

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: P684690

Luminaire Tested: **LX6C90D010 EX6C909030 6LCSWH**

Issue Date: 2/15/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P684690  
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: LX6C90D010 EX6C909030 6LCSWH  
Description: 6 INCH 9000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 6LCSW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

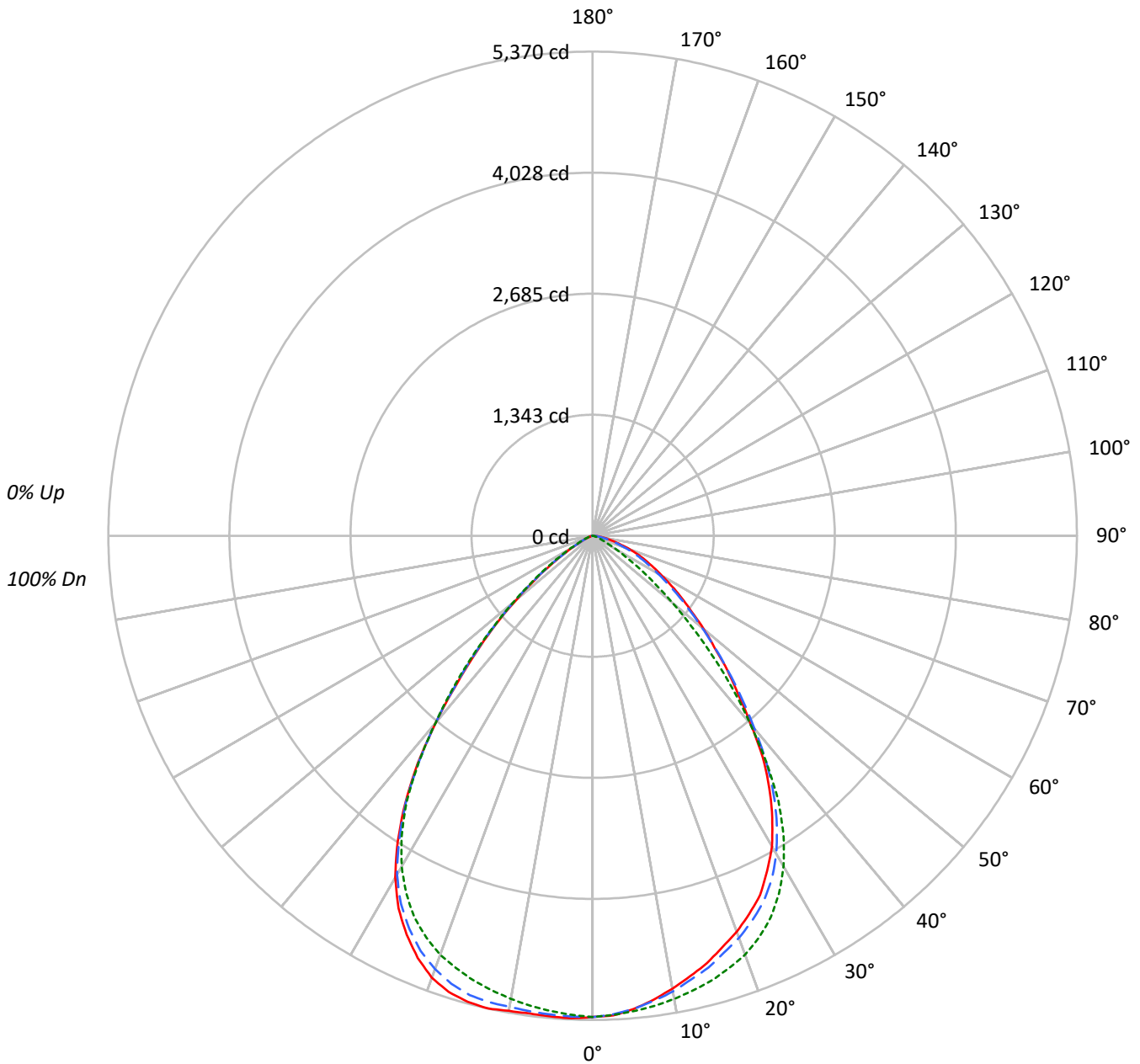
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8955.0 lumens  
Efficiency: N/A  
Efficacy: 92.2 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): 97.1  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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°	292619	292619	292619
5°	289830	291244	294447
10°	283857	290309	297851
15°	278424	289763	303674
20°	272650	288448	304246
25°	265933	282694	295172
30°	251786	268098	277074
35°	228656	240301	242462
40°	195151	194214	193291
45°	163924	145426	140937
50°	136908	98410	93472
55°	115226	60375	54842
60°	97547	31818	27564
65°	84458	16733	13361
70°	70252	10338	7229
75°	51914	6820	4109
80°	40725	4041	2052
85°	32456	4088	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	503.0	5.6
10°-20°	1440.4	16.1
20°-30°	2126.9	23.8
30°-40°	2192.0	24.5
40°-50°	1514.0	16.9
50°-60°	746.2	8.3
60°-70°	302.4	3.4
70°-80°	107.8	1.2
80°-90°	22.3	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°	4070.3	45.5
0°-40°	6262.3	69.9
0°-60°	8522.5	95.2
0°-90°	8955.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8955.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	5338	5338	5338	5338	5338	
5°	5267	5267	5292	5331	5351	497
15°	4906	4958	5106	5273	5351	1381
25°	4396	4480	4674	4809	4880	2010
35°	3417	3500	3591	3610	3623	2117
45°	2114	2127	1876	1850	1818	1634
55°	1206	1160	632	593	574	1089
65°	651	587	129	103	103	647
75°	245	206	32	19	19	275
85°	52	39	6	0	0	63
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°	5337.8	5337.8	5337.8	5337.8	5337.8	5337.8	5337.8	5337.8	5337.8	5337.8	5337.8
2.5°	5324.7	5305.6	5318.4	5292.5	5324.7	5292.5	5299.0	5305.6	5299.0	5305.6	5311.9
5°	5266.8	5247.4	5266.8	5234.6	5266.8	5247.4	5247.4	5254.0	5254.0	5260.3	5266.8
7.5°	5189.5	5170.1	5189.5	5157.2	5195.8	5176.6	5176.6	5189.5	5182.9	5189.5	5202.3
10°	5099.3	5073.3	5092.7	5073.3	5112.1	5086.2	5099.3	5099.3	5099.3	5118.4	5131.5
12.5°	5002.6	4976.6	5002.6	4970.3	5008.9	4989.7	4996.0	5015.4	5021.7	5034.8	5041.1
15°	4905.8	4873.6	4886.4	4867.1	4905.8	4886.4	4893.0	4918.7	4918.7	4938.1	4957.5
17.5°	4783.4	4757.5	4783.4	4757.5	4789.7	4776.9	4789.7	4809.1	4809.1	4828.5	4847.7
20°	4673.6	4647.9	4667.3	4647.9	4686.7	4667.3	4673.6	4699.5	4705.8	4725.2	4744.6
22.5°	4538.3	4518.9	4531.8	4512.6	4551.2	4538.3	4544.9	4570.6	4577.1	4590.0	4622.2
25°	4396.5	4357.7	4377.1	4364.3	4403.1	4383.7	4396.5	4422.2	4435.3	4454.5	4480.4
27.5°	4190.2	4170.8	4183.7	4183.7	4215.9	4196.8	4203.1	4229.0	4248.2	4267.5	4299.8
30°	3977.6	3945.4	3958.2	3964.5	3990.5	3977.6	3990.5	4016.2	4022.7	4048.4	4074.1
32.5°	3706.8	3693.7	3719.7	3706.8	3719.7	3719.7	3726.0	3745.4	3758.2	3771.3	3803.6
35°	3416.7	3391.0	3416.7	3403.8	3436.1	3416.7	3436.1	3455.4	3455.4	3481.1	3500.5
37.5°	3100.8	3068.5	3081.4	3081.4	3094.2	3087.9	3087.9	3120.2	3126.5	3145.9	3165.3
40°	2727.0	2713.9	2739.8	2733.3	2739.8	2739.8	2746.1	2765.5	2778.4	2784.9	2791.5
42.5°	2391.7	2398.0	2404.6	2404.6	2404.6	2404.6	2404.6	2430.3	2423.9	2443.3	2449.6
45°	2114.4	2088.7	2101.5	2095.2	2114.4	2095.2	2114.4	2133.8	2120.9	2140.3	2127.2
47.5°	1830.7	1830.7	1830.7	1824.4	1837.3	1830.7	1843.6	1850.1	1850.1	1850.1	1843.6
50°	1605.3	1585.9	1592.2	1592.2	1598.8	1592.2	1605.3	1611.6	1611.6	1598.8	1573.1
52.5°	1385.9	1379.6	1379.6	1392.5	1392.5	1385.9	1385.9	1385.9	1385.9	1366.8	1353.7
55°	1205.6	1192.7	1199.0	1199.0	1199.0	1199.0	1205.6	1199.0	1199.0	1179.6	1160.5
57.5°	1044.3	1031.5	1031.5	1031.5	1037.8	1031.5	1031.5	1031.5	1024.9	1005.6	979.9
60°	889.7	883.1	889.7	889.7	896.0	889.7	889.7	889.7	876.8	857.4	831.5
62.5°	760.7	760.7	760.7	767.0	767.0	760.7	760.7	754.2	747.9	721.9	696.2
65°	651.1	644.6	651.1	651.1	657.4	657.4	651.1	644.6	638.3	612.4	586.7
67.5°	541.6	535.0	541.6	541.6	547.9	541.6	541.6	541.6	522.2	509.3	483.4
70°	438.3	432.0	432.0	432.0	438.3	425.4	432.0	432.0	419.1	399.7	373.8
72.5°	335.3	335.3	335.3	335.3	335.3	335.3	328.7	328.7	315.9	296.5	283.6
75°	245.1	245.1	251.4	251.4	245.1	245.1	245.1	238.5	232.0	219.1	206.3
77.5°	180.6	180.6	180.6	180.6	174.1	174.1	174.1	167.5	161.2	154.7	141.8
80°	129.0	129.0	129.0	122.4	129.0	122.4	122.4	122.4	109.6	103.0	96.7
82.5°	90.2	83.9	83.9	83.9	83.9	83.9	83.9	77.3	77.3	71.0	64.5
85°	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	45.1	38.8	38.8
87.5°	25.7	32.2	32.2	32.2	32.2	32.2	32.2	25.7	25.7	25.7	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°	5337.8	5337.8	5337.8	5337.8	5337.8	5337.8	5337.8	5337.8	5337.8	5337.8	5337.8
2.5°	5311.9	5311.9	5324.7	5305.6	5337.8	5318.4	5311.9	5344.1	5324.7	5318.4	5331.3
5°	5266.8	5273.3	5279.6	5266.8	5299.0	5279.6	5279.6	5311.9	5299.0	5292.5	5311.9
7.5°	5208.9	5215.2	5228.0	5221.7	5247.4	5234.6	5241.1	5273.3	5260.3	5260.3	5279.6
10°	5137.8	5150.7	5163.8	5163.8	5195.8	5182.9	5182.9	5221.7	5208.9	5215.2	5241.1
12.5°	5054.0	5073.3	5092.7	5099.3	5131.5	5112.1	5118.4	5163.8	5157.2	5163.8	5189.5
15°	4963.8	4989.7	5008.9	5008.9	5047.7	5028.3	5047.7	5092.7	5079.9	5105.6	5137.8
17.5°	4860.7	4886.4	4912.1	4918.7	4957.5	4944.4	4970.3	5015.4	5015.4	5028.3	5067.0
20°	4764.0	4796.3	4809.1	4828.5	4867.1	4860.7	4873.6	4925.2	4925.2	4944.4	4983.2
22.5°	4635.1	4667.3	4693.0	4712.4	4744.6	4744.6	4764.0	4809.1	4809.1	4822.0	4860.7
25°	4493.2	4531.8	4551.2	4570.6	4602.8	4596.3	4615.7	4654.4	4660.8	4673.6	4712.4
27.5°	4312.6	4344.9	4370.8	4383.7	4428.8	4403.1	4422.2	4467.5	4461.0	4473.8	4506.1
30°	4087.2	4119.4	4145.1	4145.1	4183.7	4183.7	4203.1	4222.5	4222.5	4235.3	4261.2
32.5°	3822.7	3861.5	3861.5	3880.9	3906.6	3880.9	3906.6	3932.3	3919.4	3938.8	3958.2
35°	3519.7	3539.1	3545.6	3545.6	3565.0	3558.5	3551.9	3571.3	3558.5	3590.7	3610.1
37.5°	3152.4	3178.1	3165.3	3178.1	3171.6	3152.4	3152.4	3184.7	3158.7	3165.3	3184.7
40°	2797.8	2797.8	2791.5	2759.2	2765.5	2746.1	2739.8	2746.1	2720.4	2713.9	2739.8
42.5°	2430.3	2423.9	2404.6	2359.5	2365.8	2333.5	2307.8	2307.8	2295.0	2288.4	2295.0
45°	2101.5	2082.1	2049.9	1998.5	1985.4	1959.7	1908.1	1895.2	1875.8	1875.8	1882.4
47.5°	1798.5	1772.8	1721.2	1663.2	1631.0	1598.8	1547.1	1527.7	1495.5	1482.6	1495.5
50°	1547.1	1502.0	1437.5	1353.7	1321.4	1282.9	1231.2	1199.0	1166.8	1153.9	1147.4
52.5°	1315.1	1250.6	1186.2	1083.1	1057.2	1018.6	947.6	915.4	883.1	857.4	857.4
55°	1115.1	1057.2	967.0	870.3	831.5	793.0	721.9	676.8	644.6	631.7	618.9
57.5°	934.8	870.3	786.4	683.4	644.6	606.0	535.0	489.9	457.7	438.3	425.4
60°	786.4	715.6	631.7	541.6	496.5	457.7	386.9	341.6	309.3	290.2	277.1
62.5°	644.6	586.7	502.8	419.1	380.4	341.6	283.6	238.5	206.3	193.5	174.1
65°	541.6	483.4	406.1	335.3	303.0	264.2	212.8	174.1	148.4	129.0	116.1
67.5°	438.3	393.2	328.7	264.2	232.0	206.3	161.2	129.0	103.0	90.2	83.9
70°	348.1	303.0	251.4	199.8	180.6	154.7	122.4	90.2	77.3	64.5	57.9
72.5°	257.9	225.7	186.9	148.4	129.0	116.1	83.9	71.0	51.6	45.1	38.8
75°	186.9	161.2	135.3	103.0	90.2	83.9	64.5	45.1	38.8	32.2	25.7
77.5°	129.0	116.1	90.2	71.0	64.5	57.9	45.1	32.2	25.7	19.4	19.4
80°	83.9	71.0	57.9	45.1	45.1	38.8	25.7	19.4	19.4	12.8	12.8
82.5°	51.6	45.1	38.8	32.2	25.7	25.7	19.4	12.8	12.8	6.5	6.5
85°	32.2	25.7	19.4	19.4	12.8	12.8	12.8	6.5	6.5	6.5	6.5
87.5°	12.8	12.8	12.8	6.5	6.5	6.5	6.5	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°	5337.8	5337.8	5337.8	5337.8	5337.8	5337.8	5337.8	5337.8	5337.8	5337.8	5337.8
2.5°	5331.3	5331.3	5344.1	5324.7	5337.8	5337.8	5350.7	5324.7	5337.8	5344.1	5357.0
5°	5305.6	5311.9	5324.7	5318.4	5324.7	5324.7	5337.8	5305.6	5331.3	5331.3	5350.7
7.5°	5279.6	5279.6	5292.5	5286.2	5299.0	5305.6	5318.4	5292.5	5318.4	5318.4	5337.8
10°	5247.4	5247.4	5266.8	5260.3	5279.6	5286.2	5305.6	5279.6	5305.6	5311.9	5331.3
12.5°	5202.3	5208.9	5228.0	5228.0	5247.4	5260.3	5279.6	5266.8	5299.0	5305.6	5331.3
15°	5150.7	5163.8	5189.5	5182.9	5202.3	5221.7	5247.4	5228.0	5273.3	5286.2	5311.9
17.5°	5086.2	5099.3	5118.4	5118.4	5137.8	5150.7	5182.9	5170.1	5208.9	5215.2	5247.4
20°	4989.7	5008.9	5034.8	5028.3	5047.7	5060.5	5086.2	5073.3	5112.1	5125.0	5157.2
22.5°	4873.6	4886.4	4905.8	4905.8	4925.2	4938.1	4963.8	4944.4	4983.2	4989.7	5015.4
25°	4718.9	4731.8	4744.6	4751.2	4770.3	4776.9	4789.7	4776.9	4809.1	4815.7	4847.7
27.5°	4518.9	4525.5	4544.9	4544.9	4557.7	4564.0	4583.4	4557.7	4602.8	4602.8	4622.2
30°	4280.4	4274.1	4299.8	4286.9	4299.8	4299.8	4319.2	4306.3	4338.6	4325.7	4344.9
32.5°	3964.5	3977.6	3977.6	3964.5	3990.5	3983.9	3983.9	3971.1	3990.5	3996.8	4009.6
35°	3597.3	3616.4	3616.4	3623.0	3629.5	3610.1	3616.4	3577.9	3610.1	3616.4	3623.0
37.5°	3197.5	3178.1	3191.0	3171.6	3203.8	3165.3	3165.3	3139.6	3165.3	3165.3	3171.6
40°	2739.8	2733.3	2746.1	2733.3	2727.0	2720.4	2707.6	2688.2	2713.9	2701.0	2720.4
42.5°	2307.8	2301.3	2301.3	2288.4	2282.1	2282.1	2269.3	2256.2	2249.9	2249.9	2282.1
45°	1863.0	1875.8	1863.0	1856.7	1869.5	1856.7	1863.0	1837.3	1850.1	1837.3	1850.1
47.5°	1489.2	1495.5	1482.6	1469.8	1489.2	1469.8	1469.8	1450.4	1476.3	1476.3	1463.2
50°	1153.9	1147.4	1134.5	1147.4	1141.1	1141.1	1141.1	1121.7	1134.5	1115.1	1128.2
52.5°	850.9	844.6	844.6	838.0	844.6	838.0	838.0	831.5	831.5	825.2	831.5
55°	618.9	612.4	599.5	599.5	599.5	606.0	599.5	593.2	593.2	586.7	593.2
57.5°	419.1	406.1	406.1	406.1	406.1	399.7	399.7	393.2	399.7	393.2	399.7
60°	270.8	270.8	257.9	257.9	257.9	257.9	257.9	251.4	257.9	257.9	257.9
62.5°	167.5	167.5	161.2	154.7	161.2	154.7	154.7	154.7	161.2	154.7	161.2
65°	109.6	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0
67.5°	77.3	71.0	71.0	71.0	71.0	71.0	71.0	64.5	71.0	71.0	71.0
70°	51.6	51.6	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
72.5°	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
75°	25.7	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4
77.5°	19.4	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
80°	12.8	12.8	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
82.5°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
85°	6.5	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	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
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: P684690

CATALOG NUMBER: LX6C90D010 EX6C909030 6LCSWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	5337.8	5337.8	5337.8	5337.8	5337.8	5337.8	5337.8	5337.8
2.5°	5337.8	5344.1	5331.3	5337.8	5324.7	5337.8	5344.1	5357.0
5°	5324.7	5331.3	5318.4	5331.3	5318.4	5331.3	5337.8	5350.7
7.5°	5311.9	5324.7	5311.9	5324.7	5311.9	5324.7	5331.3	5344.1
10°	5311.9	5331.3	5318.4	5337.8	5318.4	5331.3	5344.1	5350.7
12.5°	5311.9	5331.3	5324.7	5337.8	5331.3	5344.1	5357.0	5369.8
15°	5299.0	5318.4	5305.6	5324.7	5318.4	5324.7	5350.7	5350.7
17.5°	5228.0	5247.4	5247.4	5260.3	5260.3	5279.6	5292.5	5305.6
20°	5137.8	5157.2	5150.7	5170.1	5170.1	5189.5	5202.3	5215.2
22.5°	5002.6	5028.3	5021.7	5041.1	5034.8	5047.7	5073.3	5067.0
25°	4828.5	4860.7	4854.2	4867.1	4860.7	4860.7	4873.6	4879.9
27.5°	4615.7	4635.1	4628.5	4641.6	4628.5	4641.6	4654.4	4660.8
30°	4338.6	4351.4	4344.9	4351.4	4344.9	4357.7	4364.3	4377.1
32.5°	4003.3	4022.7	4003.3	4016.2	4009.6	4009.6	4035.6	4022.7
35°	3603.6	3610.1	3616.4	3616.4	3603.6	3610.1	3623.0	3623.0
37.5°	3158.7	3191.0	3152.4	3171.6	3165.3	3165.3	3165.3	3184.7
40°	2694.7	2701.0	2688.2	2688.2	2688.2	2681.6	2707.6	2701.0
42.5°	2256.2	2262.7	2256.2	2237.0	2243.3	2243.3	2262.7	2237.0
45°	1830.7	1843.6	1837.3	1837.3	1824.4	1824.4	1830.7	1817.9
47.5°	1450.4	1463.2	1444.1	1450.4	1437.5	1450.4	1444.1	1456.9
50°	1102.3	1115.1	1108.8	1115.1	1115.1	1102.3	1121.7	1096.0
52.5°	825.2	831.5	825.2	818.6	812.3	812.3	825.2	818.6
55°	586.7	580.1	580.1	580.1	586.7	586.7	580.1	573.8
57.5°	393.2	393.2	386.9	386.9	393.2	380.4	386.9	380.4
60°	251.4	251.4	251.4	251.4	245.1	251.4	251.4	251.4
62.5°	154.7	154.7	154.7	154.7	154.7	154.7	154.7	154.7
65°	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0
67.5°	64.5	71.0	71.0	71.0	64.5	64.5	64.5	64.5
70°	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
72.5°	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
75°	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4
77.5°	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
80°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
82.5°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.5	6.5	6.5	6.5	6.5	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)