

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: P685175

Luminaire Tested: **LX6C70D010 EX6709035 6LCSWLI**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P685175
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 EX6709035 6LCSWLI
Description: 6 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LCSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

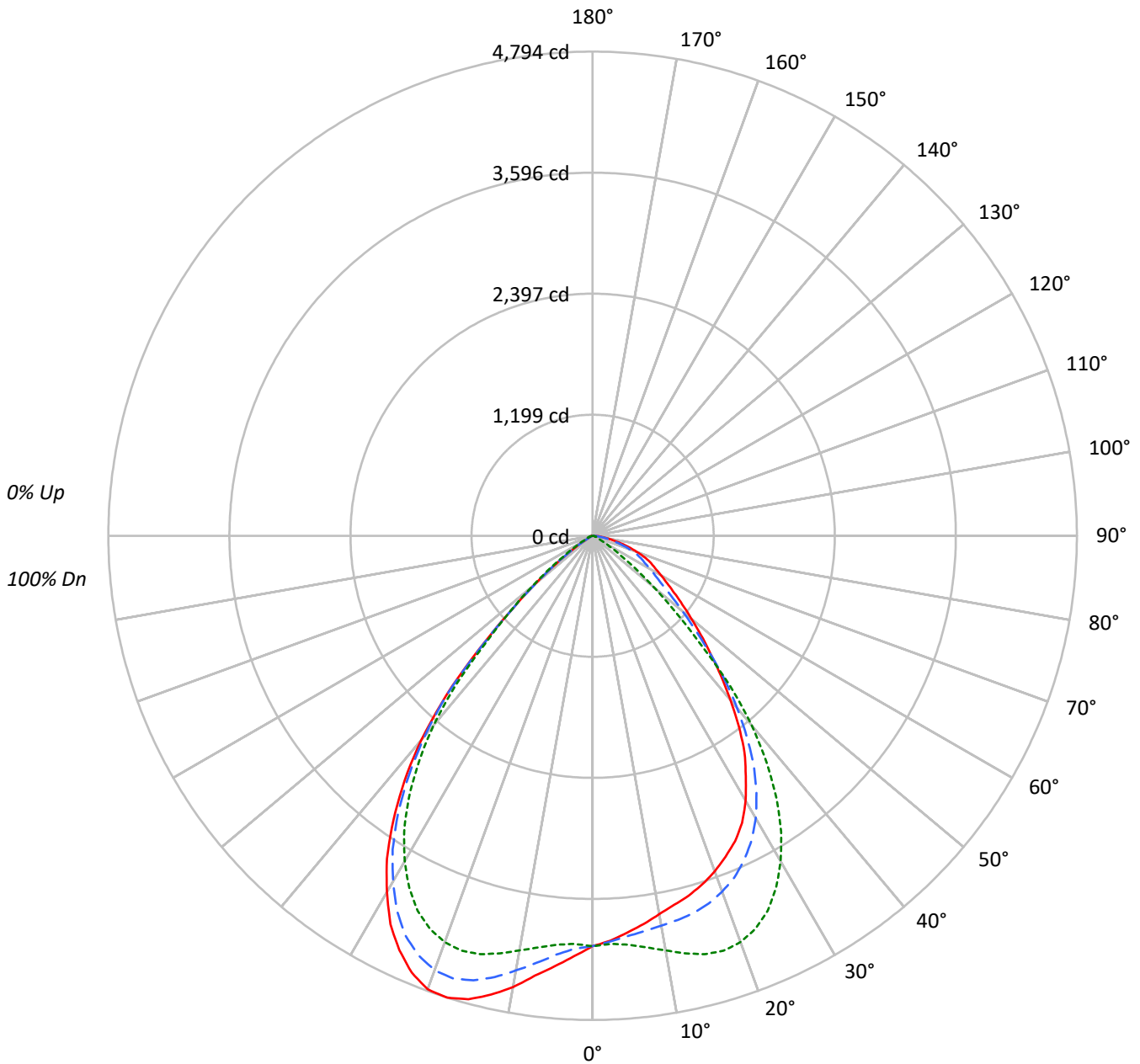
Lumens per Lamp: N/A
Luminaire Lumens: 7428.0 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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				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	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90			90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80			80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			72
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65			65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58			58
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53			53
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48			48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40			40
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	222773	222773	222773
5°	216993	223624	235378
10°	211720	232049	252595
15°	209241	243418	269655
20°	206244	249764	278770
25°	201864	247914	273766
30°	191821	235600	257730
35°	175499	212414	230095
40°	151799	175429	188768
45°	128013	115058	123486
50°	108679	66599	62625
55°	94314	31932	24133
60°	85191	14900	5953
65°	82642	8561	2011
70°	74099	6860	1875
75°	60895	4956	826
80°	45366	2431	0
85°	39123	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.5	5.3
10°-20°	1196.2	16.1
20°-30°	1827.8	24.6
30°-40°	1911.7	25.7
40°-50°	1240.1	16.7
50°-60°	492.4	6.6
60°-70°	233.6	3.1
70°-80°	111.1	1.5
80°-90°	22.7	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°	3416.5	46.0
0°-40°	5328.2	71.7
0°-60°	7060.7	95.1
0°-90°	7428.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7428.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4064	4064	4064	4064	4064	
5°	3943	3978	4064	4165	4277	372
15°	3687	3866	4289	4557	4751	1039
25°	3337	3547	4099	4374	4526	1528
35°	2622	2782	3174	3360	3438	1622
45°	1651	1636	1484	1573	1593	1285
55°	987	839	334	260	252	894
65°	637	528	66	16	16	622
75°	288	233	23	8	4	310
85°	62	39	0	0	0	72
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°	4063.7	4063.7	4063.7	4063.7	4063.7	4063.7	4063.7	4063.7	4063.7	4063.7	4063.7
2.5°	4013.2	4020.9	3978.3	3966.6	3997.7	4009.2	4013.2	4001.5	4005.5	4020.9	4020.9
5°	3943.2	3951.0	3912.1	3900.5	3931.6	3939.5	3951.0	3947.2	3958.9	3982.1	3978.3
7.5°	3877.2	3888.9	3846.1	3830.7	3869.5	3888.9	3896.7	3896.7	3912.1	3943.2	3947.2
10°	3803.4	3819.0	3780.1	3772.3	3815.0	3834.5	3838.4	3846.1	3869.5	3912.1	3919.9
12.5°	3741.3	3756.8	3729.6	3717.9	3764.5	3783.9	3791.7	3807.3	3834.5	3888.9	3896.7
15°	3686.8	3698.5	3667.4	3659.7	3706.3	3729.6	3733.4	3756.8	3791.7	3853.9	3865.6
17.5°	3616.9	3624.6	3601.4	3593.7	3640.3	3663.5	3667.4	3694.6	3737.4	3799.6	3819.0
20°	3535.3	3543.2	3519.8	3512.1	3558.6	3585.8	3589.7	3613.1	3663.5	3729.6	3749.0
22.5°	3438.2	3453.8	3426.6	3418.7	3465.5	3488.7	3500.4	3519.8	3570.3	3636.3	3663.5
25°	3337.3	3337.3	3317.8	3313.9	3356.7	3383.8	3379.9	3407.1	3457.6	3523.7	3547.0
27.5°	3205.1	3201.2	3181.8	3178.0	3224.5	3247.9	3240.0	3267.3	3313.9	3379.9	3403.3
30°	3030.3	3038.1	3010.9	3003.0	3042.0	3080.9	3076.9	3104.1	3150.7	3212.9	3228.5
32.5°	2820.5	2828.2	2824.4	2812.8	2847.7	2867.1	2878.8	2898.2	2937.0	3003.0	3018.7
35°	2622.4	2610.7	2595.2	2595.2	2630.1	2661.2	2649.5	2672.9	2711.7	2777.7	2781.7
37.5°	2377.6	2373.7	2365.9	2358.2	2397.1	2404.8	2408.7	2424.2	2459.3	2513.6	2505.8
40°	2121.2	2125.0	2121.2	2105.6	2129.0	2160.1	2156.1	2164.0	2195.0	2233.8	2222.3
42.5°	1880.3	1880.3	1880.3	1864.8	1892.0	1907.6	1915.3	1911.4	1919.1	1954.2	1938.6
45°	1651.2	1655.0	1651.2	1647.2	1651.2	1658.9	1651.2	1647.2	1647.2	1658.9	1635.6
47.5°	1453.0	1453.0	1441.4	1429.7	1441.4	1445.2	1433.6	1421.9	1418.0	1414.2	1375.4
50°	1274.3	1270.4	1266.6	1247.1	1258.7	1262.6	1247.1	1239.3	1223.8	1204.4	1157.8
52.5°	1118.9	1115.0	1111.1	1091.6	1099.5	1103.3	1087.8	1072.2	1052.8	1037.3	979.1
55°	986.8	982.9	982.9	971.3	963.4	971.3	955.7	944.0	916.9	897.4	839.2
57.5°	874.1	874.1	866.3	854.7	858.6	858.6	843.1	827.5	804.1	780.9	734.3
60°	777.0	777.0	777.0	765.3	765.3	765.3	757.5	742.1	722.6	699.3	652.7
62.5°	699.3	699.3	695.3	683.8	687.6	687.6	679.9	664.4	645.0	629.3	582.8
65°	637.1	637.1	637.1	625.5	625.5	629.3	621.6	606.1	590.5	571.1	528.3
67.5°	559.4	555.6	555.6	547.7	551.7	555.6	547.7	536.2	516.8	505.1	466.2
70°	462.3	466.2	470.0	458.5	462.3	462.3	458.5	446.8	435.1	423.5	388.6
72.5°	376.9	376.9	372.9	369.1	369.1	372.9	365.2	353.5	345.8	338.0	310.7
75°	287.5	283.6	287.5	279.8	279.8	279.8	271.9	268.1	264.1	252.5	233.0
77.5°	209.8	205.9	205.9	198.1	202.1	202.1	198.1	190.4	182.5	178.7	163.1
80°	143.7	143.7	143.7	139.9	139.9	135.9	135.9	132.1	124.3	120.5	112.7
82.5°	97.1	97.1	97.1	93.3	93.3	93.3	89.4	85.4	81.6	77.7	69.9
85°	62.2	62.2	62.2	58.3	58.3	58.3	54.3	54.3	50.5	46.6	38.8
87.5°	34.9	34.9	34.9	31.1	31.1	31.1	31.1	31.1	27.2	23.4	19.4
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°	4063.7	4063.7	4063.7	4063.7	4063.7	4063.7	4063.7	4063.7	4063.7	4063.7	4063.7
2.5°	4048.1	3993.8	4028.7	4028.7	4017.1	4048.1	4067.7	4083.1	4079.2	4044.3	4040.4
5°	4017.1	3970.4	4009.2	4013.2	4001.5	4044.3	4071.5	4090.9	4094.8	4063.7	4067.7
7.5°	3993.8	3954.9	4005.5	4020.9	4017.1	4056.0	4087.1	4118.0	4133.7	4110.3	4114.2
10°	3982.1	3951.0	4005.5	4028.7	4032.6	4075.4	4122.0	4164.8	4184.2	4168.6	4180.2
12.5°	3966.6	3947.2	4009.2	4044.3	4059.8	4102.6	4160.8	4211.3	4242.4	4234.7	4257.9
15°	3951.0	3935.5	4009.2	4059.8	4079.2	4118.0	4184.2	4257.9	4293.0	4289.0	4320.1
17.5°	3912.1	3908.3	3986.0	4040.4	4067.7	4114.2	4176.3	4265.7	4300.7	4308.4	4347.3
20°	3850.1	3850.1	3935.5	3993.8	4024.9	4067.7	4145.3	4230.8	4273.5	4281.3	4324.1
22.5°	3764.5	3772.3	3853.9	3912.1	3958.9	3989.8	4071.5	4160.8	4199.7	4211.3	4257.9
25°	3651.9	3659.7	3737.4	3795.6	3846.1	3881.0	3958.9	4040.4	4087.1	4098.6	4133.7
27.5°	3504.3	3519.8	3593.7	3651.9	3694.6	3717.9	3799.6	3885.0	3919.9	3931.6	3966.6
30°	3333.3	3337.3	3411.0	3461.5	3504.3	3523.7	3593.7	3683.0	3710.2	3721.9	3772.3
32.5°	3123.5	3119.7	3189.6	3236.2	3271.1	3294.5	3368.2	3426.6	3453.8	3473.2	3500.4
35°	2871.0	2867.1	2917.6	2972.1	2999.2	3007.0	3080.9	3142.9	3158.5	3174.0	3209.1
37.5°	2587.5	2587.5	2630.1	2657.4	2688.4	2700.0	2735.1	2805.0	2832.2	2828.2	2855.4
40°	2288.3	2272.8	2303.7	2331.1	2338.8	2342.6	2377.6	2431.9	2451.4	2451.4	2470.8
42.5°	1973.6	1950.2	1954.2	1969.7	1977.4	1950.2	1973.6	2008.5	1996.8	2012.4	2016.4
45°	1639.5	1604.5	1589.0	1553.9	1561.8	1534.5	1519.0	1526.8	1523.0	1484.1	1491.9
47.5°	1367.5	1305.4	1278.1	1227.7	1216.0	1184.9	1165.5	1130.5	1099.5	1099.5	1080.0
50°	1138.4	1076.2	1021.7	963.4	944.0	916.9	874.1	827.5	804.1	780.9	761.5
52.5°	955.7	889.7	823.5	761.5	734.3	699.3	641.0	594.4	551.7	528.3	505.1
55°	808.1	734.3	664.4	598.2	563.3	528.3	470.0	415.7	365.2	334.1	314.7
57.5°	695.3	625.5	551.7	481.7	450.6	411.8	349.7	291.3	244.7	209.8	190.4
60°	613.9	543.9	477.9	404.0	372.9	334.1	268.1	213.6	167.0	135.9	112.7
62.5°	543.9	481.7	411.8	345.8	314.7	275.8	213.6	159.3	116.5	85.4	66.0
65°	493.4	431.2	372.9	306.9	279.8	240.9	182.5	132.1	93.3	66.0	46.6
67.5°	435.1	380.7	322.4	268.1	240.9	209.8	155.4	112.7	77.7	54.3	38.8
70°	365.2	322.4	271.9	221.5	202.1	174.8	128.2	93.3	62.2	42.8	31.1
72.5°	291.3	256.4	217.6	178.7	163.1	135.9	104.8	73.9	46.6	31.1	23.4
75°	221.5	194.2	163.1	135.9	120.5	104.8	77.7	54.3	34.9	23.4	15.5
77.5°	151.6	139.9	116.5	93.3	85.4	73.9	50.5	34.9	23.4	15.5	7.7
80°	104.8	93.3	77.7	62.2	54.3	46.6	31.1	23.4	11.7	7.7	3.9
82.5°	66.0	54.3	46.6	38.8	34.9	27.2	19.4	11.7	7.7	3.9	3.9
85°	34.9	31.1	27.2	19.4	19.4	15.5	11.7	7.7	3.9	0.0	0.0
87.5°	19.4	15.5	11.7	7.7	7.7	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°	4063.7	4063.7	4063.7	4063.7	4063.7	4063.7	4063.7	4063.7	4063.7	4063.7	4063.7
2.5°	4087.1	4087.1	4083.1	4129.7	4075.4	4129.7	4102.6	4129.7	4090.9	4087.1	4090.9
5°	4118.0	4129.7	4133.7	4176.3	4125.9	4191.9	4168.6	4191.9	4164.8	4172.5	4184.2
7.5°	4180.2	4199.7	4195.9	4250.2	4199.7	4273.5	4257.9	4293.0	4265.7	4273.5	4289.0
10°	4250.2	4273.5	4277.3	4331.8	4285.1	4374.4	4355.0	4393.9	4370.6	4382.3	4401.7
12.5°	4331.8	4359.0	4362.9	4425.0	4374.4	4467.7	4456.1	4494.9	4475.5	4487.2	4510.5
15°	4393.9	4432.7	4440.6	4502.6	4448.3	4545.4	4537.7	4588.2	4557.1	4576.5	4596.0
17.5°	4425.0	4460.0	4475.5	4533.7	4487.2	4584.3	4576.5	4619.3	4596.0	4615.4	4638.7
20°	4405.5	4448.3	4460.0	4518.3	4471.7	4568.8	4557.1	4599.9	4576.5	4592.0	4615.4
22.5°	4335.6	4378.4	4393.9	4448.3	4405.5	4494.9	4491.1	4530.0	4498.9	4518.3	4537.7
25°	4211.3	4257.9	4265.7	4316.2	4269.6	4362.9	4355.0	4397.8	4374.4	4386.1	4413.3
27.5°	4032.6	4087.1	4098.6	4141.4	4106.5	4184.2	4184.2	4219.1	4191.9	4191.9	4219.1
30°	3819.0	3873.3	3881.0	3916.1	3885.0	3954.9	3958.9	3993.8	3951.0	3974.4	3978.3
32.5°	3558.6	3593.7	3616.9	3648.0	3601.4	3690.8	3679.1	3706.3	3683.0	3683.0	3702.5
35°	3244.0	3286.7	3298.4	3337.3	3298.4	3368.2	3368.2	3383.8	3360.5	3360.5	3391.6
37.5°	2902.1	2933.2	2937.0	2975.9	2944.8	3003.0	2999.2	3010.9	2987.6	3003.0	3003.0
40°	2501.9	2525.3	2533.0	2552.4	2548.6	2591.3	2587.5	2595.2	2583.5	2587.5	2595.2
42.5°	2035.8	2066.8	2082.4	2097.9	2074.6	2132.9	2121.2	2132.9	2129.0	2132.9	2144.6
45°	1499.6	1523.0	1534.5	1538.5	1530.7	1565.6	1592.8	1569.6	1573.4	1565.6	1581.2
47.5°	1083.9	1087.8	1080.0	1103.3	1083.9	1099.5	1107.3	1111.1	1087.8	1083.9	1099.5
50°	742.1	761.5	734.3	745.9	742.1	757.5	749.8	753.8	730.4	742.1	734.3
52.5°	493.4	489.5	481.7	485.7	477.9	477.9	477.9	485.7	470.0	462.3	454.6
55°	299.2	291.3	275.8	271.9	271.9	275.8	268.1	260.4	260.4	256.4	256.4
57.5°	174.8	163.1	155.4	151.6	143.7	139.9	135.9	135.9	128.2	128.2	128.2
60°	97.1	85.4	77.7	69.9	69.9	66.0	62.2	58.3	58.3	58.3	54.3
62.5°	50.5	42.8	34.9	31.1	31.1	27.2	23.4	23.4	23.4	23.4	19.4
65°	34.9	27.2	23.4	19.4	19.4	15.5	15.5	15.5	15.5	15.5	15.5
67.5°	27.2	23.4	19.4	15.5	15.5	15.5	11.7	11.7	11.7	11.7	11.7
70°	23.4	15.5	15.5	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7
72.5°	15.5	15.5	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7
75°	11.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
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: P685175

CATALOG NUMBER: LX6C70D010 EX6709035 6LCSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4063.7	4063.7	4063.7	4063.7	4063.7	4063.7	4063.7	4063.7
2.5°	4125.9	4122.0	4125.9	4133.7	4118.0	4164.8	4141.4	4164.8
5°	4215.3	4219.1	4223.0	4234.7	4215.3	4273.5	4242.4	4277.3
7.5°	4331.8	4335.6	4339.5	4351.2	4339.5	4397.8	4362.9	4393.9
10°	4452.3	4460.0	4460.0	4479.4	4467.7	4522.1	4498.9	4537.7
12.5°	4564.9	4572.6	4580.5	4592.0	4584.3	4642.5	4623.1	4654.2
15°	4654.2	4669.7	4673.6	4689.1	4681.4	4743.6	4720.2	4751.3
17.5°	4697.0	4712.5	4712.5	4731.9	4724.2	4790.2	4759.1	4794.1
20°	4673.6	4685.3	4689.1	4708.7	4700.8	4766.9	4735.8	4778.5
22.5°	4599.9	4603.7	4607.6	4627.1	4623.1	4681.4	4654.2	4681.4
25°	4463.8	4475.5	4471.7	4487.2	4487.2	4533.7	4502.6	4526.0
27.5°	4269.6	4281.3	4281.3	4300.7	4285.1	4331.8	4300.7	4335.6
30°	4032.6	4044.3	4036.6	4052.0	4036.6	4083.1	4059.8	4071.5
32.5°	3749.0	3749.0	3752.8	3756.8	3749.0	3791.7	3768.5	3791.7
35°	3411.0	3418.7	3422.7	3426.6	3418.7	3449.8	3422.7	3438.2
37.5°	3030.3	3049.8	3045.8	3049.8	3038.1	3076.9	3053.6	3061.4
40°	2622.4	2622.4	2618.4	2626.3	2614.6	2645.7	2630.1	2637.8
42.5°	2148.4	2160.1	2144.6	2164.0	2132.9	2175.5	2160.1	2148.4
45°	1612.3	1596.7	1592.8	1596.7	1585.0	1589.0	1600.7	1592.8
47.5°	1099.5	1099.5	1091.6	1080.0	1095.6	1099.5	1083.9	1083.9
50°	738.1	738.1	730.4	726.4	734.3	730.4	722.6	734.3
52.5°	470.0	454.6	454.6	462.3	454.6	446.8	458.5	450.6
55°	256.4	248.7	248.7	256.4	248.7	248.7	244.7	252.5
57.5°	124.3	128.2	124.3	124.3	124.3	124.3	120.5	124.3
60°	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3
62.5°	23.4	23.4	19.4	19.4	19.4	19.4	19.4	19.4
65°	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5
67.5°	11.7	11.7	11.7	11.7	11.7	15.5	11.7	11.7
70°	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7
72.5°	11.7	11.7	15.5	15.5	15.5	15.5	15.5	15.5
75°	7.7	7.7	7.7	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)