

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: P684676

Luminaire Tested: **LX6C80D010 EX6C809730 6LCSWH**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P684676
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 EX6C809730 6LCSWH
Description: 6 INCH 8000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 97CRI LEDS
AND 6LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

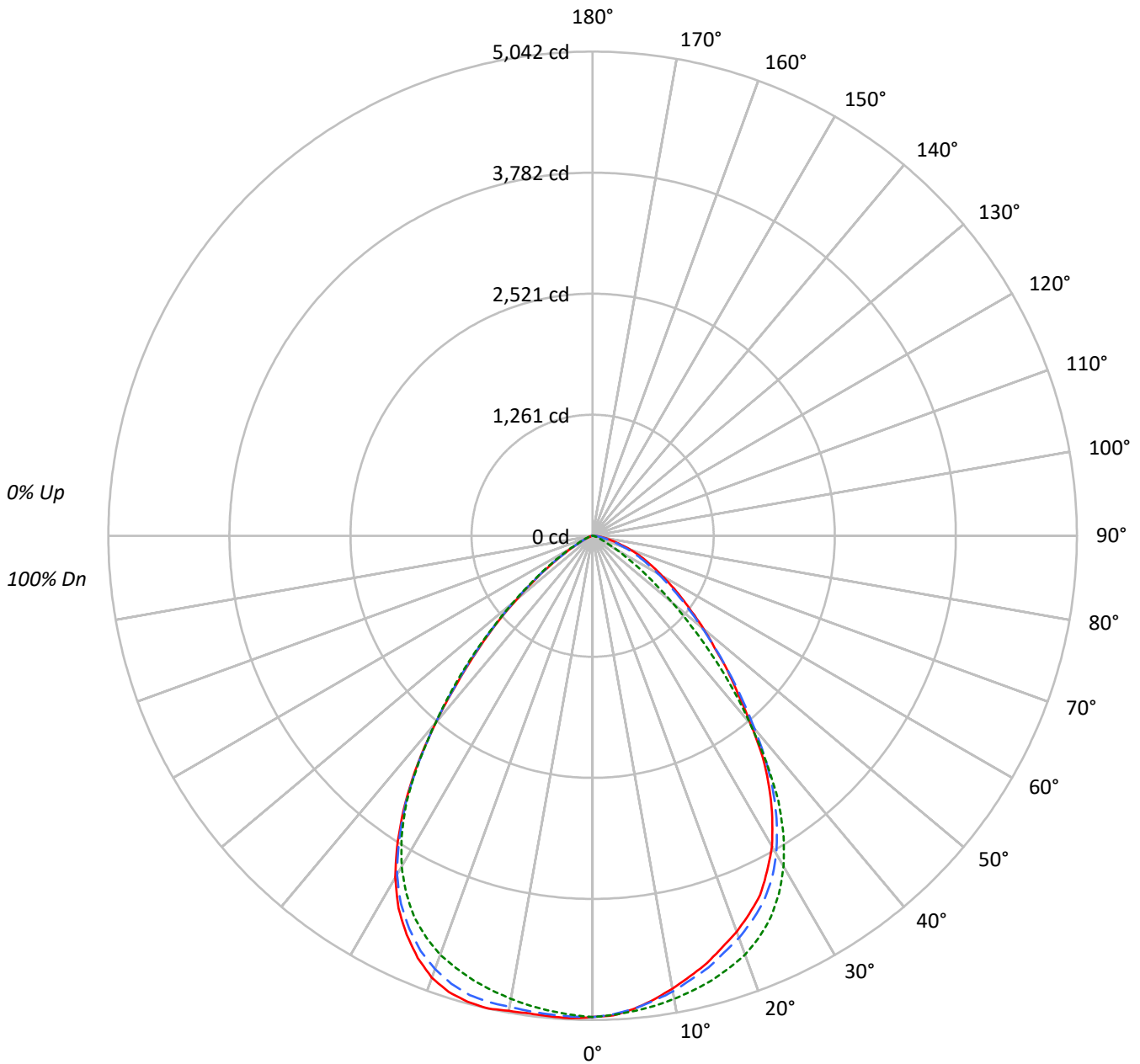
Lumens per Lamp: N/A
Luminaire Lumens: 8408.0 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P684676

CATALOG NUMBER: LX6C80D010 EX6C809730 6LCSWH

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	274748	274748	274748
5°	272127	273453	276458
10°	266517	272573	279654
15°	261420	272062	285121
20°	255995	270830	285660
25°	249692	265425	277141
30°	236403	251722	260154
35°	214689	225624	227652
40°	183229	182349	181483
45°	153907	136549	132332
50°	128542	92398	87758
55°	108183	56696	51496
60°	91583	29877	25875
65°	79308	15709	12543
70°	65957	9697	6780
75°	48737	6418	3855
80°	38231	3820	1926
85°	30506	3837	0



TEST NUMBER: P684676

CATALOG NUMBER: LX6C80D010 EX6C809730 6LCSWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	472.3	5.6
10°-20°	1352.4	16.1
20°-30°	1997.0	23.8
30°-40°	2058.1	24.5
40°-50°	1421.5	16.9
50°-60°	700.7	8.3
60°-70°	283.9	3.4
70°-80°	101.2	1.2
80°-90°	20.9	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°	3821.7	45.5
0°-40°	5879.8	69.9
0°-60°	8002.0	95.2
0°-90°	8408.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8408.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5012	5012	5012	5012	5012	
5°	4945	4945	4969	5006	5024	467
15°	4606	4655	4794	4951	5024	1297
25°	4128	4207	4388	4515	4582	1887
35°	3208	3287	3371	3390	3402	1988
45°	1985	1997	1761	1737	1707	1535
55°	1132	1090	593	557	539	1023
65°	611	551	121	97	97	607
75°	230	194	30	18	18	258
85°	48	36	6	0	0	59
90°	0	0	0	0	0	



TEST NUMBER: P684676

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	5011.8	5011.8	5011.8	5011.8	5011.8	5011.8	5011.8	5011.8	5011.8	5011.8	5011.8
2.5°	4999.5	4981.5	4993.6	4969.2	4999.5	4969.2	4975.4	4981.5	4975.4	4981.5	4987.4
5°	4945.1	4926.9	4945.1	4914.8	4945.1	4926.9	4926.9	4933.0	4933.0	4938.9	4945.1
7.5°	4872.5	4854.3	4872.5	4842.2	4878.4	4860.4	4860.4	4872.5	4866.3	4872.5	4884.5
10°	4787.8	4763.5	4781.7	4763.5	4799.9	4775.5	4787.8	4787.8	4787.8	4805.8	4818.1
12.5°	4697.0	4672.6	4697.0	4666.7	4702.9	4684.9	4690.8	4709.1	4715.0	4727.3	4733.2
15°	4606.2	4575.9	4588.0	4569.8	4606.2	4588.0	4594.1	4618.2	4618.2	4636.4	4654.7
17.5°	4491.2	4466.9	4491.2	4466.9	4497.1	4485.1	4497.1	4515.4	4515.4	4533.6	4551.5
20°	4388.1	4364.0	4382.2	4364.0	4400.4	4382.2	4388.1	4412.5	4418.4	4436.6	4454.8
22.5°	4261.1	4242.9	4255.0	4237.0	4273.2	4261.1	4267.3	4291.4	4297.5	4309.6	4339.9
25°	4128.0	4091.5	4109.8	4097.7	4134.1	4115.9	4128.0	4152.1	4164.4	4182.4	4206.7
27.5°	3934.3	3916.1	3928.1	3928.1	3958.4	3940.4	3946.3	3970.7	3988.7	4006.9	4037.1
30°	3734.6	3704.4	3716.4	3722.4	3746.7	3734.6	3746.7	3770.8	3777.0	3801.1	3825.2
32.5°	3480.4	3468.1	3492.5	3480.4	3492.5	3492.5	3498.4	3516.6	3528.7	3541.0	3571.2
35°	3208.0	3183.8	3208.0	3195.9	3226.2	3208.0	3226.2	3244.4	3244.4	3268.5	3286.7
37.5°	2911.4	2881.1	2893.2	2893.2	2905.2	2899.3	2899.3	2929.6	2935.5	2953.7	2971.9
40°	2560.4	2548.1	2572.5	2566.3	2572.5	2572.5	2578.4	2596.6	2608.7	2614.8	2620.9
42.5°	2245.6	2251.5	2257.7	2257.7	2257.7	2257.7	2257.7	2281.8	2275.9	2294.1	2300.0
45°	1985.2	1961.1	1973.2	1967.2	1985.2	1967.2	1985.2	2003.4	1991.4	2009.6	1997.3
47.5°	1718.9	1718.9	1718.9	1713.0	1725.1	1718.9	1731.0	1737.1	1737.1	1737.1	1731.0
50°	1507.2	1489.0	1495.0	1495.0	1501.1	1495.0	1507.2	1513.2	1513.2	1501.1	1477.0
52.5°	1301.3	1295.3	1295.3	1307.4	1307.4	1301.3	1301.3	1301.3	1301.3	1283.3	1271.0
55°	1131.9	1119.8	1125.8	1125.8	1125.8	1125.8	1131.9	1125.8	1125.8	1107.6	1089.6
57.5°	980.6	968.5	968.5	968.5	974.4	968.5	968.5	968.5	962.3	944.1	920.0
60°	835.3	829.2	835.3	835.3	841.3	835.3	835.3	835.3	823.3	805.1	780.7
62.5°	714.2	714.2	714.2	720.2	720.2	714.2	714.2	708.1	702.2	677.8	653.7
65°	611.4	605.2	611.4	611.4	617.3	617.3	611.4	605.2	599.3	574.9	550.8
67.5°	508.5	502.3	508.5	508.5	514.4	508.5	508.5	508.5	490.3	478.2	453.9
70°	411.5	405.6	405.6	405.6	411.5	399.5	405.6	405.6	393.5	375.3	351.0
72.5°	314.8	314.8	314.8	314.8	314.8	314.8	308.6	308.6	296.6	278.4	266.3
75°	230.1	230.1	236.0	236.0	230.1	230.1	230.1	224.0	217.8	205.8	193.7
77.5°	169.6	169.6	169.6	169.6	163.4	163.4	163.4	157.3	151.4	145.2	133.2
80°	121.1	121.1	121.1	114.9	121.1	114.9	114.9	114.9	102.9	96.7	90.8
82.5°	84.7	78.8	78.8	78.8	78.8	78.8	78.8	72.6	72.6	66.7	60.5
85°	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	42.3	36.4	36.4
87.5°	24.1	30.3	30.3	30.3	30.3	30.3	30.3	24.1	24.1	24.1	18.2
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: P684676

CATALOG NUMBER: LX6C80D010 EX6C809730 6LCSWH

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	5011.8	5011.8	5011.8	5011.8	5011.8	5011.8	5011.8	5011.8	5011.8	5011.8	5011.8
2.5°	4987.4	4987.4	4999.5	4981.5	5011.8	4993.6	4987.4	5017.7	4999.5	4993.6	5005.6
5°	4945.1	4951.2	4957.2	4945.1	4975.4	4957.2	4957.2	4987.4	4975.4	4969.2	4987.4
7.5°	4890.7	4896.6	4908.7	4902.8	4926.9	4914.8	4921.0	4951.2	4938.9	4938.9	4957.2
10°	4824.0	4836.1	4848.4	4848.4	4878.4	4866.3	4866.3	4902.8	4890.7	4896.6	4921.0
12.5°	4745.2	4763.5	4781.7	4787.8	4818.1	4799.9	4805.8	4848.4	4842.2	4848.4	4872.5
15°	4660.6	4684.9	4702.9	4702.9	4739.3	4721.1	4739.3	4781.7	4769.6	4793.7	4824.0
17.5°	4563.8	4588.0	4612.1	4618.2	4654.7	4642.4	4666.7	4709.1	4709.1	4721.1	4757.5
20°	4473.0	4503.3	4515.4	4533.6	4569.8	4563.8	4575.9	4624.4	4624.4	4642.4	4678.8
22.5°	4351.9	4382.2	4406.3	4424.5	4454.8	4454.8	4473.0	4515.4	4515.4	4527.4	4563.8
25°	4218.8	4255.0	4273.2	4291.4	4321.7	4315.5	4333.7	4370.1	4376.1	4388.1	4424.5
27.5°	4049.2	4079.5	4103.8	4115.9	4158.2	4134.1	4152.1	4194.7	4188.5	4200.6	4230.8
30°	3837.5	3867.8	3891.9	3891.9	3928.1	3928.1	3946.3	3964.5	3964.5	3976.6	4001.0
32.5°	3589.2	3625.6	3625.6	3643.8	3668.0	3643.8	3668.0	3692.1	3680.0	3698.2	3716.4
35°	3304.7	3322.9	3329.0	3329.0	3347.3	3341.1	3335.0	3353.2	3341.1	3371.4	3389.6
37.5°	2959.9	2984.0	2971.9	2984.0	2977.8	2959.9	2959.9	2990.1	2965.8	2971.9	2990.1
40°	2626.9	2626.9	2620.9	2590.7	2596.6	2578.4	2572.5	2578.4	2554.3	2548.1	2572.5
42.5°	2281.8	2275.9	2257.7	2215.3	2221.3	2191.0	2166.9	2166.9	2154.8	2148.7	2154.8
45°	1973.2	1955.0	1924.7	1876.4	1864.1	1840.0	1791.5	1779.5	1761.3	1761.3	1767.4
47.5°	1688.6	1664.5	1616.0	1561.6	1531.4	1501.1	1452.6	1434.4	1404.1	1392.1	1404.1
50°	1452.6	1410.3	1349.7	1271.0	1240.7	1204.5	1156.0	1125.8	1095.5	1083.4	1077.3
52.5°	1234.8	1174.2	1113.7	1017.0	992.6	956.4	889.7	859.5	829.2	805.1	805.1
55°	1047.0	992.6	907.9	817.1	780.7	744.5	677.8	635.5	605.2	593.2	581.1
57.5°	877.7	817.1	738.4	641.6	605.2	569.0	502.3	460.0	429.7	411.5	399.5
60°	738.4	671.9	593.2	508.5	466.1	429.7	363.3	320.7	290.4	272.5	260.2
62.5°	605.2	550.8	472.1	393.5	357.1	320.7	266.3	224.0	193.7	181.6	163.4
65°	508.5	453.9	381.2	314.8	284.5	248.1	199.8	163.4	139.3	121.1	109.0
67.5°	411.5	369.2	308.6	248.1	217.8	193.7	151.4	121.1	96.7	84.7	78.8
70°	326.9	284.5	236.0	187.6	169.6	145.2	114.9	84.7	72.6	60.5	54.4
72.5°	242.2	211.9	175.5	139.3	121.1	109.0	78.8	66.7	48.5	42.3	36.4
75°	175.5	151.4	127.0	96.7	84.7	78.8	60.5	42.3	36.4	30.3	24.1
77.5°	121.1	109.0	84.7	66.7	60.5	54.4	42.3	30.3	24.1	18.2	18.2
80°	78.8	66.7	54.4	42.3	42.3	36.4	24.1	18.2	18.2	12.1	12.1
82.5°	48.5	42.3	36.4	30.3	24.1	24.1	18.2	12.1	12.1	6.1	6.1
85°	30.3	24.1	18.2	18.2	12.1	12.1	12.1	6.1	6.1	6.1	6.1
87.5°	12.1	12.1	12.1	6.1	6.1	6.1	6.1	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°	5011.8	5011.8	5011.8	5011.8	5011.8	5011.8	5011.8	5011.8	5011.8	5011.8	5011.8
2.5°	5005.6	5005.6	5017.7	4999.5	5011.8	5011.8	5023.8	4999.5	5011.8	5017.7	5029.8
5°	4981.5	4987.4	4999.5	4993.6	4999.5	4999.5	5011.8	4981.5	5005.6	5005.6	5023.8
7.5°	4957.2	4957.2	4969.2	4963.3	4975.4	4981.5	4993.6	4969.2	4993.6	4993.6	5011.8
10°	4926.9	4926.9	4945.1	4938.9	4957.2	4963.3	4981.5	4957.2	4981.5	4987.4	5005.6
12.5°	4884.5	4890.7	4908.7	4908.7	4926.9	4938.9	4957.2	4945.1	4975.4	4981.5	5005.6
15°	4836.1	4848.4	4872.5	4866.3	4884.5	4902.8	4926.9	4908.7	4951.2	4963.3	4987.4
17.5°	4775.5	4787.8	4805.8	4805.8	4824.0	4836.1	4866.3	4854.3	4890.7	4896.6	4926.9
20°	4684.9	4702.9	4727.3	4721.1	4739.3	4751.4	4775.5	4763.5	4799.9	4811.9	4842.2
22.5°	4575.9	4588.0	4606.2	4606.2	4624.4	4636.4	4660.6	4642.4	4678.8	4684.9	4709.1
25°	4430.7	4442.7	4454.8	4461.0	4478.9	4485.1	4497.1	4485.1	4515.4	4521.5	4551.5
27.5°	4242.9	4249.1	4267.3	4267.3	4279.3	4285.2	4303.5	4279.3	4321.7	4321.7	4339.9
30°	4018.9	4013.0	4037.1	4025.1	4037.1	4037.1	4055.4	4043.3	4073.6	4061.5	4079.5
32.5°	3722.4	3734.6	3734.6	3722.4	3746.7	3740.6	3740.6	3728.5	3746.7	3752.6	3764.7
35°	3377.5	3395.5	3395.5	3401.7	3407.8	3389.6	3395.5	3359.3	3389.6	3395.5	3401.7
37.5°	3002.2	2984.0	2996.0	2977.8	3008.1	2971.9	2971.9	2947.8	2971.9	2971.9	2977.8
40°	2572.5	2566.3	2578.4	2566.3	2560.4	2554.3	2542.2	2524.0	2548.1	2536.0	2554.3
42.5°	2166.9	2160.7	2160.7	2148.7	2142.7	2142.7	2130.7	2118.4	2112.5	2112.5	2142.7
45°	1749.2	1761.3	1749.2	1743.3	1755.3	1743.3	1749.2	1725.1	1737.1	1725.1	1737.1
47.5°	1398.2	1404.1	1392.1	1380.0	1398.2	1380.0	1380.0	1361.8	1386.2	1386.2	1373.9
50°	1083.4	1077.3	1065.2	1077.3	1071.4	1071.4	1071.4	1053.2	1065.2	1047.0	1059.3
52.5°	798.9	793.0	793.0	786.9	793.0	786.9	786.9	780.7	780.7	774.8	780.7
55°	581.1	574.9	562.9	562.9	562.9	569.0	562.9	557.0	557.0	550.8	557.0
57.5°	393.5	381.2	381.2	381.2	381.2	375.3	375.3	369.2	375.3	369.2	375.3
60°	254.2	254.2	242.2	242.2	242.2	242.2	242.2	236.0	242.2	242.2	242.2
62.5°	157.3	157.3	151.4	145.2	151.4	145.2	145.2	145.2	151.4	145.2	151.4
65°	102.9	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
67.5°	72.6	66.7	66.7	66.7	66.7	66.7	66.7	60.5	66.7	66.7	66.7
70°	48.5	48.5	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3
72.5°	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3
75°	24.1	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
77.5°	18.2	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
80°	12.1	12.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
82.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
85°	6.1	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	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
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: P684676

CATALOG NUMBER: LX6C80D010 EX6C809730 6LCSWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	5011.8	5011.8	5011.8	5011.8	5011.8	5011.8	5011.8	5011.8
2.5°	5011.8	5017.7	5005.6	5011.8	4999.5	5011.8	5017.7	5029.8
5°	4999.5	5005.6	4993.6	5005.6	4993.6	5005.6	5011.8	5023.8
7.5°	4987.4	4999.5	4987.4	4999.5	4987.4	4999.5	5005.6	5017.7
10°	4987.4	5005.6	4993.6	5011.8	4993.6	5005.6	5017.7	5023.8
12.5°	4987.4	5005.6	4999.5	5011.8	5005.6	5017.7	5029.8	5041.8
15°	4975.4	4993.6	4981.5	4999.5	4993.6	4999.5	5023.8	5023.8
17.5°	4908.7	4926.9	4926.9	4938.9	4938.9	4957.2	4969.2	4981.5
20°	4824.0	4842.2	4836.1	4854.3	4854.3	4872.5	4884.5	4896.6
22.5°	4697.0	4721.1	4715.0	4733.2	4727.3	4739.3	4763.5	4757.5
25°	4533.6	4563.8	4557.7	4569.8	4563.8	4563.8	4575.9	4581.8
27.5°	4333.7	4351.9	4345.8	4358.1	4345.8	4358.1	4370.1	4376.1
30°	4073.6	4085.6	4079.5	4085.6	4079.5	4091.5	4097.7	4109.8
32.5°	3758.8	3777.0	3758.8	3770.8	3764.7	3764.7	3789.0	3777.0
35°	3383.4	3389.6	3395.5	3395.5	3383.4	3389.6	3401.7	3401.7
37.5°	2965.8	2996.0	2959.9	2977.8	2971.9	2971.9	2971.9	2990.1
40°	2530.1	2536.0	2524.0	2524.0	2524.0	2517.8	2542.2	2536.0
42.5°	2118.4	2124.5	2118.4	2100.4	2106.3	2106.3	2124.5	2100.4
45°	1718.9	1731.0	1725.1	1725.1	1713.0	1713.0	1718.9	1706.9
47.5°	1361.8	1373.9	1355.9	1361.8	1349.7	1361.8	1355.9	1367.9
50°	1034.9	1047.0	1041.1	1047.0	1047.0	1034.9	1053.2	1029.0
52.5°	774.8	780.7	774.8	768.6	762.7	762.7	774.8	768.6
55°	550.8	544.7	544.7	544.7	550.8	550.8	544.7	538.8
57.5°	369.2	369.2	363.3	363.3	369.2	357.1	363.3	357.1
60°	236.0	236.0	236.0	236.0	230.1	236.0	236.0	236.0
62.5°	145.2	145.2	145.2	145.2	145.2	145.2	145.2	145.2
65°	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
67.5°	60.5	66.7	66.7	66.7	60.5	60.5	60.5	60.5
70°	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3
72.5°	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3
75°	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
77.5°	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
80°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
82.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.1	6.1	6.1	6.1	6.1	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)