

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: P685285

Luminaire Tested: **LX6C90D010 EX6909050 6LCSWLI**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P685285
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: LX6C90D010 EX6909050 6LCSWLI
Description: 6 INCH 9000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LCSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

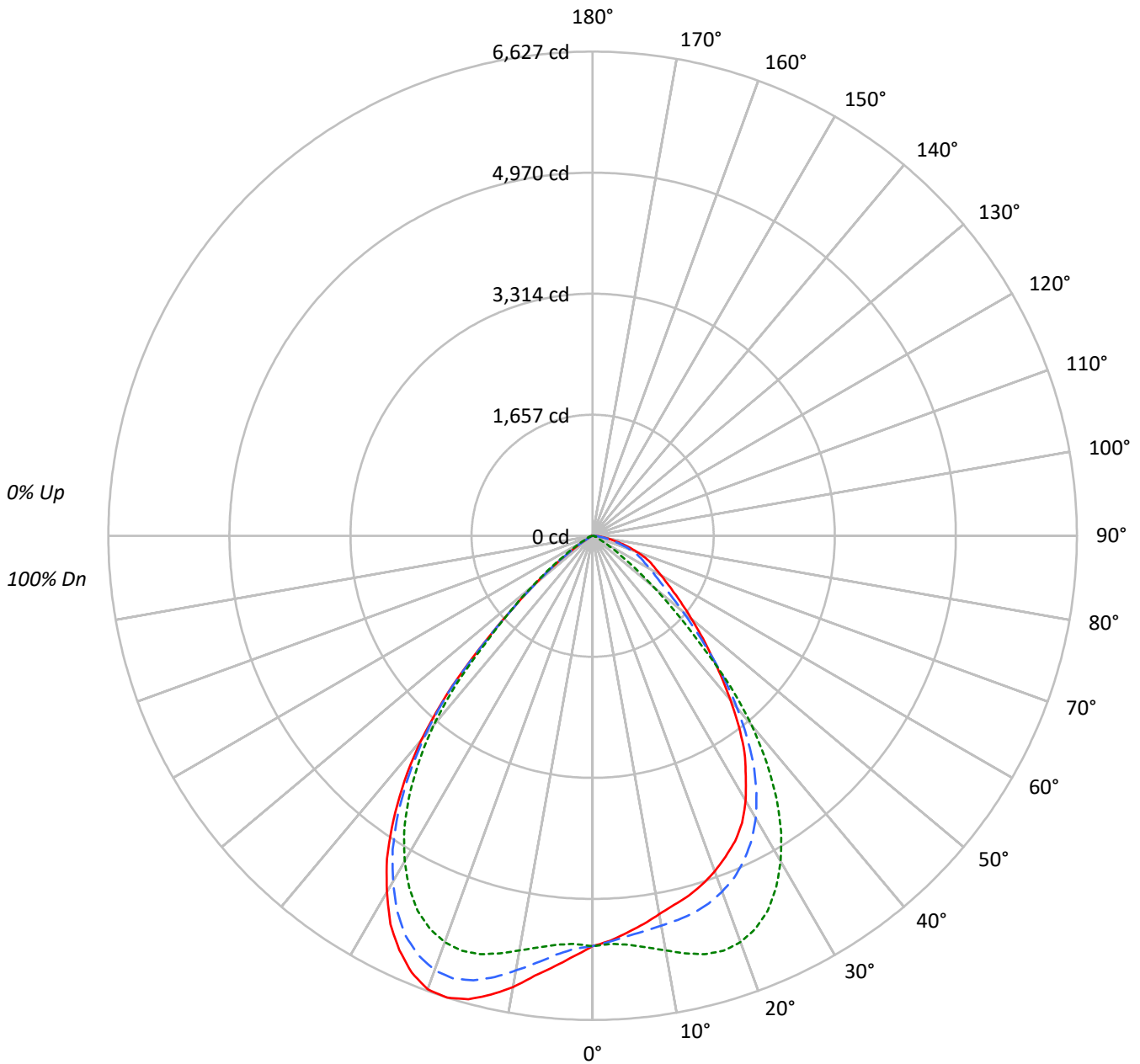
Lumens per Lamp: N/A
Luminaire Lumens: 10268.0 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 97.1
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	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°	307947	307947	307947
5°	299961	309123	325373
10°	292663	320763	349170
15°	289247	336489	372755
20°	285094	345258	385354
25°	279040	342703	378439
30°	265161	325677	356264
35°	242596	293632	318065
40°	209836	242497	260946
45°	176956	159055	170700
50°	150230	92065	86573
55°	130375	44137	33356
60°	117754	20601	8234
65°	114241	11830	2776
70°	102421	9473	2581
75°	84173	6841	1144
80°	62697	3378	0
85°	54093	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	542.6	5.3
10°-20°	1653.6	16.1
20°-30°	2526.6	24.6
30°-40°	2642.6	25.7
40°-50°	1714.3	16.7
50°-60°	680.6	6.6
60°-70°	322.9	3.1
70°-80°	153.5	1.5
80°-90°	31.3	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°	4722.8	46.0
0°-40°	7365.3	71.7
0°-60°	9760.2	95.1
0°-90°	10268.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10268.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5617	5617	5617	5617	5617	
5°	5451	5499	5617	5757	5913	515
15°	5096	5344	5929	6300	6568	1436
25°	4613	4903	5666	6047	6256	2112
35°	3625	3845	4388	4645	4753	2242
45°	2282	2261	2052	2175	2202	1776
55°	1364	1160	462	360	349	1236
65°	881	730	91	21	21	860
75°	397	322	32	11	5	429
85°	86	54	0	0	0	100
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°	5617.4	5617.4	5617.4	5617.4	5617.4	5617.4	5617.4	5617.4	5617.4	5617.4	5617.4
2.5°	5547.6	5558.3	5499.3	5483.2	5526.2	5542.1	5547.6	5531.4	5536.9	5558.3	5558.3
5°	5450.9	5461.6	5407.9	5391.8	5434.8	5445.7	5461.6	5456.3	5472.5	5504.6	5499.3
7.5°	5359.7	5375.8	5316.7	5295.3	5349.0	5375.8	5386.5	5386.5	5407.9	5450.9	5456.3
10°	5257.5	5279.1	5225.4	5214.5	5273.7	5300.5	5306.0	5316.7	5349.0	5407.9	5418.6
12.5°	5171.7	5193.1	5155.6	5139.4	5203.8	5230.7	5241.4	5263.0	5300.5	5375.8	5386.5
15°	5096.5	5112.6	5069.6	5058.9	5123.3	5155.6	5160.8	5193.1	5241.4	5327.4	5343.5
17.5°	4999.8	5010.5	4978.4	4967.7	5032.1	5064.2	5069.6	5107.2	5166.3	5252.3	5279.1
20°	4886.9	4897.8	4865.5	4854.8	4919.2	4956.8	4962.2	4994.5	5064.2	5155.6	5182.4
22.5°	4752.7	4774.3	4736.8	4725.9	4790.5	4822.5	4838.7	4865.5	4935.4	5026.6	5064.2
25°	4613.2	4613.2	4586.4	4580.9	4640.1	4677.6	4672.2	4709.7	4779.6	4871.0	4903.1
27.5°	4430.6	4425.1	4398.3	4393.0	4457.4	4489.7	4478.8	4516.5	4580.9	4672.2	4704.5
30°	4188.9	4199.6	4162.1	4151.2	4205.1	4258.8	4253.3	4290.9	4355.3	4441.3	4462.9
32.5°	3898.9	3909.6	3904.3	3888.2	3936.4	3963.3	3979.4	4006.3	4060.0	4151.2	4172.8
35°	3625.0	3608.8	3587.4	3587.4	3635.7	3678.7	3662.5	3694.8	3748.5	3839.7	3845.2
37.5°	3286.7	3281.2	3270.5	3259.8	3313.5	3324.2	3329.7	3351.1	3399.5	3474.6	3463.9
40°	2932.2	2937.5	2932.2	2910.6	2942.9	2985.9	2980.5	2991.4	3034.2	3087.9	3071.9
42.5°	2599.2	2599.2	2599.2	2577.8	2615.3	2636.9	2647.6	2642.2	2652.9	2701.3	2679.7
45°	2282.5	2287.7	2282.5	2277.0	2282.5	2293.2	2282.5	2277.0	2277.0	2293.2	2260.9
47.5°	2008.6	2008.6	1992.4	1976.3	1992.4	1997.7	1981.7	1965.6	1960.1	1954.9	1901.2
50°	1761.5	1756.1	1750.8	1724.0	1739.9	1745.4	1724.0	1713.1	1691.7	1664.8	1600.5
52.5°	1546.8	1541.3	1535.9	1509.0	1519.9	1525.2	1503.8	1482.2	1455.3	1433.9	1353.4
55°	1364.1	1358.6	1358.6	1342.7	1331.8	1342.7	1321.1	1304.9	1267.4	1240.6	1160.0
57.5°	1208.3	1208.3	1197.6	1181.4	1186.9	1186.9	1165.5	1143.9	1111.6	1079.5	1015.1
60°	1074.0	1074.0	1074.0	1057.9	1057.9	1057.9	1047.2	1025.8	998.9	966.6	902.3
62.5°	966.6	966.6	961.2	945.3	950.5	950.5	939.8	918.4	891.6	870.0	805.6
65°	880.7	880.7	880.7	864.7	864.7	870.0	859.3	837.9	816.3	789.4	730.3
67.5°	773.3	768.0	768.0	757.1	762.6	768.0	757.1	741.2	714.3	698.2	644.5
70°	639.0	644.5	649.7	633.8	639.0	639.0	633.8	617.7	601.5	585.4	537.1
72.5°	521.0	521.0	515.5	510.3	510.3	515.5	504.8	488.7	478.0	467.3	429.5
75°	397.4	392.0	397.4	386.7	386.7	386.7	375.8	370.6	365.1	349.0	322.1
77.5°	290.1	284.6	284.6	273.9	279.4	279.4	273.9	263.2	252.3	247.1	225.5
80°	198.6	198.6	198.6	193.4	193.4	187.9	187.9	182.7	171.8	166.5	155.8
82.5°	134.2	134.2	134.2	129.0	129.0	129.0	123.5	118.1	112.8	107.4	96.7
85°	86.0	86.0	86.0	80.5	80.5	80.5	75.1	75.1	69.8	64.4	53.7
87.5°	48.2	48.2	48.2	43.0	43.0	43.0	43.0	43.0	37.5	32.3	26.8
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°	5617.4	5617.4	5617.4	5617.4	5617.4	5617.4	5617.4	5617.4	5617.4	5617.4	5617.4
2.5°	5595.8	5520.7	5569.0	5569.0	5553.0	5595.8	5622.9	5644.3	5638.8	5590.6	5585.1
5°	5553.0	5488.4	5542.1	5547.6	5531.4	5590.6	5628.1	5655.0	5660.4	5617.4	5622.9
7.5°	5520.7	5467.0	5536.9	5558.3	5553.0	5606.7	5649.7	5692.5	5714.1	5681.8	5687.3
10°	5504.6	5461.6	5536.9	5569.0	5574.4	5633.6	5698.0	5757.1	5783.9	5762.3	5778.5
12.5°	5483.2	5456.3	5542.1	5590.6	5612.0	5671.1	5751.7	5821.5	5864.5	5853.8	5885.9
15°	5461.6	5440.2	5542.1	5612.0	5638.8	5692.5	5783.9	5885.9	5934.3	5928.9	5971.9
17.5°	5407.9	5402.7	5510.0	5585.1	5622.9	5687.3	5773.0	5896.6	5945.0	5955.7	6009.4
20°	5322.1	5322.1	5440.2	5520.7	5563.7	5622.9	5730.3	5848.3	5907.5	5918.2	5977.3
22.5°	5203.8	5214.5	5327.4	5407.9	5472.5	5515.3	5628.1	5751.7	5805.3	5821.5	5885.9
25°	5048.2	5058.9	5166.3	5246.8	5316.7	5364.9	5472.5	5585.1	5649.7	5665.7	5714.1
27.5°	4844.1	4865.5	4967.7	5048.2	5107.2	5139.4	5252.3	5370.4	5418.6	5434.8	5483.2
30°	4607.8	4613.2	4715.2	4785.0	4844.1	4871.0	4967.7	5091.2	5128.7	5144.9	5214.5
32.5°	4317.7	4312.5	4409.2	4473.6	4521.8	4554.1	4656.0	4736.8	4774.3	4801.2	4838.7
35°	3968.7	3963.3	4033.1	4108.4	4146.0	4156.7	4258.8	4344.6	4366.2	4387.6	4436.0
37.5°	3576.7	3576.7	3635.7	3673.4	3716.2	3732.4	3780.8	3877.5	3915.0	3909.6	3947.1
40°	3163.2	3141.8	3184.6	3222.3	3233.0	3238.2	3286.7	3361.8	3388.6	3388.6	3415.5
42.5°	2728.2	2695.9	2701.3	2722.7	2733.4	2695.9	2728.2	2776.4	2760.3	2781.9	2787.3
45°	2266.3	2217.9	2196.5	2148.1	2159.0	2121.2	2099.8	2110.5	2105.3	2051.6	2062.3
47.5°	1890.3	1804.5	1766.8	1697.1	1681.0	1638.0	1611.1	1562.7	1519.9	1519.9	1492.9
50°	1573.6	1487.6	1412.3	1331.8	1304.9	1267.4	1208.3	1143.9	1111.6	1079.5	1052.6
52.5°	1321.1	1229.9	1138.4	1052.6	1015.1	966.6	886.1	821.7	762.6	730.3	698.2
55°	1117.0	1015.1	918.4	827.0	778.7	730.3	649.7	574.7	504.8	461.8	435.0
57.5°	961.2	864.7	762.6	665.9	622.9	569.2	483.4	402.7	338.3	290.1	263.2
60°	848.6	751.9	660.6	558.5	515.5	461.8	370.6	295.3	230.9	187.9	155.8
62.5°	751.9	665.9	569.2	478.0	435.0	381.3	295.3	220.2	161.1	118.1	91.2
65°	682.0	596.1	515.5	424.3	386.7	333.0	252.3	182.7	129.0	91.2	64.4
67.5°	601.5	526.2	445.7	370.6	333.0	290.1	214.8	155.8	107.4	75.1	53.7
70°	504.8	445.7	375.8	306.2	279.4	241.6	177.2	129.0	86.0	59.1	43.0
72.5°	402.7	354.4	300.8	247.1	225.5	187.9	144.9	102.1	64.4	43.0	32.3
75°	306.2	268.5	225.5	187.9	166.5	144.9	107.4	75.1	48.2	32.3	21.4
77.5°	209.5	193.4	161.1	129.0	118.1	102.1	69.8	48.2	32.3	21.4	10.7
80°	144.9	129.0	107.4	86.0	75.1	64.4	43.0	32.3	16.1	10.7	5.4
82.5°	91.2	75.1	64.4	53.7	48.2	37.5	26.8	16.1	10.7	5.4	5.4
85°	48.2	43.0	37.5	26.8	26.8	21.4	16.1	10.7	5.4	0.0	0.0
87.5°	26.8	21.4	16.1	10.7	10.7	5.4	5.4	5.4	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°	5617.4	5617.4	5617.4	5617.4	5617.4	5617.4	5617.4	5617.4	5617.4	5617.4	5617.4
2.5°	5649.7	5649.7	5644.3	5708.7	5633.6	5708.7	5671.1	5708.7	5655.0	5649.7	5655.0
5°	5692.5	5708.7	5714.1	5773.0	5703.4	5794.6	5762.3	5794.6	5757.1	5767.8	5783.9
7.5°	5778.5	5805.3	5800.1	5875.2	5805.3	5907.5	5885.9	5934.3	5896.6	5907.5	5928.9
10°	5875.2	5907.5	5912.7	5988.0	5923.4	6047.0	6020.1	6073.8	6041.7	6057.9	6084.7
12.5°	5988.0	6025.6	6031.0	6116.8	6047.0	6175.9	6159.8	6213.5	6186.6	6202.8	6235.1
15°	6073.8	6127.5	6138.4	6224.2	6149.1	6283.3	6272.6	6342.5	6299.5	6326.3	6353.2
17.5°	6116.8	6165.2	6186.6	6267.2	6202.8	6337.0	6326.3	6385.5	6353.2	6380.0	6412.3
20°	6089.9	6149.1	6165.2	6245.8	6181.4	6315.6	6299.5	6358.6	6326.3	6347.7	6380.0
22.5°	5993.3	6052.4	6073.8	6149.1	6089.9	6213.5	6208.2	6261.9	6218.9	6245.8	6272.6
25°	5821.5	5885.9	5896.6	5966.4	5902.0	6031.0	6020.1	6079.3	6047.0	6063.1	6100.6
27.5°	5574.4	5649.7	5665.7	5724.8	5676.6	5783.9	5783.9	5832.2	5794.6	5794.6	5832.2
30°	5279.1	5354.2	5364.9	5413.4	5370.4	5467.0	5472.5	5520.7	5461.6	5493.9	5499.3
32.5°	4919.2	4967.7	4999.8	5042.8	4978.4	5101.9	5085.8	5123.3	5091.2	5091.2	5118.1
35°	4484.2	4543.4	4559.5	4613.2	4559.5	4656.0	4656.0	4677.6	4645.3	4645.3	4688.3
37.5°	4011.7	4054.7	4060.0	4113.7	4070.7	4151.2	4146.0	4162.1	4129.8	4151.2	4151.2
40°	3458.5	3490.8	3501.5	3528.3	3523.1	3582.0	3576.7	3587.4	3571.3	3576.7	3587.4
42.5°	2814.2	2857.0	2878.6	2899.9	2867.9	2948.4	2932.2	2948.4	2942.9	2948.4	2964.5
45°	2073.0	2105.3	2121.2	2126.7	2116.0	2164.2	2201.8	2169.7	2174.9	2164.2	2185.8
47.5°	1498.3	1503.8	1492.9	1525.2	1498.3	1519.9	1530.6	1535.9	1503.8	1498.3	1519.9
50°	1025.8	1052.6	1015.1	1031.0	1025.8	1047.2	1036.5	1041.9	1009.6	1025.8	1015.1
52.5°	682.0	676.6	665.9	671.3	660.6	660.6	660.6	671.3	649.7	639.0	628.4
55°	413.6	402.7	381.3	375.8	375.8	381.3	370.6	359.9	359.9	354.4	354.4
57.5°	241.6	225.5	214.8	209.5	198.6	193.4	187.9	187.9	177.2	177.2	177.2
60°	134.2	118.1	107.4	96.7	96.7	91.2	86.0	80.5	80.5	80.5	75.1
62.5°	69.8	59.1	48.2	43.0	43.0	37.5	32.3	32.3	32.3	32.3	26.8
65°	48.2	37.5	32.3	26.8	26.8	21.4	21.4	21.4	21.4	21.4	21.4
67.5°	37.5	32.3	26.8	21.4	21.4	21.4	16.1	16.1	16.1	16.1	16.1
70°	32.3	21.4	21.4	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1
72.5°	21.4	21.4	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1
75°	16.1	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7
77.5°	5.4	5.4	5.4	5.4	5.4	5.4	0.0	0.0	0.0	0.0	0.0
80°	5.4	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: P685285

CATALOG NUMBER: LX6C90D010 EX6909050 6LCSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	5617.4	5617.4	5617.4	5617.4	5617.4	5617.4	5617.4	5617.4
2.5°	5703.4	5698.0	5703.4	5714.1	5692.5	5757.1	5724.8	5757.1
5°	5826.9	5832.2	5837.6	5853.8	5826.9	5907.5	5864.5	5912.7
7.5°	5988.0	5993.3	5998.7	6014.9	5998.7	6079.3	6031.0	6073.8
10°	6154.5	6165.2	6165.2	6192.1	6175.9	6251.0	6218.9	6272.6
12.5°	6310.2	6320.9	6331.8	6347.7	6337.0	6417.5	6390.7	6433.7
15°	6433.7	6455.1	6460.5	6481.9	6471.2	6557.2	6524.9	6567.9
17.5°	6492.8	6514.2	6514.2	6541.1	6530.4	6621.6	6578.6	6627.1
20°	6460.5	6476.7	6481.9	6509.0	6498.1	6589.5	6546.5	6605.5
22.5°	6358.6	6363.9	6369.3	6396.2	6390.7	6471.2	6433.7	6471.2
25°	6170.5	6186.6	6181.4	6202.8	6202.8	6267.2	6224.2	6256.5
27.5°	5902.0	5918.2	5918.2	5945.0	5923.4	5988.0	5945.0	5993.3
30°	5574.4	5590.6	5579.9	5601.3	5579.9	5644.3	5612.0	5628.1
32.5°	5182.4	5182.4	5187.7	5193.1	5182.4	5241.4	5209.3	5241.4
35°	4715.2	4725.9	4731.3	4736.8	4725.9	4768.9	4731.3	4752.7
37.5°	4188.9	4215.8	4210.3	4215.8	4199.6	4253.3	4221.0	4231.9
40°	3625.0	3625.0	3619.5	3630.4	3614.3	3657.3	3635.7	3646.4
42.5°	2969.8	2985.9	2964.5	2991.4	2948.4	3007.3	2985.9	2969.8
45°	2228.8	2207.2	2201.8	2207.2	2191.1	2196.5	2212.7	2201.8
47.5°	1519.9	1519.9	1509.0	1492.9	1514.5	1519.9	1498.3	1498.3
50°	1020.3	1020.3	1009.6	1004.2	1015.1	1009.6	998.9	1015.1
52.5°	649.7	628.4	628.4	639.0	628.4	617.7	633.8	622.9
55°	354.4	343.7	343.7	354.4	343.7	343.7	338.3	349.0
57.5°	171.8	177.2	171.8	171.8	171.8	171.8	166.5	171.8
60°	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1
62.5°	32.3	32.3	26.8	26.8	26.8	26.8	26.8	26.8
65°	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4
67.5°	16.1	16.1	16.1	16.1	16.1	21.4	16.1	16.1
70°	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1
72.5°	16.1	16.1	21.4	21.4	21.4	21.4	21.4	21.4
75°	10.7	10.7	10.7	5.4	5.4	5.4	5.4	5.4
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)