

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: P685215

Luminaire Tested: **LX6C08D010 EX6089027 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: P685215  
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: LX6C08D010 EX6089027 6LCSWLI  
Description: 6 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS AND 6LCSW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

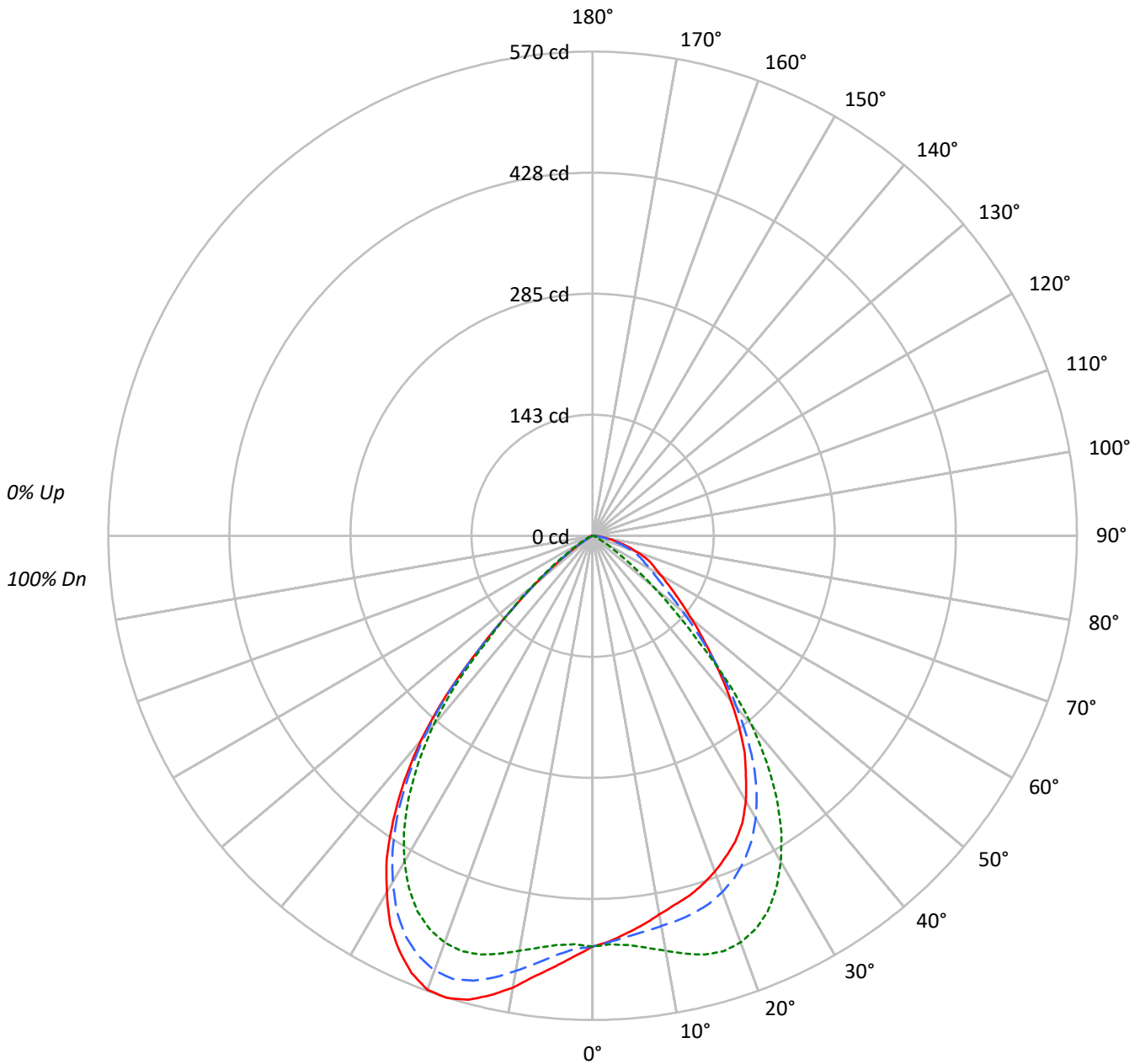
Lumens per Lamp: N/A  
Luminaire Lumens: 884.0 lumens  
Efficiency: N/A  
Efficacy: 89.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.9  
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				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	100	100
1	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90	90	90	90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80	80	80	80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72	72	72	72
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65	65	65	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58	58	58	58
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53	53	53	53
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48	48	48	48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44	44	44	44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40	40	40	40
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37	37	37	37

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

	0°	90°	180°
0°	26511	26511	26511
5°	25825	26612	28010
10°	25194	27616	30060
15°	24904	28967	32094
20°	24543	29723	33177
25°	24026	29506	32578
30°	22826	28036	30669
35°	20887	25277	27385
40°	18062	20875	22464
45°	15234	13691	14699
50°	12938	7923	7454
55°	11221	3804	2867
60°	10142	1776	713
65°	9832	1025	233
70°	8816	817	224
75°	7244	593	106
80°	5398	284	0
85°	4655	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.7	5.3
10°-20°	142.4	16.1
20°-30°	217.5	24.6
30°-40°	227.5	25.7
40°-50°	147.6	16.7
50°-60°	58.6	6.6
60°-70°	27.8	3.1
70°-80°	13.2	1.5
80°-90°	2.7	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°	406.6	46.0
0°-40°	634.1	71.7
0°-60°	840.3	95.1
0°-90°	884.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	884.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	484	484	484	484	484	
5°	469	474	484	496	509	44
15°	439	460	510	542	566	124
25°	397	422	488	521	539	182
35°	312	331	378	400	409	193
45°	196	195	177	187	190	153
55°	117	100	40	31	30	106
65°	76	63	8	2	2	74
75°	34	28	3	1	0	37
85°	7	5	0	0	0	9
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°	483.6	483.6	483.6	483.6	483.6	483.6	483.6	483.6	483.6	483.6	483.6
2.5°	477.6	478.5	473.5	472.1	475.8	477.1	477.6	476.2	476.7	478.5	478.5
5°	469.3	470.2	465.6	464.2	467.9	468.8	470.2	469.8	471.1	473.9	473.5
7.5°	461.4	462.8	457.7	455.9	460.5	462.8	463.7	463.7	465.6	469.3	469.8
10°	452.6	454.5	449.9	448.9	454.0	456.3	456.8	457.7	460.5	465.6	466.5
12.5°	445.2	447.1	443.9	442.5	448.0	450.3	451.2	453.1	456.3	462.8	463.7
15°	438.8	440.2	436.5	435.5	441.1	443.9	444.3	447.1	451.2	458.6	460.0
17.5°	430.4	431.4	428.6	427.7	433.2	436.0	436.5	439.7	444.8	452.2	454.5
20°	420.7	421.7	418.9	418.0	423.5	426.7	427.2	430.0	436.0	443.9	446.2
22.5°	409.2	411.0	407.8	406.9	412.4	415.2	416.6	418.9	424.9	432.8	436.0
25°	397.2	397.2	394.9	394.4	399.5	402.7	402.2	405.5	411.5	419.4	422.1
27.5°	381.4	381.0	378.7	378.2	383.7	386.5	385.6	388.8	394.4	402.2	405.0
30°	360.6	361.6	358.3	357.4	362.0	366.7	366.2	369.4	375.0	382.4	384.2
32.5°	335.7	336.6	336.1	334.7	338.9	341.2	342.6	344.9	349.5	357.4	359.2
35°	312.1	310.7	308.9	308.9	313.0	316.7	315.3	318.1	322.7	330.6	331.0
37.5°	283.0	282.5	281.6	280.6	285.3	286.2	286.7	288.5	292.7	299.1	298.2
40°	252.4	252.9	252.4	250.6	253.4	257.1	256.6	257.5	261.2	265.8	264.5
42.5°	223.8	223.8	223.8	221.9	225.2	227.0	227.9	227.5	228.4	232.6	230.7
45°	196.5	197.0	196.5	196.0	196.5	197.4	196.5	196.0	196.0	197.4	194.6
47.5°	172.9	172.9	171.5	170.1	171.5	172.0	170.6	169.2	168.8	168.3	163.7
50°	151.7	151.2	150.7	148.4	149.8	150.3	148.4	147.5	145.6	143.3	137.8
52.5°	133.2	132.7	132.2	129.9	130.9	131.3	129.5	127.6	125.3	123.5	116.5
55°	117.4	117.0	117.0	115.6	114.7	115.6	113.7	112.3	109.1	106.8	99.9
57.5°	104.0	104.0	103.1	101.7	102.2	102.2	100.3	98.5	95.7	92.9	87.4
60°	92.5	92.5	92.5	91.1	91.1	91.1	90.2	88.3	86.0	83.2	77.7
62.5°	83.2	83.2	82.8	81.4	81.8	81.8	80.9	79.1	76.8	74.9	69.4
65°	75.8	75.8	75.8	74.4	74.4	74.9	74.0	72.1	70.3	68.0	62.9
67.5°	66.6	66.1	66.1	65.2	65.7	66.1	65.2	63.8	61.5	60.1	55.5
70°	55.0	55.5	55.9	54.6	55.0	55.0	54.6	53.2	51.8	50.4	46.2
72.5°	44.9	44.9	44.4	43.9	43.9	44.4	43.5	42.1	41.2	40.2	37.0
75°	34.2	33.7	34.2	33.3	33.3	33.3	32.4	31.9	31.4	30.0	27.7
77.5°	25.0	24.5	24.5	23.6	24.1	24.1	23.6	22.7	21.7	21.3	19.4
80°	17.1	17.1	17.1	16.6	16.6	16.2	16.2	15.7	14.8	14.3	13.4
82.5°	11.6	11.6	11.6	11.1	11.1	11.1	10.6	10.2	9.7	9.2	8.3
85°	7.4	7.4	7.4	6.9	6.9	6.9	6.5	6.5	6.0	5.5	4.6
87.5°	4.2	4.2	4.2	3.7	3.7	3.7	3.7	3.7	3.2	2.8	2.3
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°	483.6	483.6	483.6	483.6	483.6	483.6	483.6	483.6	483.6	483.6	483.6
2.5°	481.8	475.3	479.4	479.4	478.1	481.8	484.1	485.9	485.5	481.3	480.8
5°	478.1	472.5	477.1	477.6	476.2	481.3	484.5	486.9	487.3	483.6	484.1
7.5°	475.3	470.7	476.7	478.5	478.1	482.7	486.4	490.1	491.9	489.2	489.6
10°	473.9	470.2	476.7	479.4	479.9	485.0	490.6	495.6	498.0	496.1	497.5
12.5°	472.1	469.8	477.1	481.3	483.1	488.2	495.2	501.2	504.9	504.0	506.7
15°	470.2	468.4	477.1	483.1	485.5	490.1	498.0	506.7	510.9	510.4	514.1
17.5°	465.6	465.1	474.4	480.8	484.1	489.6	497.0	507.7	511.8	512.7	517.4
20°	458.2	458.2	468.4	475.3	479.0	484.1	493.3	503.5	508.6	509.5	514.6
22.5°	448.0	448.9	458.6	465.6	471.1	474.8	484.5	495.2	499.8	501.2	506.7
25°	434.6	435.5	444.8	451.7	457.7	461.9	471.1	480.8	486.4	487.8	491.9
27.5°	417.0	418.9	427.7	434.6	439.7	442.5	452.2	462.3	466.5	467.9	472.1
30°	396.7	397.2	405.9	412.0	417.0	419.4	427.7	438.3	441.5	442.9	448.9
32.5°	371.7	371.3	379.6	385.1	389.3	392.1	400.8	407.8	411.0	413.3	416.6
35°	341.7	341.2	347.2	353.7	356.9	357.9	366.7	374.0	375.9	377.7	381.9
37.5°	307.9	307.9	313.0	316.3	319.9	321.3	325.5	333.8	337.1	336.6	339.8
40°	272.3	270.5	274.2	277.4	278.3	278.8	283.0	289.4	291.7	291.7	294.0
42.5°	234.9	232.1	232.6	234.4	235.3	232.1	234.9	239.0	237.6	239.5	240.0
45°	195.1	190.9	189.1	184.9	185.9	182.6	180.8	181.7	181.2	176.6	177.5
47.5°	162.7	155.4	152.1	146.1	144.7	141.0	138.7	134.5	130.9	130.9	128.5
50°	135.5	128.1	121.6	114.7	112.3	109.1	104.0	98.5	95.7	92.9	90.6
52.5°	113.7	105.9	98.0	90.6	87.4	83.2	76.3	70.7	65.7	62.9	60.1
55°	96.2	87.4	79.1	71.2	67.0	62.9	55.9	49.5	43.5	39.8	37.4
57.5°	82.8	74.4	65.7	57.3	53.6	49.0	41.6	34.7	29.1	25.0	22.7
60°	73.1	64.7	56.9	48.1	44.4	39.8	31.9	25.4	19.9	16.2	13.4
62.5°	64.7	57.3	49.0	41.2	37.4	32.8	25.4	19.0	13.9	10.2	7.9
65°	58.7	51.3	44.4	36.5	33.3	28.7	21.7	15.7	11.1	7.9	5.5
67.5°	51.8	45.3	38.4	31.9	28.7	25.0	18.5	13.4	9.2	6.5	4.6
70°	43.5	38.4	32.4	26.4	24.1	20.8	15.3	11.1	7.4	5.1	3.7
72.5°	34.7	30.5	25.9	21.3	19.4	16.2	12.5	8.8	5.5	3.7	2.8
75°	26.4	23.1	19.4	16.2	14.3	12.5	9.2	6.5	4.2	2.8	1.8
77.5°	18.0	16.6	13.9	11.1	10.2	8.8	6.0	4.2	2.8	1.8	0.9
80°	12.5	11.1	9.2	7.4	6.5	5.5	3.7	2.8	1.4	0.9	0.5
82.5°	7.9	6.5	5.5	4.6	4.2	3.2	2.3	1.4	0.9	0.5	0.5
85°	4.2	3.7	3.2	2.3	2.3	1.8	1.4	0.9	0.5	0.0	0.0
87.5°	2.3	1.8	1.4	0.9	0.9	0.5	0.5	0.5	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°	483.6	483.6	483.6	483.6	483.6	483.6	483.6	483.6	483.6	483.6	483.6
2.5°	486.4	486.4	485.9	491.5	485.0	491.5	488.2	491.5	486.9	486.4	486.9
5°	490.1	491.5	491.9	497.0	491.0	498.9	496.1	498.9	495.6	496.6	498.0
7.5°	497.5	499.8	499.3	505.8	499.8	508.6	506.7	510.9	507.7	508.6	510.4
10°	505.8	508.6	509.0	515.5	510.0	520.6	518.3	522.9	520.1	521.5	523.8
12.5°	515.5	518.8	519.2	526.6	520.6	531.7	530.3	534.9	532.6	534.0	536.8
15°	522.9	527.5	528.5	535.9	529.4	540.9	540.0	546.0	542.3	544.6	547.0
17.5°	526.6	530.8	532.6	539.6	534.0	545.6	544.6	549.7	547.0	549.3	552.1
20°	524.3	529.4	530.8	537.7	532.2	543.7	542.3	547.4	544.6	546.5	549.3
22.5°	516.0	521.1	522.9	529.4	524.3	534.9	534.5	539.1	535.4	537.7	540.0
25°	501.2	506.7	507.7	513.7	508.1	519.2	518.3	523.4	520.6	522.0	525.2
27.5°	479.9	486.4	487.8	492.9	488.7	498.0	498.0	502.1	498.9	498.9	502.1
30°	454.5	461.0	461.9	466.1	462.3	470.7	471.1	475.3	470.2	473.0	473.5
32.5°	423.5	427.7	430.4	434.1	428.6	439.2	437.8	441.1	438.3	438.3	440.6
35°	386.1	391.2	392.5	397.2	392.5	400.8	400.8	402.7	399.9	399.9	403.6
37.5°	345.4	349.1	349.5	354.2	350.5	357.4	356.9	358.3	355.5	357.4	357.4
40°	297.7	300.5	301.4	303.8	303.3	308.4	307.9	308.9	307.5	307.9	308.9
42.5°	242.3	246.0	247.8	249.7	246.9	253.8	252.4	253.8	253.4	253.8	255.2
45°	178.5	181.2	182.6	183.1	182.2	186.3	189.6	186.8	187.2	186.3	188.2
47.5°	129.0	129.5	128.5	131.3	129.0	130.9	131.8	132.2	129.5	129.0	130.9
50°	88.3	90.6	87.4	88.8	88.3	90.2	89.2	89.7	86.9	88.3	87.4
52.5°	58.7	58.2	57.3	57.8	56.9	56.9	56.9	57.8	55.9	55.0	54.1
55°	35.6	34.7	32.8	32.4	32.4	32.8	31.9	31.0	31.0	30.5	30.5
57.5°	20.8	19.4	18.5	18.0	17.1	16.6	16.2	16.2	15.3	15.3	15.3
60°	11.6	10.2	9.2	8.3	8.3	7.9	7.4	6.9	6.9	6.9	6.5
62.5°	6.0	5.1	4.2	3.7	3.7	3.2	2.8	2.8	2.8	2.8	2.3
65°	4.2	3.2	2.8	2.3	2.3	1.8	1.8	1.8	1.8	1.8	1.8
67.5°	3.2	2.8	2.3	1.8	1.8	1.8	1.4	1.4	1.4	1.4	1.4
70°	2.8	1.8	1.8	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
72.5°	1.8	1.8	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
75°	1.4	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
77.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0
80°	0.5	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: P685215

CATALOG NUMBER: LX6C08D010 EX6089027 6LCSWLI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	483.6	483.6	483.6	483.6	483.6	483.6	483.6	483.6
2.5°	491.0	490.6	491.0	491.9	490.1	495.6	492.9	495.6
5°	501.7	502.1	502.6	504.0	501.7	508.6	504.9	509.0
7.5°	515.5	516.0	516.4	517.8	516.4	523.4	519.2	522.9
10°	529.9	530.8	530.8	533.1	531.7	538.2	535.4	540.0
12.5°	543.3	544.2	545.1	546.5	545.6	552.5	550.2	553.9
15°	553.9	555.7	556.2	558.0	557.1	564.5	561.7	565.5
17.5°	559.0	560.8	560.8	563.1	562.2	570.1	566.4	570.5
20°	556.2	557.6	558.0	560.4	559.4	567.3	563.6	568.7
22.5°	547.4	547.9	548.4	550.7	550.2	557.1	553.9	557.1
25°	531.2	532.6	532.2	534.0	534.0	539.6	535.9	538.6
27.5°	508.1	509.5	509.5	511.8	510.0	515.5	511.8	516.0
30°	479.9	481.3	480.4	482.2	480.4	485.9	483.1	484.5
32.5°	446.2	446.2	446.6	447.1	446.2	451.2	448.5	451.2
35°	405.9	406.9	407.3	407.8	406.9	410.6	407.3	409.2
37.5°	360.6	362.9	362.5	362.9	361.6	366.2	363.4	364.3
40°	312.1	312.1	311.6	312.6	311.2	314.9	313.0	313.9
42.5°	255.7	257.1	255.2	257.5	253.8	258.9	257.1	255.7
45°	191.9	190.0	189.6	190.0	188.6	189.1	190.5	189.6
47.5°	130.9	130.9	129.9	128.5	130.4	130.9	129.0	129.0
50°	87.8	87.8	86.9	86.5	87.4	86.9	86.0	87.4
52.5°	55.9	54.1	54.1	55.0	54.1	53.2	54.6	53.6
55°	30.5	29.6	29.6	30.5	29.6	29.6	29.1	30.0
57.5°	14.8	15.3	14.8	14.8	14.8	14.8	14.3	14.8
60°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
62.5°	2.8	2.8	2.3	2.3	2.3	2.3	2.3	2.3
65°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
67.5°	1.4	1.4	1.4	1.4	1.4	1.8	1.4	1.4
70°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
72.5°	1.4	1.4	1.8	1.8	1.8	1.8	1.8	1.8
75°	0.9	0.9	0.9	0.5	0.5	0.5	0.5	0.5
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



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















(END OF REPORT)