

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: P563900

Luminaire Tested: **LX6C10D010 EX6C109030 6LCSWH**

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: P563900  
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: LX6C10D010 EX6C109030 6LCSWH  
Description: 6 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 6LCSW TRIM WITH H FINISH, DIM TO WARM  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

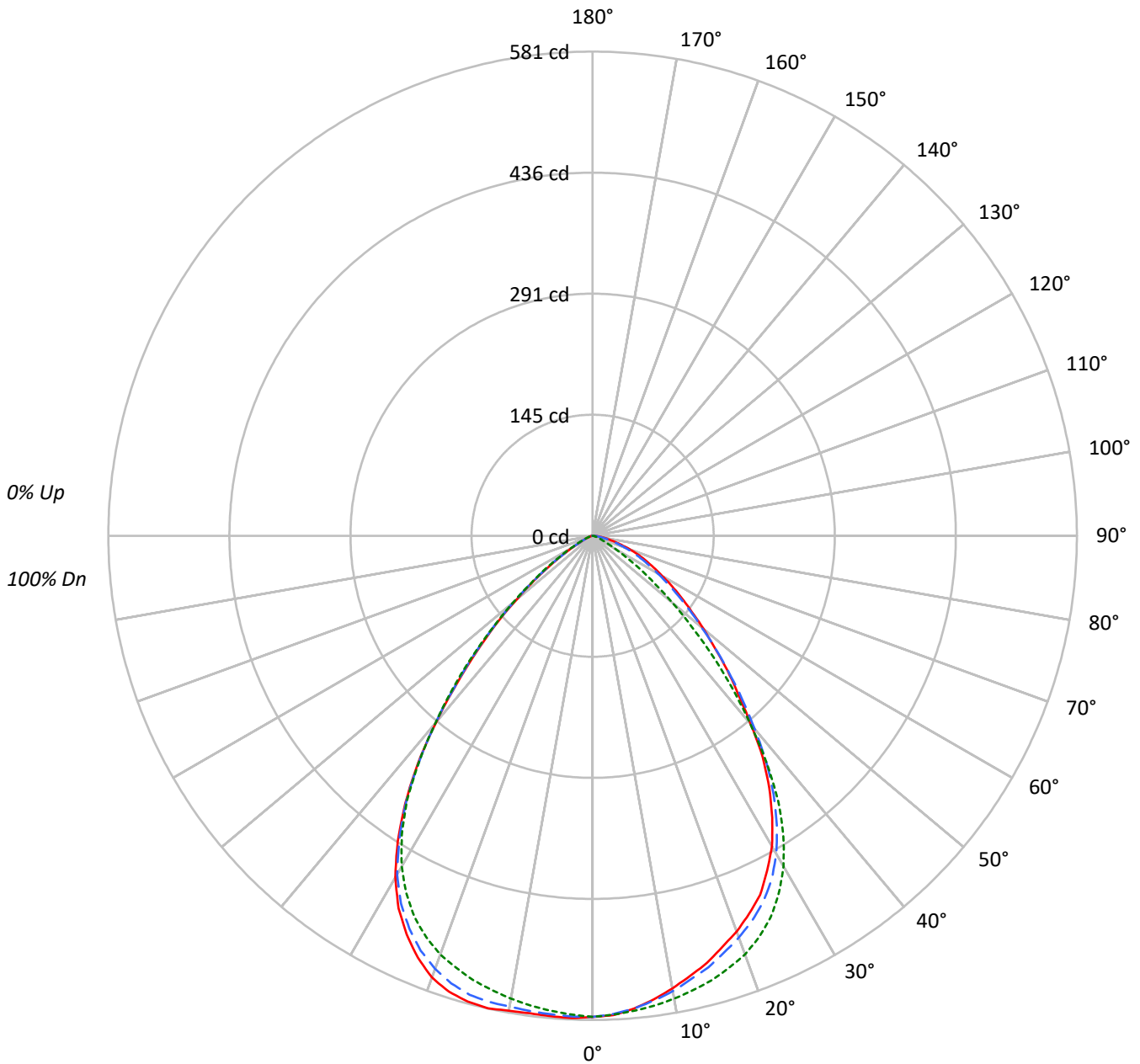
Lumens per Lamp: N/A  
Luminaire Lumens: 968.4 lumens  
Efficiency: N/A  
Efficacy: 98.8 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.8  
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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CATALOG NUMBER: LX6C10D010 EX6C109030 6LCSWH

### 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°	31648	31648	31648
5°	31339	31493	31840
10°	30694	31390	32208
15°	30108	31334	32838
20°	29478	31188	32897
25°	28756	30564	31919
30°	27232	28992	29960
35°	24721	25986	26220
40°	21104	21004	20896
45°	17731	15723	15242
50°	14805	10644	10106
55°	12463	6537	5926
60°	10547	3432	2982
65°	9132	1803	1453
70°	7597	1122	785
75°	5613	741	445
80°	4388	442	221
85°	3522	440	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.4	5.6
10°-20°	155.8	16.1
20°-30°	230.0	23.8
30°-40°	237.0	24.5
40°-50°	163.7	16.9
50°-60°	80.7	8.3
60°-70°	32.7	3.4
70°-80°	11.7	1.2
80°-90°	2.4	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°	440.2	45.5
0°-40°	677.2	69.9
0°-60°	921.6	95.2
0°-90°	968.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	968.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	577	577	577	577	577	
5°	570	570	572	576	579	54
15°	530	536	552	570	579	149
25°	475	484	505	520	528	217
35°	369	378	388	390	392	229
45°	229	230	203	200	197	177
55°	130	126	68	64	62	118
65°	70	64	14	11	11	70
75°	26	22	4	2	2	30
85°	6	4	1	0	0	7
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°	577.3	577.3	577.3	577.3	577.3	577.3	577.3	577.3	577.3	577.3	577.3
2.5°	575.8	573.7	575.1	572.3	575.8	572.3	573.0	573.7	573.0	573.7	574.4
5°	569.5	567.4	569.5	566.1	569.5	567.4	567.4	568.1	568.1	568.8	569.5
7.5°	561.2	559.1	561.2	557.7	561.9	559.8	559.8	561.2	560.5	561.2	562.6
10°	551.4	548.6	550.7	548.6	552.8	550.0	551.4	551.4	551.4	553.5	554.9
12.5°	540.9	538.2	540.9	537.5	541.7	539.6	540.2	542.4	543.1	544.4	545.1
15°	530.5	527.0	528.4	526.3	530.5	528.4	529.1	531.9	531.9	534.0	536.1
17.5°	517.2	514.5	517.2	514.5	518.0	516.5	518.0	520.1	520.1	522.1	524.3
20°	505.3	502.6	504.7	502.6	506.8	504.7	505.3	508.2	508.9	510.9	513.1
22.5°	490.8	488.7	490.1	488.0	492.1	490.8	491.5	494.3	495.0	496.4	499.9
25°	475.4	471.3	473.3	472.0	476.2	474.0	475.4	478.2	479.6	481.6	484.5
27.5°	453.2	451.0	452.5	452.5	455.9	453.9	454.5	457.3	459.4	461.5	465.0
30°	430.2	426.6	428.0	428.7	431.5	430.2	431.5	434.3	435.1	437.8	440.5
32.5°	400.9	399.5	402.2	400.9	402.2	402.2	402.9	405.0	406.4	407.8	411.4
35°	369.4	366.7	369.4	368.1	371.6	369.4	371.6	373.6	373.6	376.5	378.5
37.5°	335.3	331.8	333.2	333.2	334.6	333.9	333.9	337.4	338.1	340.2	342.3
40°	294.9	293.5	296.3	295.6	296.3	296.3	296.9	299.1	300.5	301.2	301.9
42.5°	258.7	259.3	260.0	260.0	260.0	260.0	260.0	262.8	262.1	264.3	264.9
45°	228.7	225.8	227.2	226.5	228.7	226.5	228.7	230.7	229.4	231.4	230.0
47.5°	197.9	197.9	197.9	197.3	198.7	197.9	199.4	200.1	200.1	200.1	199.4
50°	173.6	171.5	172.2	172.2	172.9	172.2	173.6	174.2	174.2	172.9	170.1
52.5°	149.8	149.2	149.2	150.5	150.5	149.8	149.8	149.8	149.8	147.8	146.4
55°	130.4	129.0	129.7	129.7	129.7	129.7	130.4	129.7	129.7	127.6	125.5
57.5°	112.9	111.6	111.6	111.6	112.2	111.6	111.6	111.6	110.9	108.7	106.0
60°	96.2	95.5	96.2	96.2	96.9	96.2	96.2	96.2	94.8	92.8	89.9
62.5°	82.3	82.3	82.3	82.9	82.9	82.3	82.3	81.6	80.9	78.0	75.3
65°	70.4	69.7	70.4	70.4	71.1	71.1	70.4	69.7	69.1	66.2	63.5
67.5°	58.6	57.9	58.6	58.6	59.2	58.6	58.6	58.6	56.5	55.0	52.3
70°	47.4	46.7	46.7	46.7	47.4	46.0	46.7	46.7	45.4	43.2	40.4
72.5°	36.2	36.2	36.2	36.2	36.2	36.2	35.5	35.5	34.2	32.0	30.7
75°	26.5	26.5	27.2	27.2	26.5	26.5	26.5	25.8	25.1	23.7	22.3
77.5°	19.5	19.5	19.5	19.5	18.8	18.8	18.8	18.1	17.4	16.7	15.4
80°	13.9	13.9	13.9	13.2	13.9	13.2	13.2	13.2	11.8	11.2	10.5
82.5°	9.8	9.1	9.1	9.1	9.1	9.1	9.1	8.3	8.3	7.7	7.0
85°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	4.9	4.2	4.2
87.5°	2.7	3.5	3.5	3.5	3.5	3.5	3.5	2.7	2.7	2.7	2.1
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°	577.3	577.3	577.3	577.3	577.3	577.3	577.3	577.3	577.3	577.3	577.3
2.5°	574.4	574.4	575.8	573.7	577.3	575.1	574.4	577.9	575.8	575.1	576.5
5°	569.5	570.2	571.0	569.5	573.0	571.0	571.0	574.4	573.0	572.3	574.4
7.5°	563.3	563.9	565.4	564.6	567.4	566.1	566.8	570.2	568.8	568.8	571.0
10°	555.6	557.0	558.4	558.4	561.9	560.5	560.5	564.6	563.3	563.9	566.8
12.5°	546.5	548.6	550.7	551.4	554.9	552.8	553.5	558.4	557.7	558.4	561.2
15°	536.8	539.6	541.7	541.7	545.8	543.8	545.8	550.7	549.3	552.1	555.6
17.5°	525.6	528.4	531.2	531.9	536.1	534.6	537.5	542.4	542.4	543.8	548.0
20°	515.2	518.7	520.1	522.1	526.3	525.6	527.0	532.6	532.6	534.6	538.9
22.5°	501.2	504.7	507.5	509.6	513.1	513.1	515.2	520.1	520.1	521.4	525.6
25°	485.9	490.1	492.1	494.3	497.7	497.0	499.1	503.3	504.0	505.3	509.6
27.5°	466.4	469.8	472.7	474.0	478.9	476.2	478.2	483.1	482.4	483.8	487.2
30°	442.0	445.4	448.3	448.3	452.5	452.5	454.5	456.6	456.6	458.0	460.8
32.5°	413.4	417.6	417.6	419.7	422.4	419.7	422.4	425.2	423.9	425.9	428.0
35°	380.6	382.7	383.4	383.4	385.5	384.8	384.1	386.2	384.8	388.3	390.4
37.5°	340.9	343.7	342.3	343.7	343.0	340.9	340.9	344.4	341.6	342.3	344.4
40°	302.5	302.5	301.9	298.3	299.1	296.9	296.3	296.9	294.2	293.5	296.3
42.5°	262.8	262.1	260.0	255.1	255.8	252.4	249.5	249.5	248.2	247.5	248.2
45°	227.2	225.2	221.6	216.2	214.7	211.9	206.3	205.0	202.8	202.8	203.5
47.5°	194.5	191.7	186.1	179.8	176.4	172.9	167.3	165.2	161.7	160.3	161.7
50°	167.3	162.4	155.4	146.4	142.9	138.7	133.2	129.7	126.1	124.8	124.1
52.5°	142.2	135.3	128.3	117.1	114.3	110.2	102.4	99.0	95.5	92.8	92.8
55°	120.5	114.3	104.6	94.1	89.9	85.7	78.0	73.2	69.7	68.4	66.9
57.5°	101.1	94.1	85.0	73.8	69.7	65.5	57.9	53.0	49.5	47.4	46.0
60°	85.0	77.4	68.4	58.6	53.7	49.5	41.8	36.9	33.5	31.3	30.0
62.5°	69.7	63.5	54.3	45.4	41.1	36.9	30.7	25.8	22.3	21.0	18.8
65°	58.6	52.3	43.9	36.2	32.8	28.6	23.0	18.8	16.1	13.9	12.5
67.5°	47.4	42.5	35.5	28.6	25.1	22.3	17.4	13.9	11.2	9.8	9.1
70°	37.6	32.8	27.2	21.6	19.5	16.7	13.2	9.8	8.3	7.0	6.3
72.5°	27.9	24.4	20.2	16.1	13.9	12.5	9.1	7.7	5.6	4.9	4.2
75°	20.2	17.4	14.6	11.2	9.8	9.1	7.0	4.9	4.2	3.5	2.7
77.5°	13.9	12.5	9.8	7.7	7.0	6.3	4.9	3.5	2.7	2.1	2.1
80°	9.1	7.7	6.3	4.9	4.9	4.2	2.7	2.1	2.1	1.4	1.4
82.5°	5.6	4.9	4.2	3.5	2.7	2.7	2.1	1.4	1.4	0.7	0.7
85°	3.5	2.7	2.1	2.1	1.4	1.4	1.4	0.7	0.7	0.7	0.7
87.5°	1.4	1.4	1.4	0.7	0.7	0.7	0.7	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°	577.3	577.3	577.3	577.3	577.3	577.3	577.3	577.3	577.3	577.3	577.3
2.5°	576.5	576.5	577.9	575.8	577.3	577.3	578.6	575.8	577.3	577.9	579.3
5°	573.7	574.4	575.8	575.1	575.8	575.8	577.3	573.7	576.5	576.5	578.6
7.5°	571.0	571.0	572.3	571.7	573.0	573.7	575.1	572.3	575.1	575.1	577.3
10°	567.4	567.4	569.5	568.8	571.0	571.7	573.7	571.0	573.7	574.4	576.5
12.5°	562.6	563.3	565.4	565.4	567.4	568.8	571.0	569.5	573.0	573.7	576.5
15°	557.0	558.4	561.2	560.5	562.6	564.6	567.4	565.4	570.2	571.7	574.4
17.5°	550.0	551.4	553.5	553.5	555.6	557.0	560.5	559.1	563.3	563.9	567.4
20°	539.6	541.7	544.4	543.8	545.8	547.3	550.0	548.6	552.8	554.2	557.7
22.5°	527.0	528.4	530.5	530.5	532.6	534.0	536.8	534.6	538.9	539.6	542.4
25°	510.3	511.7	513.1	513.8	515.8	516.5	518.0	516.5	520.1	520.7	524.3
27.5°	488.7	489.4	491.5	491.5	492.8	493.5	495.7	492.8	497.7	497.7	499.9
30°	462.8	462.2	465.0	463.5	465.0	465.0	467.1	465.7	469.1	467.8	469.8
32.5°	428.7	430.2	430.2	428.7	431.5	430.8	430.8	429.5	431.5	432.2	433.6
35°	389.0	391.1	391.1	391.8	392.4	390.4	391.1	386.9	390.4	391.1	391.8
37.5°	345.7	343.7	345.0	343.0	346.5	342.3	342.3	339.5	342.3	342.3	343.0
40°	296.3	295.6	296.9	295.6	294.9	294.2	292.8	290.7	293.5	292.0	294.2
42.5°	249.5	248.8	248.8	247.5	246.8	246.8	245.3	244.0	243.3	243.3	246.8
45°	201.5	202.8	201.5	200.8	202.1	200.8	201.5	198.7	200.1	198.7	200.1
47.5°	161.0	161.7	160.3	159.0	161.0	159.0	159.0	156.9	159.6	159.6	158.3
50°	124.8	124.1	122.7	124.1	123.4	123.4	123.4	121.3	122.7	120.5	122.0
52.5°	92.1	91.3	91.3	90.6	91.3	90.6	90.6	89.9	89.9	89.2	89.9
55°	66.9	66.2	64.8	64.8	64.8	65.5	64.8	64.2	64.2	63.5	64.2
57.5°	45.4	43.9	43.9	43.9	43.9	43.2	43.2	42.5	43.2	42.5	43.2
60°	29.3	29.3	27.9	27.9	27.9	27.9	27.9	27.2	27.9	27.9	27.9
62.5°	18.1	18.1	17.4	16.7	17.4	16.7	16.7	16.7	17.4	16.7	17.4
65°	11.8	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
67.5°	8.3	7.7	7.7	7.7	7.7	7.7	7.7	7.0	7.7	7.7	7.7
70°	5.6	5.6	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
72.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
75°	2.7	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
77.5°	2.1	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
80°	1.4	1.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
85°	0.7	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	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
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: P563900

CATALOG NUMBER: LX6C10D010 EX6C109030 6LCSWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	577.3	577.3	577.3	577.3	577.3	577.3	577.3	577.3
2.5°	577.3	577.9	576.5	577.3	575.8	577.3	577.9	579.3
5°	575.8	576.5	575.1	576.5	575.1	576.5	577.3	578.6
7.5°	574.4	575.8	574.4	575.8	574.4	575.8	576.5	577.9
10°	574.4	576.5	575.1	577.3	575.1	576.5	577.9	578.6
12.5°	574.4	576.5	575.1	577.3	575.1	576.5	577.9	578.6
15°	573.0	575.1	573.7	575.8	575.1	575.8	578.6	578.6
17.5°	565.4	567.4	567.4	568.8	568.8	571.0	572.3	573.7
20°	555.6	557.7	557.0	559.1	559.1	561.2	562.6	563.9
22.5°	540.9	543.8	543.1	545.1	544.4	545.8	548.6	548.0
25°	522.1	525.6	524.9	526.3	525.6	525.6	527.0	527.7
27.5°	499.1	501.2	500.6	501.9	500.6	501.9	503.3	504.0
30°	469.1	470.6	469.8	470.6	469.8	471.3	472.0	473.3
32.5°	432.9	435.1	432.9	434.3	433.6	433.6	436.4	435.1
35°	389.7	390.4	391.1	391.1	389.7	390.4	391.8	391.8
37.5°	341.6	345.0	340.9	343.0	342.3	342.3	342.3	344.4
40°	291.4	292.0	290.7	290.7	290.7	290.0	292.8	292.0
42.5°	244.0	244.7	244.0	241.9	242.6	242.6	244.7	241.9
45°	197.9	199.4	198.7	198.7	197.3	197.3	197.9	196.6
47.5°	156.9	158.3	156.1	156.9	155.4	156.9	156.1	157.6
50°	119.2	120.5	119.9	120.5	120.5	119.2	121.3	118.5
52.5°	89.2	89.9	89.2	88.5	87.9	87.9	89.2	88.5
55°	63.5	62.8	62.8	62.8	63.5	63.5	62.8	62.0
57.5°	42.5	42.5	41.8	41.8	42.5	41.1	41.8	41.1
60°	27.2	27.2	27.2	27.2	26.5	27.2	27.2	27.2
62.5°	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7
65°	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
67.5°	7.0	7.7	7.7	7.7	7.0	7.0	7.0	7.0
70°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
72.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
75°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
77.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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— 0°-180°    - - 45°-225°    - - - - 90°-270°















(END OF REPORT)