

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: P685170

Luminaire Tested: **LX6C70D010 EX6709030 6LCSWLI**

Issue Date: 2/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P685170  
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: LX6C70D010 EX6709030 6LCSWLI  
Description: 6 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 6LCSW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

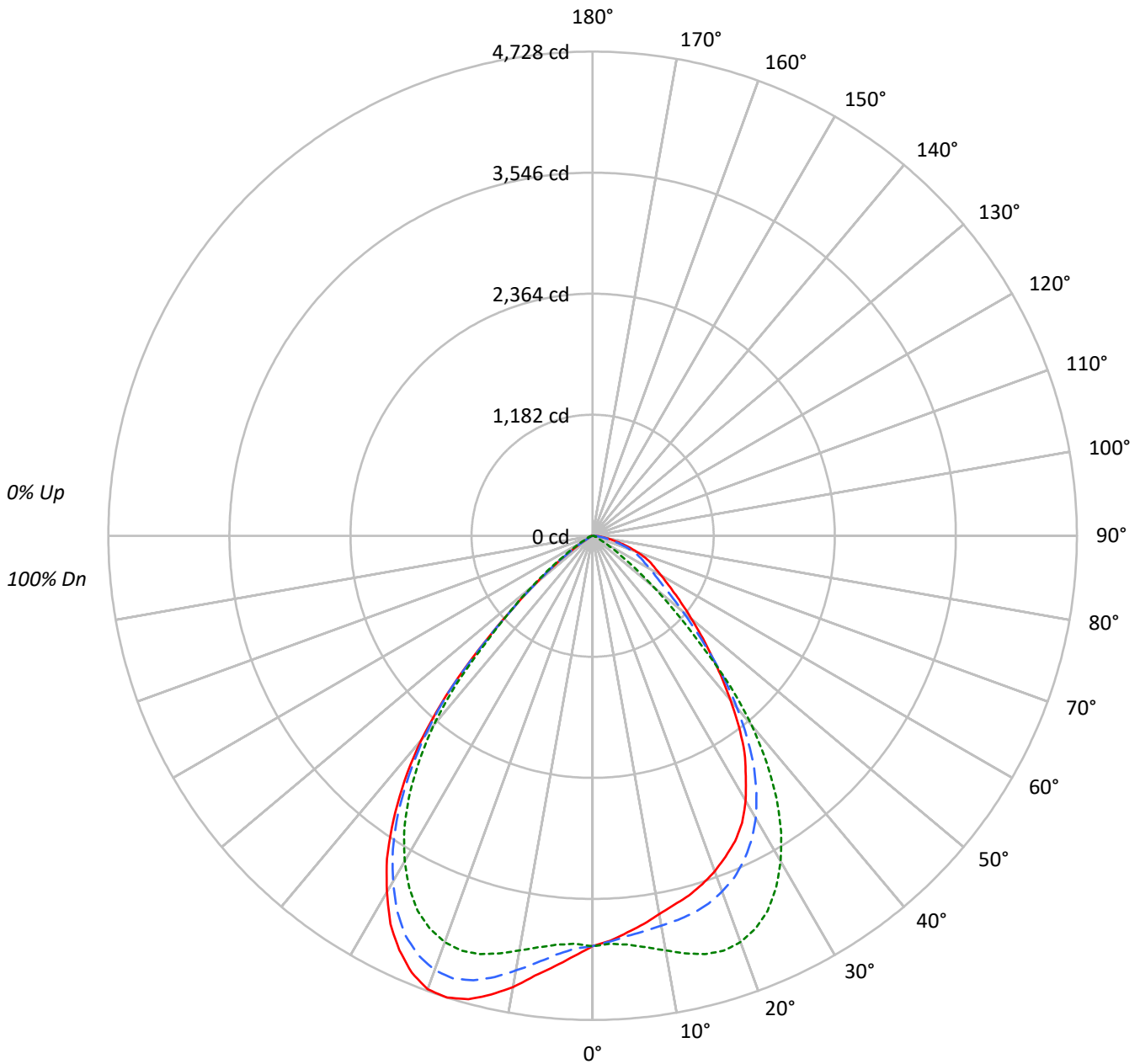
Lumens per Lamp: N/A  
Luminaire Lumens: 7325.0 lumens  
Efficiency: N/A  
Efficacy: 93.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 78  
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°	219686	219686	219686
5°	213988	220526	232115
10°	208780	228831	249094
15°	206341	240041	265915
20°	203379	246299	274902
25°	199064	244478	269973
30°	189162	232333	254153
35°	173063	209469	226903
40°	149695	172996	186156
45°	126238	113469	121772
50°	107169	65678	61755
55°	93005	31492	23798
60°	84006	14703	5877
65°	81487	8444	1985
70°	73073	6764	1843
75°	60048	4872	826
80°	44734	2399	0
85°	38557	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	387.1	5.3
10°-20°	1179.7	16.1
20°-30°	1802.4	24.6
30°-40°	1885.2	25.7
40°-50°	1222.9	16.7
50°-60°	485.6	6.6
60°-70°	230.3	3.1
70°-80°	109.5	1.5
80°-90°	22.3	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°	3369.1	46.0
0°-40°	5254.3	71.7
0°-60°	6962.8	95.1
0°-90°	7325.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7325.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4007	4007	4007	4007	4007	
5°	3889	3923	4007	4107	4218	367
15°	3636	3812	4230	4494	4685	1025
25°	3291	3498	4042	4314	4463	1507
35°	2586	2743	3130	3314	3390	1599
45°	1628	1613	1464	1552	1571	1267
55°	973	828	330	257	249	882
65°	628	521	65	15	15	614
75°	284	230	23	8	4	306
85°	61	38	0	0	0	71
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°	4007.4	4007.4	4007.4	4007.4	4007.4	4007.4	4007.4	4007.4	4007.4	4007.4	4007.4
2.5°	3957.5	3965.2	3923.1	3911.6	3942.3	3953.7	3957.5	3946.0	3949.9	3965.2	3965.2
5°	3888.6	3896.2	3857.9	3846.4	3877.0	3884.8	3896.2	3892.5	3904.0	3926.9	3923.1
7.5°	3823.5	3835.0	3792.8	3777.5	3815.9	3835.0	3842.6	3842.6	3857.9	3888.6	3892.5
10°	3750.6	3766.0	3727.7	3720.0	3762.1	3781.3	3785.2	3792.8	3815.9	3857.9	3865.5
12.5°	3689.4	3704.7	3677.9	3666.4	3712.3	3731.5	3739.1	3754.5	3781.3	3835.0	3842.6
15°	3635.7	3647.2	3616.6	3608.9	3654.9	3677.9	3681.6	3704.7	3739.1	3800.4	3812.0
17.5°	3566.7	3574.4	3551.5	3543.8	3589.8	3612.7	3616.6	3643.3	3685.5	3746.9	3766.0
20°	3486.2	3494.0	3471.0	3463.4	3509.3	3536.1	3540.0	3563.0	3612.7	3677.9	3697.1
22.5°	3390.5	3405.9	3379.1	3371.3	3417.4	3440.3	3451.8	3471.0	3520.8	3585.9	3612.7
25°	3291.0	3291.0	3271.8	3268.0	3310.1	3336.9	3333.0	3359.8	3409.6	3474.9	3497.8
27.5°	3160.7	3156.8	3137.6	3133.9	3179.8	3202.9	3195.1	3222.0	3268.0	3333.0	3356.1
30°	2988.3	2995.9	2969.2	2961.4	2999.8	3038.1	3034.3	3061.0	3107.0	3168.3	3183.7
32.5°	2781.4	2789.0	2785.3	2773.8	2808.2	2827.3	2838.8	2858.0	2896.3	2961.4	2976.8
35°	2586.0	2574.5	2559.2	2559.2	2593.6	2624.3	2612.8	2635.8	2674.1	2739.2	2743.1
37.5°	2344.7	2340.8	2333.1	2325.5	2363.8	2371.4	2375.3	2390.6	2425.2	2478.7	2471.1
40°	2091.8	2095.6	2091.8	2076.4	2099.4	2130.1	2126.2	2134.0	2164.5	2202.8	2191.5
42.5°	1854.2	1854.2	1854.2	1839.0	1865.7	1881.1	1888.8	1884.9	1892.5	1927.1	1911.7
45°	1628.3	1632.0	1628.3	1624.4	1628.3	1635.9	1628.3	1624.4	1624.4	1635.9	1612.9
47.5°	1432.9	1432.9	1421.4	1409.8	1421.4	1425.1	1413.7	1402.2	1398.3	1394.6	1356.3
50°	1256.6	1252.8	1249.0	1229.9	1241.2	1245.1	1229.9	1222.1	1206.8	1187.7	1141.7
52.5°	1103.4	1099.5	1095.7	1076.5	1084.3	1088.0	1072.8	1057.4	1038.2	1022.9	965.5
55°	973.1	969.2	969.2	957.9	950.1	957.9	942.4	930.9	904.1	885.0	827.5
57.5°	862.0	862.0	854.3	842.8	846.7	846.7	831.4	816.0	793.0	770.1	724.1
60°	766.2	766.2	766.2	754.7	754.7	754.7	747.0	731.8	712.6	689.6	643.7
62.5°	689.6	689.6	685.7	674.3	678.1	678.1	670.4	655.2	636.0	620.6	574.7
65°	628.2	628.2	628.2	616.9	616.9	620.6	613.0	597.7	582.3	563.2	521.0
67.5°	551.6	547.9	547.9	540.1	544.0	547.9	540.1	528.7	509.6	498.1	459.8
70°	455.9	459.8	463.5	452.1	455.9	455.9	452.1	440.6	429.1	417.6	383.2
72.5°	371.6	371.6	367.8	364.0	364.0	367.8	360.1	348.6	341.0	333.3	306.4
75°	283.5	279.6	283.5	275.9	275.9	275.9	268.1	264.4	260.5	249.0	229.8
77.5°	206.9	203.0	203.0	195.4	199.3	199.3	195.4	187.8	180.0	176.2	160.8
80°	141.7	141.7	141.7	137.9	137.9	134.1	134.1	130.3	122.5	118.8	111.2
82.5°	95.8	95.8	95.8	92.0	92.0	92.0	88.1	84.2	80.5	76.6	69.0
85°	61.3	61.3	61.3	57.5	57.5	57.5	53.6	53.6	49.8	45.9	38.3
87.5°	34.4	34.4	34.4	30.7	30.7	30.7	30.7	30.7	26.8	23.0	19.2
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°	4007.4	4007.4	4007.4	4007.4	4007.4	4007.4	4007.4	4007.4	4007.4	4007.4	4007.4
2.5°	3992.0	3938.4	3972.8	3972.8	3961.4	3992.0	4011.3	4026.5	4022.6	3988.2	3984.3
5°	3961.4	3915.4	3953.7	3957.5	3946.0	3988.2	4015.0	4034.1	4038.0	4007.4	4011.3
7.5°	3938.4	3900.1	3949.9	3965.2	3961.4	3999.7	4030.4	4060.9	4076.3	4053.3	4057.2
10°	3926.9	3896.2	3949.9	3972.8	3976.7	4018.9	4064.8	4107.0	4126.2	4110.8	4122.3
12.5°	3911.6	3892.5	3953.7	3988.2	4003.5	4045.7	4103.1	4152.9	4183.6	4176.0	4198.9
15°	3896.2	3880.9	3953.7	4003.5	4022.6	4060.9	4126.2	4198.9	4233.4	4229.5	4260.2
17.5°	3857.9	3854.2	3930.8	3984.3	4011.3	4057.2	4118.4	4206.5	4241.1	4248.7	4287.0
20°	3796.7	3796.7	3880.9	3938.4	3969.1	4011.3	4087.9	4172.1	4214.3	4221.9	4264.1
22.5°	3712.3	3720.0	3800.4	3857.9	3904.0	3934.5	4015.0	4103.1	4141.4	4152.9	4198.9
25°	3601.3	3608.9	3685.5	3743.0	3792.8	3827.2	3904.0	3984.3	4030.4	4041.8	4076.3
27.5°	3455.7	3471.0	3543.8	3601.3	3643.3	3666.4	3746.9	3831.1	3865.5	3877.0	3911.6
30°	3287.1	3291.0	3363.7	3413.5	3455.7	3474.9	3543.8	3632.0	3658.8	3670.3	3720.0
32.5°	3080.2	3076.4	3145.4	3191.3	3225.8	3248.8	3321.5	3379.1	3405.9	3425.1	3451.8
35°	2831.2	2827.3	2877.2	2930.9	2957.6	2965.3	3038.1	3099.3	3114.7	3130.0	3164.6
37.5°	2551.6	2551.6	2593.6	2620.6	2651.1	2662.6	2697.2	2766.1	2792.9	2789.0	2815.8
40°	2256.5	2241.3	2271.8	2298.7	2306.4	2310.1	2344.7	2398.2	2417.4	2417.4	2436.5
42.5°	1946.2	1923.2	1927.1	1942.3	1950.0	1923.2	1946.2	1980.6	1969.1	1984.5	1988.4
45°	1616.8	1582.2	1566.9	1532.4	1540.2	1513.2	1498.0	1505.6	1501.9	1463.6	1471.2
47.5°	1348.5	1287.3	1260.4	1210.7	1199.2	1168.5	1149.4	1114.8	1084.3	1084.3	1065.0
50°	1122.6	1061.2	1007.5	950.1	930.9	904.1	862.0	816.0	793.0	770.1	750.9
52.5°	942.4	877.4	812.1	750.9	724.1	689.6	632.1	586.2	544.0	521.0	498.1
55°	796.9	724.1	655.2	589.9	555.5	521.0	463.5	410.0	360.1	329.5	310.3
57.5°	685.7	616.9	544.0	475.0	444.4	406.1	344.9	287.3	241.3	206.9	187.8
60°	605.4	536.4	471.3	398.4	367.8	329.5	264.4	210.7	164.7	134.1	111.2
62.5°	536.4	475.0	406.1	341.0	310.3	272.0	210.7	157.1	114.9	84.2	65.1
65°	486.6	425.2	367.8	302.7	275.9	237.6	180.0	130.3	92.0	65.1	45.9
67.5°	429.1	375.4	317.9	264.4	237.6	206.9	153.2	111.2	76.6	53.6	38.3
70°	360.1	317.9	268.1	218.4	199.3	172.4	126.4	92.0	61.3	42.2	30.7
72.5°	287.3	252.9	214.6	176.2	160.8	134.1	103.4	72.9	45.9	30.7	23.0
75°	218.4	191.5	160.8	134.1	118.8	103.4	76.6	53.6	34.4	23.0	15.3
77.5°	149.5	137.9	114.9	92.0	84.2	72.9	49.8	34.4	23.0	15.3	7.6
80°	103.4	92.0	76.6	61.3	53.6	45.9	30.7	23.0	11.5	7.6	3.9
82.5°	65.1	53.6	45.9	38.3	34.4	26.8	19.2	11.5	7.6	3.9	3.9
85°	34.4	30.7	26.8	19.2	19.2	15.3	11.5	7.6	3.9	0.0	0.0
87.5°	19.2	15.3	11.5	7.6	7.6	3.9	3.9	3.9	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°	4007.4	4007.4	4007.4	4007.4	4007.4	4007.4	4007.4	4007.4	4007.4	4007.4	4007.4
2.5°	4030.4	4030.4	4026.5	4072.5	4018.9	4072.5	4045.7	4072.5	4034.1	4030.4	4034.1
5°	4060.9	4072.5	4076.3	4118.4	4068.7	4133.8	4110.8	4133.8	4107.0	4114.6	4126.2
7.5°	4122.3	4141.4	4137.7	4191.2	4141.4	4214.3	4198.9	4233.4	4206.5	4214.3	4229.5
10°	4191.2	4214.3	4218.0	4271.7	4225.7	4313.8	4294.6	4332.9	4310.0	4321.6	4340.7
12.5°	4271.7	4298.5	4302.4	4363.6	4313.8	4405.8	4394.3	4432.6	4413.4	4424.9	4448.0
15°	4332.9	4371.2	4379.0	4440.2	4386.6	4482.4	4474.8	4524.6	4493.9	4513.1	4532.2
17.5°	4363.6	4398.2	4413.4	4470.9	4424.9	4520.7	4513.1	4555.3	4532.2	4551.4	4574.4
20°	4344.5	4386.6	4398.2	4455.6	4409.7	4505.4	4493.9	4536.1	4513.1	4528.3	4551.4
22.5°	4275.5	4317.7	4332.9	4386.6	4344.5	4432.6	4428.8	4467.1	4436.5	4455.6	4474.8
25°	4152.9	4198.9	4206.5	4256.3	4210.4	4302.4	4294.6	4336.8	4313.8	4325.3	4352.1
27.5°	3976.7	4030.4	4041.8	4084.0	4049.6	4126.2	4126.2	4160.6	4133.8	4133.8	4160.6
30°	3766.0	3819.6	3827.2	3861.8	3831.1	3900.1	3904.0	3938.4	3896.2	3919.2	3923.1
32.5°	3509.3	3543.8	3566.7	3597.4	3551.5	3639.6	3628.1	3654.9	3632.0	3632.0	3651.1
35°	3199.0	3241.2	3252.7	3291.0	3252.7	3321.5	3321.5	3336.9	3313.9	3313.9	3344.6
37.5°	2861.9	2892.6	2896.3	2934.6	2903.9	2961.4	2957.6	2969.2	2946.1	2961.4	2961.4
40°	2467.2	2490.2	2497.9	2517.0	2513.3	2555.3	2551.6	2559.2	2547.7	2551.6	2559.2
42.5°	2007.6	2038.1	2053.5	2068.8	2045.9	2103.3	2091.8	2103.3	2099.4	2103.3	2114.8
45°	1478.8	1501.9	1513.2	1517.1	1509.5	1543.9	1570.7	1547.8	1551.5	1543.9	1559.3
47.5°	1068.9	1072.8	1065.0	1088.0	1068.9	1084.3	1091.9	1095.7	1072.8	1068.9	1084.3
50°	731.8	750.9	724.1	735.5	731.8	747.0	739.4	743.3	720.3	731.8	724.1
52.5°	486.6	482.7	475.0	478.9	471.3	471.3	471.3	478.9	463.5	455.9	448.3
55°	295.0	287.3	272.0	268.1	268.1	272.0	264.4	256.7	256.7	252.9	252.9
57.5°	172.4	160.8	153.2	149.5	141.7	137.9	134.1	134.1	126.4	126.4	126.4
60°	95.8	84.2	76.6	69.0	69.0	65.1	61.3	57.5	57.5	57.5	53.6
62.5°	49.8	42.2	34.4	30.7	30.7	26.8	23.0	23.0	23.0	23.0	19.2
65°	34.4	26.8	23.0	19.2	19.2	15.3	15.3	15.3	15.3	15.3	15.3
67.5°	26.8	23.0	19.2	15.3	15.3	15.3	11.5	11.5	11.5	11.5	11.5
70°	23.0	15.3	15.3	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
72.5°	15.3	15.3	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
75°	11.5	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
77.5°	3.9	3.9	3.9	3.9	3.9	3.9	0.0	0.0	0.0	0.0	0.0
80°	3.9	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: P685170

CATALOG NUMBER: LX6C70D010 EX6709030 6LCSWLI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4007.4	4007.4	4007.4	4007.4	4007.4	4007.4	4007.4	4007.4
2.5°	4068.7	4064.8	4068.7	4076.3	4060.9	4107.0	4084.0	4107.0
5°	4156.8	4160.6	4164.5	4176.0	4156.8	4214.3	4183.6	4218.0
7.5°	4271.7	4275.5	4279.4	4290.9	4279.4	4336.8	4302.4	4332.9
10°	4390.5	4398.2	4398.2	4417.3	4405.8	4459.4	4436.5	4474.8
12.5°	4501.6	4509.2	4517.0	4528.3	4520.7	4578.2	4559.0	4589.7
15°	4589.7	4604.9	4608.8	4624.1	4616.5	4677.8	4654.8	4685.4
17.5°	4631.9	4647.1	4647.1	4666.3	4658.7	4723.7	4693.1	4727.6
20°	4608.8	4620.3	4624.1	4643.4	4635.6	4700.8	4670.2	4712.2
22.5°	4536.1	4539.9	4543.7	4562.9	4559.0	4616.5	4589.7	4616.5
25°	4401.9	4413.4	4409.7	4424.9	4424.9	4470.9	4440.2	4463.3
27.5°	4210.4	4221.9	4221.9	4241.1	4225.7	4271.7	4241.1	4275.5
30°	3976.7	3988.2	3980.6	3995.8	3980.6	4026.5	4003.5	4015.0
32.5°	3697.1	3697.1	3700.8	3704.7	3697.1	3739.1	3716.2	3739.1
35°	3363.7	3371.3	3375.2	3379.1	3371.3	3402.0	3375.2	3390.5
37.5°	2988.3	3007.5	3003.6	3007.5	2995.9	3034.3	3011.2	3019.0
40°	2586.0	2586.0	2582.1	2589.9	2578.4	2609.0	2593.6	2601.3
42.5°	2118.6	2130.1	2114.8	2134.0	2103.3	2145.4	2130.1	2118.6
45°	1590.0	1574.6	1570.7	1574.6	1563.1	1566.9	1578.5	1570.7
47.5°	1084.3	1084.3	1076.5	1065.0	1080.4	1084.3	1068.9	1068.9
50°	727.9	727.9	720.3	716.4	724.1	720.3	712.6	724.1
52.5°	463.5	448.3	448.3	455.9	448.3	440.6	452.1	444.4
55°	252.9	245.2	245.2	252.9	245.2	245.2	241.3	249.0
57.5°	122.5	126.4	122.5	122.5	122.5	122.5	118.8	122.5
60°	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
62.5°	23.0	23.0	19.2	19.2	19.2	19.2	19.2	19.2
65°	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3
67.5°	11.5	11.5	11.5	11.5	11.5	15.3	11.5	11.5
70°	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
72.5°	11.5	11.5	15.3	15.3	15.3	15.3	15.3	15.3
75°	7.6	7.6	7.6	3.9	3.9	3.9	3.9	3.9
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)