

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: P684456

Luminaire Tested: **LX6C60D010 EX6C609030 6LCSWH**

Issue Date: 2/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P684456  
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 EX6C609030 6LCSWH  
Description: 6 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 6LCSW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

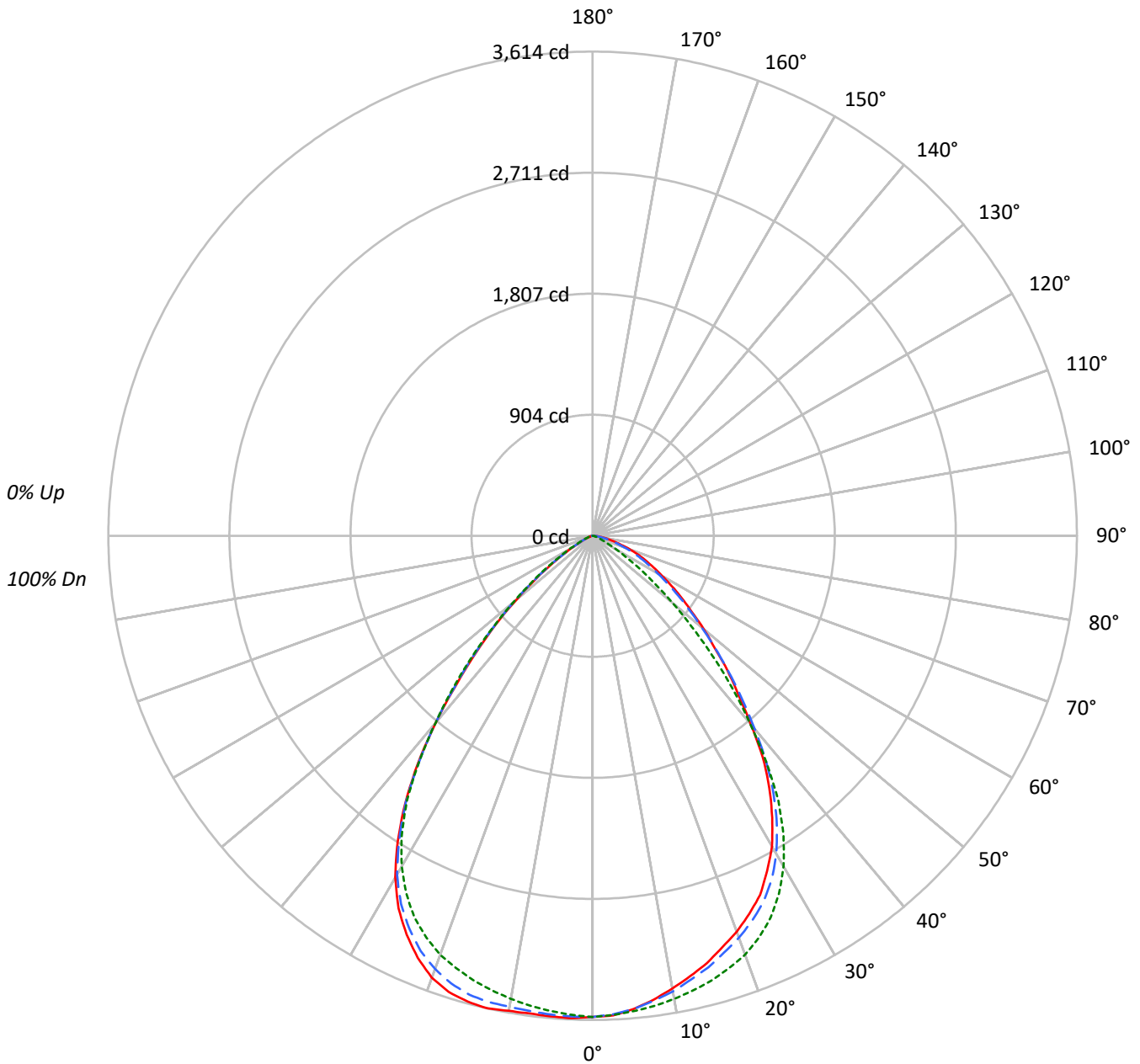
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6026.0 lumens  
Efficiency: N/A  
Efficacy: 83.7 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<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			100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90			90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80			80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72			72
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64			64
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58			58
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			47
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43			43
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40			40
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37			37

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

	0°	90°	180°
0°	196909	196909	196909
5°	195030	195982	198139
10°	191012	195354	200430
15°	187356	194990	204349
20°	183474	194104	204733
25°	178952	190233	198628
30°	169431	180408	186453
35°	153863	161706	163158
40°	131317	130688	130072
45°	110306	97863	94839
50°	92125	66224	62898
55°	77531	40629	36902
60°	65642	21413	18551
65°	56841	11259	8989
70°	47268	6956	4857
75°	34927	4596	2775
80°	27402	2715	1389
85°	21826	2768	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	338.5	5.6
10°-20°	969.3	16.1
20°-30°	1431.3	23.8
30°-40°	1475.0	24.5
40°-50°	1018.8	16.9
50°-60°	502.2	8.3
60°-70°	203.5	3.4
70°-80°	72.5	1.2
80°-90°	15.0	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°	2739.0	45.5
0°-40°	4214.1	69.9
0°-60°	5735.0	95.2
0°-90°	6026.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6026.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3592	3592	3592	3592	3592	
5°	3544	3544	3561	3588	3601	335
15°	3301	3336	3436	3548	3601	929
25°	2958	3015	3145	3236	3284	1353
35°	2299	2356	2416	2429	2438	1425
45°	1423	1432	1262	1245	1223	1100
55°	811	781	425	399	386	733
65°	438	395	87	69	69	435
75°	165	139	22	13	13	185
85°	35	26	4	0	0	42
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°	3591.9	3591.9	3591.9	3591.9	3591.9	3591.9	3591.9	3591.9	3591.9	3591.9	3591.9
2.5°	3583.1	3570.2	3578.9	3561.4	3583.1	3561.4	3565.8	3570.2	3565.8	3570.2	3574.5
5°	3544.1	3531.1	3544.1	3522.4	3544.1	3531.1	3531.1	3535.5	3535.5	3539.7	3544.1
7.5°	3492.1	3479.0	3492.1	3470.4	3496.3	3483.5	3483.5	3492.1	3487.7	3492.1	3500.7
10°	3431.4	3414.0	3427.0	3414.0	3440.1	3422.6	3431.4	3431.4	3431.4	3444.3	3453.1
12.5°	3366.3	3348.9	3366.3	3344.6	3370.6	3357.7	3361.9	3375.0	3379.2	3388.0	3392.3
15°	3301.2	3279.5	3288.2	3275.1	3301.2	3288.2	3292.6	3309.9	3309.9	3322.9	3336.0
17.5°	3218.9	3201.4	3218.9	3201.4	3223.1	3214.5	3223.1	3236.1	3236.1	3249.2	3262.1
20°	3145.0	3127.7	3140.7	3127.7	3153.8	3140.7	3145.0	3162.4	3166.7	3179.7	3192.8
22.5°	3053.9	3040.9	3049.5	3036.6	3062.6	3053.9	3058.3	3075.6	3080.0	3088.7	3110.4
25°	2958.5	2932.4	2945.5	2936.8	2962.9	2949.9	2958.5	2975.8	2984.6	2997.5	3014.9
27.5°	2819.7	2806.6	2815.3	2815.3	2837.0	2824.1	2828.3	2845.8	2858.7	2871.7	2893.4
30°	2676.6	2654.9	2663.6	2667.8	2685.3	2676.6	2685.3	2702.6	2707.0	2724.3	2741.5
32.5°	2494.4	2485.6	2503.0	2494.4	2503.0	2503.0	2507.3	2520.3	2529.0	2537.8	2559.5
35°	2299.1	2281.8	2299.1	2290.5	2312.2	2299.1	2312.2	2325.2	2325.2	2342.5	2355.6
37.5°	2086.6	2064.9	2073.5	2073.5	2082.2	2077.9	2077.9	2099.6	2103.9	2116.9	2130.0
40°	1835.0	1826.2	1843.7	1839.3	1843.7	1843.7	1847.9	1861.0	1869.6	1874.0	1878.4
42.5°	1609.4	1613.7	1618.1	1618.1	1618.1	1618.1	1618.1	1635.4	1631.1	1644.2	1648.4
45°	1422.8	1405.5	1414.2	1409.9	1422.8	1409.9	1422.8	1435.9	1427.2	1440.3	1431.5
47.5°	1231.9	1231.9	1231.9	1227.7	1236.4	1231.9	1240.6	1245.0	1245.0	1245.0	1240.6
50°	1080.2	1067.2	1071.4	1071.4	1075.8	1071.4	1080.2	1084.5	1084.5	1075.8	1058.5
52.5°	932.6	928.4	928.4	937.0	937.0	932.6	932.6	932.6	932.6	919.7	910.9
55°	811.2	802.6	806.8	806.8	806.8	806.8	811.2	806.8	806.8	793.8	780.9
57.5°	702.8	694.1	694.1	694.1	698.4	694.1	694.1	694.1	689.7	676.7	659.4
60°	598.7	594.3	598.7	598.7	602.9	598.7	598.7	598.7	590.0	577.0	559.5
62.5°	511.9	511.9	511.9	516.1	516.1	511.9	511.9	507.5	503.3	485.8	468.5
65°	438.2	433.8	438.2	438.2	442.4	442.4	438.2	433.8	429.5	412.1	394.8
67.5°	364.4	360.0	364.4	364.4	368.7	364.4	364.4	364.4	351.4	342.7	325.3
70°	294.9	290.7	290.7	290.7	294.9	286.3	290.7	290.7	282.0	269.0	251.5
72.5°	225.6	225.6	225.6	225.6	225.6	225.6	221.2	221.2	212.6	199.5	190.9
75°	164.9	164.9	169.2	169.2	164.9	164.9	164.9	160.5	156.1	147.5	138.8
77.5°	121.5	121.5	121.5	121.5	117.1	117.1	117.1	112.7	108.5	104.1	95.4
80°	86.8	86.8	86.8	82.4	86.8	82.4	82.4	82.4	73.7	69.3	65.1
82.5°	60.7	56.4	56.4	56.4	56.4	56.4	56.4	52.0	52.0	47.8	43.4
85°	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	30.3	26.1	26.1
87.5°	17.3	21.7	21.7	21.7	21.7	21.7	21.7	17.3	17.3	17.3	13.1
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°	3591.9	3591.9	3591.9	3591.9	3591.9	3591.9	3591.9	3591.9	3591.9	3591.9	3591.9
2.5°	3574.5	3574.5	3583.1	3570.2	3591.9	3578.9	3574.5	3596.2	3583.1	3578.9	3587.5
5°	3544.1	3548.5	3552.8	3544.1	3565.8	3552.8	3552.8	3574.5	3565.8	3561.4	3574.5
7.5°	3505.1	3509.4	3518.0	3513.8	3531.1	3522.4	3526.8	3548.5	3539.7	3539.7	3552.8
10°	3457.4	3466.0	3474.8	3474.8	3496.3	3487.7	3487.7	3513.8	3505.1	3509.4	3526.8
12.5°	3400.9	3414.0	3427.0	3431.4	3453.1	3440.1	3444.3	3474.8	3470.4	3474.8	3492.1
15°	3340.2	3357.7	3370.6	3370.6	3396.7	3383.6	3396.7	3427.0	3418.4	3435.7	3457.4
17.5°	3270.9	3288.2	3305.5	3309.9	3336.0	3327.2	3344.6	3375.0	3375.0	3383.6	3409.7
20°	3205.8	3227.5	3236.1	3249.2	3275.1	3270.9	3279.5	3314.3	3314.3	3327.2	3353.3
22.5°	3119.0	3140.7	3158.0	3171.1	3192.8	3192.8	3205.8	3236.1	3236.1	3244.8	3270.9
25°	3023.6	3049.5	3062.6	3075.6	3097.3	3092.9	3106.0	3132.1	3136.3	3145.0	3171.1
27.5°	2902.1	2923.8	2941.2	2949.9	2980.2	2962.9	2975.8	3006.3	3001.9	3010.5	3032.2
30°	2750.4	2772.0	2789.3	2789.3	2815.3	2815.3	2828.3	2841.4	2841.4	2850.0	2867.5
32.5°	2572.4	2598.5	2598.5	2611.5	2628.8	2611.5	2628.8	2646.1	2637.5	2650.5	2663.6
35°	2368.5	2381.5	2385.9	2385.9	2399.0	2394.6	2390.2	2403.2	2394.6	2416.3	2429.3
37.5°	2121.3	2138.6	2130.0	2138.6	2134.2	2121.3	2121.3	2143.0	2125.6	2130.0	2143.0
40°	1882.7	1882.7	1878.4	1856.7	1861.0	1847.9	1843.7	1847.9	1830.6	1826.2	1843.7
42.5°	1635.4	1631.1	1618.1	1587.7	1592.0	1570.3	1553.0	1553.0	1544.3	1539.9	1544.3
45°	1414.2	1401.1	1379.4	1344.8	1336.0	1318.7	1284.0	1275.3	1262.3	1262.3	1266.7
47.5°	1210.3	1193.0	1158.2	1119.2	1097.5	1075.8	1041.1	1028.0	1006.3	997.7	1006.3
50°	1041.1	1010.7	967.4	910.9	889.2	863.3	828.5	806.8	785.1	776.5	772.1
52.5°	885.0	841.6	798.2	728.9	711.4	685.5	637.7	616.0	594.3	577.0	577.0
55°	750.4	711.4	650.7	585.6	559.5	533.6	485.8	455.5	433.8	425.1	416.5
57.5°	629.0	585.6	529.2	459.9	433.8	407.8	360.0	329.7	308.0	294.9	286.3
60°	529.2	481.6	425.1	364.4	334.1	308.0	260.4	229.8	208.2	195.3	186.5
62.5°	433.8	394.8	338.3	282.0	255.9	229.8	190.9	160.5	138.8	130.2	117.1
65°	364.4	325.3	273.2	225.6	203.9	177.8	143.2	117.1	99.8	86.8	78.1
67.5°	294.9	264.6	221.2	177.8	156.1	138.8	108.5	86.8	69.3	60.7	56.4
70°	234.3	203.9	169.2	134.4	121.5	104.1	82.4	60.7	52.0	43.4	39.0
72.5°	173.6	151.9	125.8	99.8	86.8	78.1	56.4	47.8	34.7	30.3	26.1
75°	125.8	108.5	91.0	69.3	60.7	56.4	43.4	30.3	26.1	21.7	17.3
77.5°	86.8	78.1	60.7	47.8	43.4	39.0	30.3	21.7	17.3	13.1	13.1
80°	56.4	47.8	39.0	30.3	30.3	26.1	17.3	13.1	13.1	8.6	8.6
82.5°	34.7	30.3	26.1	21.7	17.3	17.3	13.1	8.6	8.6	4.4	4.4
85°	21.7	17.3	13.1	13.1	8.6	8.6	8.6	4.4	4.4	4.4	4.4
87.5°	8.6	8.6	8.6	4.4	4.4	4.4	4.4	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°	3591.9	3591.9	3591.9	3591.9	3591.9	3591.9	3591.9	3591.9	3591.9	3591.9	3591.9
2.5°	3587.5	3587.5	3596.2	3583.1	3591.9	3591.9	3600.6	3583.1	3591.9	3596.2	3604.8
5°	3570.2	3574.5	3583.1	3578.9	3583.1	3583.1	3591.9	3570.2	3587.5	3587.5	3600.6
7.5°	3552.8	3552.8	3561.4	3557.2	3565.8	3570.2	3578.9	3561.4	3578.9	3578.9	3591.9
10°	3531.1	3531.1	3544.1	3539.7	3552.8	3557.2	3570.2	3552.8	3570.2	3574.5	3587.5
12.5°	3500.7	3505.1	3518.0	3518.0	3531.1	3539.7	3552.8	3544.1	3565.8	3570.2	3587.5
15°	3466.0	3474.8	3492.1	3487.7	3500.7	3513.8	3531.1	3518.0	3548.5	3557.2	3574.5
17.5°	3422.6	3431.4	3444.3	3444.3	3457.4	3466.0	3487.7	3479.0	3505.1	3509.4	3531.1
20°	3357.7	3370.6	3388.0	3383.6	3396.7	3405.3	3422.6	3414.0	3440.1	3448.7	3470.4
22.5°	3279.5	3288.2	3301.2	3301.2	3314.3	3322.9	3340.2	3327.2	3353.3	3357.7	3375.0
25°	3175.5	3184.1	3192.8	3197.2	3210.0	3214.5	3223.1	3214.5	3236.1	3240.6	3262.1
27.5°	3040.9	3045.3	3058.3	3058.3	3067.0	3071.2	3084.3	3067.0	3097.3	3097.3	3110.4
30°	2880.4	2876.1	2893.4	2884.8	2893.4	2893.4	2906.5	2897.8	2919.5	2910.9	2923.8
32.5°	2667.8	2676.6	2676.6	2667.8	2685.3	2680.9	2680.9	2672.2	2685.3	2689.5	2698.2
35°	2420.7	2433.6	2433.6	2438.0	2442.4	2429.3	2433.6	2407.6	2429.3	2433.6	2438.0
37.5°	2151.7	2138.6	2147.3	2134.2	2155.9	2130.0	2130.0	2112.7	2130.0	2130.0	2134.2
40°	1843.7	1839.3	1847.9	1839.3	1835.0	1830.6	1822.0	1808.9	1826.2	1817.6	1830.6
42.5°	1553.0	1548.6	1548.6	1539.9	1535.7	1535.7	1527.0	1518.2	1514.0	1514.0	1535.7
45°	1253.6	1262.3	1253.6	1249.4	1258.0	1249.4	1253.6	1236.4	1245.0	1236.4	1245.0
47.5°	1002.1	1006.3	997.7	989.0	1002.1	989.0	989.0	976.0	993.5	993.5	984.6
50°	776.5	772.1	763.4	772.1	767.8	767.8	767.8	754.8	763.4	750.4	759.2
52.5°	572.6	568.3	568.3	563.9	568.3	563.9	563.9	559.5	559.5	555.3	559.5
55°	416.5	412.1	403.4	403.4	403.4	407.8	403.4	399.2	399.2	394.8	399.2
57.5°	282.0	273.2	273.2	273.2	273.2	269.0	269.0	264.6	269.0	264.6	269.0
60°	182.2	182.2	173.6	173.6	173.6	173.6	173.6	169.2	173.6	173.6	173.6
62.5°	112.7	112.7	108.5	104.1	108.5	104.1	104.1	104.1	108.5	104.1	108.5
65°	73.7	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
67.5°	52.0	47.8	47.8	47.8	47.8	47.8	47.8	43.4	47.8	47.8	47.8
70°	34.7	34.7	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3
72.5°	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7
75°	17.3	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1
77.5°	13.1	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
80°	8.6	8.6	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
82.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
85°	4.4	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	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
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: P684456

CATALOG NUMBER: LX6C60D010 EX6C609030 6LCSWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3591.9	3591.9	3591.9	3591.9	3591.9	3591.9	3591.9	3591.9
2.5°	3591.9	3596.2	3587.5	3591.9	3583.1	3591.9	3596.2	3604.8
5°	3583.1	3587.5	3578.9	3587.5	3578.9	3587.5	3591.9	3600.6
7.5°	3574.5	3583.1	3574.5	3583.1	3574.5	3583.1	3587.5	3596.2
10°	3574.5	3587.5	3578.9	3591.9	3578.9	3587.5	3596.2	3600.6
12.5°	3574.5	3587.5	3583.1	3591.9	3587.5	3596.2	3604.8	3613.5
15°	3565.8	3578.9	3570.2	3583.1	3578.9	3583.1	3600.6	3600.6
17.5°	3518.0	3531.1	3531.1	3539.7	3539.7	3552.8	3561.4	3570.2
20°	3457.4	3470.4	3466.0	3479.0	3479.0	3492.1	3500.7	3509.4
22.5°	3366.3	3383.6	3379.2	3392.3	3388.0	3396.7	3414.0	3409.7
25°	3249.2	3270.9	3266.5	3275.1	3270.9	3270.9	3279.5	3283.8
27.5°	3106.0	3119.0	3114.6	3123.4	3114.6	3123.4	3132.1	3136.3
30°	2919.5	2928.2	2923.8	2928.2	2923.8	2932.4	2936.8	2945.5
32.5°	2693.9	2707.0	2693.9	2702.6	2698.2	2698.2	2715.6	2707.0
35°	2424.9	2429.3	2433.6	2433.6	2424.9	2429.3	2438.0	2438.0
37.5°	2125.6	2147.3	2121.3	2134.2	2130.0	2130.0	2130.0	2143.0
40°	1813.3	1817.6	1808.9	1808.9	1808.9	1804.5	1822.0	1817.6
42.5°	1518.2	1522.6	1518.2	1505.4	1509.6	1509.6	1522.6	1505.4
45°	1231.9	1240.6	1236.4	1236.4	1227.7	1227.7	1231.9	1223.3
47.5°	976.0	984.6	971.8	976.0	967.4	976.0	971.8	980.4
50°	741.7	750.4	746.2	750.4	750.4	741.7	754.8	737.5
52.5°	555.3	559.5	555.3	550.9	546.6	546.6	555.3	550.9
55°	394.8	390.4	390.4	390.4	394.8	394.8	390.4	386.1
57.5°	264.6	264.6	260.4	260.4	264.6	255.9	260.4	255.9
60°	169.2	169.2	169.2	169.2	164.9	169.2	169.2	169.2
62.5°	104.1	104.1	104.1	104.1	104.1	104.1	104.1	104.1
65°	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
67.5°	43.4	47.8	47.8	47.8	43.4	43.4	43.4	43.4
70°	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3
72.5°	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7
75°	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1
77.5°	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
80°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
82.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.4	4.4	4.4	4.4	4.4	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)