

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: P685165

Luminaire Tested: **LX6C70D010 EX6709027 6LCSWLI**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P685165
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 EX6709027 6LCSWLI
Description: 6 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LCSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

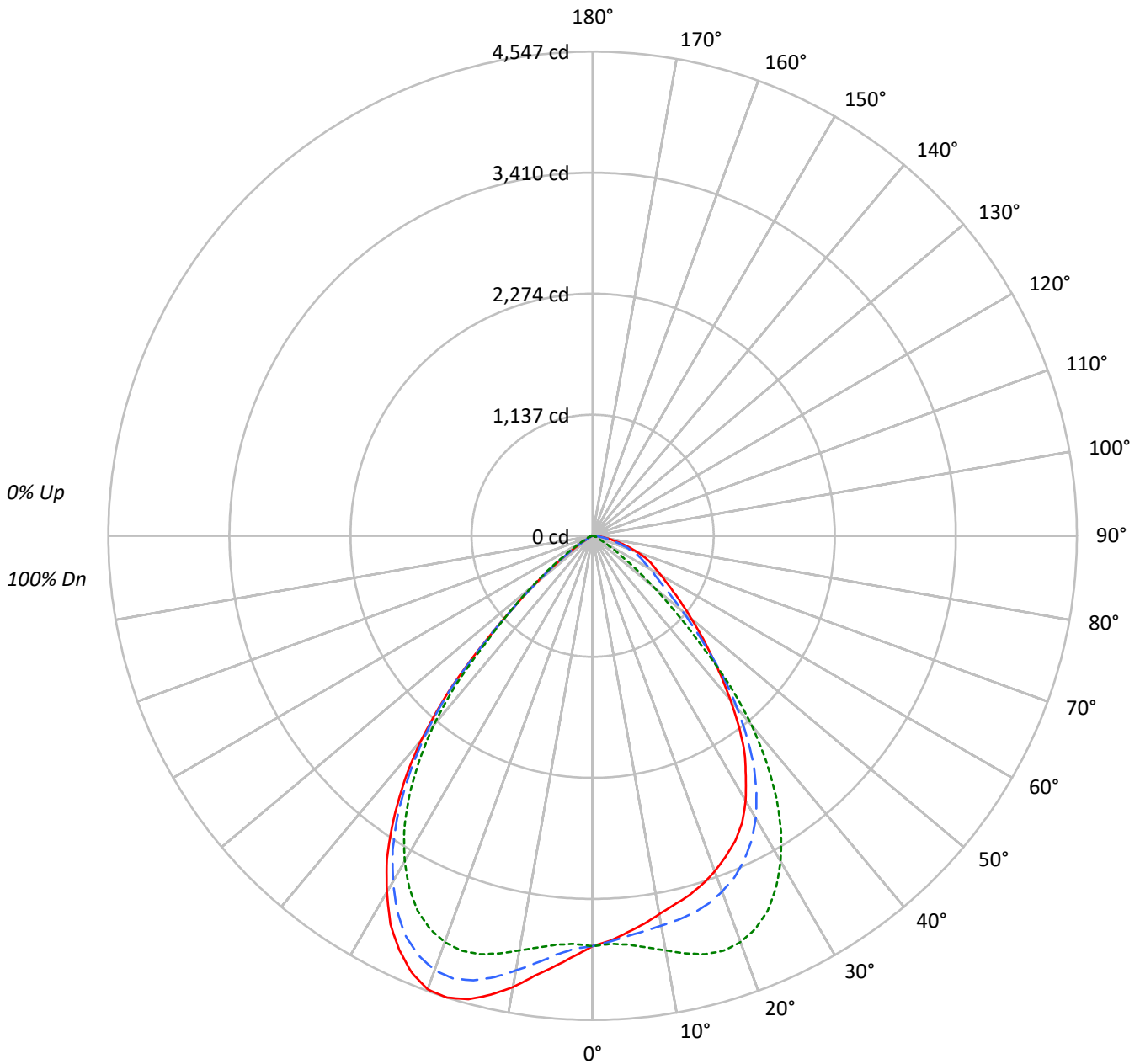
Lumens per Lamp: N/A
Luminaire Lumens: 7045.0 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 78
Input Voltage (V):
Input Current (A_{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	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°	211288	211288	211288
5°	205805	212095	223244
10°	200803	220081	239569
15°	198452	230870	255751
20°	195609	236883	264395
25°	191455	235133	259648
30°	181933	223452	244436
35°	166444	201465	218229
40°	143970	166383	179035
45°	121408	109128	117121
50°	103076	63162	59401
55°	89450	30288	22881
60°	80794	14133	5646
65°	78374	8120	1907
70°	70284	6508	1779
75°	57760	4702	784
80°	43029	2305	0
85°	37110	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.3	5.3
10°-20°	1134.6	16.1
20°-30°	1733.5	24.6
30°-40°	1813.1	25.7
40°-50°	1176.2	16.7
50°-60°	467.0	6.6
60°-70°	221.5	3.1
70°-80°	105.4	1.5
80°-90°	21.5	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°	3240.4	46.0
0°-40°	5053.5	71.7
0°-60°	6696.6	95.1
0°-90°	7045.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7045.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3854	3854	3854	3854	3854	
5°	3740	3773	3854	3950	4057	353
15°	3497	3666	4068	4322	4506	985
25°	3165	3364	3887	4149	4293	1449
35°	2487	2638	3010	3187	3261	1538
45°	1566	1551	1408	1492	1511	1219
55°	936	796	317	247	239	848
65°	604	501	63	15	15	590
75°	273	221	22	7	4	294
85°	59	37	0	0	0	69
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°	3854.2	3854.2	3854.2	3854.2	3854.2	3854.2	3854.2	3854.2	3854.2	3854.2	3854.2
2.5°	3806.3	3813.6	3773.2	3762.1	3791.6	3802.5	3806.3	3795.2	3798.9	3813.6	3813.6
5°	3739.9	3747.3	3710.4	3699.4	3728.8	3736.3	3747.3	3743.7	3754.7	3776.8	3773.2
7.5°	3677.3	3688.4	3647.8	3633.2	3670.0	3688.4	3695.7	3695.7	3710.4	3739.9	3743.7
10°	3607.3	3622.1	3585.2	3577.8	3618.3	3636.8	3640.5	3647.8	3670.0	3710.4	3717.8
12.5°	3548.4	3563.1	3537.3	3526.2	3570.4	3588.8	3596.2	3611.0	3636.8	3688.4	3695.7
15°	3496.7	3507.8	3478.3	3471.0	3515.2	3537.3	3540.9	3563.1	3596.2	3655.2	3666.3
17.5°	3430.4	3437.7	3415.7	3408.4	3452.6	3474.6	3478.3	3504.1	3544.7	3603.7	3622.1
20°	3353.0	3360.5	3338.3	3331.0	3375.1	3400.9	3404.6	3426.8	3474.6	3537.3	3555.7
22.5°	3260.9	3275.7	3249.9	3242.5	3286.8	3308.8	3319.9	3338.3	3386.2	3448.8	3474.6
25°	3165.2	3165.2	3146.8	3143.0	3183.6	3209.4	3205.6	3231.4	3279.3	3342.0	3364.1
27.5°	3039.9	3036.1	3017.7	3014.1	3058.3	3080.4	3073.0	3098.9	3143.0	3205.6	3227.8
30°	2874.1	2881.4	2855.7	2848.2	2885.2	2922.0	2918.3	2944.0	2988.2	3047.2	3062.0
32.5°	2675.1	2682.4	2678.8	2667.7	2700.8	2719.3	2730.3	2748.8	2785.6	2848.2	2863.0
35°	2487.1	2476.1	2461.4	2461.4	2494.5	2524.0	2512.9	2535.1	2571.9	2634.5	2638.2
37.5°	2255.0	2251.3	2244.0	2236.6	2273.5	2280.8	2284.5	2299.2	2332.5	2384.0	2376.6
40°	2011.8	2015.4	2011.8	1997.0	2019.2	2048.7	2044.9	2052.4	2081.8	2118.6	2107.7
42.5°	1783.3	1783.3	1783.3	1768.7	1794.4	1809.2	1816.6	1812.8	1820.2	1853.4	1838.6
45°	1566.0	1569.6	1566.0	1562.3	1566.0	1573.4	1566.0	1562.3	1562.3	1573.4	1551.2
47.5°	1378.1	1378.1	1367.0	1356.0	1367.0	1370.6	1359.7	1348.6	1344.9	1341.3	1304.4
50°	1208.6	1204.9	1201.3	1182.8	1193.8	1197.5	1182.8	1175.4	1160.7	1142.3	1098.1
52.5°	1061.3	1057.5	1053.8	1035.4	1042.8	1046.4	1031.8	1016.9	998.5	983.8	928.6
55°	935.9	932.2	932.2	921.2	913.8	921.2	906.4	895.3	869.6	851.2	795.9
57.5°	829.0	829.0	821.7	810.6	814.3	814.3	799.6	784.8	762.7	740.6	696.5
60°	736.9	736.9	736.9	725.8	725.8	725.8	718.5	703.8	685.4	663.2	619.1
62.5°	663.2	663.2	659.5	648.5	652.2	652.2	644.8	630.1	611.7	596.9	552.7
65°	604.2	604.2	604.2	593.3	593.3	596.9	589.6	574.9	560.1	541.6	501.1
67.5°	530.6	527.0	527.0	519.5	523.2	527.0	519.5	508.5	490.1	479.0	442.2
70°	438.5	442.2	445.8	434.9	438.5	438.5	434.9	423.8	412.7	401.6	368.5
72.5°	357.4	357.4	353.7	350.1	350.1	353.7	346.4	335.3	327.9	320.6	294.7
75°	272.7	268.9	272.7	265.3	265.3	265.3	257.9	254.3	250.5	239.4	221.0
77.5°	199.0	195.3	195.3	187.9	191.7	191.7	187.9	180.6	173.1	169.5	154.7
80°	136.3	136.3	136.3	132.7	132.7	128.9	128.9	125.3	117.9	114.3	106.9
82.5°	92.1	92.1	92.1	88.5	88.5	88.5	84.8	81.0	77.4	73.7	66.3
85°	59.0	59.0	59.0	55.3	55.3	55.3	51.5	51.5	47.9	44.2	36.8
87.5°	33.1	33.1	33.1	29.5	29.5	29.5	29.5	29.5	25.8	22.2	18.4
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°	3854.2	3854.2	3854.2	3854.2	3854.2	3854.2	3854.2	3854.2	3854.2	3854.2	3854.2
2.5°	3839.4	3787.8	3820.9	3820.9	3810.0	3839.4	3857.9	3872.6	3868.9	3835.8	3832.0
5°	3810.0	3765.7	3802.5	3806.3	3795.2	3835.8	3861.5	3879.9	3883.7	3854.2	3857.9
7.5°	3787.8	3751.0	3798.9	3813.6	3810.0	3846.8	3876.3	3905.7	3920.5	3898.4	3902.1
10°	3776.8	3747.3	3798.9	3820.9	3824.7	3865.3	3909.4	3950.0	3968.4	3953.6	3964.7
12.5°	3762.1	3743.7	3802.5	3835.8	3850.4	3891.0	3946.3	3994.2	4023.7	4016.4	4038.4
15°	3747.3	3732.6	3802.5	3850.4	3868.9	3905.7	3968.4	4038.4	4071.6	4067.9	4097.4
17.5°	3710.4	3706.8	3780.5	3832.0	3857.9	3902.1	3961.0	4045.7	4079.0	4086.3	4123.1
20°	3651.6	3651.6	3732.6	3787.8	3817.3	3857.9	3931.6	4012.6	4053.2	4060.5	4101.1
22.5°	3570.4	3577.8	3655.2	3710.4	3754.7	3784.1	3861.5	3946.3	3983.1	3994.2	4038.4
25°	3463.6	3471.0	3544.7	3599.9	3647.8	3680.9	3754.7	3832.0	3876.3	3887.3	3920.5
27.5°	3323.6	3338.3	3408.4	3463.6	3504.1	3526.2	3603.7	3684.7	3717.8	3728.8	3762.1
30°	3161.5	3165.2	3235.1	3283.0	3323.6	3342.0	3408.4	3493.1	3518.9	3530.0	3577.8
32.5°	2962.4	2958.8	3025.2	3069.4	3102.5	3124.6	3194.6	3249.9	3275.7	3294.1	3319.9
35°	2723.0	2719.3	2767.2	2818.8	2844.6	2851.9	2922.0	2980.9	2995.7	3010.4	3043.6
37.5°	2454.0	2454.0	2494.5	2520.4	2549.7	2560.8	2594.1	2660.4	2686.2	2682.4	2708.2
40°	2170.3	2155.6	2185.0	2210.9	2218.2	2221.8	2255.0	2306.6	2325.0	2325.0	2343.4
42.5°	1871.8	1849.7	1853.4	1868.1	1875.4	1849.7	1871.8	1904.9	1893.9	1908.7	1912.4
45°	1555.0	1521.7	1507.1	1473.8	1481.3	1455.4	1440.7	1448.1	1444.5	1407.6	1415.0
47.5°	1297.0	1238.1	1212.2	1164.4	1153.3	1123.8	1105.4	1072.2	1042.8	1042.8	1024.3
50°	1079.7	1020.7	969.0	913.8	895.3	869.6	829.0	784.8	762.7	740.6	722.2
52.5°	906.4	843.8	781.1	722.2	696.5	663.2	608.0	563.8	523.2	501.1	479.0
55°	766.4	696.5	630.1	567.4	534.3	501.1	445.8	394.3	346.4	316.9	298.4
57.5°	659.5	593.3	523.2	456.9	427.4	390.5	331.7	276.3	232.1	199.0	180.6
60°	582.2	515.9	453.3	383.2	353.7	316.9	254.3	202.6	158.4	128.9	106.9
62.5°	515.9	456.9	390.5	327.9	298.4	261.6	202.6	151.1	110.5	81.0	62.6
65°	468.0	409.0	353.7	291.1	265.3	228.5	173.1	125.3	88.5	62.6	44.2
67.5°	412.7	361.0	305.8	254.3	228.5	199.0	147.4	106.9	73.7	51.5	36.8
70°	346.4	305.8	257.9	210.1	191.7	165.8	121.6	88.5	59.0	40.6	29.5
72.5°	276.3	243.2	206.4	169.5	154.7	128.9	99.4	70.1	44.2	29.5	22.2
75°	210.1	184.2	154.7	128.9	114.3	99.4	73.7	51.5	33.1	22.2	14.7
77.5°	143.8	132.7	110.5	88.5	81.0	70.1	47.9	33.1	22.2	14.7	7.3
80°	99.4	88.5	73.7	59.0	51.5	44.2	29.5	22.2	11.1	7.3	3.7
82.5°	62.6	51.5	44.2	36.8	33.1	25.8	18.4	11.1	7.3	3.7	3.7
85°	33.1	29.5	25.8	18.4	18.4	14.7	11.1	7.3	3.7	0.0	0.0
87.5°	18.4	14.7	11.1	7.3	7.3	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°	3854.2	3854.2	3854.2	3854.2	3854.2	3854.2	3854.2	3854.2	3854.2	3854.2	3854.2
2.5°	3876.3	3876.3	3872.6	3916.8	3865.3	3916.8	3891.0	3916.8	3879.9	3876.3	3879.9
5°	3905.7	3916.8	3920.5	3961.0	3913.2	3975.8	3953.6	3975.8	3950.0	3957.4	3968.4
7.5°	3964.7	3983.1	3979.5	4031.0	3983.1	4053.2	4038.4	4071.6	4045.7	4053.2	4067.9
10°	4031.0	4053.2	4056.8	4108.5	4064.1	4148.9	4130.5	4167.3	4145.3	4156.4	4174.8
12.5°	4108.5	4134.2	4137.9	4196.8	4148.9	4237.4	4226.3	4263.1	4244.7	4255.8	4278.0
15°	4167.3	4204.1	4211.6	4270.5	4219.0	4311.1	4303.7	4351.6	4322.1	4340.6	4359.0
17.5°	4196.8	4230.0	4244.7	4300.0	4255.8	4347.9	4340.6	4381.1	4359.0	4377.4	4399.6
20°	4178.4	4219.0	4230.0	4285.3	4241.1	4333.2	4322.1	4362.7	4340.6	4355.2	4377.4
22.5°	4112.1	4152.6	4167.3	4219.0	4178.4	4263.1	4259.5	4296.4	4266.9	4285.3	4303.7
25°	3994.2	4038.4	4045.7	4093.6	4049.5	4137.9	4130.5	4171.0	4148.9	4160.0	4185.7
27.5°	3824.7	3876.3	3887.3	3927.9	3894.8	3968.4	3968.4	4001.5	3975.8	3975.8	4001.5
30°	3622.1	3673.6	3680.9	3714.2	3684.7	3751.0	3754.7	3787.8	3747.3	3769.4	3773.2
32.5°	3375.1	3408.4	3430.4	3459.9	3415.7	3500.5	3489.4	3515.2	3493.1	3493.1	3511.6
35°	3076.7	3117.3	3128.4	3165.2	3128.4	3194.6	3194.6	3209.4	3187.2	3187.2	3216.7
37.5°	2752.5	2782.0	2785.6	2822.4	2792.9	2848.2	2844.6	2855.7	2833.5	2848.2	2848.2
40°	2372.9	2395.0	2402.4	2420.8	2417.2	2457.6	2454.0	2461.4	2450.3	2454.0	2461.4
42.5°	1930.8	1960.2	1975.0	1989.7	1967.7	2022.9	2011.8	2022.9	2019.2	2022.9	2034.0
45°	1422.3	1444.5	1455.4	1459.1	1451.8	1484.9	1510.7	1488.6	1492.2	1484.9	1499.7
47.5°	1028.0	1031.8	1024.3	1046.4	1028.0	1042.8	1050.2	1053.8	1031.8	1028.0	1042.8
50°	703.8	722.2	696.5	707.4	703.8	718.5	711.1	714.9	692.7	703.8	696.5
52.5°	468.0	464.2	456.9	460.6	453.3	453.3	453.3	460.6	445.8	438.5	431.1
55°	283.8	276.3	261.6	257.9	257.9	261.6	254.3	246.9	246.9	243.2	243.2
57.5°	165.8	154.7	147.4	143.8	136.3	132.7	128.9	128.9	121.6	121.6	121.6
60°	92.1	81.0	73.7	66.3	66.3	62.6	59.0	55.3	55.3	55.3	51.5
62.5°	47.9	40.6	33.1	29.5	29.5	25.8	22.2	22.2	22.2	22.2	18.4
65°	33.1	25.8	22.2	18.4	18.4	14.7	14.7	14.7	14.7	14.7	14.7
67.5°	25.8	22.2	18.4	14.7	14.7	14.7	11.1	11.1	11.1	11.1	11.1
70°	22.2	14.7	14.7	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
72.5°	14.7	14.7	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
75°	11.1	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
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: P685165

CATALOG NUMBER: LX6C70D010 EX6709027 6LCSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3854.2	3854.2	3854.2	3854.2	3854.2	3854.2	3854.2	3854.2
2.5°	3913.2	3909.4	3913.2	3920.5	3905.7	3950.0	3927.9	3950.0
5°	3997.9	4001.5	4005.3	4016.4	3997.9	4053.2	4023.7	4056.8
7.5°	4108.5	4112.1	4115.8	4126.9	4115.8	4171.0	4137.9	4167.3
10°	4222.7	4230.0	4230.0	4248.5	4237.4	4288.9	4266.9	4303.7
12.5°	4329.5	4336.8	4344.3	4355.2	4347.9	4403.2	4384.7	4414.2
15°	4414.2	4428.9	4432.7	4447.3	4440.0	4499.0	4476.8	4506.3
17.5°	4454.8	4469.5	4469.5	4487.9	4480.6	4543.2	4513.7	4546.9
20°	4432.7	4443.7	4447.3	4465.9	4458.4	4521.2	4491.7	4532.1
22.5°	4362.7	4366.3	4370.1	4388.5	4384.7	4440.0	4414.2	4440.0
25°	4233.6	4244.7	4241.1	4255.8	4255.8	4300.0	4270.5	4292.6
27.5°	4049.5	4060.5	4060.5	4079.0	4064.1	4108.5	4079.0	4112.1
30°	3824.7	3835.8	3828.4	3843.1	3828.4	3872.6	3850.4	3861.5
32.5°	3555.7	3555.7	3559.3	3563.1	3555.7	3596.2	3574.2	3596.2
35°	3235.1	3242.5	3246.2	3249.9	3242.5	3272.0	3246.2	3260.9
37.5°	2874.1	2892.5	2888.8	2892.5	2881.4	2918.3	2896.1	2903.6
40°	2487.1	2487.1	2483.4	2490.9	2479.8	2509.3	2494.5	2501.8
42.5°	2037.6	2048.7	2034.0	2052.4	2022.9	2063.4	2048.7	2037.6
45°	1529.2	1514.4	1510.7	1514.4	1503.3	1507.1	1518.1	1510.7
47.5°	1042.8	1042.8	1035.4	1024.3	1039.1	1042.8	1028.0	1028.0
50°	700.1	700.1	692.7	689.0	696.5	692.7	685.4	696.5
52.5°	445.8	431.1	431.1	438.5	431.1	423.8	434.9	427.4
55°	243.2	235.8	235.8	243.2	235.8	235.8	232.1	239.4
57.5°	117.9	121.6	117.9	117.9	117.9	117.9	114.3	117.9
60°	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5
62.5°	22.2	22.2	18.4	18.4	18.4	18.4	18.4	18.4
65°	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
67.5°	11.1	11.1	11.1	11.1	11.1	14.7	11.1	11.1
70°	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
72.5°	11.1	11.1	14.7	14.7	14.7	14.7	14.7	14.7
75°	7.3	7.3	7.3	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)