

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: P685135

Luminaire Tested: **LX6C60D010 EX6609050 6LCSWLI**

Issue Date: 2/15/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P685135  
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 EX6609050 6LCSWLI  
Description: 6 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 6LCSW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

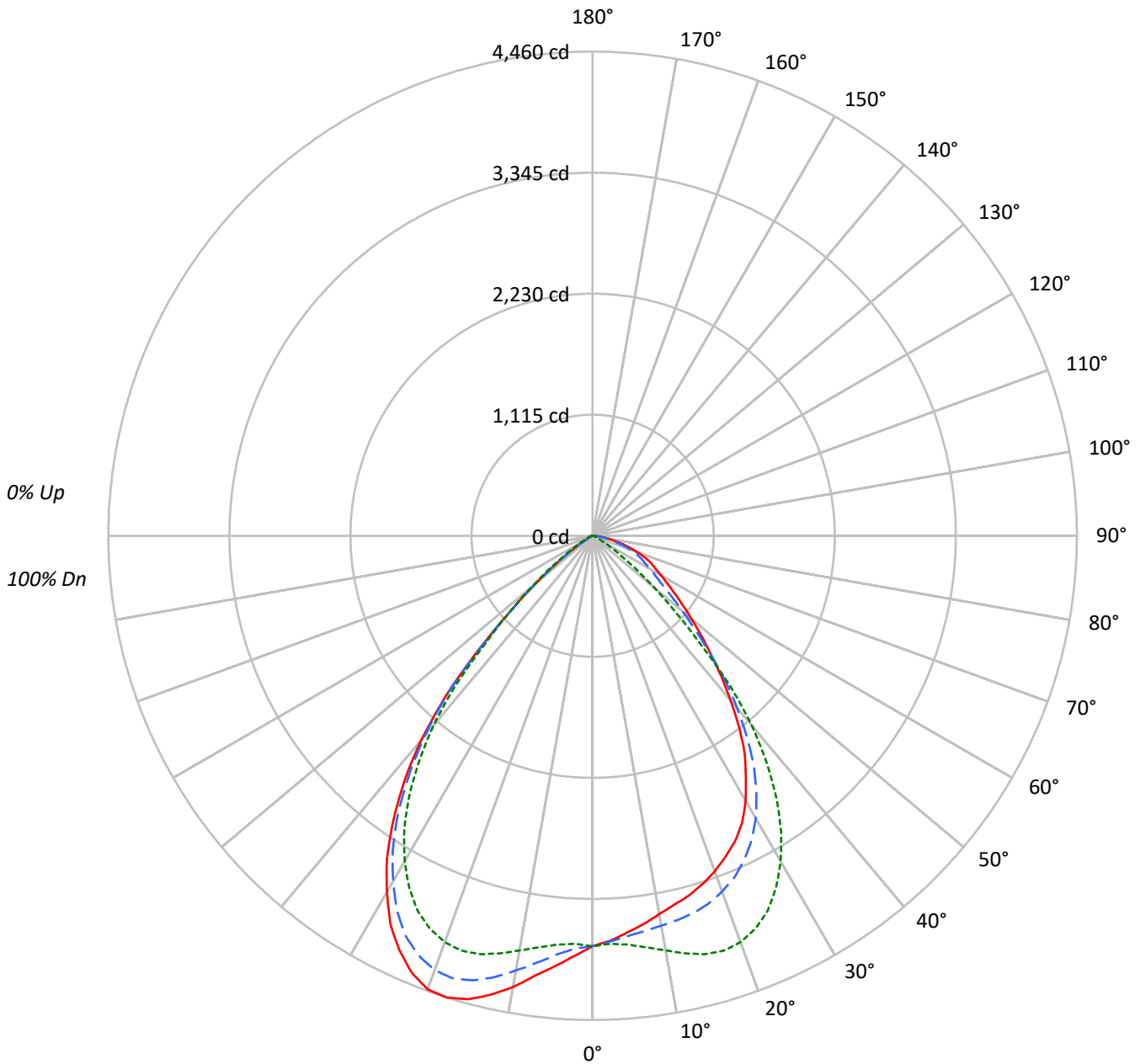
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6910.0 lumens  
Efficiency: N/A  
Efficacy: 96.0 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°	207237	207237	207237
5°	201865	208028	218968
10°	196951	215867	234982
15°	194649	226443	250853
20°	191858	232344	259326
25°	187783	230626	254676
30°	178445	219167	239752
35°	163259	197604	214047
40°	141215	163191	175608
45°	119082	107034	114872
50°	101097	61960	58258
55°	87739	29705	22451
60°	79248	13870	5537
65°	76882	7965	1868
70°	68938	6379	1747
75°	56659	4596	784
80°	42209	2273	0
85°	36419	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	365.1	5.3
10°-20°	1112.8	16.1
20°-30°	1700.3	24.6
30°-40°	1778.4	25.7
40°-50°	1153.6	16.7
50°-60°	458.1	6.6
60°-70°	217.3	3.1
70°-80°	103.3	1.5
80°-90°	21.1	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°	3178.3	46.0
0°-40°	4956.6	71.7
0°-60°	6568.3	95.1
0°-90°	6910.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6910.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3780	3780	3780	3780	3780	
5°	3668	3701	3780	3874	3979	346
15°	3430	3596	3990	4239	4420	967
25°	3104	3300	3813	4069	4210	1422
35°	2440	2588	2953	3126	3198	1509
45°	1536	1522	1381	1464	1482	1195
55°	918	781	311	242	235	832
65°	593	492	61	14	14	579
75°	268	217	22	7	4	288
85°	58	36	0	0	0	67
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°	3780.3	3780.3	3780.3	3780.3	3780.3	3780.3	3780.3	3780.3	3780.3	3780.3	3780.3
2.5°	3733.3	3740.5	3700.9	3690.0	3718.9	3729.7	3733.3	3722.5	3726.1	3740.5	3740.5
5°	3668.3	3675.5	3639.3	3628.5	3657.4	3664.7	3675.5	3671.9	3682.8	3704.4	3700.9
7.5°	3606.9	3617.7	3577.9	3563.5	3599.7	3617.7	3624.9	3624.9	3639.3	3668.3	3671.9
10°	3538.1	3552.7	3516.5	3509.2	3549.0	3567.1	3570.7	3577.9	3599.7	3639.3	3646.5
12.5°	3480.4	3494.8	3469.5	3458.7	3502.0	3520.1	3527.3	3541.8	3567.1	3617.7	3624.9
15°	3429.7	3440.6	3411.7	3404.5	3447.8	3469.5	3473.1	3494.8	3527.3	3585.1	3596.0
17.5°	3364.7	3371.9	3350.3	3343.1	3386.4	3408.0	3411.7	3436.9	3476.7	3534.6	3552.7
20°	3288.7	3296.1	3274.3	3267.1	3310.5	3335.7	3339.4	3361.1	3408.0	3469.5	3487.6
22.5°	3198.4	3212.9	3187.7	3180.3	3223.8	3245.4	3256.3	3274.3	3321.3	3382.7	3408.0
25°	3104.5	3104.5	3086.5	3082.8	3122.6	3147.9	3144.2	3169.5	3216.5	3278.0	3299.6
27.5°	2981.6	2977.9	2959.9	2956.3	2999.7	3021.4	3014.1	3039.5	3082.8	3144.2	3165.9
30°	2819.0	2826.2	2800.9	2793.6	2829.9	2866.0	2862.3	2887.6	2930.9	2988.8	3003.3
32.5°	2623.8	2631.0	2627.5	2616.6	2649.1	2667.1	2678.0	2696.1	2732.2	2793.6	2808.1
35°	2439.5	2428.6	2414.2	2414.2	2446.7	2475.6	2464.8	2486.5	2522.6	2584.0	2587.7
37.5°	2211.8	2208.2	2201.0	2193.8	2229.9	2237.1	2240.8	2255.2	2287.8	2338.3	2331.1
40°	1973.3	1976.8	1973.3	1958.8	1980.5	2009.4	2005.8	2013.1	2041.9	2078.0	2067.3
42.5°	1749.2	1749.2	1749.2	1734.8	1760.0	1774.6	1781.8	1778.1	1785.3	1817.9	1803.4
45°	1536.0	1539.6	1536.0	1532.4	1536.0	1543.2	1536.0	1532.4	1532.4	1543.2	1521.5
47.5°	1351.7	1351.7	1340.8	1330.0	1340.8	1344.4	1333.6	1322.8	1319.1	1315.6	1279.4
50°	1185.4	1181.8	1178.2	1160.2	1170.9	1174.6	1160.2	1152.8	1138.4	1120.4	1077.0
52.5°	1040.9	1037.2	1033.6	1015.5	1022.8	1026.4	1012.0	997.4	979.4	965.0	910.8
55°	918.0	914.3	914.3	903.6	896.2	903.6	889.0	878.2	852.9	834.9	780.7
57.5°	813.1	813.1	805.9	795.1	798.7	798.7	784.3	769.8	748.1	726.5	683.1
60°	722.8	722.8	722.8	711.9	711.9	711.9	704.7	690.3	672.3	650.5	607.2
62.5°	650.5	650.5	646.9	636.1	639.7	639.7	632.5	618.1	600.0	585.5	542.1
65°	592.7	592.7	592.7	581.9	581.9	585.5	578.3	563.9	549.3	531.3	491.5
67.5°	520.4	516.9	516.9	509.5	513.2	516.9	509.5	498.8	480.7	469.9	433.7
70°	430.1	433.7	437.3	426.5	430.1	430.1	426.5	415.7	404.8	393.9	361.5
72.5°	350.6	350.6	346.9	343.4	343.4	346.9	339.7	328.9	321.7	314.5	289.1
75°	267.5	263.8	267.5	260.3	260.3	260.3	252.9	249.4	245.7	234.9	216.8
77.5°	195.2	191.5	191.5	184.3	188.0	188.0	184.3	177.1	169.8	166.3	151.7
80°	133.7	133.7	133.7	130.1	130.1	126.5	126.5	122.9	115.6	112.1	104.9
82.5°	90.3	90.3	90.3	86.8	86.8	86.8	83.1	79.5	75.9	72.3	65.1
85°	57.9	57.9	57.9	54.2	54.2	54.2	50.5	50.5	47.0	43.3	36.1
87.5°	32.5	32.5	32.5	28.9	28.9	28.9	28.9	28.9	25.3	21.7	18.1
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°	3780.3	3780.3	3780.3	3780.3	3780.3	3780.3	3780.3	3780.3	3780.3	3780.3	3780.3
2.5°	3765.8	3715.3	3747.7	3747.7	3737.0	3765.8	3784.0	3798.4	3794.7	3762.3	3758.6
5°	3737.0	3693.5	3729.7	3733.3	3722.5	3762.3	3787.5	3805.6	3809.3	3780.3	3784.0
7.5°	3715.3	3679.1	3726.1	3740.5	3737.0	3773.1	3802.1	3830.9	3845.4	3823.7	3827.3
10°	3704.4	3675.5	3726.1	3747.7	3751.4	3791.2	3834.5	3874.3	3892.4	3877.9	3888.7
12.5°	3690.0	3671.9	3729.7	3762.3	3776.7	3816.5	3870.7	3917.7	3946.6	3939.4	3961.0
15°	3675.5	3661.1	3729.7	3776.7	3794.7	3830.9	3892.4	3961.0	3993.6	3989.9	4018.9
17.5°	3639.3	3635.8	3708.1	3758.6	3784.0	3827.3	3885.1	3968.2	4000.8	4008.0	4044.1
20°	3581.6	3581.6	3661.1	3715.3	3744.2	3784.0	3856.3	3935.7	3975.5	3982.7	4022.5
22.5°	3502.0	3509.2	3585.1	3639.3	3682.8	3711.6	3787.5	3870.7	3906.8	3917.7	3961.0
25°	3397.3	3404.5	3476.7	3530.9	3577.9	3610.4	3682.8	3758.6	3802.1	3812.8	3845.4
27.5°	3259.9	3274.3	3343.1	3397.3	3436.9	3458.7	3534.6	3614.1	3646.5	3657.4	3690.0
30°	3100.9	3104.5	3173.1	3220.1	3259.9	3278.0	3343.1	3426.2	3451.5	3462.3	3509.2
32.5°	2905.7	2902.1	2967.2	3010.5	3043.0	3064.7	3133.3	3187.7	3212.9	3231.0	3256.3
35°	2670.8	2667.1	2714.1	2764.8	2790.1	2797.3	2866.0	2923.7	2938.3	2952.7	2985.3
37.5°	2407.0	2407.0	2446.7	2472.1	2500.9	2511.8	2544.4	2609.4	2634.7	2631.0	2656.3
40°	2128.7	2114.3	2143.1	2168.5	2175.7	2179.2	2211.8	2262.4	2280.4	2280.4	2298.5
42.5°	1836.0	1814.2	1817.9	1832.3	1839.5	1814.2	1836.0	1868.4	1857.6	1872.1	1875.8
45°	1525.2	1492.6	1478.2	1445.6	1452.9	1427.5	1413.1	1420.3	1416.8	1380.6	1387.8
47.5°	1272.1	1214.4	1189.0	1142.1	1131.2	1102.3	1084.2	1051.6	1022.8	1022.8	1004.6
50°	1059.0	1001.1	950.4	896.2	878.2	852.9	813.1	769.8	748.1	726.5	708.4
52.5°	889.0	827.7	766.1	708.4	683.1	650.5	596.3	553.0	513.2	491.5	469.9
55°	751.7	683.1	618.1	556.5	524.1	491.5	437.3	386.7	339.7	310.8	292.7
57.5°	646.9	581.9	513.2	448.1	419.2	383.1	325.3	271.0	227.7	195.2	177.1
60°	571.1	506.0	444.6	375.9	346.9	310.8	249.4	198.7	155.4	126.5	104.9
62.5°	506.0	448.1	383.1	321.7	292.7	256.6	198.7	148.2	108.4	79.5	61.4
65°	459.0	401.1	346.9	285.5	260.3	224.1	169.8	122.9	86.8	61.4	43.3
67.5°	404.8	354.1	299.9	249.4	224.1	195.2	144.5	104.9	72.3	50.5	36.1
70°	339.7	299.9	252.9	206.1	188.0	162.6	119.3	86.8	57.9	39.8	28.9
72.5°	271.0	238.5	202.4	166.3	151.7	126.5	97.5	68.7	43.3	28.9	21.7
75°	206.1	180.7	151.7	126.5	112.1	97.5	72.3	50.5	32.5	21.7	14.4
77.5°	141.0	130.1	108.4	86.8	79.5	68.7	47.0	32.5	21.7	14.4	7.2
80°	97.5	86.8	72.3	57.9	50.5	43.3	28.9	21.7	10.9	7.2	3.7
82.5°	61.4	50.5	43.3	36.1	32.5	25.3	18.1	10.9	7.2	3.7	3.7
85°	32.5	28.9	25.3	18.1	18.1	14.4	10.9	7.2	3.7	0.0	0.0
87.5°	18.1	14.4	10.9	7.2	7.2	3.7	3.7	3.7	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°	3780.3	3780.3	3780.3	3780.3	3780.3	3780.3	3780.3	3780.3	3780.3	3780.3	3780.3
2.5°	3802.1	3802.1	3798.4	3841.7	3791.2	3841.7	3816.5	3841.7	3805.6	3802.1	3805.6
5°	3830.9	3841.7	3845.4	3885.1	3838.2	3899.6	3877.9	3899.6	3874.3	3881.5	3892.4
7.5°	3888.7	3906.8	3903.3	3953.8	3906.8	3975.5	3961.0	3993.6	3968.2	3975.5	3989.9
10°	3953.8	3975.5	3979.1	4029.7	3986.3	4069.4	4051.3	4087.5	4065.9	4076.7	4094.8
12.5°	4029.7	4055.0	4058.7	4116.4	4069.4	4156.2	4145.3	4181.5	4163.4	4174.3	4196.0
15°	4087.5	4123.6	4130.9	4188.7	4138.1	4228.5	4221.3	4268.3	4239.3	4257.4	4275.4
17.5°	4116.4	4149.0	4163.4	4217.6	4174.3	4264.6	4257.4	4297.2	4275.4	4293.5	4315.2
20°	4098.3	4138.1	4149.0	4203.2	4159.9	4250.2	4239.3	4279.1	4257.4	4271.8	4293.5
22.5°	4033.3	4073.1	4087.5	4138.1	4098.3	4181.5	4177.9	4214.1	4185.1	4203.2	4221.3
25°	3917.7	3961.0	3968.2	4015.2	3971.9	4058.7	4051.3	4091.1	4069.4	4080.3	4105.5
27.5°	3751.4	3802.1	3812.8	3852.6	3820.1	3892.4	3892.4	3924.9	3899.6	3899.6	3924.9
30°	3552.7	3603.2	3610.4	3643.0	3614.1	3679.1	3682.8	3715.3	3675.5	3697.2	3700.9
32.5°	3310.5	3343.1	3364.7	3393.6	3350.3	3433.4	3422.5	3447.8	3426.2	3426.2	3444.3
35°	3017.7	3057.5	3068.4	3104.5	3068.4	3133.3	3133.3	3147.9	3126.1	3126.1	3155.1
37.5°	2699.7	2728.7	2732.2	2768.3	2739.4	2793.6	2790.1	2800.9	2779.2	2793.6	2793.6
40°	2327.4	2349.2	2356.4	2374.4	2370.9	2410.6	2407.0	2414.2	2403.4	2407.0	2414.2
42.5°	1893.8	1922.6	1937.2	1951.6	1930.0	1984.2	1973.3	1984.2	1980.5	1984.2	1995.0
45°	1395.0	1416.8	1427.5	1431.2	1424.0	1456.4	1481.7	1460.1	1463.6	1456.4	1471.0
47.5°	1008.3	1012.0	1004.6	1026.4	1008.3	1022.8	1030.0	1033.6	1012.0	1008.3	1022.8
50°	690.3	708.4	683.1	693.9	690.3	704.7	697.5	701.2	679.5	690.3	683.1
52.5°	459.0	455.3	448.1	451.8	444.6	444.6	444.6	451.8	437.3	430.1	422.9
55°	278.3	271.0	256.6	252.9	252.9	256.6	249.4	242.2	242.2	238.5	238.5
57.5°	162.6	151.7	144.5	141.0	133.7	130.1	126.5	126.5	119.3	119.3	119.3
60°	90.3	79.5	72.3	65.1	65.1	61.4	57.9	54.2	54.2	54.2	50.5
62.5°	47.0	39.8	32.5	28.9	28.9	25.3	21.7	21.7	21.7	21.7	18.1
65°	32.5	25.3	21.7	18.1	18.1	14.4	14.4	14.4	14.4	14.4	14.4
67.5°	25.3	21.7	18.1	14.4	14.4	14.4	10.9	10.9	10.9	10.9	10.9
70°	21.7	14.4	14.4	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9
72.5°	14.4	14.4	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9
75°	10.9	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
77.5°	3.7	3.7	3.7	3.7	3.7	3.7	0.0	0.0	0.0	0.0	0.0
80°	3.7	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: P685135

CATALOG NUMBER: LX6C60D010 EX6609050 6LCSWLI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3780.3	3780.3	3780.3	3780.3	3780.3	3780.3	3780.3	3780.3
2.5°	3838.2	3834.5	3838.2	3845.4	3830.9	3874.3	3852.6	3874.3
5°	3921.3	3924.9	3928.5	3939.4	3921.3	3975.5	3946.6	3979.1
7.5°	4029.7	4033.3	4036.9	4047.8	4036.9	4091.1	4058.7	4087.5
10°	4141.8	4149.0	4149.0	4167.1	4156.2	4206.7	4185.1	4221.3
12.5°	4246.5	4253.7	4261.1	4271.8	4264.6	4318.8	4300.7	4329.6
15°	4329.6	4344.0	4347.7	4362.1	4354.9	4412.8	4391.0	4420.0
17.5°	4369.4	4383.8	4383.8	4401.9	4394.7	4456.1	4427.2	4459.8
20°	4347.7	4358.6	4362.1	4380.3	4373.0	4434.5	4405.6	4445.2
22.5°	4279.1	4282.6	4286.3	4304.4	4300.7	4354.9	4329.6	4354.9
25°	4152.5	4163.4	4159.9	4174.3	4174.3	4217.6	4188.7	4210.4
27.5°	3971.9	3982.7	3982.7	4000.8	3986.3	4029.7	4000.8	4033.3
30°	3751.4	3762.3	3755.1	3769.5	3755.1	3798.4	3776.7	3787.5
32.5°	3487.6	3487.6	3491.1	3494.8	3487.6	3527.3	3505.7	3527.3
35°	3173.1	3180.3	3184.0	3187.7	3180.3	3209.3	3184.0	3198.4
37.5°	2819.0	2837.1	2833.4	2837.1	2826.2	2862.3	2840.6	2847.9
40°	2439.5	2439.5	2435.8	2443.2	2432.3	2461.2	2446.7	2453.9
42.5°	1998.6	2009.4	1995.0	2013.1	1984.2	2023.8	2009.4	1998.6
45°	1499.9	1485.4	1481.7	1485.4	1474.5	1478.2	1489.0	1481.7
47.5°	1022.8	1022.8	1015.5	1004.6	1019.2	1022.8	1008.3	1008.3
50°	686.7	686.7	679.5	675.8	683.1	679.5	672.3	683.1
52.5°	437.3	422.9	422.9	430.1	422.9	415.7	426.5	419.2
55°	238.5	231.3	231.3	238.5	231.3	231.3	227.7	234.9
57.5°	115.6	119.3	115.6	115.6	115.6	115.6	112.1	115.6
60°	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5
62.5°	21.7	21.7	18.1	18.1	18.1	18.1	18.1	18.1
65°	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4
67.5°	10.9	10.9	10.9	10.9	10.9	14.4	10.9	10.9
70°	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9
72.5°	10.9	10.9	14.4	14.4	14.4	14.4	14.4	14.4
75°	7.2	7.2	7.2	3.7	3.7	3.7	3.7	3.7
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)