

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: P684672

Luminaire Tested: **LX6C80D010 EX6C809050 6LCSWH**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P684672
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 EX6C809050 6LCSWH
Description: 6 INCH 8000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

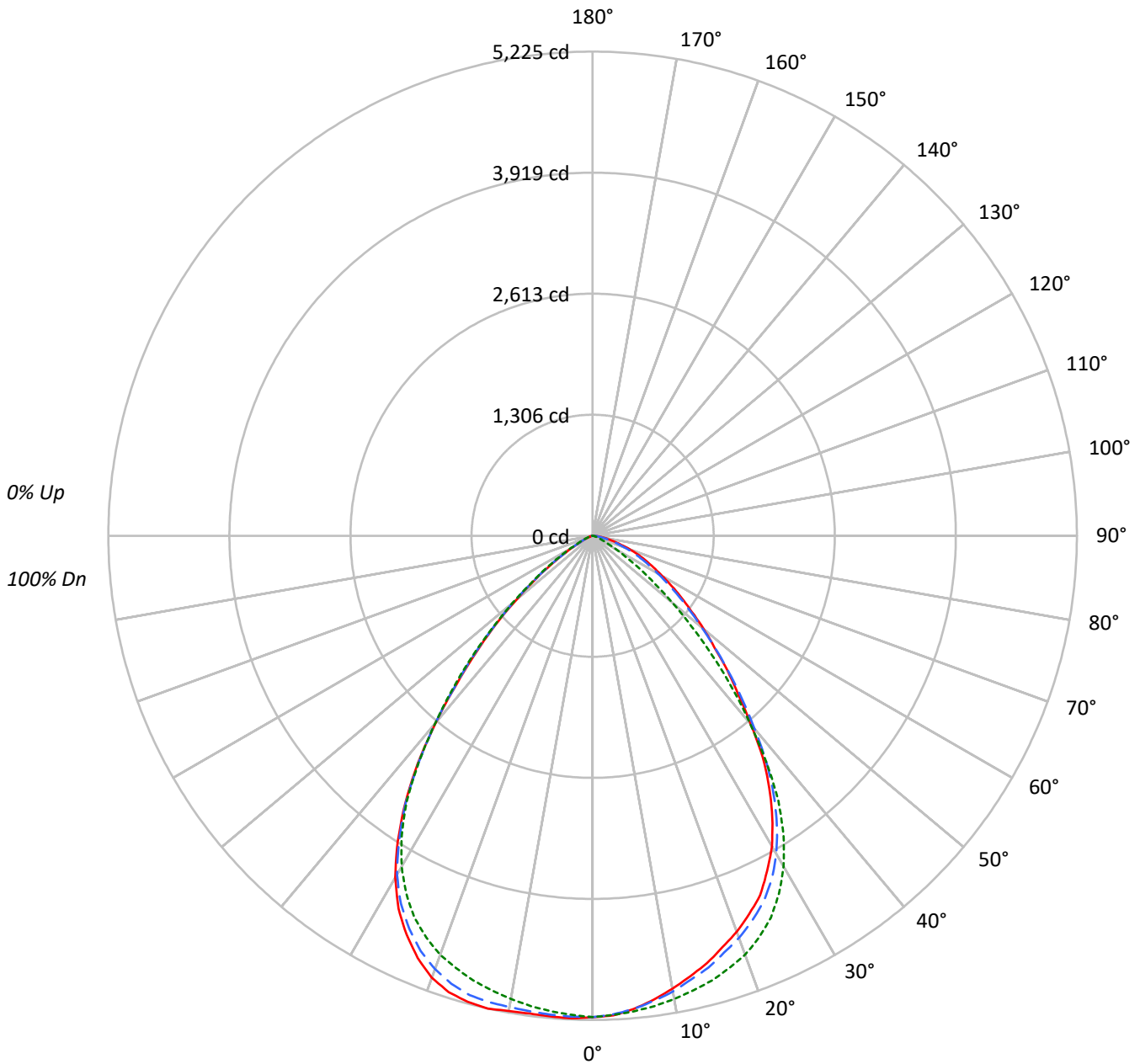
Lumens per Lamp: N/A
Luminaire Lumens: 8714.0 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	284747	284747	284747
5°	282032	283408	286522
10°	276220	282493	289835
15°	270932	281965	295501
20°	265311	280684	296056
25°	258777	275084	287230
30°	245012	260882	269617
35°	222499	233836	235937
40°	189899	188983	188088
45°	159513	141519	137146
50°	133224	95767	90956
55°	112120	58751	53370
60°	94916	30962	26818
65°	82188	16279	13010
70°	68361	10050	7036
75°	50516	6651	4003
80°	39620	3946	2020
85°	31575	4026	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	489.5	5.6
10°-20°	1401.6	16.1
20°-30°	2069.7	23.8
30°-40°	2133.0	24.5
40°-50°	1473.2	16.9
50°-60°	726.2	8.3
60°-70°	294.2	3.4
70°-80°	104.9	1.2
80°-90°	21.7	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°	3960.8	45.5
0°-40°	6093.8	69.9
0°-60°	8293.2	95.2
0°-90°	8714.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8714.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5194	5194	5194	5194	5194	
5°	5125	5125	5150	5188	5207	484
15°	4774	4824	4968	5131	5207	1344
25°	4278	4360	4548	4680	4749	1956
35°	3325	3406	3494	3513	3526	2060
45°	2058	2070	1825	1800	1769	1590
55°	1173	1129	615	577	558	1060
65°	634	571	126	100	100	629
75°	238	201	31	19	19	268
85°	50	38	6	0	0	61
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°	5194.2	5194.2	5194.2	5194.2	5194.2	5194.2	5194.2	5194.2	5194.2	5194.2	5194.2
2.5°	5181.4	5162.8	5175.3	5150.1	5181.4	5150.1	5156.4	5162.8	5156.4	5162.8	5168.9
5°	5125.1	5106.2	5125.1	5093.7	5125.1	5106.2	5106.2	5112.6	5112.6	5118.7	5125.1
7.5°	5049.8	5030.9	5049.8	5018.4	5055.9	5037.3	5037.3	5049.8	5043.4	5049.8	5062.3
10°	4962.1	4936.8	4955.7	4936.8	4974.6	4949.3	4962.1	4962.1	4962.1	4980.7	4993.4
12.5°	4867.9	4842.7	4867.9	4836.6	4874.1	4855.4	4861.6	4880.4	4886.6	4899.3	4905.4
15°	4773.8	4742.4	4754.9	4736.1	4773.8	4754.9	4761.3	4786.3	4786.3	4805.2	4824.1
17.5°	4654.7	4629.4	4654.7	4629.4	4660.8	4648.3	4660.8	4679.7	4679.7	4698.6	4717.2
20°	4547.8	4522.8	4541.7	4522.8	4560.6	4541.7	4547.8	4573.1	4579.2	4598.1	4616.9
22.5°	4416.2	4397.3	4409.8	4391.2	4428.7	4416.2	4422.6	4447.6	4453.9	4466.4	4497.8
25°	4278.2	4240.5	4259.3	4246.8	4284.6	4265.7	4278.2	4303.2	4315.9	4334.6	4359.8
27.5°	4077.4	4058.6	4071.1	4071.1	4102.5	4083.8	4090.0	4115.2	4133.8	4152.7	4184.1
30°	3870.6	3839.2	3851.7	3857.8	3883.1	3870.6	3883.1	3908.1	3914.4	3939.4	3964.5
32.5°	3607.1	3594.3	3619.6	3607.1	3619.6	3619.6	3625.7	3644.6	3657.1	3669.8	3701.2
35°	3324.7	3299.7	3324.7	3312.2	3343.6	3324.7	3343.6	3362.4	3362.4	3387.5	3406.3
37.5°	3017.3	2986.0	2998.5	2998.5	3011.0	3004.8	3004.8	3036.2	3042.3	3061.2	3080.1
40°	2653.6	2640.8	2666.1	2659.7	2666.1	2666.1	2672.2	2691.1	2703.6	2710.0	2716.3
42.5°	2327.3	2333.5	2339.8	2339.8	2339.8	2339.8	2339.8	2364.8	2358.7	2377.6	2383.7
45°	2057.5	2032.5	2045.0	2038.8	2057.5	2038.8	2057.5	2076.3	2063.8	2082.7	2070.0
47.5°	1781.5	1781.5	1781.5	1775.3	1787.8	1781.5	1794.0	1800.4	1800.4	1800.4	1794.0
50°	1562.1	1543.2	1549.4	1549.4	1555.7	1549.4	1562.1	1568.2	1568.2	1555.7	1530.7
52.5°	1348.6	1342.5	1342.5	1355.0	1355.0	1348.6	1348.6	1348.6	1348.6	1330.0	1317.2
55°	1173.1	1160.6	1166.7	1166.7	1166.7	1166.7	1173.1	1166.7	1166.7	1147.9	1129.2
57.5°	1016.2	1003.7	1003.7	1003.7	1009.9	1003.7	1003.7	1003.7	997.4	978.5	953.5
60°	865.7	859.4	865.7	865.7	871.9	865.7	865.7	865.7	853.2	834.4	809.1
62.5°	740.2	740.2	740.2	746.4	746.4	740.2	740.2	733.9	727.7	702.5	677.5
65°	633.6	627.2	633.6	633.6	639.7	639.7	633.6	627.2	621.1	595.9	570.9
67.5°	527.0	520.6	527.0	527.0	533.1	527.0	527.0	527.0	508.1	495.6	470.4
70°	426.5	420.4	420.4	420.4	426.5	414.0	420.4	420.4	407.9	389.0	363.8
72.5°	326.2	326.2	326.2	326.2	326.2	326.2	319.9	319.9	307.4	288.5	276.0
75°	238.5	238.5	244.6	244.6	238.5	238.5	238.5	232.1	225.8	213.2	200.7
77.5°	175.7	175.7	175.7	175.7	169.4	169.4	169.4	163.0	156.9	150.5	138.0
80°	125.5	125.5	125.5	119.1	125.5	119.1	119.1	119.1	106.6	100.3	94.1
82.5°	87.8	81.6	81.6	81.6	81.6	81.6	81.6	75.3	75.3	69.1	62.7
85°	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	43.9	37.7	37.7
87.5°	25.0	31.4	31.4	31.4	31.4	31.4	31.4	25.0	25.0	25.0	18.9
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°	5194.2	5194.2	5194.2	5194.2	5194.2	5194.2	5194.2	5194.2	5194.2	5194.2	5194.2
2.5°	5168.9	5168.9	5181.4	5162.8	5194.2	5175.3	5168.9	5200.3	5181.4	5175.3	5187.8
5°	5125.1	5131.4	5137.6	5125.1	5156.4	5137.6	5137.6	5168.9	5156.4	5150.1	5168.9
7.5°	5068.7	5074.8	5087.3	5081.2	5106.2	5093.7	5100.1	5131.4	5118.7	5118.7	5137.6
10°	4999.6	5012.1	5024.8	5024.8	5055.9	5043.4	5043.4	5081.2	5068.7	5074.8	5100.1
12.5°	4917.9	4936.8	4955.7	4962.1	4993.4	4974.6	4980.7	5024.8	5018.4	5024.8	5049.8
15°	4830.2	4855.4	4874.1	4874.1	4911.8	4892.9	4911.8	4955.7	4943.2	4968.2	4999.6
17.5°	4729.9	4754.9	4779.9	4786.3	4824.1	4811.3	4836.6	4880.4	4880.4	4892.9	4930.7
20°	4635.8	4667.2	4679.7	4698.6	4736.1	4729.9	4742.4	4792.7	4792.7	4811.3	4849.1
22.5°	4510.3	4541.7	4566.7	4585.6	4616.9	4616.9	4635.8	4679.7	4679.7	4692.2	4729.9
25°	4372.3	4409.8	4428.7	4447.6	4478.9	4472.6	4491.4	4529.2	4535.3	4547.8	4585.6
27.5°	4196.6	4227.9	4253.2	4265.7	4309.6	4284.6	4303.2	4347.3	4340.9	4353.4	4384.8
30°	3977.2	4008.6	4033.6	4033.6	4071.1	4071.1	4090.0	4108.8	4108.8	4121.3	4146.6
32.5°	3719.8	3757.6	3757.6	3776.4	3801.5	3776.4	3801.5	3826.5	3814.0	3832.8	3851.7
35°	3425.0	3443.8	3450.2	3450.2	3469.1	3462.7	3456.3	3475.2	3462.7	3494.1	3513.0
37.5°	3067.6	3092.6	3080.1	3092.6	3086.2	3067.6	3067.6	3099.0	3073.7	3080.1	3099.0
40°	2722.5	2722.5	2716.3	2685.0	2691.1	2672.2	2666.1	2672.2	2647.2	2640.8	2666.1
42.5°	2364.8	2358.7	2339.8	2296.0	2302.1	2270.7	2245.7	2245.7	2233.2	2226.9	2233.2
45°	2045.0	2026.1	1994.7	1944.7	1932.0	1907.0	1856.7	1844.2	1825.4	1825.4	1831.7
47.5°	1750.1	1725.1	1674.9	1618.5	1587.1	1555.7	1505.5	1486.6	1455.2	1442.7	1455.2
50°	1505.5	1461.6	1398.9	1317.2	1285.9	1248.4	1198.1	1166.7	1135.4	1122.9	1116.5
52.5°	1279.7	1217.0	1154.2	1054.0	1028.7	991.2	922.1	890.7	859.4	834.4	834.4
55°	1085.1	1028.7	941.0	846.9	809.1	771.6	702.5	658.6	627.2	614.7	602.2
57.5°	909.6	846.9	765.2	665.0	627.2	589.7	520.6	476.7	445.4	426.5	414.0
60°	765.2	696.4	614.7	527.0	483.1	445.4	376.5	332.4	301.0	282.4	269.6
62.5°	627.2	570.9	489.2	407.9	370.1	332.4	276.0	232.1	200.7	188.2	169.4
65°	527.0	470.4	395.1	326.2	294.9	257.1	207.1	169.4	144.4	125.5	113.0
67.5°	426.5	382.6	319.9	257.1	225.8	200.7	156.9	125.5	100.3	87.8	81.6
70°	338.7	294.9	244.6	194.4	175.7	150.5	119.1	87.8	75.3	62.7	56.4
72.5°	251.0	219.6	181.9	144.4	125.5	113.0	81.6	69.1	50.2	43.9	37.7
75°	181.9	156.9	131.6	100.3	87.8	81.6	62.7	43.9	37.7	31.4	25.0
77.5°	125.5	113.0	87.8	69.1	62.7	56.4	43.9	31.4	25.0	18.9	18.9
80°	81.6	69.1	56.4	43.9	43.9	37.7	25.0	18.9	18.9	12.5	12.5
82.5°	50.2	43.9	37.7	31.4	25.0	25.0	18.9	12.5	12.5	6.4	6.4
85°	31.4	25.0	18.9	18.9	12.5	12.5	12.5	6.4	6.4	6.4	6.4
87.5°	12.5	12.5	12.5	6.4	6.4	6.4	6.4	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°	5194.2	5194.2	5194.2	5194.2	5194.2	5194.2	5194.2	5194.2	5194.2	5194.2	5194.2
2.5°	5187.8	5187.8	5200.3	5181.4	5194.2	5194.2	5206.7	5181.4	5194.2	5200.3	5212.8
5°	5162.8	5168.9	5181.4	5175.3	5181.4	5181.4	5194.2	5162.8	5187.8	5187.8	5206.7
7.5°	5137.6	5137.6	5150.1	5143.9	5156.4	5162.8	5175.3	5150.1	5175.3	5175.3	5194.2
10°	5106.2	5106.2	5125.1	5118.7	5137.6	5143.9	5162.8	5137.6	5162.8	5168.9	5187.8
12.5°	5062.3	5068.7	5087.3	5087.3	5106.2	5118.7	5137.6	5125.1	5156.4	5162.8	5187.8
15°	5012.1	5024.8	5049.8	5043.4	5062.3	5081.2	5106.2	5087.3	5131.4	5143.9	5168.9
17.5°	4949.3	4962.1	4980.7	4980.7	4999.6	5012.1	5043.4	5030.9	5068.7	5074.8	5106.2
20°	4855.4	4874.1	4899.3	4892.9	4911.8	4924.3	4949.3	4936.8	4974.6	4987.1	5018.4
22.5°	4742.4	4754.9	4773.8	4773.8	4792.7	4805.2	4830.2	4811.3	4849.1	4855.4	4880.4
25°	4591.9	4604.4	4616.9	4623.3	4641.9	4648.3	4660.8	4648.3	4679.7	4686.1	4717.2
27.5°	4397.3	4403.7	4422.6	4422.6	4435.1	4441.2	4460.1	4435.1	4478.9	4478.9	4497.8
30°	4165.2	4159.1	4184.1	4171.6	4184.1	4184.1	4202.9	4190.4	4221.8	4209.3	4227.9
32.5°	3857.8	3870.6	3870.6	3857.8	3883.1	3876.7	3876.7	3864.2	3883.1	3889.2	3901.7
35°	3500.4	3519.1	3519.1	3525.5	3531.8	3513.0	3519.1	3481.6	3513.0	3519.1	3525.5
37.5°	3111.5	3092.6	3105.1	3086.2	3117.6	3080.1	3080.1	3055.1	3080.1	3080.1	3086.2
40°	2666.1	2659.7	2672.2	2659.7	2653.6	2647.2	2634.7	2615.8	2640.8	2628.3	2647.2
42.5°	2245.7	2239.4	2239.4	2226.9	2220.7	2220.7	2208.2	2195.5	2189.3	2189.3	2220.7
45°	1812.9	1825.4	1812.9	1806.7	1819.2	1806.7	1812.9	1787.8	1800.4	1787.8	1800.4
47.5°	1449.1	1455.2	1442.7	1430.2	1449.1	1430.2	1430.2	1411.4	1436.6	1436.6	1423.9
50°	1122.9	1116.5	1104.0	1116.5	1110.4	1110.4	1110.4	1091.5	1104.0	1085.1	1097.9
52.5°	828.0	821.9	821.9	815.5	821.9	815.5	815.5	809.1	809.1	803.0	809.1
55°	602.2	595.9	583.4	583.4	583.4	589.7	583.4	577.2	577.2	570.9	577.2
57.5°	407.9	395.1	395.1	395.1	395.1	389.0	389.0	382.6	389.0	382.6	389.0
60°	263.5	263.5	251.0	251.0	251.0	251.0	251.0	244.6	251.0	251.0	251.0
62.5°	163.0	163.0	156.9	150.5	156.9	150.5	150.5	150.5	156.9	150.5	156.9
65°	106.6	100.3	100.3	100.3	100.3	100.3	100.3	100.3	100.3	100.3	100.3
67.5°	75.3	69.1	69.1	69.1	69.1	69.1	69.1	62.7	69.1	69.1	69.1
70°	50.2	50.2	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
72.5°	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4
75°	25.0	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9
77.5°	18.9	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
80°	12.5	12.5	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
82.5°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
85°	6.4	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	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
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: P684672

CATALOG NUMBER: LX6C80D010 EX6C809050 6LCSWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	5194.2	5194.2	5194.2	5194.2	5194.2	5194.2	5194.2	5194.2
2.5°	5194.2	5200.3	5187.8	5194.2	5181.4	5194.2	5200.3	5212.8
5°	5181.4	5187.8	5175.3	5187.8	5175.3	5187.8	5194.2	5206.7
7.5°	5168.9	5181.4	5168.9	5181.4	5168.9	5181.4	5187.8	5200.3
10°	5168.9	5187.8	5175.3	5194.2	5175.3	5187.8	5200.3	5206.7
12.5°	5168.9	5187.8	5181.4	5194.2	5187.8	5200.3	5212.8	5225.3
15°	5156.4	5175.3	5162.8	5181.4	5175.3	5181.4	5206.7	5206.7
17.5°	5087.3	5106.2	5106.2	5118.7	5118.7	5137.6	5150.1	5162.8
20°	4999.6	5018.4	5012.1	5030.9	5030.9	5049.8	5062.3	5074.8
22.5°	4867.9	4892.9	4886.6	4905.4	4899.3	4911.8	4936.8	4930.7
25°	4698.6	4729.9	4723.6	4736.1	4729.9	4729.9	4742.4	4748.6
27.5°	4491.4	4510.3	4503.9	4516.7	4503.9	4516.7	4529.2	4535.3
30°	4221.8	4234.3	4227.9	4234.3	4227.9	4240.5	4246.8	4259.3
32.5°	3895.6	3914.4	3895.6	3908.1	3901.7	3901.7	3926.9	3914.4
35°	3506.6	3513.0	3519.1	3519.1	3506.6	3513.0	3525.5	3525.5
37.5°	3073.7	3105.1	3067.6	3086.2	3080.1	3080.1	3080.1	3099.0
40°	2622.2	2628.3	2615.8	2615.8	2615.8	2609.5	2634.7	2628.3
42.5°	2195.5	2201.8	2195.5	2176.8	2183.0	2183.0	2201.8	2176.8
45°	1781.5	1794.0	1787.8	1787.8	1775.3	1775.3	1781.5	1769.0
47.5°	1411.4	1423.9	1405.2	1411.4	1398.9	1411.4	1405.2	1417.7
50°	1072.6	1085.1	1079.0	1085.1	1085.1	1072.6	1091.5	1066.5
52.5°	803.0	809.1	803.0	796.6	790.5	790.5	803.0	796.6
55°	570.9	564.5	564.5	564.5	570.9	570.9	564.5	558.4
57.5°	382.6	382.6	376.5	376.5	382.6	370.1	376.5	370.1
60°	244.6	244.6	244.6	244.6	238.5	244.6	244.6	244.6
62.5°	150.5	150.5	150.5	150.5	150.5	150.5	150.5	150.5
65°	100.3	100.3	100.3	100.3	100.3	100.3	100.3	100.3
67.5°	62.7	69.1	69.1	69.1	62.7	62.7	62.7	62.7
70°	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
72.5°	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4
75°	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9
77.5°	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
80°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
82.5°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.4	6.4	6.4	6.4	6.4	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)