

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: P683934

Luminaire Tested: **LX6C10D010 EX6C109050 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: P683934  
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 EX6C109050 6LCSWH  
Description: 6 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 6LCSW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

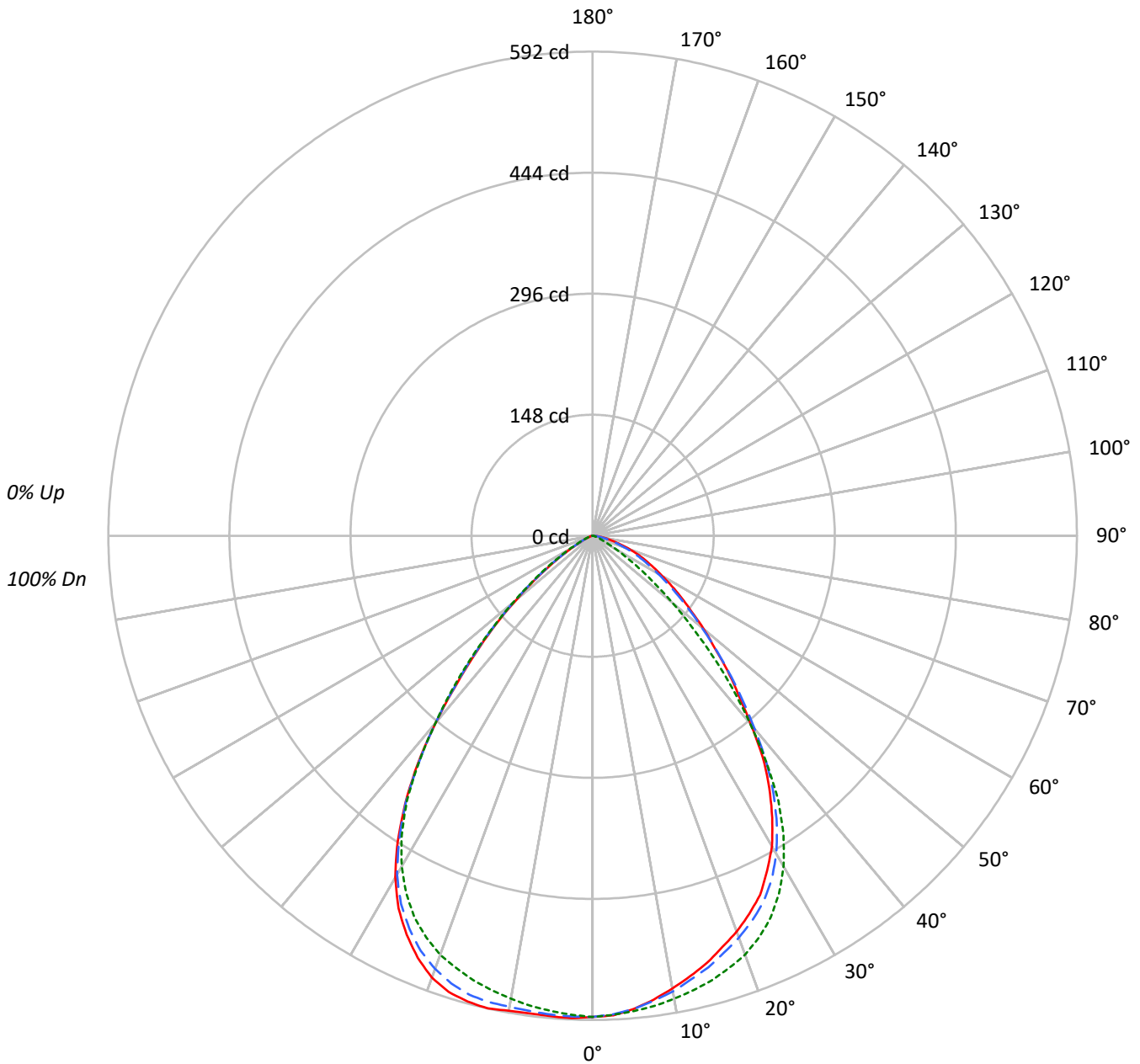
Lumens per Lamp: N/A  
Luminaire Lumens: 987.0 lumens  
Efficiency: N/A  
Efficacy: 100.7 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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 EX6C109050 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°	32251	32251	32251
5°	31945	32099	32451
10°	31284	31997	32826
15°	30687	31935	33468
20°	30050	31794	33533
25°	29312	31157	32536
30°	27751	29549	30536
35°	25203	26488	26722
40°	21512	21404	21304
45°	18064	16033	15536
50°	15087	10848	10302
55°	12702	6652	6040
60°	10756	3508	3037
65°	9314	1842	1479
70°	7742	1138	801
75°	5719	763	445
80°	4483	442	221
85°	3585	440	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.4	5.6
10°-20°	158.8	16.1
20°-30°	234.4	23.8
30°-40°	241.6	24.5
40°-50°	166.9	16.9
50°-60°	82.3	8.3
60°-70°	33.3	3.4
70°-80°	11.9	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°	448.6	45.5
0°-40°	690.2	69.9
0°-60°	939.3	95.2
0°-90°	987.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	987.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	588	588	588	588	588	
5°	580	580	583	588	590	55
15°	541	546	563	581	590	152
25°	485	494	515	530	538	222
35°	377	386	396	398	399	233
45°	233	234	207	204	200	180
55°	133	128	70	65	63	120
65°	72	65	14	11	11	71
75°	27	23	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°	588.3	588.3	588.3	588.3	588.3	588.3	588.3	588.3	588.3	588.3	588.3
2.5°	586.9	584.8	586.2	583.3	586.9	583.3	584.0	584.8	584.0	584.8	585.5
5°	580.5	578.4	580.5	576.9	580.5	578.4	578.4	579.1	579.1	579.8	580.5
7.5°	572.0	569.8	572.0	568.4	572.7	570.6	570.6	572.0	571.3	572.0	573.4
10°	562.0	559.2	561.3	559.2	563.4	560.6	562.0	562.0	562.0	564.1	565.6
12.5°	551.4	548.5	551.4	547.8	552.1	550.0	550.6	552.8	553.5	554.9	555.6
15°	540.7	537.2	538.6	536.4	540.7	538.6	539.3	542.1	542.1	544.3	546.4
17.5°	527.2	524.4	527.2	524.4	527.9	526.5	527.9	530.0	530.0	532.2	534.3
20°	515.1	512.3	514.4	512.3	516.6	514.4	515.1	518.0	518.7	520.8	522.9
22.5°	500.2	498.1	499.5	497.4	501.6	500.2	500.9	503.8	504.5	505.9	509.4
25°	484.6	480.3	482.4	481.0	485.3	483.2	484.6	487.4	488.8	491.0	493.8
27.5°	461.8	459.7	461.1	461.1	464.7	462.6	463.3	466.1	468.2	470.4	473.9
30°	438.4	434.9	436.3	437.0	439.8	438.4	439.8	442.7	443.4	446.2	449.0
32.5°	408.6	407.1	410.0	408.6	410.0	410.0	410.7	412.8	414.2	415.7	419.2
35°	376.6	373.7	376.6	375.2	378.7	376.6	378.7	380.9	380.9	383.7	385.8
37.5°	341.8	338.2	339.6	339.6	341.0	340.3	340.3	343.9	344.6	346.7	348.9
40°	300.6	299.1	302.0	301.3	302.0	302.0	302.7	304.8	306.2	306.9	307.7
42.5°	263.6	264.3	265.0	265.0	265.0	265.0	265.0	267.9	267.2	269.3	270.0
45°	233.0	230.2	231.6	230.9	233.0	230.9	233.0	235.2	233.8	235.9	234.5
47.5°	201.8	201.8	201.8	201.1	202.5	201.8	203.2	203.9	203.9	203.9	203.2
50°	176.9	174.8	175.5	175.5	176.2	175.5	176.9	177.6	177.6	176.2	173.4
52.5°	152.8	152.1	152.1	153.5	153.5	152.8	152.8	152.8	152.8	150.6	149.2
55°	132.9	131.5	132.2	132.2	132.2	132.2	132.9	132.2	132.2	130.0	127.9
57.5°	115.1	113.7	113.7	113.7	114.4	113.7	113.7	113.7	113.0	110.8	108.0
60°	98.1	97.3	98.1	98.1	98.8	98.1	98.1	98.1	96.6	94.5	91.6
62.5°	83.8	83.8	83.8	84.5	84.5	83.8	83.8	83.1	82.4	79.6	76.7
65°	71.8	71.0	71.8	71.8	72.5	72.5	71.8	71.0	70.4	67.5	64.7
67.5°	59.7	59.0	59.7	59.7	60.4	59.7	59.7	59.7	57.6	56.1	53.3
70°	48.3	47.6	47.6	47.6	48.3	46.9	47.6	47.6	46.2	44.1	41.2
72.5°	37.0	37.0	37.0	37.0	37.0	37.0	36.2	36.2	34.8	32.7	31.3
75°	27.0	27.0	27.7	27.7	27.0	27.0	27.0	26.3	25.6	24.2	22.7
77.5°	19.9	19.9	19.9	19.9	19.2	19.2	19.2	18.5	17.8	17.0	15.6
80°	14.2	14.2	14.2	13.5	14.2	13.5	13.5	13.5	12.1	11.4	10.7
82.5°	9.9	9.2	9.2	9.2	9.2	9.2	9.2	8.5	8.5	7.8	7.1
85°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.0	4.3	4.3
87.5°	2.8	3.6	3.6	3.6	3.6	3.6	3.6	2.8	2.8	2.8	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°	588.3	588.3	588.3	588.3	588.3	588.3	588.3	588.3	588.3	588.3	588.3
2.5°	585.5	585.5	586.9	584.8	588.3	586.2	585.5	589.0	586.9	586.2	587.6
5°	580.5	581.2	581.9	580.5	584.0	581.9	581.9	585.5	584.0	583.3	585.5
7.5°	574.1	574.8	576.2	575.5	578.4	576.9	577.7	581.2	579.8	579.8	581.9
10°	566.3	567.7	569.1	569.1	572.7	571.3	571.3	575.5	574.1	574.8	577.7
12.5°	557.0	559.2	561.3	562.0	565.6	563.4	564.1	569.1	568.4	569.1	572.0
15°	547.1	550.0	552.1	552.1	556.3	554.2	556.3	561.3	559.9	562.7	566.3
17.5°	535.7	538.6	541.4	542.1	546.4	545.0	547.8	552.8	552.8	554.2	558.5
20°	525.1	528.6	530.0	532.2	536.4	535.7	537.2	542.8	542.8	545.0	549.2
22.5°	510.9	514.4	517.3	519.4	522.9	522.9	525.1	530.0	530.0	531.5	535.7
25°	495.2	499.5	501.6	503.8	507.3	506.6	508.7	513.0	513.7	515.1	519.4
27.5°	475.3	478.9	481.7	483.2	488.1	485.3	487.4	492.4	491.7	493.1	496.7
30°	450.5	454.0	456.9	456.9	461.1	461.1	463.3	465.4	465.4	466.8	469.7
32.5°	421.3	425.6	425.6	427.7	430.6	427.7	430.6	433.4	432.0	434.1	436.3
35°	387.9	390.1	390.8	390.8	392.9	392.2	391.5	393.6	392.2	395.8	397.9
37.5°	347.5	350.3	348.9	350.3	349.6	347.5	347.5	351.0	348.1	348.9	351.0
40°	308.4	308.4	307.7	304.1	304.8	302.7	302.0	302.7	299.8	299.1	302.0
42.5°	267.9	267.2	265.0	260.1	260.7	257.2	254.4	254.4	252.9	252.2	252.9
45°	231.6	229.5	225.9	220.3	218.8	216.0	210.3	208.9	206.8	206.8	207.5
47.5°	198.2	195.4	189.7	183.3	179.8	176.2	170.5	168.4	164.8	163.4	164.8
50°	170.5	165.6	158.4	149.2	145.6	141.4	135.7	132.2	128.6	127.2	126.5
52.5°	145.0	137.8	130.7	119.4	116.5	112.3	104.4	100.9	97.3	94.5	94.5
55°	122.9	116.5	106.6	95.9	91.6	87.4	79.6	74.6	71.0	69.6	68.2
57.5°	103.0	95.9	86.7	75.3	71.0	66.8	59.0	54.0	50.4	48.3	46.9
60°	86.7	78.9	69.6	59.7	54.7	50.4	42.6	37.6	34.1	32.0	30.5
62.5°	71.0	64.7	55.4	46.2	41.9	37.6	31.3	26.3	22.7	21.3	19.2
65°	59.7	53.3	44.8	37.0	33.4	29.1	23.5	19.2	16.4	14.2	12.8
67.5°	48.3	43.3	36.2	29.1	25.6	22.7	17.8	14.2	11.4	9.9	9.2
70°	38.4	33.4	27.7	22.0	19.9	17.0	13.5	9.9	8.5	7.1	6.4
72.5°	28.4	24.9	20.6	16.4	14.2	12.8	9.2	7.8	5.7	5.0	4.3
75°	20.6	17.8	14.9	11.4	9.9	9.2	7.1	5.0	4.3	3.6	2.8
77.5°	14.2	12.8	9.9	7.8	7.1	6.4	5.0	3.6	2.8	2.1	2.1
80°	9.2	7.8	6.4	5.0	5.0	4.3	2.8	2.1	2.1	1.4	1.4
82.5°	5.7	5.0	4.3	3.6	2.8	2.8	2.1	1.4	1.4	0.7	0.7
85°	3.6	2.8	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°	588.3	588.3	588.3	588.3	588.3	588.3	588.3	588.3	588.3	588.3	588.3
2.5°	587.6	587.6	589.0	586.9	588.3	588.3	589.7	586.9	588.3	589.0	590.4
5°	584.8	585.5	586.9	586.2	586.9	586.9	588.3	584.8	587.6	587.6	589.7
7.5°	581.9	581.9	583.3	582.6	584.0	584.8	586.2	583.3	586.2	586.2	588.3
10°	578.4	578.4	580.5	579.8	581.9	582.6	584.8	581.9	584.8	585.5	587.6
12.5°	573.4	574.1	576.2	576.2	578.4	579.8	581.9	580.5	584.0	584.8	587.6
15°	567.7	569.1	572.0	571.3	573.4	575.5	578.4	576.2	581.2	582.6	585.5
17.5°	560.6	562.0	564.1	564.1	566.3	567.7	571.3	569.8	574.1	574.8	578.4
20°	550.0	552.1	554.9	554.2	556.3	557.8	560.6	559.2	563.4	564.9	568.4
22.5°	537.2	538.6	540.7	540.7	542.8	544.3	547.1	545.0	549.2	550.0	552.8
25°	520.1	521.5	522.9	523.7	525.8	526.5	527.9	526.5	530.0	530.8	534.3
27.5°	498.1	498.8	500.9	500.9	502.3	503.0	505.2	502.3	507.3	507.3	509.4
30°	471.8	471.1	473.9	472.5	473.9	473.9	476.1	474.6	478.2	476.8	478.9
32.5°	437.0	438.4	438.4	437.0	439.8	439.1	439.1	437.7	439.8	440.5	441.9
35°	396.5	398.6	398.6	399.3	400.0	397.9	398.6	394.3	397.9	398.6	399.3
37.5°	352.4	350.3	351.7	349.6	353.1	348.9	348.9	346.0	348.9	348.9	349.6
40°	302.0	301.3	302.7	301.3	300.6	299.8	298.4	296.3	299.1	297.7	299.8
42.5°	254.4	253.6	253.6	252.2	251.5	251.5	250.1	248.7	248.0	248.0	251.5
45°	205.3	206.8	205.3	204.6	206.1	204.6	205.3	202.5	203.9	202.5	203.9
47.5°	164.1	164.8	163.4	162.0	164.1	162.0	162.0	159.9	162.7	162.7	161.3
50°	127.2	126.5	125.0	126.5	125.8	125.8	125.8	123.6	125.0	122.9	124.3
52.5°	93.8	93.1	93.1	92.4	93.1	92.4	92.4	91.6	91.6	91.0	91.6
55°	68.2	67.5	66.1	66.1	66.1	66.8	66.1	65.4	65.4	64.7	65.4
57.5°	46.2	44.8	44.8	44.8	44.8	44.1	44.1	43.3	44.1	43.3	44.1
60°	29.8	29.8	28.4	28.4	28.4	28.4	28.4	27.7	28.4	28.4	28.4
62.5°	18.5	18.5	17.8	17.0	17.8	17.0	17.0	17.0	17.8	17.0	17.8
65°	12.1	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
67.5°	8.5	7.8	7.8	7.8	7.8	7.8	7.8	7.1	7.8	7.8	7.8
70°	5.7	5.7	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
72.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
75°	2.8	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: P683934

CATALOG NUMBER: LX6C10D010 EX6C109050 6LCSWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	588.3	588.3	588.3	588.3	588.3	588.3	588.3	588.3
2.5°	588.3	589.0	587.6	588.3	586.9	588.3	589.0	590.4
5°	586.9	587.6	586.2	587.6	586.2	587.6	588.3	589.7
7.5°	585.5	586.9	585.5	586.9	585.5	586.9	587.6	589.0
10°	585.5	587.6	586.2	588.3	586.2	587.6	589.0	589.7
12.5°	585.5	587.6	586.9	588.3	587.6	589.0	590.4	591.9
15°	584.0	586.2	584.8	586.9	586.2	586.9	589.7	589.7
17.5°	576.2	578.4	578.4	579.8	579.8	581.9	583.3	584.8
20°	566.3	568.4	567.7	569.8	569.8	572.0	573.4	574.8
22.5°	551.4	554.2	553.5	555.6	554.9	556.3	559.2	558.5
25°	532.2	535.7	535.0	536.4	535.7	535.7	537.2	537.9
27.5°	508.7	510.9	510.1	511.6	510.1	511.6	513.0	513.7
30°	478.2	479.6	478.9	479.6	478.9	480.3	481.0	482.4
32.5°	441.2	443.4	441.2	442.7	441.9	441.9	444.8	443.4
35°	397.2	397.9	398.6	398.6	397.2	397.9	399.3	399.3
37.5°	348.1	351.7	347.5	349.6	348.9	348.9	348.9	351.0
40°	297.0	297.7	296.3	296.3	296.3	295.6	298.4	297.7
42.5°	248.7	249.4	248.7	246.6	247.3	247.3	249.4	246.6
45°	201.8	203.2	202.5	202.5	201.1	201.1	201.8	200.4
47.5°	159.9	161.3	159.2	159.9	158.4	159.9	159.2	160.6
50°	121.5	122.9	122.2	122.9	122.9	121.5	123.6	120.8
52.5°	91.0	91.6	91.0	90.2	89.5	89.5	91.0	90.2
55°	64.7	63.9	63.9	63.9	64.7	64.7	63.9	63.2
57.5°	43.3	43.3	42.6	42.6	43.3	41.9	42.6	41.9
60°	27.7	27.7	27.7	27.7	27.0	27.7	27.7	27.7
62.5°	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
65°	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
67.5°	7.1	7.8	7.8	7.8	7.1	7.1	7.1	7.1
70°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
72.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
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)