

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: P684470

Luminaire Tested: **LX6C60D010 EX6C609040 6LCSWH**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P684470
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P252284)
Test Lab: INNOVATION CENTER
Issue Date: 2/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX6C60D010 EX6C609040 6LCSWH
Description: 6 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

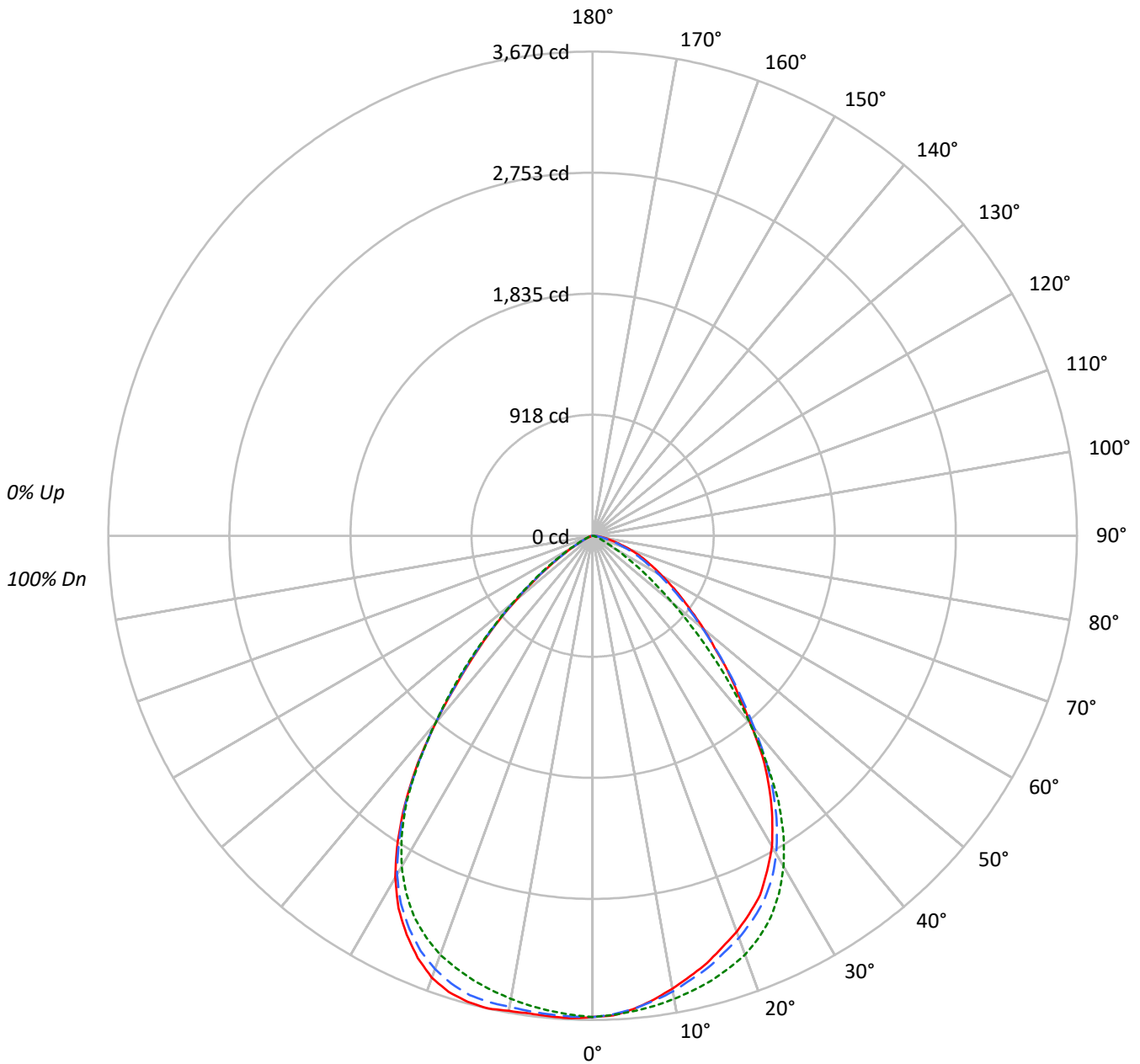
Lumens per Lamp: N/A
Luminaire Lumens: 6120.0 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 72
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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80																			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72																			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64																			
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58																			
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52																			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47																			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43																			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40																			
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	199984	199984	199984
5°	198073	199042	201227
10°	193990	198399	203553
15°	190279	198026	207532
20°	186333	197131	207924
25°	181746	193197	201725
30°	172077	183224	189358
35°	156265	164229	165702
40°	133371	132727	132097
45°	112027	99390	96320
50°	93566	67256	63878
55°	78745	41260	37475
60°	66661	21742	18836
65°	57723	11428	9132
70°	48005	7069	4937
75°	35478	4660	2817
80°	27813	2778	1421
85°	22203	2830	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.8	5.6
10°-20°	984.4	16.1
20°-30°	1453.6	23.8
30°-40°	1498.0	24.5
40°-50°	1034.7	16.9
50°-60°	510.0	8.3
60°-70°	206.6	3.4
70°-80°	73.7	1.2
80°-90°	15.2	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°	2781.7	45.5
0°-40°	4279.8	69.9
0°-60°	5824.4	95.2
0°-90°	6120.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6120.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3648	3648	3648	3648	3648	
5°	3599	3599	3617	3644	3657	340
15°	3353	3388	3489	3604	3657	944
25°	3005	3062	3194	3287	3335	1374
35°	2335	2392	2454	2467	2476	1447
45°	1445	1454	1282	1264	1242	1117
55°	824	793	432	405	392	744
65°	445	401	88	70	70	442
75°	168	141	22	13	13	188
85°	35	26	4	0	0	43
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°	3648.0	3648.0	3648.0	3648.0	3648.0	3648.0	3648.0	3648.0	3648.0	3648.0	3648.0
2.5°	3639.0	3625.9	3634.7	3617.0	3639.0	3617.0	3621.5	3625.9	3621.5	3625.9	3630.2
5°	3599.4	3586.2	3599.4	3577.4	3599.4	3586.2	3586.2	3590.6	3590.6	3594.9	3599.4
7.5°	3546.6	3533.3	3546.6	3524.5	3550.9	3537.8	3537.8	3546.6	3542.1	3546.6	3555.4
10°	3484.9	3467.2	3480.5	3467.2	3493.7	3476.0	3484.9	3484.9	3484.9	3498.0	3507.0
12.5°	3418.8	3401.1	3418.8	3396.8	3423.1	3410.1	3414.4	3427.6	3431.9	3440.9	3445.2
15°	3352.7	3330.7	3339.5	3326.2	3352.7	3339.5	3344.0	3361.5	3361.5	3374.8	3388.0
17.5°	3269.1	3251.3	3269.1	3251.3	3273.4	3264.6	3273.4	3286.6	3286.6	3299.9	3313.0
20°	3194.0	3176.5	3189.7	3176.5	3203.0	3189.7	3194.0	3211.7	3216.1	3229.3	3242.6
22.5°	3101.6	3088.3	3097.1	3084.0	3110.4	3101.6	3106.0	3123.6	3128.1	3136.9	3158.9
25°	3004.7	2978.1	2991.4	2982.6	3009.1	2995.9	3004.7	3022.2	3031.2	3044.2	3062.0
27.5°	2863.7	2850.4	2859.2	2859.2	2881.2	2868.1	2872.4	2890.2	2903.3	2916.5	2938.5
30°	2718.4	2696.3	2705.1	2709.4	2727.2	2718.4	2727.2	2744.7	2749.2	2766.7	2784.3
32.5°	2533.3	2524.4	2542.1	2533.3	2542.1	2542.1	2546.4	2559.7	2568.4	2577.4	2599.4
35°	2335.0	2317.4	2335.0	2326.2	2348.3	2335.0	2348.3	2361.5	2361.5	2379.1	2392.3
37.5°	2119.1	2097.1	2105.9	2105.9	2114.7	2110.3	2110.3	2132.4	2136.7	2149.9	2163.2
40°	1863.7	1854.7	1872.4	1868.0	1872.4	1872.4	1876.7	1890.0	1898.8	1903.3	1907.7
42.5°	1634.5	1638.8	1643.3	1643.3	1643.3	1643.3	1643.3	1660.9	1656.6	1669.8	1674.1
45°	1445.0	1427.4	1436.2	1431.9	1445.0	1431.9	1445.0	1458.3	1449.5	1462.7	1453.8
47.5°	1251.2	1251.2	1251.2	1246.9	1255.6	1251.2	1259.9	1264.4	1264.4	1264.4	1259.9
50°	1097.1	1083.8	1088.1	1088.1	1092.6	1088.1	1097.1	1101.4	1101.4	1092.6	1075.1
52.5°	947.2	942.8	942.8	951.6	951.6	947.2	947.2	947.2	947.2	934.1	925.1
55°	823.9	815.1	819.4	819.4	819.4	819.4	823.9	819.4	819.4	806.2	793.1
57.5°	713.7	704.9	704.9	704.9	709.2	704.9	704.9	704.9	700.5	687.2	669.7
60°	608.0	603.5	608.0	608.0	612.3	608.0	608.0	608.0	599.2	586.0	568.3
62.5°	519.9	519.9	519.9	524.2	524.2	519.9	519.9	515.4	511.1	493.4	475.8
65°	445.0	440.5	445.0	445.0	449.3	449.3	445.0	440.5	436.2	418.5	400.9
67.5°	370.1	365.6	370.1	370.1	374.4	370.1	370.1	370.1	356.9	348.1	330.4
70°	299.5	295.2	295.2	295.2	299.5	290.8	295.2	295.2	286.4	273.2	255.5
72.5°	229.1	229.1	229.1	229.1	229.1	229.1	224.7	224.7	215.9	202.6	193.8
75°	167.5	167.5	171.8	171.8	167.5	167.5	167.5	163.0	158.5	149.8	141.0
77.5°	123.4	123.4	123.4	123.4	119.0	119.0	119.0	114.5	110.2	105.7	96.9
80°	88.1	88.1	88.1	83.7	88.1	83.7	83.7	83.7	74.9	70.4	66.1
82.5°	61.6	57.3	57.3	57.3	57.3	57.3	57.3	52.8	52.8	48.5	44.1
85°	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	30.8	26.5	26.5
87.5°	17.6	22.0	22.0	22.0	22.0	22.0	22.0	17.6	17.6	17.6	13.3
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°	3648.0	3648.0	3648.0	3648.0	3648.0	3648.0	3648.0	3648.0	3648.0	3648.0	3648.0
2.5°	3630.2	3630.2	3639.0	3625.9	3648.0	3634.7	3630.2	3652.3	3639.0	3634.7	3643.5
5°	3599.4	3603.9	3608.2	3599.4	3621.5	3608.2	3608.2	3630.2	3621.5	3617.0	3630.2
7.5°	3559.8	3564.1	3572.9	3568.6	3586.2	3577.4	3581.9	3603.9	3594.9	3594.9	3608.2
10°	3511.3	3520.1	3529.0	3529.0	3550.9	3542.1	3542.1	3568.6	3559.8	3564.1	3581.9
12.5°	3454.0	3467.2	3480.5	3484.9	3507.0	3493.7	3498.0	3529.0	3524.5	3529.0	3546.6
15°	3392.3	3410.1	3423.1	3423.1	3449.7	3436.4	3449.7	3480.5	3471.7	3489.2	3511.3
17.5°	3321.9	3339.5	3357.0	3361.5	3388.0	3379.1	3396.8	3427.6	3427.6	3436.4	3462.9
20°	3255.8	3277.8	3286.6	3299.9	3326.2	3321.9	3330.7	3366.0	3366.0	3379.1	3405.6
22.5°	3167.7	3189.7	3207.3	3220.5	3242.6	3242.6	3255.8	3286.6	3286.6	3295.4	3321.9
25°	3070.8	3097.1	3110.4	3123.6	3145.6	3141.2	3154.4	3180.9	3185.2	3194.0	3220.5
27.5°	2947.3	2969.4	2987.1	2995.9	3026.7	3009.1	3022.2	3053.2	3048.7	3057.5	3079.5
30°	2793.3	2815.3	2832.9	2832.9	2859.2	2859.2	2872.4	2885.7	2885.7	2894.5	2912.2
32.5°	2612.5	2639.0	2639.0	2652.3	2669.8	2652.3	2669.8	2687.4	2678.6	2691.9	2705.1
35°	2405.4	2418.7	2423.1	2423.1	2436.4	2431.9	2427.4	2440.7	2431.9	2454.0	2467.2
37.5°	2154.4	2172.0	2163.2	2172.0	2167.5	2154.4	2154.4	2176.5	2158.7	2163.2	2176.5
40°	1912.0	1912.0	1907.7	1885.7	1890.0	1876.7	1872.4	1876.7	1859.2	1854.7	1872.4
42.5°	1660.9	1656.6	1643.3	1612.5	1616.8	1594.8	1577.2	1577.2	1568.4	1564.0	1568.4
45°	1436.2	1423.0	1400.9	1365.8	1356.9	1339.3	1304.0	1295.2	1282.0	1282.0	1286.5
47.5°	1229.1	1211.6	1176.3	1136.7	1114.7	1092.6	1057.3	1044.1	1022.0	1013.3	1022.0
50°	1057.3	1026.5	982.4	925.1	903.1	876.7	841.5	819.4	797.4	788.6	784.1
52.5°	898.8	854.7	810.6	740.2	722.5	696.2	647.6	625.6	603.5	586.0	586.0
55°	762.1	722.5	660.9	594.8	568.3	541.9	493.4	462.6	440.5	431.7	423.0
57.5°	638.8	594.8	537.4	467.0	440.5	414.2	365.6	334.8	312.8	299.5	290.8
60°	537.4	489.1	431.7	370.1	339.3	312.8	264.4	233.4	211.4	198.3	189.4
62.5°	440.5	400.9	343.6	286.4	259.9	233.4	193.8	163.0	141.0	132.2	119.0
65°	370.1	330.4	277.5	229.1	207.1	180.6	145.5	119.0	101.4	88.1	79.4
67.5°	299.5	268.7	224.7	180.6	158.5	141.0	110.2	88.1	70.4	61.6	57.3
70°	237.9	207.1	171.8	136.5	123.4	105.7	83.7	61.6	52.8	44.1	39.6
72.5°	176.3	154.2	127.7	101.4	88.1	79.4	57.3	48.5	35.3	30.8	26.5
75°	127.7	110.2	92.4	70.4	61.6	57.3	44.1	30.8	26.5	22.0	17.6
77.5°	88.1	79.4	61.6	48.5	44.1	39.6	30.8	22.0	17.6	13.3	13.3
80°	57.3	48.5	39.6	30.8	30.8	26.5	17.6	13.3	13.3	8.8	8.8
82.5°	35.3	30.8	26.5	22.0	17.6	17.6	13.3	8.8	8.8	4.5	4.5
85°	22.0	17.6	13.3	13.3	8.8	8.8	8.8	4.5	4.5	4.5	4.5
87.5°	8.8	8.8	8.8	4.5	4.5	4.5	4.5	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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3648.0	3648.0	3648.0	3648.0	3648.0	3648.0	3648.0	3648.0	3648.0	3648.0	3648.0
2.5°	3643.5	3643.5	3652.3	3639.0	3648.0	3648.0	3656.7	3639.0	3648.0	3652.3	3661.1
5°	3625.9	3630.2	3639.0	3634.7	3639.0	3639.0	3648.0	3625.9	3643.5	3643.5	3656.7
7.5°	3608.2	3608.2	3617.0	3612.7	3621.5	3625.9	3634.7	3617.0	3634.7	3634.7	3648.0
10°	3586.2	3586.2	3599.4	3594.9	3608.2	3612.7	3625.9	3608.2	3625.9	3630.2	3643.5
12.5°	3555.4	3559.8	3572.9	3572.9	3586.2	3594.9	3608.2	3599.4	3621.5	3625.9	3643.5
15°	3520.1	3529.0	3546.6	3542.1	3555.4	3568.6	3586.2	3572.9	3603.9	3612.7	3630.2
17.5°	3476.0	3484.9	3498.0	3498.0	3511.3	3520.1	3542.1	3533.3	3559.8	3564.1	3586.2
20°	3410.1	3423.1	3440.9	3436.4	3449.7	3458.4	3476.0	3467.2	3493.7	3502.5	3524.5
22.5°	3330.7	3339.5	3352.7	3352.7	3366.0	3374.8	3392.3	3379.1	3405.6	3410.1	3427.6
25°	3225.0	3233.8	3242.6	3247.0	3260.1	3264.6	3273.4	3264.6	3286.6	3291.1	3313.0
27.5°	3088.3	3092.8	3106.0	3106.0	3114.8	3119.1	3132.4	3114.8	3145.6	3145.6	3158.9
30°	2925.3	2921.0	2938.5	2929.8	2938.5	2938.5	2951.8	2943.0	2965.1	2956.3	2969.4
32.5°	2709.4	2718.4	2718.4	2709.4	2727.2	2722.7	2722.7	2713.9	2727.2	2731.5	2740.2
35°	2458.4	2471.5	2471.5	2476.0	2480.5	2467.2	2471.5	2445.2	2467.2	2471.5	2476.0
37.5°	2185.2	2172.0	2180.8	2167.5	2189.5	2163.2	2163.2	2145.6	2163.2	2163.2	2167.5
40°	1872.4	1868.0	1876.7	1868.0	1863.7	1859.2	1850.4	1837.2	1854.7	1845.9	1859.2
42.5°	1577.2	1572.7	1572.7	1564.0	1559.6	1559.6	1550.9	1541.9	1537.6	1537.6	1559.6
45°	1273.2	1282.0	1273.2	1268.9	1277.7	1268.9	1273.2	1255.6	1264.4	1255.6	1264.4
47.5°	1017.7	1022.0	1013.3	1004.5	1017.7	1004.5	1004.5	991.2	1009.0	1009.0	1000.0
50°	788.6	784.1	775.4	784.1	779.8	779.8	779.8	766.6	775.4	762.1	771.0
52.5°	581.5	577.2	577.2	572.7	577.2	572.7	572.7	568.3	568.3	564.0	568.3
55°	423.0	418.5	409.7	409.7	409.7	414.2	409.7	405.4	405.4	400.9	405.4
57.5°	286.4	277.5	277.5	277.5	277.5	273.2	273.2	268.7	273.2	268.7	273.2
60°	185.1	185.1	176.3	176.3	176.3	176.3	176.3	171.8	176.3	176.3	176.3
62.5°	114.5	114.5	110.2	105.7	110.2	105.7	105.7	105.7	110.2	105.7	110.2
65°	74.9	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
67.5°	52.8	48.5	48.5	48.5	48.5	48.5	48.5	44.1	48.5	48.5	48.5
70°	35.3	35.3	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8
72.5°	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0
75°	17.6	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
77.5°	13.3	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
80°	8.8	8.8	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
82.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
85°	4.5	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	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
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: P684470

CATALOG NUMBER: LX6C60D010 EX6C609040 6LCSWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3648.0	3648.0	3648.0	3648.0	3648.0	3648.0	3648.0	3648.0
2.5°	3648.0	3652.3	3643.5	3648.0	3639.0	3648.0	3652.3	3661.1
5°	3639.0	3643.5	3634.7	3643.5	3634.7	3643.5	3648.0	3656.7
7.5°	3630.2	3639.0	3630.2	3639.0	3630.2	3639.0	3643.5	3652.3
10°	3630.2	3643.5	3634.7	3648.0	3634.7	3643.5	3652.3	3656.7
12.5°	3630.2	3643.5	3639.0	3648.0	3643.5	3652.3	3661.1	3669.8
15°	3621.5	3634.7	3625.9	3639.0	3634.7	3639.0	3656.7	3656.7
17.5°	3572.9	3586.2	3586.2	3594.9	3594.9	3608.2	3617.0	3625.9
20°	3511.3	3524.5	3520.1	3533.3	3533.3	3546.6	3555.4	3564.1
22.5°	3418.8	3436.4	3431.9	3445.2	3440.9	3449.7	3467.2	3462.9
25°	3299.9	3321.9	3317.4	3326.2	3321.9	3321.9	3330.7	3335.0
27.5°	3154.4	3167.7	3163.2	3172.1	3163.2	3172.1	3180.9	3185.2
30°	2965.1	2973.8	2969.4	2973.8	2969.4	2978.1	2982.6	2991.4
32.5°	2735.9	2749.2	2735.9	2744.7	2740.2	2740.2	2758.0	2749.2
35°	2462.7	2467.2	2471.5	2471.5	2462.7	2467.2	2476.0	2476.0
37.5°	2158.7	2180.8	2154.4	2167.5	2163.2	2163.2	2163.2	2176.5
40°	1841.6	1845.9	1837.2	1837.2	1837.2	1832.7	1850.4	1845.9
42.5°	1541.9	1546.4	1541.9	1528.8	1533.1	1533.1	1546.4	1528.8
45°	1251.2	1259.9	1255.6	1255.6	1246.9	1246.9	1251.2	1242.4
47.5°	991.2	1000.0	986.9	991.2	982.4	991.2	986.9	995.7
50°	753.3	762.1	757.8	762.1	762.1	753.3	766.6	749.0
52.5°	564.0	568.3	564.0	559.5	555.2	555.2	564.0	559.5
55°	400.9	396.5	396.5	396.5	400.9	400.9	396.5	392.1
57.5°	268.7	268.7	264.4	264.4	268.7	259.9	264.4	259.9
60°	171.8	171.8	171.8	171.8	167.5	171.8	171.8	171.8
62.5°	105.7	105.7	105.7	105.7	105.7	105.7	105.7	105.7
65°	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
67.5°	44.1	48.5	48.5	48.5	44.1	44.1	44.1	44.1
70°	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8
72.5°	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0
75°	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
77.5°	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
80°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
82.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.5	4.5	4.5	4.5	4.5	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)