

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: P684633

Luminaire Tested: **LX6C08D010 EX6C089050 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: P684633  
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: LX6C08D010 EX6C089050 6LCSWH  
Description: 6 INCH 800 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**

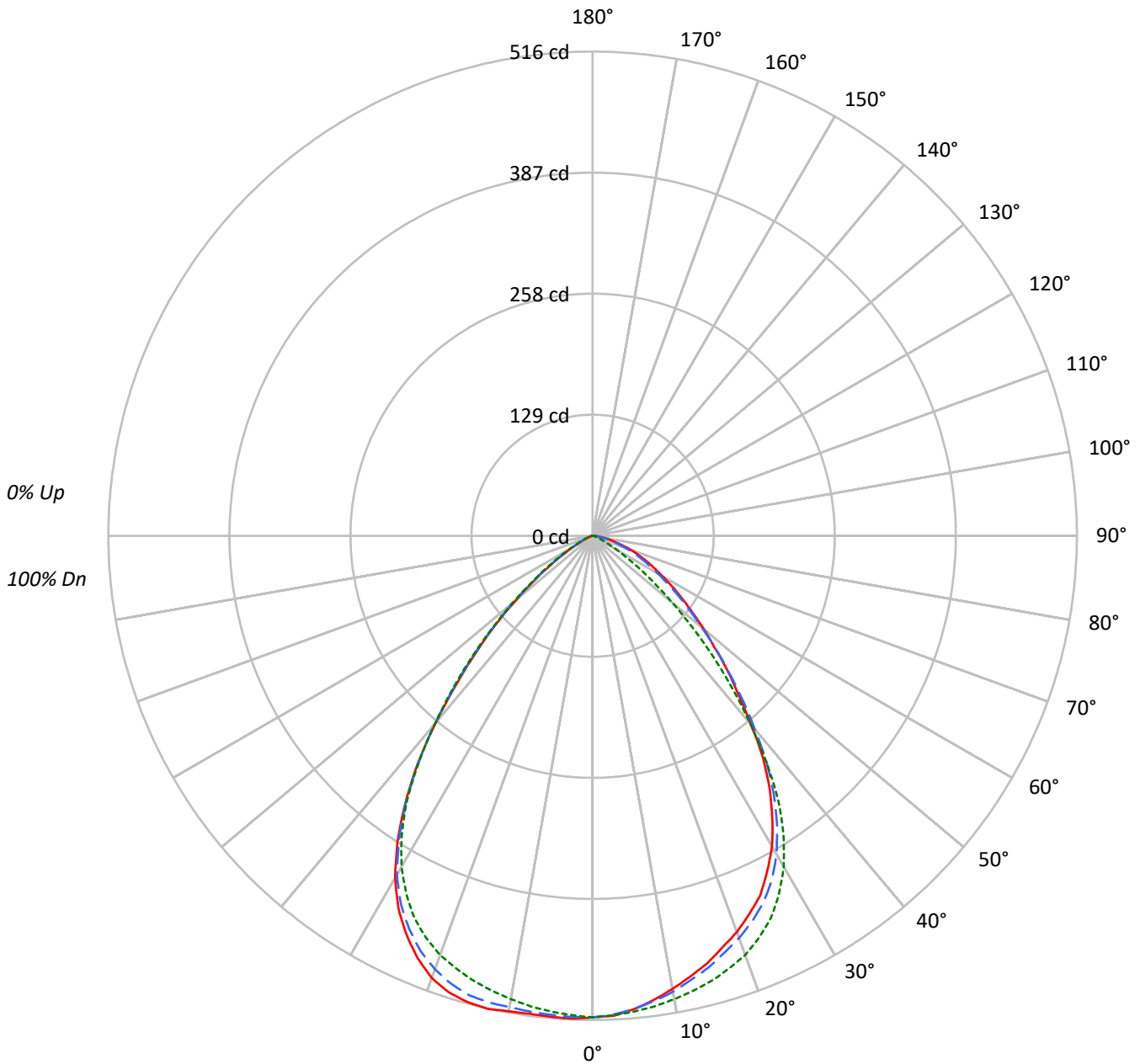
Lumens per Lamp: N/A  
Luminaire Lumens: 861.0 lumens  
Efficiency: N/A  
Efficacy: 87.0 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.9  
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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CATALOG NUMBER: LX6C08D010 EX6C089050 6LCSWH

### 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								
1	112	108	105	103	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°	28134	28134	28134
5°	27867	28005	28313
10°	27293	27911	28640
15°	26771	27861	29200
20°	26217	27734	29251
25°	25568	27183	28381
30°	24206	25776	26637
35°	21984	23102	23309
40°	18764	18671	18585
45°	15761	13986	13552
50°	13159	9458	8989
55°	11077	5801	5276
60°	9374	3059	2653
65°	8120	1608	1284
70°	6748	994	689
75°	4999	657	402
80°	3915	379	189
85°	3145	377	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.4	5.6
10°-20°	138.5	16.1
20°-30°	204.5	23.8
30°-40°	210.7	24.5
40°-50°	145.6	16.9
50°-60°	71.7	8.3
60°-70°	29.1	3.4
70°-80°	10.4	1.2
80°-90°	2.1	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°	391.4	45.5
0°-40°	602.1	69.9
0°-60°	819.4	95.2
0°-90°	861.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	861.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	513	513	513	513	513	
5°	506	506	509	513	514	48
15°	472	477	491	507	514	133
25°	423	431	449	462	469	193
35°	328	337	345	347	348	204
45°	203	204	180	178	175	157
55°	116	112	61	57	55	105
65°	63	56	12	10	10	62
75°	24	20	3	2	2	26
85°	5	4	1	0	0	6
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°	513.2	513.2	513.2	513.2	513.2	513.2	513.2	513.2	513.2	513.2	513.2
2.5°	512.0	510.1	511.4	508.9	512.0	508.9	509.5	510.1	509.5	510.1	510.7
5°	506.4	504.5	506.4	503.3	506.4	504.5	504.5	505.2	505.2	505.8	506.4
7.5°	499.0	497.1	499.0	495.9	499.6	497.7	497.7	499.0	498.3	499.0	500.2
10°	490.3	487.8	489.7	487.8	491.5	489.0	490.3	490.3	490.3	492.1	493.4
12.5°	481.0	478.5	481.0	477.9	481.6	479.7	480.4	482.2	482.8	484.1	484.7
15°	471.7	468.6	469.8	468.0	471.7	469.8	470.4	472.9	472.9	474.8	476.6
17.5°	459.9	457.4	459.9	457.4	460.5	459.3	460.5	462.4	462.4	464.2	466.1
20°	449.4	446.9	448.7	446.9	450.6	448.7	449.4	451.8	452.5	454.3	456.2
22.5°	436.3	434.5	435.7	433.9	437.6	436.3	437.0	439.4	440.1	441.3	444.4
25°	422.7	419.0	420.8	419.6	423.3	421.5	422.7	425.2	426.4	428.3	430.8
27.5°	402.9	401.0	402.2	402.2	405.3	403.5	404.1	406.6	408.4	410.3	413.4
30°	382.4	379.3	380.6	381.2	383.7	382.4	383.7	386.1	386.8	389.2	391.7
32.5°	356.4	355.1	357.6	356.4	357.6	357.6	358.2	360.1	361.3	362.6	365.7
35°	328.5	326.0	328.5	327.3	330.4	328.5	330.4	332.2	332.2	334.7	336.6
37.5°	298.1	295.0	296.3	296.3	297.5	296.9	296.9	300.0	300.6	302.5	304.3
40°	262.2	260.9	263.4	262.8	263.4	263.4	264.0	265.9	267.1	267.8	268.4
42.5°	230.0	230.6	231.2	231.2	231.2	231.2	231.2	233.7	233.1	234.9	235.5
45°	203.3	200.8	202.1	201.5	203.3	201.5	203.3	205.2	203.9	205.8	204.5
47.5°	176.0	176.0	176.0	175.4	176.7	176.0	177.3	177.9	177.9	177.9	177.3
50°	154.3	152.5	153.1	153.1	153.7	153.1	154.3	155.0	155.0	153.7	151.2
52.5°	133.3	132.6	132.6	133.9	133.9	133.3	133.3	133.3	133.3	131.4	130.2
55°	115.9	114.7	115.3	115.3	115.3	115.3	115.9	115.3	115.3	113.4	111.6
57.5°	100.4	99.2	99.2	99.2	99.8	99.2	99.2	99.2	98.5	96.7	94.2
60°	85.5	84.9	85.5	85.5	86.1	85.5	85.5	85.5	84.3	82.4	79.9
62.5°	73.1	73.1	73.1	73.7	73.7	73.1	73.1	72.5	71.9	69.4	66.9
65°	62.6	62.0	62.6	62.6	63.2	63.2	62.6	62.0	61.4	58.9	56.4
67.5°	52.1	51.4	52.1	52.1	52.7	52.1	52.1	52.1	50.2	49.0	46.5
70°	42.1	41.5	41.5	41.5	42.1	40.9	41.5	41.5	40.3	38.4	35.9
72.5°	32.2	32.2	32.2	32.2	32.2	32.2	31.6	31.6	30.4	28.5	27.3
75°	23.6	23.6	24.2	24.2	23.6	23.6	23.6	22.9	22.3	21.1	19.8
77.5°	17.4	17.4	17.4	17.4	16.7	16.7	16.7	16.1	15.5	14.9	13.6
80°	12.4	12.4	12.4	11.8	12.4	11.8	11.8	11.8	10.5	9.9	9.3
82.5°	8.7	8.1	8.1	8.1	8.1	8.1	8.1	7.4	7.4	6.8	6.2
85°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	4.3	3.7	3.7
87.5°	2.5	3.1	3.1	3.1	3.1	3.1	3.1	2.5	2.5	2.5	1.9
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°	513.2	513.2	513.2	513.2	513.2	513.2	513.2	513.2	513.2	513.2	513.2
2.5°	510.7	510.7	512.0	510.1	513.2	511.4	510.7	513.8	512.0	511.4	512.6
5°	506.4	507.0	507.6	506.4	509.5	507.6	507.6	510.7	509.5	508.9	510.7
7.5°	500.8	501.4	502.7	502.1	504.5	503.3	503.9	507.0	505.8	505.8	507.6
10°	494.0	495.2	496.5	496.5	499.6	498.3	498.3	502.1	500.8	501.4	503.9
12.5°	485.9	487.8	489.7	490.3	493.4	491.5	492.1	496.5	495.9	496.5	499.0
15°	477.3	479.7	481.6	481.6	485.3	483.5	485.3	489.7	488.4	490.9	494.0
17.5°	467.3	469.8	472.3	472.9	476.6	475.4	477.9	482.2	482.2	483.5	487.2
20°	458.0	461.1	462.4	464.2	468.0	467.3	468.6	473.5	473.5	475.4	479.1
22.5°	445.6	448.7	451.2	453.1	456.2	456.2	458.0	462.4	462.4	463.6	467.3
25°	432.0	435.7	437.6	439.4	442.5	441.9	443.8	447.5	448.1	449.4	453.1
27.5°	414.6	417.7	420.2	421.5	425.8	423.3	425.2	429.5	428.9	430.1	433.2
30°	393.0	396.1	398.5	398.5	402.2	402.2	404.1	406.0	406.0	407.2	409.7
32.5°	367.5	371.3	371.3	373.1	375.6	373.1	375.6	378.1	376.8	378.7	380.6
35°	338.4	340.3	340.9	340.9	342.8	342.1	341.5	343.4	342.1	345.2	347.1
37.5°	303.1	305.6	304.3	305.6	304.9	303.1	303.1	306.2	303.7	304.3	306.2
40°	269.0	269.0	268.4	265.3	265.9	264.0	263.4	264.0	261.6	260.9	263.4
42.5°	233.7	233.1	231.2	226.9	227.5	224.4	221.9	221.9	220.7	220.0	220.7
45°	202.1	200.2	197.1	192.2	190.9	188.4	183.5	182.2	180.4	180.4	181.0
47.5°	172.9	170.5	165.5	159.9	156.8	153.7	148.8	146.9	143.8	142.6	143.8
50°	148.8	144.4	138.2	130.2	127.1	123.3	118.4	115.3	112.2	110.9	110.3
52.5°	126.4	120.2	114.0	104.1	101.6	97.9	91.1	88.0	84.9	82.4	82.4
55°	107.2	101.6	93.0	83.7	79.9	76.2	69.4	65.1	62.0	60.7	59.5
57.5°	89.9	83.7	75.6	65.7	62.0	58.3	51.4	47.1	44.0	42.1	40.9
60°	75.6	68.8	60.7	52.1	47.7	44.0	37.2	32.8	29.7	27.9	26.6
62.5°	62.0	56.4	48.3	40.3	36.6	32.8	27.3	22.9	19.8	18.6	16.7
65°	52.1	46.5	39.0	32.2	29.1	25.4	20.5	16.7	14.3	12.4	11.2
67.5°	42.1	37.8	31.6	25.4	22.3	19.8	15.5	12.4	9.9	8.7	8.1
70°	33.5	29.1	24.2	19.2	17.4	14.9	11.8	8.7	7.4	6.2	5.6
72.5°	24.8	21.7	18.0	14.3	12.4	11.2	8.1	6.8	5.0	4.3	3.7
75°	18.0	15.5	13.0	9.9	8.7	8.1	6.2	4.3	3.7	3.1	2.5
77.5°	12.4	11.2	8.7	6.8	6.2	5.6	4.3	3.1	2.5	1.9	1.9
80°	8.1	6.8	5.6	4.3	4.3	3.7	2.5	1.9	1.9	1.2	1.2
82.5°	5.0	4.3	3.7	3.1	2.5	2.5	1.9	1.2	1.2	0.6	0.6
85°	3.1	2.5	1.9	1.9	1.2	1.2	1.2	0.6	0.6	0.6	0.6
87.5°	1.2	1.2	1.2	0.6	0.6	0.6	0.6	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°	513.2	513.2	513.2	513.2	513.2	513.2	513.2	513.2	513.2	513.2	513.2
2.5°	512.6	512.6	513.8	512.0	513.2	513.2	514.5	512.0	513.2	513.8	515.1
5°	510.1	510.7	512.0	511.4	512.0	512.0	513.2	510.1	512.6	512.6	514.5
7.5°	507.6	507.6	508.9	508.3	509.5	510.1	511.4	508.9	511.4	511.4	513.2
10°	504.5	504.5	506.4	505.8	507.6	508.3	510.1	507.6	510.1	510.7	512.6
12.5°	500.2	500.8	502.7	502.7	504.5	505.8	507.6	506.4	509.5	510.1	512.6
15°	495.2	496.5	499.0	498.3	500.2	502.1	504.5	502.7	507.0	508.3	510.7
17.5°	489.0	490.3	492.1	492.1	494.0	495.2	498.3	497.1	500.8	501.4	504.5
20°	479.7	481.6	484.1	483.5	485.3	486.6	489.0	487.8	491.5	492.8	495.9
22.5°	468.6	469.8	471.7	471.7	473.5	474.8	477.3	475.4	479.1	479.7	482.2
25°	453.7	454.9	456.2	456.8	458.7	459.3	460.5	459.3	462.4	463.0	466.1
27.5°	434.5	435.1	437.0	437.0	438.2	438.8	440.7	438.2	442.5	442.5	444.4
30°	411.5	410.9	413.4	412.2	413.4	413.4	415.3	414.0	417.1	415.9	417.7
32.5°	381.2	382.4	382.4	381.2	383.7	383.0	383.0	381.8	383.7	384.3	385.5
35°	345.9	347.7	347.7	348.3	349.0	347.1	347.7	344.0	347.1	347.7	348.3
37.5°	307.4	305.6	306.8	304.9	308.0	304.3	304.3	301.9	304.3	304.3	304.9
40°	263.4	262.8	264.0	262.8	262.2	261.6	260.3	258.5	260.9	259.7	261.6
42.5°	221.9	221.3	221.3	220.0	219.4	219.4	218.2	216.9	216.3	216.3	219.4
45°	179.1	180.4	179.1	178.5	179.8	178.5	179.1	176.7	177.9	176.7	177.9
47.5°	143.2	143.8	142.6	141.3	143.2	141.3	141.3	139.5	141.9	141.9	140.7
50°	110.9	110.3	109.1	110.3	109.7	109.7	109.7	107.8	109.1	107.2	108.5
52.5°	81.8	81.2	81.2	80.6	81.2	80.6	80.6	79.9	79.9	79.3	79.9
55°	59.5	58.9	57.6	57.6	57.6	58.3	57.6	57.0	57.0	56.4	57.0
57.5°	40.3	39.0	39.0	39.0	39.0	38.4	38.4	37.8	38.4	37.8	38.4
60°	26.0	26.0	24.8	24.8	24.8	24.8	24.8	24.2	24.8	24.8	24.8
62.5°	16.1	16.1	15.5	14.9	15.5	14.9	14.9	14.9	15.5	14.9	15.5
65°	10.5	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
67.5°	7.4	6.8	6.8	6.8	6.8	6.8	6.8	6.2	6.8	6.8	6.8
70°	5.0	5.0	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
72.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
75°	2.5	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
77.5°	1.9	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
80°	1.2	1.2	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
82.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
85°	0.6	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	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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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CATALOG NUMBER: LX6C08D010 EX6C089050 6LCSWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	513.2	513.2	513.2	513.2	513.2	513.2	513.2	513.2
2.5°	513.2	513.8	512.6	513.2	512.0	513.2	513.8	515.1
5°	512.0	512.6	511.4	512.6	511.4	512.6	513.2	514.5
7.5°	510.7	512.0	510.7	512.0	510.7	512.0	512.6	513.8
10°	510.7	512.6	511.4	513.2	511.4	512.6	513.8	514.5
12.5°	510.7	512.6	512.0	513.2	512.6	513.8	515.1	516.3
15°	509.5	511.4	510.1	512.0	511.4	512.0	514.5	514.5
17.5°	502.7	504.5	504.5	505.8	505.8	507.6	508.9	510.1
20°	494.0	495.9	495.2	497.1	497.1	499.0	500.2	501.4
22.5°	481.0	483.5	482.8	484.7	484.1	485.3	487.8	487.2
25°	464.2	467.3	466.7	468.0	467.3	467.3	468.6	469.2
27.5°	443.8	445.6	445.0	446.3	445.0	446.3	447.5	448.1
30°	417.1	418.4	417.7	418.4	417.7	419.0	419.6	420.8
32.5°	384.9	386.8	384.9	386.1	385.5	385.5	388.0	386.8
35°	346.5	347.1	347.7	347.7	346.5	347.1	348.3	348.3
37.5°	303.7	306.8	303.1	304.9	304.3	304.3	304.3	306.2
40°	259.1	259.7	258.5	258.5	258.5	257.8	260.3	259.7
42.5°	216.9	217.6	216.9	215.1	215.7	215.7	217.6	215.1
45°	176.0	177.3	176.7	176.7	175.4	175.4	176.0	174.8
47.5°	139.5	140.7	138.8	139.5	138.2	139.5	138.8	140.1
50°	106.0	107.2	106.6	107.2	107.2	106.0	107.8	105.4
52.5°	79.3	79.9	79.3	78.7	78.1	78.1	79.3	78.7
55°	56.4	55.8	55.8	55.8	56.4	56.4	55.8	55.2
57.5°	37.8	37.8	37.2	37.2	37.8	36.6	37.2	36.6
60°	24.2	24.2	24.2	24.2	23.6	24.2	24.2	24.2
62.5°	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9
65°	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
67.5°	6.2	6.8	6.8	6.8	6.2	6.2	6.2	6.2
70°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
72.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
75°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
77.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
82.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.6	0.6	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



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















(END OF REPORT)