	2360.6	2385.2	2412.9	2423.4	2454.9	2517.7	2542.0	2538.5	2562.9
40°	2053.8	2039.9	2067.7	2092.2	2099.2	2102.6	2134.0	2182.8	2200.2	2200.2	2217.7
42.5°	1771.4	1750.4	1754.0	1767.9	1774.8	1750.4	1771.4	1802.7	1792.2	1806.3	1809.8
45°	1471.5	1440.1	1426.2	1394.7	1401.8	1377.3	1363.4	1370.4	1367.0	1332.1	1339.0
47.5°	1227.4	1171.7	1147.2	1101.9	1091.5	1063.5	1046.1	1014.7	986.9	986.9	969.3
50°	1021.7	965.9	917.0	864.7	847.3	822.9	784.5	742.7	721.7	700.9	683.5
52.5°	857.8	798.5	739.2	683.5	659.1	627.6	575.4	533.5	495.1	474.2	453.3
55°	725.3	659.1	596.3	537.0	505.6	474.2	421.9	373.1	327.8	299.9	282.4
57.5°	624.1	561.5	495.1	432.4	404.4	369.6	313.9	261.5	219.7	188.3	170.9
60°	551.0	488.2	429.0	362.6	334.7	299.9	240.6	191.7	149.9	122.0	101.2
62.5°	488.2	432.4	369.6	310.3	282.4	247.6	191.7	143.0	104.6	76.7	59.2
65°	442.9	387.0	334.7	275.5	251.1	216.2	163.8	118.6	83.7	59.2	41.8
67.5°	390.6	341.7	289.4	240.6	216.2	188.3	139.4	101.2	69.7	48.8	34.9
70°	327.8	289.4	244.0	198.8	181.4	156.9	115.1	83.7	55.8	38.4	27.9
72.5°	261.5	230.1	195.3	160.4	146.4	122.0	94.1	66.3	41.8	27.9	21.0
75°	198.8	174.3	146.4	122.0	108.1	94.1	69.7	48.8	31.3	21.0	13.9
77.5°	136.0	125.6	104.6	83.7	76.7	66.3	45.3	31.3	21.0	13.9	6.9
80°	94.1	83.7	69.7	55.8	48.8	41.8	27.9	21.0	10.5	6.9	3.5
82.5°	59.2	48.8	41.8	34.9	31.3	24.4	17.4	10.5	6.9	3.5	3.5
85°	31.3	27.9	24.4	17.4	17.4	13.9	10.5	6.9	3.5	0.0	0.0
87.5°	17.4	13.9	10.5	6.9	6.9	3.5	3.5	3.5	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):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3647.4	3647.4	3647.4	3647.4	3647.4	3647.4	3647.4	3647.4	3647.4	3647.4	3647.4
2.5°	3668.4	3668.4	3664.8	3706.6	3657.9	3706.6	3682.2	3706.6	3671.8	3668.4	3671.8
5°	3696.1	3706.6	3710.2	3748.4	3703.2	3762.5	3741.5	3762.5	3738.1	3745.0	3755.5
7.5°	3752.0	3769.4	3766.0	3814.7	3769.4	3835.7	3821.7	3853.1	3828.6	3835.7	3849.6
10°	3814.7	3835.7	3839.1	3888.0	3846.1	3926.3	3908.8	3943.7	3922.9	3933.4	3950.8
12.5°	3888.0	3912.4	3915.9	3971.6	3926.3	4010.0	3999.5	4034.4	4017.0	4027.5	4048.4
15°	3943.7	3978.6	3985.7	4041.4	3992.6	4079.8	4072.8	4118.2	4090.2	4107.7	4125.1
17.5°	3971.6	4003.1	4017.0	4069.3	4027.5	4114.6	4107.7	4146.1	4125.1	4142.5	4163.5
20°	3954.2	3992.6	4003.1	4055.4	4013.6	4100.7	4090.2	4128.6	4107.7	4121.6	4142.5
22.5°	3891.4	3929.8	3943.7	3992.6	3954.2	4034.4	4031.0	4065.9	4037.9	4055.4	4072.8
25°	3779.9	3821.7	3828.6	3874.0	3832.2	3915.9	3908.8	3947.2	3926.3	3936.8	3961.1
27.5°	3619.5	3668.4	3678.7	3717.1	3685.8	3755.5	3755.5	3786.8	3762.5	3762.5	3786.8
30°	3427.7	3476.5	3483.4	3514.9	3487.0	3549.7	3553.3	3584.6	3546.2	3567.2	3570.7
32.5°	3194.1	3225.5	3246.3	3274.3	3232.5	3312.7	3302.2	3326.6	3305.7	3305.7	3323.1
35°	2911.6	2950.0	2960.5	2995.4	2960.5	3023.1	3023.1	3037.2	3016.2	3016.2	3044.1
37.5°	2604.8	2632.7	2636.1	2671.0	2643.1	2695.4	2692.0	2702.4	2681.5	2695.4	2695.4
40°	2245.6	2266.5	2273.5	2290.9	2287.5	2325.8	2322.4	2329.3	2318.8	2322.4	2329.3
42.5°	1827.2	1855.0	1869.0	1882.9	1862.1	1914.4	1903.9	1914.4	1910.8	1914.4	1924.9
45°	1346.0	1367.0	1377.3	1380.8	1373.9	1405.2	1429.6	1408.8	1412.2	1405.2	1419.2
47.5°	972.9	976.4	969.3	990.3	972.9	986.9	993.8	997.2	976.4	972.9	986.9
50°	666.0	683.5	659.1	669.5	666.0	679.9	673.0	676.5	655.6	666.0	659.1
52.5°	442.9	439.3	432.4	435.9	429.0	429.0	429.0	435.9	421.9	414.9	408.0
55°	268.5	261.5	247.6	244.0	244.0	247.6	240.6	233.7	233.7	230.1	230.1
57.5°	156.9	146.4	139.4	136.0	129.0	125.6	122.0	122.0	115.1	115.1	115.1
60°	87.2	76.7	69.7	62.8	62.8	59.2	55.8	52.3	52.3	52.3	48.8
62.5°	45.3	38.4	31.3	27.9	27.9	24.4	21.0	21.0	21.0	21.0	17.4
65°	31.3	24.4	21.0	17.4	17.4	13.9	13.9	13.9	13.9	13.9	13.9
67.5°	24.4	21.0	17.4	13.9	13.9	13.9	10.5	10.5	10.5	10.5	10.5
70°	21.0	13.9	13.9	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
72.5°	13.9	13.9	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
75°	10.5	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
77.5°	3.5	3.5	3.5	3.5	3.5	3.5	0.0	0.0	0.0	0.0	0.0
80°	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P685120

CATALOG NUMBER: LX6C60D010 EX6609030 6LCSWLI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3647.4	3647.4	3647.4	3647.4	3647.4	3647.4	3647.4	3647.4
2.5°	3703.2	3699.7	3703.2	3710.2	3696.1	3738.1	3717.1	3738.1
5°	3783.4	3786.8	3790.4	3800.9	3783.4	3835.7	3807.8	3839.1
7.5°	3888.0	3891.4	3895.0	3905.4	3895.0	3947.2	3915.9	3943.7
10°	3996.1	4003.1	4003.1	4020.5	4010.0	4058.8	4037.9	4072.8
12.5°	4097.2	4104.1	4111.2	4121.6	4114.6	4166.9	4149.5	4177.4
15°	4177.4	4191.3	4194.8	4208.7	4201.8	4257.6	4236.6	4264.5
17.5°	4215.8	4229.7	4229.7	4247.1	4240.2	4299.4	4271.5	4302.9
20°	4194.8	4205.3	4208.7	4226.3	4219.2	4278.6	4250.7	4288.9
22.5°	4128.6	4132.0	4135.6	4153.0	4149.5	4201.8	4177.4	4201.8
25°	4006.5	4017.0	4013.6	4027.5	4027.5	4069.3	4041.4	4062.3
27.5°	3832.2	3842.7	3842.7	3860.1	3846.1	3888.0	3860.1	3891.4
30°	3619.5	3630.0	3623.0	3636.9	3623.0	3664.8	3643.8	3654.3
32.5°	3365.0	3365.0	3368.4	3371.9	3365.0	3403.2	3382.4	3403.2
35°	3061.5	3068.5	3072.0	3075.6	3068.5	3096.4	3072.0	3085.9
37.5°	2719.9	2737.3	2733.8	2737.3	2726.8	2761.7	2740.7	2747.8
40°	2353.7	2353.7	2350.2	2357.2	2346.8	2374.7	2360.6	2367.6
42.5°	1928.3	1938.8	1924.9	1942.3	1914.4	1952.7	1938.8	1928.3
45°	1447.2	1433.1	1429.6	1433.1	1422.7	1426.2	1436.7	1429.6
47.5°	986.9	986.9	979.8	969.3	983.3	986.9	972.9	972.9
50°	662.5	662.5	655.6	652.0	659.1	655.6	648.6	659.1
52.5°	421.9	408.0	408.0	414.9	408.0	401.0	411.5	404.4
55°	230.1	223.2	223.2	230.1	223.2	223.2	219.7	226.6
57.5°	111.5	115.1	111.5	111.5	111.5	111.5	108.1	111.5
60°	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8
62.5°	21.0	21.0	17.4	17.4	17.4	17.4	17.4	17.4
65°	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9
67.5°	10.5	10.5	10.5	10.5	10.5	13.9	10.5	10.5
70°	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
72.5°	10.5	10.5	13.9	13.9	13.9	13.9	13.9	13.9
75°	6.9	6.9	6.9	3.5	3.5	3.5	3.5	3.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	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



Report Generated By 670246072 / DESKTOP-50001EG





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















(END OF REPORT)