

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: P684734

Luminaire Tested: **LX6C10D010 EX6109030 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: P684734  
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 EX6109030 6LCSWLI  
Description: 6 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 6LCSW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

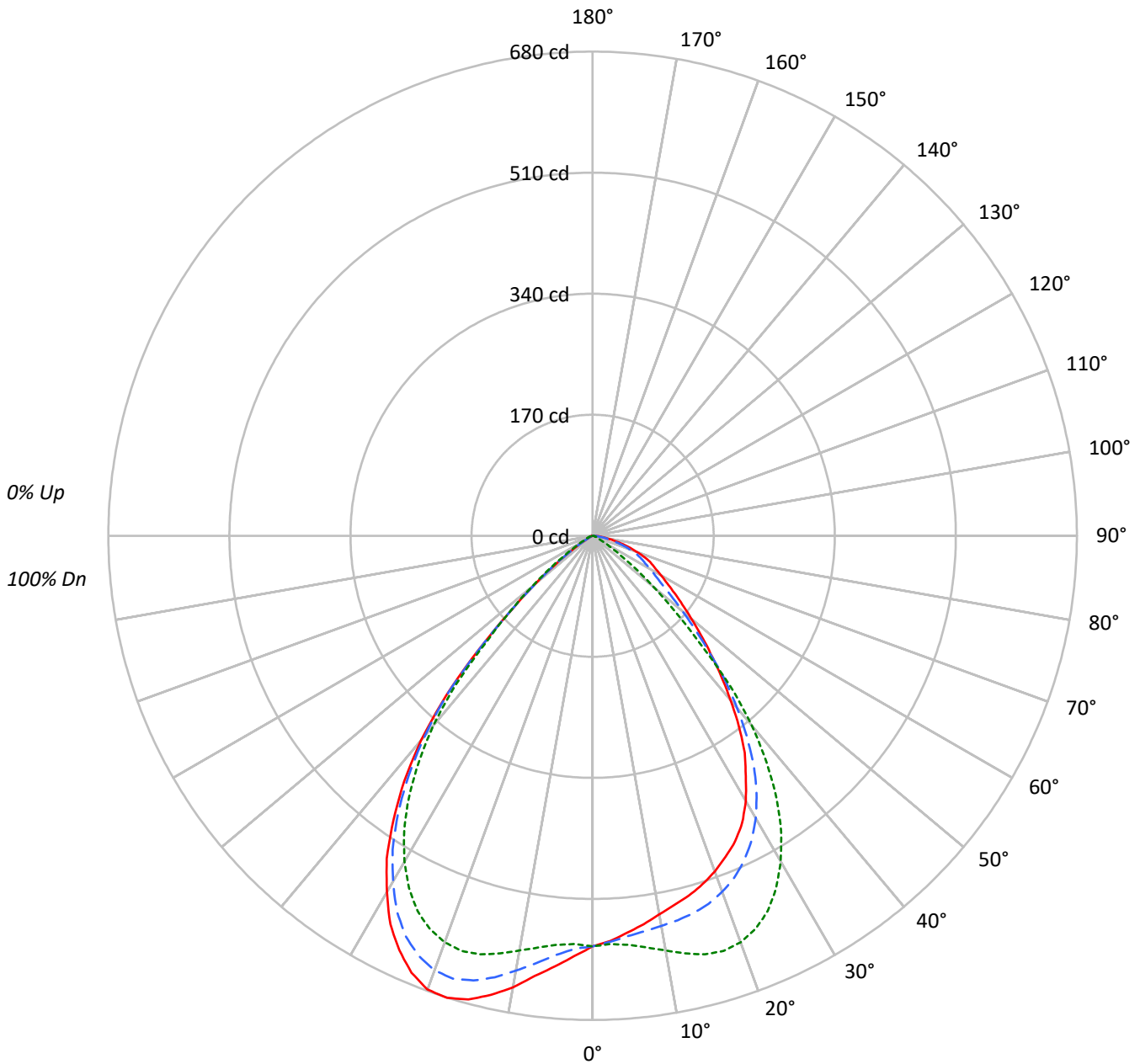
Lumens per Lamp: N/A  
Luminaire Lumens: 1054.0 lumens  
Efficiency: N/A  
Efficacy: 107.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.8  
Input Voltage (V):  
Input Current (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									
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°	31609	31609	31609
5°	30789	31730	33397
10°	30043	32926	35843
15°	29688	34540	38264
20°	29263	35441	39553
25°	28641	35179	38845
30°	27219	33429	36569
35°	24902	30142	32652
40°	21540	24889	26786
45°	18165	16327	17521
50°	15420	9450	8887
55°	13381	4530	3422
60°	12082	2116	844
65°	11726	1219	285
70°	10515	978	272
75°	8642	699	127
80°	6440	347	0
85°	5535	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.7	5.3
10°-20°	169.7	16.1
20°-30°	259.3	24.6
30°-40°	271.3	25.7
40°-50°	176.0	16.7
50°-60°	69.9	6.6
60°-70°	33.2	3.1
70°-80°	15.8	1.5
80°-90°	3.2	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°	484.8	46.0
0°-40°	756.0	71.7
0°-60°	1001.9	95.1
0°-90°	1054.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1054.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	577	577	577	577	577	
5°	560	564	577	591	607	53
15°	523	548	609	647	674	147
25°	474	503	582	621	642	217
35°	372	395	450	477	488	230
45°	234	232	211	223	226	182
55°	140	119	47	37	36	127
65°	90	75	9	2	2	88
75°	41	33	3	1	1	44
85°	9	6	0	0	0	10
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°	576.6	576.6	576.6	576.6	576.6	576.6	576.6	576.6	576.6	576.6	576.6
2.5°	569.5	570.6	564.5	562.8	567.3	568.9	569.5	567.8	568.4	570.6	570.6
5°	559.5	560.6	555.1	553.5	557.9	559.0	560.6	560.1	561.7	565.0	564.5
7.5°	550.2	551.8	545.8	543.6	549.1	551.8	552.9	552.9	555.1	559.5	560.1
10°	539.7	541.9	536.4	535.3	541.3	544.1	544.7	545.8	549.1	555.1	556.2
12.5°	530.9	533.1	529.2	527.6	534.2	536.9	538.0	540.2	544.1	551.8	552.9
15°	523.1	524.8	520.4	519.3	525.9	529.2	529.8	533.1	538.0	546.8	548.5
17.5°	513.2	514.3	511.0	509.9	516.5	519.8	520.4	524.2	530.3	539.1	541.9
20°	501.6	502.8	499.4	498.3	505.0	508.8	509.4	512.7	519.8	529.2	532.0
22.5°	487.9	490.1	486.2	485.1	491.7	495.0	496.7	499.4	506.6	516.0	519.8
25°	473.5	473.5	470.8	470.2	476.3	480.2	479.6	483.4	490.6	500.0	503.3
27.5°	454.8	454.2	451.5	450.9	457.5	460.9	459.7	463.6	470.2	479.6	482.9
30°	430.0	431.1	427.2	426.1	431.6	437.2	436.6	440.5	447.1	455.9	458.1
32.5°	400.2	401.3	400.8	399.1	404.1	406.8	408.5	411.2	416.8	426.1	428.3
35°	372.1	370.4	368.2	368.2	373.2	377.6	376.0	379.3	384.8	394.1	394.7
37.5°	337.4	336.8	335.7	334.6	340.1	341.2	341.8	344.0	349.0	356.7	355.6
40°	301.0	301.5	301.0	298.8	302.1	306.5	305.9	307.1	311.5	317.0	315.3
42.5°	266.8	266.8	266.8	264.6	268.5	270.7	271.8	271.2	272.3	277.3	275.1
45°	234.3	234.8	234.3	233.7	234.3	235.4	234.3	233.7	233.7	235.4	232.1
47.5°	206.2	206.2	204.5	202.9	204.5	205.1	203.4	201.8	201.2	200.7	195.2
50°	180.8	180.3	179.7	177.0	178.6	179.2	177.0	175.8	173.6	170.9	164.3
52.5°	158.8	158.2	157.7	154.9	156.0	156.6	154.4	152.1	149.4	147.2	138.9
55°	140.0	139.5	139.5	137.8	136.7	137.8	135.6	134.0	130.1	127.3	119.1
57.5°	124.0	124.0	122.9	121.3	121.8	121.8	119.6	117.4	114.1	110.8	104.2
60°	110.2	110.2	110.2	108.6	108.6	108.6	107.5	105.3	102.5	99.2	92.6
62.5°	99.2	99.2	98.7	97.0	97.6	97.6	96.5	94.3	91.5	89.3	82.7
65°	90.4	90.4	90.4	88.8	88.8	89.3	88.2	86.0	83.8	81.0	75.0
67.5°	79.4	78.8	78.8	77.7	78.3	78.8	77.7	76.1	73.3	71.7	66.2
70°	65.6	66.2	66.7	65.1	65.6	65.6	65.1	63.4	61.7	60.1	55.1
72.5°	53.5	53.5	52.9	52.4	52.4	52.9	51.8	50.2	49.1	48.0	44.1
75°	40.8	40.2	40.8	39.7	39.7	39.7	38.6	38.0	37.5	35.8	33.1
77.5°	29.8	29.2	29.2	28.1	28.7	28.7	28.1	27.0	25.9	25.4	23.1
80°	20.4	20.4	20.4	19.8	19.8	19.3	19.3	18.8	17.6	17.1	16.0
82.5°	13.8	13.8	13.8	13.2	13.2	13.2	12.7	12.1	11.6	11.0	9.9
85°	8.8	8.8	8.8	8.3	8.3	8.3	7.7	7.7	7.2	6.6	5.5
87.5°	5.0	5.0	5.0	4.4	4.4	4.4	4.4	4.4	3.9	3.3	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



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	576.6	576.6	576.6	576.6	576.6	576.6	576.6	576.6	576.6	576.6	576.6
2.5°	574.4	566.7	571.7	571.7	570.0	574.4	577.2	579.4	578.8	573.9	573.3
5°	570.0	563.4	568.9	569.5	567.8	573.9	577.7	580.5	581.0	576.6	577.2
7.5°	566.7	561.2	568.4	570.6	570.0	575.5	579.9	584.3	586.5	583.2	583.8
10°	565.0	560.6	568.4	571.7	572.2	578.3	584.9	591.0	593.7	591.5	593.2
12.5°	562.8	560.1	568.9	573.9	576.1	582.1	590.4	597.6	602.0	600.9	604.2
15°	560.6	558.4	568.9	576.1	578.8	584.3	593.7	604.2	609.2	608.6	613.0
17.5°	555.1	554.6	565.6	573.3	577.2	583.8	592.6	605.3	610.3	611.3	616.9
20°	546.3	546.3	558.4	566.7	571.1	577.2	588.2	600.3	606.4	607.5	613.6
22.5°	534.2	535.3	546.8	555.1	561.7	566.1	577.7	590.4	595.9	597.6	604.2
25°	518.2	519.3	530.3	538.6	545.8	550.7	561.7	573.3	579.9	581.6	586.5
27.5°	497.2	499.4	509.9	518.2	524.2	527.6	539.1	551.3	556.2	557.9	562.8
30°	473.0	473.5	484.0	491.2	497.2	500.0	509.9	522.6	526.5	528.1	535.3
32.5°	443.2	442.7	452.6	459.2	464.2	467.5	477.9	486.2	490.1	492.8	496.7
35°	407.4	406.8	414.0	421.7	425.6	426.7	437.2	446.0	448.2	450.4	455.4
37.5°	367.1	367.1	373.2	377.1	381.5	383.1	388.1	398.0	401.9	401.3	405.2
40°	324.7	322.5	326.9	330.8	331.9	332.4	337.4	345.1	347.8	347.8	350.6
42.5°	280.0	276.7	277.3	279.5	280.6	276.7	280.0	285.0	283.3	285.6	286.1
45°	232.6	227.7	225.5	220.5	221.6	217.7	215.5	216.6	216.1	210.6	211.7
47.5°	194.0	185.2	181.4	174.2	172.6	168.1	165.4	160.4	156.0	156.0	153.2
50°	161.5	152.7	145.0	136.7	134.0	130.1	124.0	117.4	114.1	110.8	108.1
52.5°	135.6	126.2	116.9	108.1	104.2	99.2	91.0	84.3	78.3	75.0	71.7
55°	114.7	104.2	94.3	84.9	79.9	75.0	66.7	59.0	51.8	47.4	44.7
57.5°	98.7	88.8	78.3	68.4	63.9	58.4	49.6	41.3	34.7	29.8	27.0
60°	87.1	77.2	67.8	57.3	52.9	47.4	38.0	30.3	23.7	19.3	16.0
62.5°	77.2	68.4	58.4	49.1	44.7	39.1	30.3	22.6	16.5	12.1	9.4
65°	70.0	61.2	52.9	43.6	39.7	34.2	25.9	18.8	13.2	9.4	6.6
67.5°	61.7	54.0	45.7	38.0	34.2	29.8	22.0	16.0	11.0	7.7	5.5
70°	51.8	45.7	38.6	31.4	28.7	24.8	18.2	13.2	8.8	6.1	4.4
72.5°	41.3	36.4	30.9	25.4	23.1	19.3	14.9	10.5	6.6	4.4	3.3
75°	31.4	27.6	23.1	19.3	17.1	14.9	11.0	7.7	5.0	3.3	2.2
77.5°	21.5	19.8	16.5	13.2	12.1	10.5	7.2	5.0	3.3	2.2	1.1
80°	14.9	13.2	11.0	8.8	7.7	6.6	4.4	3.3	1.7	1.1	0.6
82.5°	9.4	7.7	6.6	5.5	5.0	3.9	2.8	1.7	1.1	0.6	0.6
85°	5.0	4.4	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



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**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	576.6	576.6	576.6	576.6	576.6	576.6	576.6	576.6	576.6	576.6	576.6
2.5°	579.9	579.9	579.4	586.0	578.3	586.0	582.1	586.0	580.5	579.9	580.5
5°	584.3	586.0	586.5	592.6	585.4	594.8	591.5	594.8	591.0	592.1	593.7
7.5°	593.2	595.9	595.4	603.1	595.9	606.4	604.2	609.2	605.3	606.4	608.6
10°	603.1	606.4	606.9	614.7	608.0	620.7	618.0	623.5	620.2	621.8	624.6
12.5°	614.7	618.5	619.1	627.9	620.7	634.0	632.3	637.8	635.1	636.7	640.0
15°	623.5	629.0	630.1	638.9	631.2	645.0	643.9	651.0	646.6	649.4	652.1
17.5°	627.9	632.9	635.1	643.3	636.7	650.5	649.4	655.5	652.1	654.9	658.2
20°	625.1	631.2	632.9	641.1	634.5	648.3	646.6	652.7	649.4	651.6	654.9
22.5°	615.2	621.3	623.5	631.2	625.1	637.8	637.3	642.8	638.4	641.1	643.9
25°	597.6	604.2	605.3	612.4	605.8	619.1	618.0	624.0	620.7	622.4	626.2
27.5°	572.2	579.9	581.6	587.6	582.7	593.7	593.7	598.7	594.8	594.8	598.7
30°	541.9	549.6	550.7	555.7	551.3	561.2	561.7	566.7	560.6	563.9	564.5
32.5°	505.0	509.9	513.2	517.6	511.0	523.7	522.0	525.9	522.6	522.6	525.4
35°	460.3	466.4	468.0	473.5	468.0	477.9	477.9	480.2	476.8	476.8	481.3
37.5°	411.8	416.2	416.8	422.3	417.8	426.1	425.6	427.2	423.9	426.1	426.1
40°	355.0	358.3	359.4	362.2	361.6	367.7	367.1	368.2	366.6	367.1	368.2
42.5°	288.9	293.3	295.5	297.7	294.4	302.6	301.0	302.6	302.1	302.6	304.3
45°	212.8	216.1	217.7	218.3	217.2	222.2	226.0	222.7	223.3	222.2	224.4
47.5°	153.8	154.4	153.2	156.6	153.8	156.0	157.1	157.7	154.4	153.8	156.0
50°	105.3	108.1	104.2	105.8	105.3	107.5	106.4	107.0	103.6	105.3	104.2
52.5°	70.0	69.5	68.4	68.9	67.8	67.8	67.8	68.9	66.7	65.6	64.5
55°	42.5	41.3	39.1	38.6	38.6	39.1	38.0	36.9	36.9	36.4	36.4
57.5°	24.8	23.1	22.0	21.5	20.4	19.8	19.3	19.3	18.2	18.2	18.2
60°	13.8	12.1	11.0	9.9	9.9	9.4	8.8	8.3	8.3	8.3	7.7
62.5°	7.2	6.1	5.0	4.4	4.4	3.9	3.3	3.3	3.3	3.3	2.8
65°	5.0	3.9	3.3	2.8	2.8	2.2	2.2	2.2	2.2	2.2	2.2
67.5°	3.9	3.3	2.8	2.2	2.2	2.2	1.7	1.7	1.7	1.7	1.7
70°	3.3	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: P684734

CATALOG NUMBER: LX6C10D010 EX6109030 6LCSWLI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	576.6	576.6	576.6	576.6	576.6	576.6	576.6	576.6
2.5°	585.4	584.9	585.4	586.5	584.3	591.0	587.6	591.0
5°	598.1	598.7	599.2	600.9	598.1	606.4	602.0	606.9
7.5°	614.7	615.2	615.8	617.4	615.8	624.0	619.1	623.5
10°	631.8	632.9	632.9	635.6	634.0	641.7	638.4	643.9
12.5°	647.7	648.8	649.9	651.6	650.5	658.8	656.0	660.4
15°	660.4	662.6	663.2	665.4	664.3	673.1	669.8	674.2
17.5°	666.5	668.7	668.7	671.4	670.3	679.7	675.3	680.3
20°	663.2	664.8	665.4	668.1	667.0	676.4	672.0	678.0
22.5°	652.7	653.2	653.8	656.6	656.0	664.3	660.4	664.3
25°	633.4	635.1	634.5	636.7	636.7	643.3	638.9	642.2
27.5°	605.8	607.5	607.5	610.3	608.0	614.7	610.3	615.2
30°	572.2	573.9	572.8	575.0	572.8	579.4	576.1	577.7
32.5°	532.0	532.0	532.5	533.1	532.0	538.0	534.7	538.0
35°	484.0	485.1	485.7	486.2	485.1	489.5	485.7	487.9
37.5°	430.0	432.7	432.2	432.7	431.1	436.6	433.3	434.4
40°	372.1	372.1	371.5	372.7	371.0	375.4	373.2	374.3
42.5°	304.8	306.5	304.3	307.1	302.6	308.7	306.5	304.8
45°	228.8	226.6	226.0	226.6	224.9	225.5	227.1	226.0
47.5°	156.0	156.0	154.9	153.2	155.5	156.0	153.8	153.8
50°	104.7	104.7	103.6	103.1	104.2	103.6	102.5	104.2
52.5°	66.7	64.5	64.5	65.6	64.5	63.4	65.1	63.9
55°	36.4	35.3	35.3	36.4	35.3	35.3	34.7	35.8
57.5°	17.6	18.2	17.6	17.6	17.6	17.6	17.1	17.6
60°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
62.5°	3.3	3.3	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



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















(END OF REPORT)