

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: P684744

Luminaire Tested: **LX6C10D010 EX6109035 6LCSWLI**

Issue Date: 2/15/2022

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



**Test Information**

Test Method: LM-79-08  
Report Number: P684744  
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: LX6C10D010 EX6109035 6LCSWLI  
Description: 6 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 6LCSW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

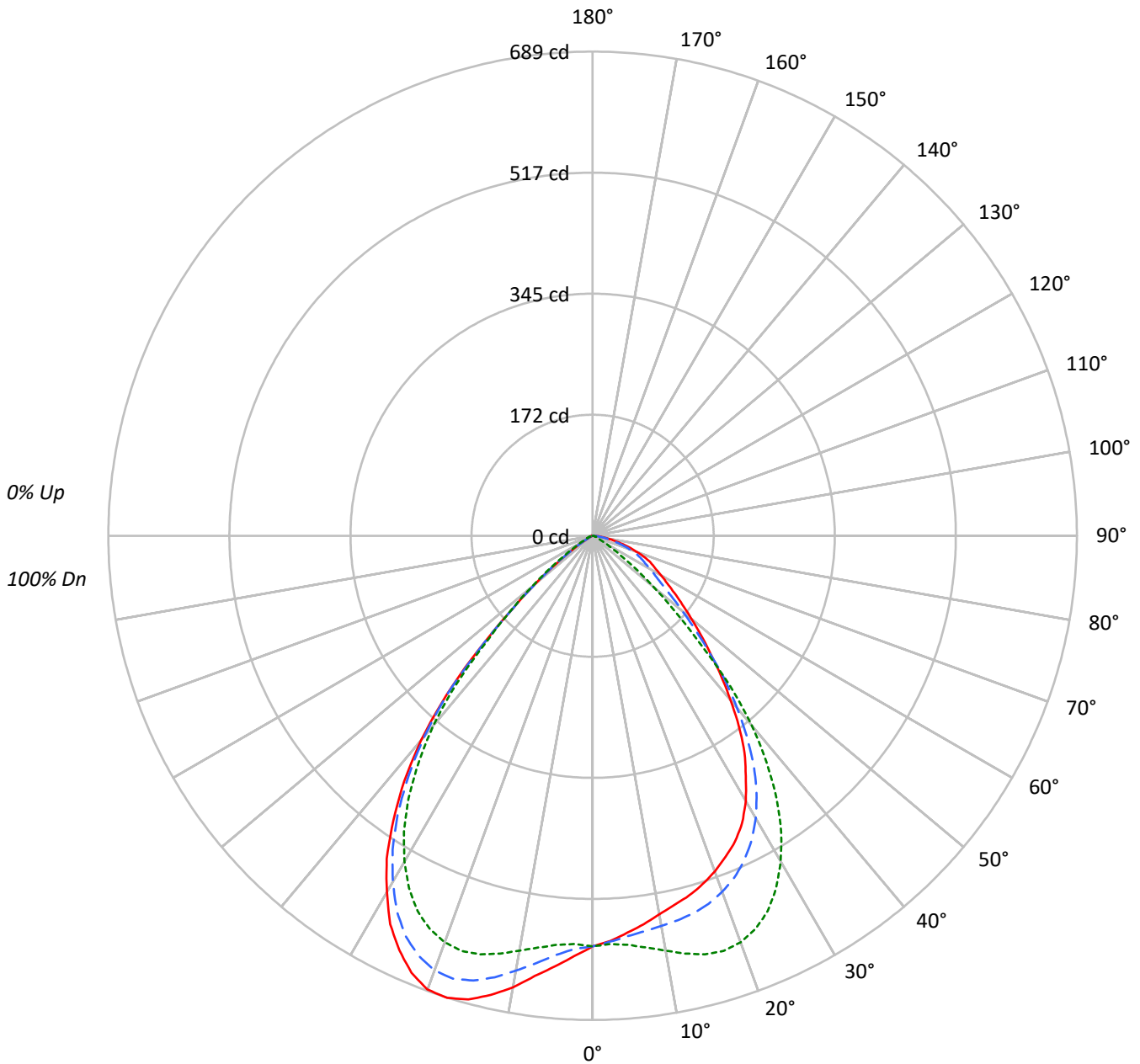
Lumens per Lamp: N/A  
Luminaire Lumens: 1068.0 lumens  
Efficiency: N/A  
Efficacy: 109.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.8  
Input Voltage (V):  
Input Current (Ain): 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: P684744

CATALOG NUMBER: LX6C10D010 EX6109035 6LCSWLI

### Luminous Intensity Polar Plot





TEST NUMBER: P684744

CATALOG NUMBER: LX6C10D010 EX6109035 6LCSWLI

**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	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80																			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72																			
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65																			
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58																			
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53																			
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48																			
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44																			
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40																			
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	32031	32031	32031
5°	31202	32154	33843
10°	30438	33366	36316
15°	30085	35000	38769
20°	29653	35913	40084
25°	29022	35645	39365
30°	27580	33872	37056
35°	25230	30544	33080
40°	21827	25226	27144
45°	18405	16544	17754
50°	15624	9578	9006
55°	13562	4588	3469
60°	12247	2138	855
65°	11882	1232	285
70°	10659	994	272
75°	8748	720	127
80°	6535	347	0
85°	5598	0	0



TEST NUMBER: P684744

CATALOG NUMBER: LX6C10D010 EX6109035 6LCSWLI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.4	5.3
10°-20°	172.0	16.1
20°-30°	262.8	24.6
30°-40°	274.9	25.7
40°-50°	178.3	16.7
50°-60°	70.8	6.6
60°-70°	33.6	3.1
70°-80°	16.0	1.5
80°-90°	3.3	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°	491.2	46.0
0°-40°	766.1	71.7
0°-60°	1015.2	95.1
0°-90°	1068.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1068.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	584	584	584	584	584	
5°	567	572	584	599	615	54
15°	530	556	617	655	683	149
25°	480	510	589	629	651	220
35°	377	400	456	483	494	233
45°	237	235	213	226	229	185
55°	142	121	48	37	36	129
65°	92	76	10	2	2	89
75°	41	34	3	1	1	45
85°	9	6	0	0	0	10
90°	0	0	0	0	0	



TEST NUMBER: P684744

CATALOG NUMBER: LX6C10D010 EX6109035 6LCSWLI

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	584.3	584.3	584.3	584.3	584.3	584.3	584.3	584.3	584.3	584.3	584.3
2.5°	577.0	578.1	572.0	570.3	574.8	576.5	577.0	575.3	575.9	578.1	578.1
5°	567.0	568.1	562.5	560.8	565.3	566.4	568.1	567.5	569.2	572.5	572.0
7.5°	557.5	559.2	553.0	550.8	556.4	559.2	560.3	560.3	562.5	567.0	567.5
10°	546.8	549.1	543.5	542.4	548.5	551.3	551.9	553.0	556.4	562.5	563.6
12.5°	537.9	540.2	536.2	534.6	541.3	544.1	545.2	547.4	551.3	559.2	560.3
15°	530.1	531.8	527.3	526.2	532.9	536.2	536.8	540.2	545.2	554.1	555.8
17.5°	520.0	521.2	517.8	516.7	523.4	526.7	527.3	531.2	537.4	546.3	549.1
20°	508.3	509.4	506.1	505.0	511.7	515.6	516.1	519.5	526.7	536.2	539.0
22.5°	494.3	496.6	492.7	491.5	498.3	501.6	503.3	506.1	513.3	522.8	526.7
25°	479.8	479.8	477.0	476.5	482.6	486.5	486.0	489.9	497.1	506.6	510.0
27.5°	460.8	460.3	457.5	456.9	463.6	467.0	465.9	469.8	476.5	486.0	489.3
30°	435.7	436.8	432.9	431.8	437.4	443.0	442.4	446.3	453.0	461.9	464.2
32.5°	405.5	406.6	406.1	404.4	409.4	412.2	413.9	416.7	422.3	431.8	434.0
35°	377.0	375.4	373.1	373.1	378.2	382.6	380.9	384.3	389.9	399.4	399.9
37.5°	341.9	341.3	340.2	339.1	344.6	345.8	346.3	348.6	353.6	361.4	360.3
40°	305.0	305.5	305.0	302.7	306.1	310.6	310.0	311.1	315.6	321.2	319.5
42.5°	270.3	270.3	270.3	268.1	272.0	274.3	275.4	274.8	275.9	281.0	278.7
45°	237.4	238.0	237.4	236.8	237.4	238.5	237.4	236.8	236.8	238.5	235.2
47.5°	208.9	208.9	207.2	205.6	207.2	207.8	206.1	204.4	203.9	203.3	197.7
50°	183.2	182.7	182.1	179.3	181.0	181.5	179.3	178.2	176.0	173.2	166.5
52.5°	160.9	160.3	159.7	157.0	158.1	158.6	156.4	154.2	151.4	149.1	140.8
55°	141.9	141.3	141.3	139.7	138.5	139.7	137.4	135.7	131.8	129.0	120.7
57.5°	125.7	125.7	124.6	122.9	123.4	123.4	121.2	119.0	115.6	112.3	105.6
60°	111.7	111.7	111.7	110.0	110.0	110.0	108.9	106.7	103.9	100.5	93.8
62.5°	100.5	100.5	100.0	98.3	98.9	98.9	97.8	95.5	92.7	90.5	83.8
65°	91.6	91.6	91.6	89.9	89.9	90.5	89.4	87.1	84.9	82.1	76.0
67.5°	80.4	79.9	79.9	78.8	79.3	79.9	78.8	77.1	74.3	72.6	67.0
70°	66.5	67.0	67.6	65.9	66.5	66.5	65.9	64.2	62.6	60.9	55.9
72.5°	54.2	54.2	53.6	53.1	53.1	53.6	52.5	50.8	49.7	48.6	44.7
75°	41.3	40.8	41.3	40.2	40.2	40.2	39.1	38.5	38.0	36.3	33.5
77.5°	30.2	29.6	29.6	28.5	29.1	29.1	28.5	27.4	26.2	25.7	23.5
80°	20.7	20.7	20.7	20.1	20.1	19.5	19.5	19.0	17.9	17.3	16.2
82.5°	14.0	14.0	14.0	13.4	13.4	13.4	12.8	12.3	11.7	11.2	10.1
85°	8.9	8.9	8.9	8.4	8.4	8.4	7.8	7.8	7.3	6.7	5.6
87.5°	5.0	5.0	5.0	4.5	4.5	4.5	4.5	4.5	3.9	3.4	2.8
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: P684744

CATALOG NUMBER: LX6C10D010 EX6109035 6LCSWLI

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	584.3	584.3	584.3	584.3	584.3	584.3	584.3	584.3	584.3	584.3	584.3
2.5°	582.0	574.2	579.2	579.2	577.6	582.0	584.8	587.1	586.5	581.5	580.9
5°	577.6	570.9	576.5	577.0	575.3	581.5	585.4	588.2	588.8	584.3	584.8
7.5°	574.2	568.6	575.9	578.1	577.6	583.2	587.6	592.1	594.3	591.0	591.5
10°	572.5	568.1	575.9	579.2	579.8	586.0	592.7	598.8	601.6	599.4	601.0
12.5°	570.3	567.5	576.5	581.5	583.7	589.9	598.2	605.5	610.0	608.9	612.2
15°	568.1	565.8	576.5	583.7	586.5	592.1	601.6	612.2	617.2	616.7	621.1
17.5°	562.5	561.9	573.1	580.9	584.8	591.5	600.5	613.3	618.4	619.5	625.1
20°	553.6	553.6	565.8	574.2	578.7	584.8	596.0	608.3	614.5	615.6	621.7
22.5°	541.3	542.4	554.1	562.5	569.2	573.7	585.4	598.2	603.8	605.5	612.2
25°	525.1	526.2	537.4	545.7	553.0	558.0	569.2	580.9	587.6	589.3	594.3
27.5°	503.9	506.1	516.7	525.1	531.2	534.6	546.3	558.6	563.6	565.3	570.3
30°	479.3	479.8	490.4	497.7	503.9	506.6	516.7	529.5	533.5	535.1	542.4
32.5°	449.1	448.6	458.6	465.3	470.3	473.7	484.3	492.7	496.6	499.4	503.3
35°	412.8	412.2	419.5	427.3	431.2	432.3	443.0	451.9	454.1	456.4	461.4
37.5°	372.0	372.0	378.2	382.1	386.5	388.2	393.3	403.3	407.2	406.6	410.6
40°	329.0	326.8	331.2	335.2	336.3	336.8	341.9	349.7	352.5	352.5	355.3
42.5°	283.8	280.4	281.0	283.2	284.3	280.4	283.8	288.8	287.1	289.3	289.9
45°	235.7	230.7	228.5	223.4	224.6	220.6	218.4	219.5	219.0	213.4	214.5
47.5°	196.6	187.7	183.8	176.5	174.8	170.4	167.6	162.5	158.1	158.1	155.3
50°	163.7	154.7	146.9	138.5	135.7	131.8	125.7	119.0	115.6	112.3	109.5
52.5°	137.4	127.9	118.4	109.5	105.6	100.5	92.2	85.5	79.3	76.0	72.6
55°	116.2	105.6	95.5	86.0	81.0	76.0	67.6	59.8	52.5	48.0	45.2
57.5°	100.0	89.9	79.3	69.3	64.8	59.2	50.3	41.9	35.2	30.2	27.4
60°	88.3	78.2	68.7	58.1	53.6	48.0	38.5	30.7	24.0	19.5	16.2
62.5°	78.2	69.3	59.2	49.7	45.2	39.7	30.7	22.9	16.8	12.3	9.5
65°	70.9	62.0	53.6	44.1	40.2	34.6	26.2	19.0	13.4	9.5	6.7
67.5°	62.6	54.7	46.4	38.5	34.6	30.2	22.3	16.2	11.2	7.8	5.6
70°	52.5	46.4	39.1	31.8	29.1	25.1	18.4	13.4	8.9	6.2	4.5
72.5°	41.9	36.9	31.3	25.7	23.5	19.5	15.1	10.6	6.7	4.5	3.4
75°	31.8	27.9	23.5	19.5	17.3	15.1	11.2	7.8	5.0	3.4	2.2
77.5°	21.8	20.1	16.8	13.4	12.3	10.6	7.3	5.0	3.4	2.2	1.1
80°	15.1	13.4	11.2	8.9	7.8	6.7	4.5	3.4	1.7	1.1	0.6
82.5°	9.5	7.8	6.7	5.6	5.0	3.9	2.8	1.7	1.1	0.6	0.6
85°	5.0	4.5	3.9	2.8	2.8	2.2	1.7	1.1	0.6	0.0	0.0
87.5°	2.8	2.2	1.7	1.1	1.1	0.6	0.6	0.6	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: P684744

CATALOG NUMBER: LX6C10D010 EX6109035 6LCSWLI

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	584.3	584.3	584.3	584.3	584.3	584.3	584.3	584.3	584.3	584.3	584.3
2.5°	587.6	587.6	587.1	593.8	586.0	593.8	589.9	593.8	588.2	587.6	588.2
5°	592.1	593.8	594.3	600.5	593.2	602.7	599.4	602.7	598.8	599.9	601.6
7.5°	601.0	603.8	603.3	611.1	603.8	614.5	612.2	617.2	613.3	614.5	616.7
10°	611.1	614.5	615.0	622.8	616.1	629.0	626.2	631.8	628.4	630.1	632.9
12.5°	622.8	626.7	627.3	636.2	629.0	642.4	640.7	646.3	643.5	645.2	648.5
15°	631.8	637.3	638.5	647.4	639.6	653.5	652.4	659.7	655.2	658.0	660.8
17.5°	636.2	641.3	643.5	651.9	645.2	659.1	658.0	664.2	660.8	663.6	667.0
20°	633.4	639.6	641.3	649.6	642.9	656.9	655.2	661.4	658.0	660.2	663.6
22.5°	623.4	629.5	631.8	639.6	633.4	646.3	645.7	651.3	646.8	649.6	652.4
25°	605.5	612.2	613.3	620.6	613.9	627.3	626.2	632.3	629.0	630.6	634.5
27.5°	579.8	587.6	589.3	595.5	590.4	601.6	601.6	606.6	602.7	602.7	606.6
30°	549.1	556.9	558.0	563.1	558.6	568.6	569.2	574.2	568.1	571.4	572.0
32.5°	511.7	516.7	520.0	524.5	517.8	530.7	529.0	532.9	529.5	529.5	532.3
35°	466.4	472.6	474.2	479.8	474.2	484.3	484.3	486.5	483.2	483.2	487.6
37.5°	417.3	421.7	422.3	427.9	423.4	431.8	431.2	432.9	429.6	431.8	431.8
40°	359.7	363.1	364.2	367.0	366.4	372.6	372.0	373.1	371.5	372.0	373.1
42.5°	292.7	297.2	299.4	301.6	298.3	306.7	305.0	306.7	306.1	306.7	308.3
45°	215.6	219.0	220.6	221.2	220.1	225.1	229.0	225.7	226.2	225.1	227.4
47.5°	155.8	156.4	155.3	158.6	155.8	158.1	159.2	159.7	156.4	155.8	158.1
50°	106.7	109.5	105.6	107.2	106.7	108.9	107.8	108.4	105.0	106.7	105.6
52.5°	70.9	70.4	69.3	69.8	68.7	68.7	68.7	69.8	67.6	66.5	65.4
55°	43.0	41.9	39.7	39.1	39.1	39.7	38.5	37.4	37.4	36.9	36.9
57.5°	25.1	23.5	22.3	21.8	20.7	20.1	19.5	19.5	18.4	18.4	18.4
60°	14.0	12.3	11.2	10.1	10.1	9.5	8.9	8.4	8.4	8.4	7.8
62.5°	7.3	6.2	5.0	4.5	4.5	3.9	3.4	3.4	3.4	3.4	2.8
65°	5.0	3.9	3.4	2.8	2.8	2.2	2.2	2.2	2.2	2.2	2.2
67.5°	3.9	3.4	2.8	2.2	2.2	2.2	1.7	1.7	1.7	1.7	1.7
70°	3.4	2.2	2.2	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
72.5°	2.2	2.2	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
75°	1.7	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
77.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0
80°	0.6	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: P684744

CATALOG NUMBER: LX6C10D010 EX6109035 6LCSWLI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	584.3	584.3	584.3	584.3	584.3	584.3	584.3	584.3
2.5°	593.2	592.7	593.2	594.3	592.1	598.8	595.5	598.8
5°	606.1	606.6	607.2	608.9	606.1	614.5	610.0	615.0
7.5°	622.8	623.4	623.9	625.6	623.9	632.3	627.3	631.8
10°	640.1	641.3	641.3	644.1	642.4	650.2	646.8	652.4
12.5°	656.3	657.4	658.6	660.2	659.1	667.5	664.7	669.2
15°	669.2	671.4	672.0	674.2	673.1	682.0	678.7	683.1
17.5°	675.3	677.6	677.6	680.4	679.2	688.7	684.3	689.3
20°	672.0	673.7	674.2	677.0	675.9	685.4	680.9	687.1
22.5°	661.4	661.9	662.5	665.3	664.7	673.1	669.2	673.1
25°	641.8	643.5	642.9	645.2	645.2	651.9	647.4	650.8
27.5°	613.9	615.6	615.6	618.4	616.1	622.8	618.4	623.4
30°	579.8	581.5	580.4	582.6	580.4	587.1	583.7	585.4
32.5°	539.0	539.0	539.6	540.2	539.0	545.2	541.8	545.2
35°	490.4	491.5	492.1	492.7	491.5	496.0	492.1	494.3
37.5°	435.7	438.5	437.9	438.5	436.8	442.4	439.0	440.2
40°	377.0	377.0	376.5	377.6	375.9	380.4	378.2	379.3
42.5°	308.9	310.6	308.3	311.1	306.7	312.8	310.6	308.9
45°	231.8	229.6	229.0	229.6	227.9	228.5	230.1	229.0
47.5°	158.1	158.1	157.0	155.3	157.5	158.1	155.8	155.8
50°	106.1	106.1	105.0	104.4	105.6	105.0	103.9	105.6
52.5°	67.6	65.4	65.4	66.5	65.4	64.2	65.9	64.8
55°	36.9	35.8	35.8	36.9	35.8	35.8	35.2	36.3
57.5°	17.9	18.4	17.9	17.9	17.9	17.9	17.3	17.9
60°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
62.5°	3.4	3.4	2.8	2.8	2.8	2.8	2.8	2.8
65°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
67.5°	1.7	1.7	1.7	1.7	1.7	2.2	1.7	1.7
70°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
72.5°	1.7	1.7	2.2	2.2	2.2	2.2	2.2	2.2
75°	1.1	1.1	1.1	0.6	0.6	0.6	0.6	0.6
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)