

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: P684658

Luminaire Tested: **LX6C80D010 EX6C809035 6LCSWH**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P684658
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P252284)
Test Lab: INNOVATION CENTER
Issue Date: 2/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX6C80D010 EX6C809035 6LCSWH
Description: 6 INCH 8000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

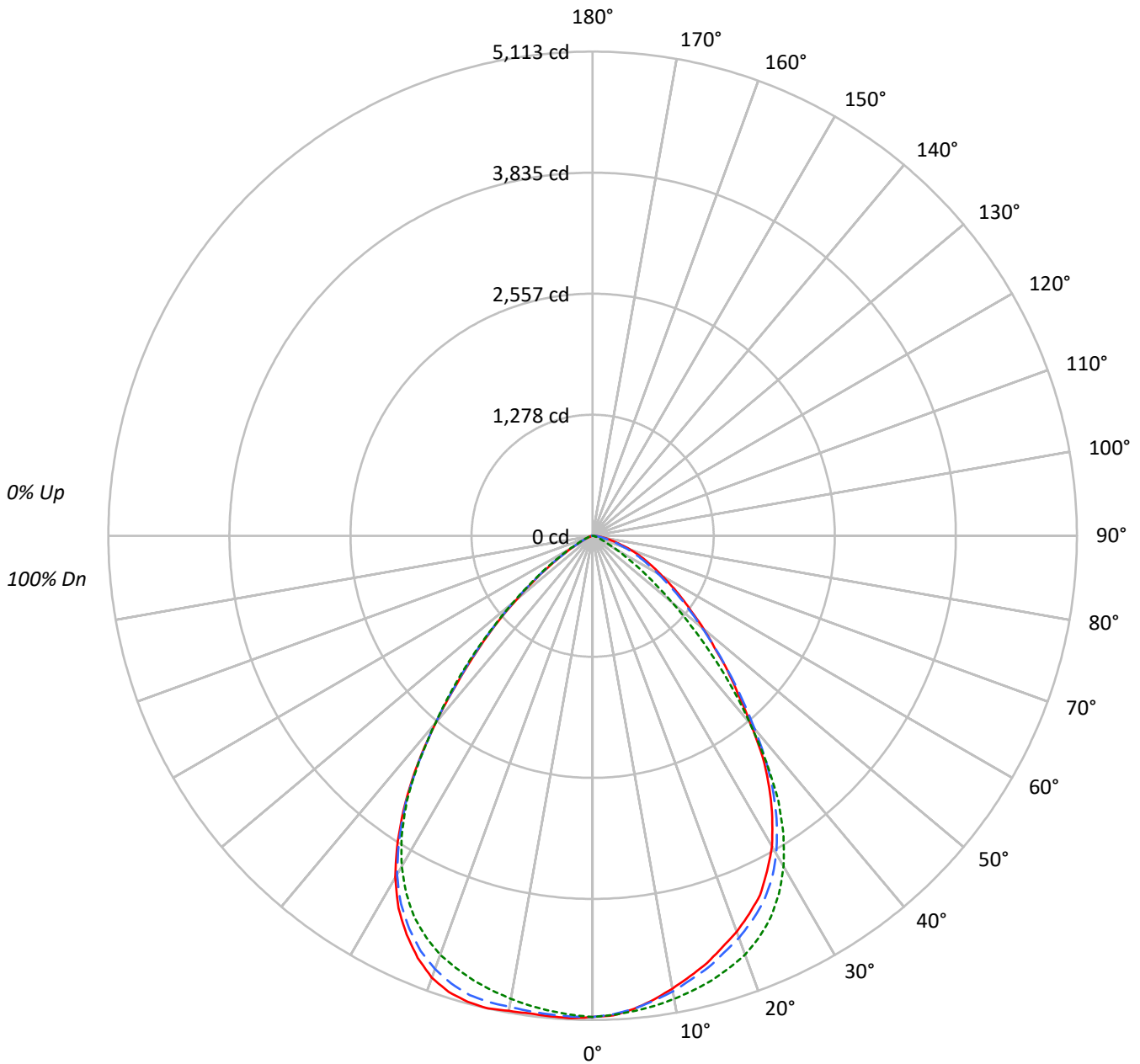
Lumens per Lamp: N/A
Luminaire Lumens: 8526.0 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 89.5
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	100	100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90	90	90	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80	80	80	80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72	72	72	72
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64	64	64	64
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58	58	58	58
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52	52	52	52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47	47	47	47
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43	43	43	43
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40	40	40	40
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37	37	37	37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	278602	278602	278602
5°	275946	277294	280337
10°	270258	276398	283579
15°	265087	275881	289122
20°	259588	274628	289668
25°	253194	269151	281030
30°	239727	255254	263800
35°	217701	228790	230844
40°	185798	184911	184031
45°	156070	138464	134184
50°	130350	93694	88995
55°	109702	57489	52213
60°	92876	30294	26237
65°	80411	15929	12725
70°	66886	9841	6876
75°	49415	6503	3918
80°	38768	3852	1957
85°	30946	3900	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	479.0	5.6
10°-20°	1371.4	16.1
20°-30°	2025.0	23.8
30°-40°	2087.0	24.5
40°-50°	1441.4	16.9
50°-60°	710.5	8.3
60°-70°	287.9	3.4
70°-80°	102.6	1.2
80°-90°	21.2	0.2
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°	3875.4	45.5
0°-40°	5962.3	69.9
0°-60°	8114.3	95.2
0°-90°	8526.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8526.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5082	5082	5082	5082	5082	
5°	5014	5014	5039	5076	5094	474
15°	4671	4720	4861	5021	5094	1315
25°	4186	4266	4450	4579	4646	1914
35°	3253	3333	3419	3437	3449	2016
45°	2013	2025	1786	1762	1731	1556
55°	1148	1105	602	565	546	1037
65°	620	559	123	98	98	616
75°	233	196	31	18	18	262
85°	49	37	6	0	0	60
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°	5082.1	5082.1	5082.1	5082.1	5082.1	5082.1	5082.1	5082.1	5082.1	5082.1	5082.1
2.5°	5069.7	5051.4	5063.6	5039.0	5069.7	5039.0	5045.2	5051.4	5045.2	5051.4	5057.4
5°	5014.5	4996.0	5014.5	4983.8	5014.5	4996.0	4996.0	5002.3	5002.3	5008.3	5014.5
7.5°	4940.9	4922.4	4940.9	4910.2	4946.9	4928.6	4928.6	4940.9	4934.6	4940.9	4953.1
10°	4855.0	4830.3	4848.8	4830.3	4867.2	4842.5	4855.0	4855.0	4855.0	4873.2	4885.7
12.5°	4762.9	4738.2	4762.9	4732.2	4768.9	4750.7	4756.7	4775.1	4781.1	4793.6	4799.6
15°	4670.8	4640.1	4652.4	4633.9	4670.8	4652.4	4658.6	4683.1	4683.1	4701.5	4720.0
17.5°	4554.3	4529.6	4554.3	4529.6	4560.3	4548.0	4560.3	4578.7	4578.7	4597.2	4615.4
20°	4449.7	4425.2	4443.7	4425.2	4462.2	4443.7	4449.7	4474.4	4480.4	4498.9	4517.3
22.5°	4320.9	4302.5	4314.7	4296.5	4333.1	4320.9	4327.1	4351.6	4357.8	4370.1	4400.8
25°	4185.9	4149.0	4167.4	4155.2	4192.1	4173.7	4185.9	4210.4	4222.8	4241.1	4265.8
27.5°	3989.5	3971.0	3983.2	3983.2	4013.9	3995.7	4001.7	4026.4	4044.6	4063.1	4093.8
30°	3787.1	3756.4	3768.6	3774.6	3799.3	3787.1	3799.3	3823.8	3830.0	3854.5	3878.9
32.5°	3529.3	3516.8	3541.5	3529.3	3541.5	3541.5	3547.5	3566.0	3578.2	3590.6	3621.3
35°	3253.0	3228.5	3253.0	3240.7	3271.4	3253.0	3271.4	3289.9	3289.9	3314.4	3332.8
37.5°	2952.2	2921.5	2933.8	2933.8	2946.0	2940.0	2940.0	2970.7	2976.7	2995.2	3013.6
40°	2596.3	2583.9	2608.6	2602.3	2608.6	2608.6	2614.6	2633.0	2645.3	2651.5	2657.7
42.5°	2277.1	2283.1	2289.4	2289.4	2289.4	2289.4	2289.4	2313.8	2307.8	2326.3	2332.3
45°	2013.1	1988.6	2000.9	1994.9	2013.1	1994.9	2013.1	2031.6	2019.3	2037.8	2025.3
47.5°	1743.0	1743.0	1743.0	1737.0	1749.3	1743.0	1755.3	1761.5	1761.5	1761.5	1755.3
50°	1528.4	1509.9	1515.9	1515.9	1522.2	1515.9	1528.4	1534.4	1534.4	1522.2	1497.7
52.5°	1319.5	1313.5	1313.5	1325.7	1325.7	1319.5	1319.5	1319.5	1319.5	1301.3	1288.8
55°	1147.8	1135.6	1141.6	1141.6	1141.6	1141.6	1147.8	1141.6	1141.6	1123.1	1104.9
57.5°	994.3	982.1	982.1	982.1	988.1	982.1	982.1	982.1	975.8	957.4	932.9
60°	847.1	840.8	847.1	847.1	853.1	847.1	847.1	847.1	834.8	816.4	791.7
62.5°	724.3	724.3	724.3	730.3	730.3	724.3	724.3	718.0	712.0	687.3	662.9
65°	619.9	613.7	619.9	619.9	625.9	625.9	619.9	613.7	607.7	583.0	558.6
67.5°	515.6	509.4	515.6	515.6	521.6	515.6	515.6	515.6	497.2	484.9	460.2
70°	417.3	411.3	411.3	411.3	417.3	405.1	411.3	411.3	399.1	380.6	355.9
72.5°	319.2	319.2	319.2	319.2	319.2	319.2	313.0	313.0	300.7	282.3	270.0
75°	233.3	233.3	239.3	239.3	233.3	233.3	233.3	227.1	220.9	208.6	196.4
77.5°	172.0	172.0	172.0	172.0	165.7	165.7	165.7	159.5	153.5	147.3	135.0
80°	122.8	122.8	122.8	116.6	122.8	116.6	116.6	116.6	104.3	98.1	92.1
82.5°	85.9	79.9	79.9	79.9	79.9	79.9	79.9	73.6	73.6	67.6	61.4
85°	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	42.9	36.9	36.9
87.5°	24.5	30.7	30.7	30.7	30.7	30.7	30.7	24.5	24.5	24.5	18.5
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°	5082.1	5082.1	5082.1	5082.1	5082.1	5082.1	5082.1	5082.1	5082.1	5082.1	5082.1
2.5°	5057.4	5057.4	5069.7	5051.4	5082.1	5063.6	5057.4	5088.1	5069.7	5063.6	5075.9
5°	5014.5	5020.7	5026.7	5014.5	5045.2	5026.7	5026.7	5057.4	5045.2	5039.0	5057.4
7.5°	4959.3	4965.3	4977.6	4971.6	4996.0	4983.8	4990.0	5020.7	5008.3	5008.3	5026.7
10°	4891.7	4903.9	4916.4	4916.4	4946.9	4934.6	4934.6	4971.6	4959.3	4965.3	4990.0
12.5°	4811.8	4830.3	4848.8	4855.0	4885.7	4867.2	4873.2	4916.4	4910.2	4916.4	4940.9
15°	4726.0	4750.7	4768.9	4768.9	4805.8	4787.4	4805.8	4848.8	4836.5	4861.0	4891.7
17.5°	4627.9	4652.4	4676.8	4683.1	4720.0	4707.5	4732.2	4775.1	4775.1	4787.4	4824.3
20°	4535.8	4566.5	4578.7	4597.2	4633.9	4627.9	4640.1	4689.3	4689.3	4707.5	4744.4
22.5°	4413.0	4443.7	4468.2	4486.6	4517.3	4517.3	4535.8	4578.7	4578.7	4591.0	4627.9
25°	4278.0	4314.7	4333.1	4351.6	4382.3	4376.1	4394.5	4431.5	4437.5	4449.7	4486.6
27.5°	4106.0	4136.7	4161.4	4173.7	4216.6	4192.1	4210.4	4253.5	4247.3	4259.5	4290.2
30°	3891.4	3922.1	3946.5	3946.5	3983.2	3983.2	4001.7	4020.2	4020.2	4032.4	4057.1
32.5°	3639.6	3676.5	3676.5	3695.0	3719.4	3695.0	3719.4	3743.9	3731.7	3750.1	3768.6
35°	3351.1	3369.5	3375.8	3375.8	3394.2	3388.0	3381.8	3400.2	3388.0	3418.7	3437.2
37.5°	3001.4	3025.9	3013.6	3025.9	3019.6	3001.4	3001.4	3032.1	3007.4	3013.6	3032.1
40°	2663.7	2663.7	2657.7	2627.0	2633.0	2614.6	2608.6	2614.6	2590.1	2583.9	2608.6
42.5°	2313.8	2307.8	2289.4	2246.4	2252.4	2221.7	2197.3	2197.3	2185.0	2178.8	2185.0
45°	2000.9	1982.4	1951.7	1902.8	1890.3	1865.8	1816.7	1804.4	1786.0	1786.0	1792.2
47.5°	1712.3	1687.9	1638.7	1583.6	1552.9	1522.2	1473.0	1454.5	1423.8	1411.6	1423.8
50°	1473.0	1430.1	1368.7	1288.8	1258.1	1221.4	1172.3	1141.6	1110.9	1098.6	1092.4
52.5°	1252.1	1190.7	1129.3	1031.2	1006.5	969.8	902.2	871.5	840.8	816.4	816.4
55°	1061.7	1006.5	920.7	828.6	791.7	755.0	687.3	644.4	613.7	601.5	589.2
57.5°	890.0	828.6	748.7	650.6	613.7	577.0	509.4	466.5	435.8	417.3	405.1
60°	748.7	681.3	601.5	515.6	472.7	435.8	368.4	325.2	294.5	276.3	263.8
62.5°	613.7	558.6	478.7	399.1	362.1	325.2	270.0	227.1	196.4	184.2	165.7
65°	515.6	460.2	386.6	319.2	288.5	251.6	202.6	165.7	141.3	122.8	110.6
67.5°	417.3	374.4	313.0	251.6	220.9	196.4	153.5	122.8	98.1	85.9	79.9
70°	331.4	288.5	239.3	190.2	172.0	147.3	116.6	85.9	73.6	61.4	55.2
72.5°	245.6	214.9	178.0	141.3	122.8	110.6	79.9	67.6	49.2	42.9	36.9
75°	178.0	153.5	128.8	98.1	85.9	79.9	61.4	42.9	36.9	30.7	24.5
77.5°	122.8	110.6	85.9	67.6	61.4	55.2	42.9	30.7	24.5	18.5	18.5
80°	79.9	67.6	55.2	42.9	42.9	36.9	24.5	18.5	18.5	12.2	12.2
82.5°	49.2	42.9	36.9	30.7	24.5	24.5	18.5	12.2	12.2	6.2	6.2
85°	30.7	24.5	18.5	18.5	12.2	12.2	12.2	6.2	6.2	6.2	6.2
87.5°	12.2	12.2	12.2	6.2	6.2	6.2	6.2	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	5082.1	5082.1	5082.1	5082.1	5082.1	5082.1	5082.1	5082.1	5082.1	5082.1	5082.1
2.5°	5075.9	5075.9	5088.1	5069.7	5082.1	5082.1	5094.3	5069.7	5082.1	5088.1	5100.3
5°	5051.4	5057.4	5069.7	5063.6	5069.7	5069.7	5082.1	5051.4	5075.9	5075.9	5094.3
7.5°	5026.7	5026.7	5039.0	5033.0	5045.2	5051.4	5063.6	5039.0	5063.6	5063.6	5082.1
10°	4996.0	4996.0	5014.5	5008.3	5026.7	5033.0	5051.4	5026.7	5051.4	5057.4	5075.9
12.5°	4953.1	4959.3	4977.6	4977.6	4996.0	5008.3	5026.7	5014.5	5045.2	5051.4	5075.9
15°	4903.9	4916.4	4940.9	4934.6	4953.1	4971.6	4996.0	4977.6	5020.7	5033.0	5057.4
17.5°	4842.5	4855.0	4873.2	4873.2	4891.7	4903.9	4934.6	4922.4	4959.3	4965.3	4996.0
20°	4750.7	4768.9	4793.6	4787.4	4805.8	4818.1	4842.5	4830.3	4867.2	4879.5	4910.2
22.5°	4640.1	4652.4	4670.8	4670.8	4689.3	4701.5	4726.0	4707.5	4744.4	4750.7	4775.1
25°	4492.9	4505.1	4517.3	4523.6	4541.8	4548.0	4560.3	4548.0	4578.7	4585.0	4615.4
27.5°	4302.5	4308.7	4327.1	4327.1	4339.4	4345.4	4363.8	4339.4	4382.3	4382.3	4400.8
30°	4075.3	4069.3	4093.8	4081.6	4093.8	4093.8	4112.3	4100.0	4130.7	4118.5	4136.7
32.5°	3774.6	3787.1	3787.1	3774.6	3799.3	3793.1	3793.1	3780.8	3799.3	3805.3	3817.5
35°	3424.9	3443.2	3443.2	3449.4	3455.6	3437.2	3443.2	3406.5	3437.2	3443.2	3449.4
37.5°	3044.3	3025.9	3038.1	3019.6	3050.3	3013.6	3013.6	2989.2	3013.6	3013.6	3019.6
40°	2608.6	2602.3	2614.6	2602.3	2596.3	2590.1	2577.9	2559.4	2583.9	2571.6	2590.1
42.5°	2197.3	2191.0	2191.0	2178.8	2172.8	2172.8	2160.6	2148.1	2142.1	2142.1	2172.8
45°	1773.7	1786.0	1773.7	1767.7	1780.0	1767.7	1773.7	1749.3	1761.5	1749.3	1761.5
47.5°	1417.8	1423.8	1411.6	1399.4	1417.8	1399.4	1399.4	1380.9	1405.6	1405.6	1393.1
50°	1098.6	1092.4	1080.2	1092.4	1086.4	1086.4	1086.4	1067.9	1080.2	1061.7	1074.2
52.5°	810.1	804.1	804.1	797.9	804.1	797.9	797.9	791.7	791.7	785.7	791.7
55°	589.2	583.0	570.8	570.8	570.8	577.0	570.8	564.8	564.8	558.6	564.8
57.5°	399.1	386.6	386.6	386.6	386.6	380.6	380.6	374.4	380.6	374.4	380.6
60°	257.8	257.8	245.6	245.6	245.6	245.6	245.6	239.3	245.6	245.6	245.6
62.5°	159.5	159.5	153.5	147.3	153.5	147.3	147.3	147.3	153.5	147.3	153.5
65°	104.3	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
67.5°	73.6	67.6	67.6	67.6	67.6	67.6	67.6	61.4	67.6	67.6	67.6
70°	49.2	49.2	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9
72.5°	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7
75°	24.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5
77.5°	18.5	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
80°	12.2	12.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
82.5°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
85°	6.2	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	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
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: P684658

CATALOG NUMBER: LX6C80D010 EX6C809035 6LCSWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	5082.1	5082.1	5082.1	5082.1	5082.1	5082.1	5082.1	5082.1
2.5°	5082.1	5088.1	5075.9	5082.1	5069.7	5082.1	5088.1	5100.3
5°	5069.7	5075.9	5063.6	5075.9	5063.6	5075.9	5082.1	5094.3
7.5°	5057.4	5069.7	5057.4	5069.7	5057.4	5069.7	5075.9	5088.1
10°	5057.4	5075.9	5063.6	5082.1	5063.6	5075.9	5088.1	5094.3
12.5°	5057.4	5075.9	5069.7	5082.1	5075.9	5088.1	5100.3	5112.6
15°	5045.2	5063.6	5051.4	5069.7	5063.6	5069.7	5094.3	5094.3
17.5°	4977.6	4996.0	4996.0	5008.3	5008.3	5026.7	5039.0	5051.4
20°	4891.7	4910.2	4903.9	4922.4	4922.4	4940.9	4953.1	4965.3
22.5°	4762.9	4787.4	4781.1	4799.6	4793.6	4805.8	4830.3	4824.3
25°	4597.2	4627.9	4621.7	4633.9	4627.9	4627.9	4640.1	4646.1
27.5°	4394.5	4413.0	4406.8	4419.2	4406.8	4419.2	4431.5	4437.5
30°	4130.7	4143.0	4136.7	4143.0	4136.7	4149.0	4155.2	4167.4
32.5°	3811.5	3830.0	3811.5	3823.8	3817.5	3817.5	3842.2	3830.0
35°	3430.9	3437.2	3443.2	3443.2	3430.9	3437.2	3449.4	3449.4
37.5°	3007.4	3038.1	3001.4	3019.6	3013.6	3013.6	3013.6	3032.1
40°	2565.6	2571.6	2559.4	2559.4	2559.4	2553.2	2577.9	2571.6
42.5°	2148.1	2154.3	2148.1	2129.9	2135.9	2135.9	2154.3	2129.9
45°	1743.0	1755.3	1749.3	1749.3	1737.0	1737.0	1743.0	1730.8
47.5°	1380.9	1393.1	1374.9	1380.9	1368.7	1380.9	1374.9	1387.1
50°	1049.5	1061.7	1055.7	1061.7	1061.7	1049.5	1067.9	1043.5
52.5°	785.7	791.7	785.7	779.4	773.4	773.4	785.7	779.4
55°	558.6	552.3	552.3	552.3	558.6	558.6	552.3	546.3
57.5°	374.4	374.4	368.4	368.4	374.4	362.1	368.4	362.1
60°	239.3	239.3	239.3	239.3	233.3	239.3	239.3	239.3
62.5°	147.3	147.3	147.3	147.3	147.3	147.3	147.3	147.3
65°	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
67.5°	61.4	67.6	67.6	67.6	61.4	61.4	61.4	61.4
70°	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9
72.5°	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7
75°	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5
77.5°	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
80°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
82.5°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.2	6.2	6.2	6.2	6.2	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)