

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: P683938

Luminaire Tested: **LX6C10D010 EX6C109727 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: P683938  
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 EX6C109727 6LCSWH  
Description: 6 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 97CRI LEDS  
AND 6LCSW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

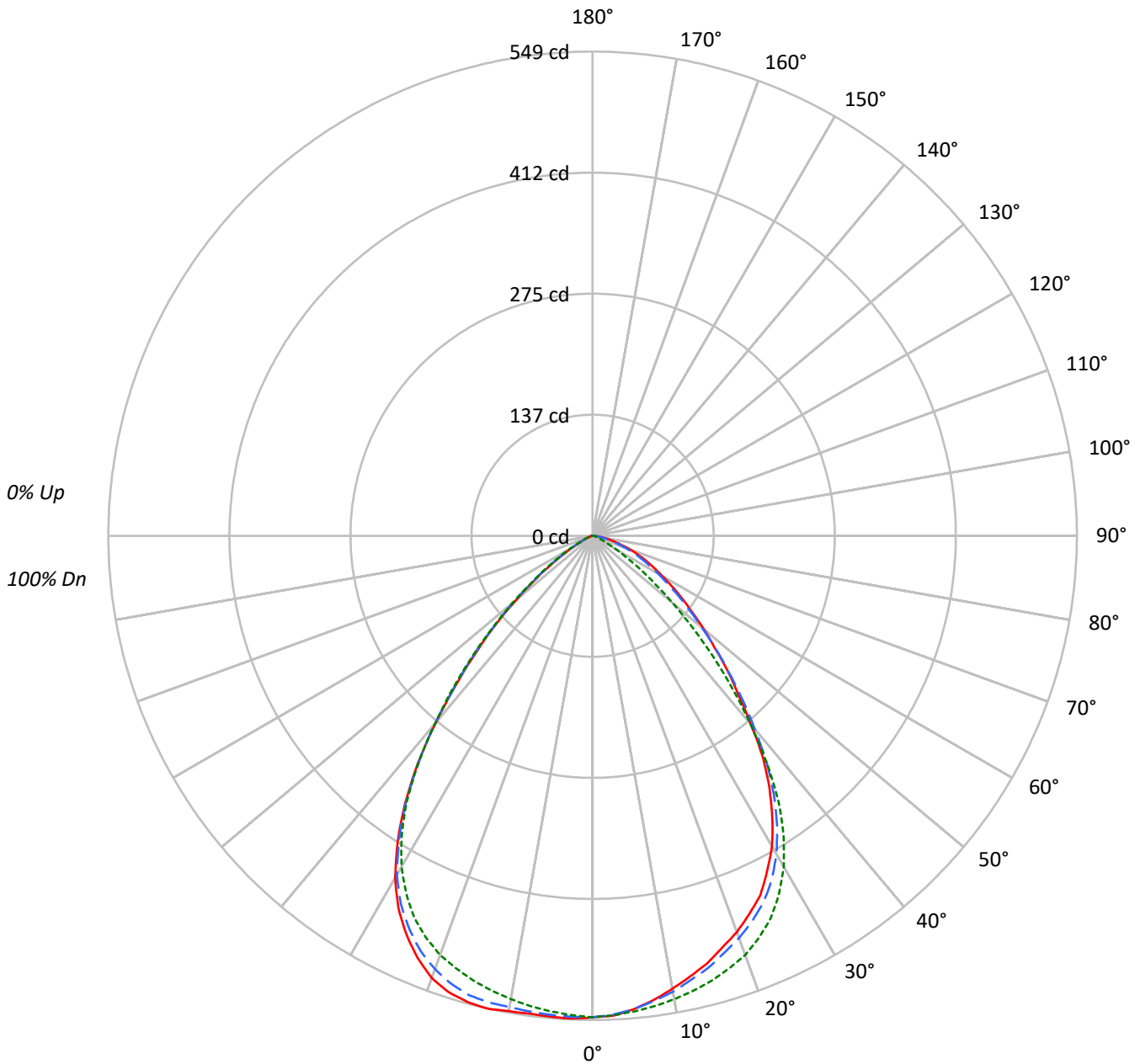
Lumens per Lamp: N/A  
Luminaire Lumens: 916.0 lumens  
Efficiency: N/A  
Efficacy: 93.5 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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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### 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°	29932	29932	29932
5°	29644	29793	30118
10°	29035	29698	30466
15°	28479	29637	31061
20°	27892	29508	31124
25°	27201	28919	30195
30°	25757	27422	28340
35°	23390	24581	24802
40°	19959	19866	19773
45°	16769	14878	14420
50°	14004	10064	9560
55°	11785	6174	5610
60°	9977	3256	2818
65°	8639	1712	1362
70°	7181	1058	737
75°	5316	699	424
80°	4167	410	221
85°	3334	440	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.5	5.6
10°-20°	147.3	16.1
20°-30°	217.6	23.8
30°-40°	224.2	24.5
40°-50°	154.9	16.9
50°-60°	76.3	8.3
60°-70°	30.9	3.4
70°-80°	11.0	1.2
80°-90°	2.3	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°	416.3	45.5
0°-40°	640.6	69.9
0°-60°	871.8	95.2
0°-90°	916.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	916.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	546	546	546	546	546	
5°	539	539	541	545	547	51
15°	502	507	522	539	547	141
25°	450	458	478	492	499	206
35°	350	358	367	369	371	217
45°	216	218	192	189	186	167
55°	123	119	65	61	59	111
65°	67	60	13	10	10	66
75°	25	21	3	2	2	28
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°	546.0	546.0	546.0	546.0	546.0	546.0	546.0	546.0	546.0	546.0	546.0
2.5°	544.7	542.7	544.0	541.4	544.7	541.4	542.0	542.7	542.0	542.7	543.3
5°	538.7	536.8	538.7	535.4	538.7	536.8	536.8	537.4	537.4	538.1	538.7
7.5°	530.8	528.8	530.8	527.5	531.5	529.5	529.5	530.8	530.2	530.8	532.1
10°	521.6	518.9	520.9	518.9	522.9	520.3	521.6	521.6	521.6	523.6	524.9
12.5°	511.7	509.1	511.7	508.4	512.4	510.4	511.0	513.0	513.7	515.0	515.7
15°	501.8	498.5	499.8	497.8	501.8	499.8	500.5	503.1	503.1	505.1	507.1
17.5°	489.3	486.6	489.3	486.6	489.9	488.6	489.9	491.9	491.9	493.9	495.9
20°	478.1	475.4	477.4	475.4	479.4	477.4	478.1	480.7	481.4	483.3	485.3
22.5°	464.2	462.2	463.6	461.6	465.5	464.2	464.9	467.5	468.2	469.5	472.8
25°	449.7	445.7	447.7	446.4	450.4	448.4	449.7	452.3	453.7	455.6	458.3
27.5°	428.6	426.6	427.9	427.9	431.2	429.3	429.9	432.6	434.5	436.5	439.8
30°	406.9	403.6	404.9	405.5	408.2	406.9	408.2	410.8	411.5	414.1	416.7
32.5°	379.2	377.8	380.5	379.2	380.5	380.5	381.1	383.1	384.4	385.8	389.1
35°	349.5	346.9	349.5	348.2	351.5	349.5	351.5	353.5	353.5	356.1	358.1
37.5°	317.2	313.9	315.2	315.2	316.5	315.9	315.9	319.2	319.8	321.8	323.8
40°	278.9	277.6	280.3	279.6	280.3	280.3	280.9	282.9	284.2	284.9	285.5
42.5°	244.6	245.3	246.0	246.0	246.0	246.0	246.0	248.6	247.9	249.9	250.6
45°	216.3	213.6	215.0	214.3	216.3	214.3	216.3	218.3	216.9	218.9	217.6
47.5°	187.3	187.3	187.3	186.6	187.9	187.3	188.6	189.2	189.2	189.2	188.6
50°	164.2	162.2	162.9	162.9	163.5	162.9	164.2	164.8	164.8	163.5	160.9
52.5°	141.8	141.1	141.1	142.4	142.4	141.8	141.8	141.8	141.8	139.8	138.5
55°	123.3	122.0	122.6	122.6	122.6	122.6	123.3	122.6	122.6	120.7	118.7
57.5°	106.8	105.5	105.5	105.5	106.2	105.5	105.5	105.5	104.8	102.9	100.2
60°	91.0	90.3	91.0	91.0	91.6	91.0	91.0	91.0	89.7	87.7	85.1
62.5°	77.8	77.8	77.8	78.5	78.5	77.8	77.8	77.1	76.5	73.8	71.2
65°	66.6	65.9	66.6	66.6	67.2	67.2	66.6	65.9	65.3	62.6	60.0
67.5°	55.4	54.7	55.4	55.4	56.0	55.4	55.4	55.4	53.4	52.1	49.4
70°	44.8	44.2	44.2	44.2	44.8	43.5	44.2	44.2	42.9	40.9	38.2
72.5°	34.3	34.3	34.3	34.3	34.3	34.3	33.6	33.6	32.3	30.3	29.0
75°	25.1	25.1	25.7	25.7	25.1	25.1	25.1	24.4	23.7	22.4	21.1
77.5°	18.5	18.5	18.5	18.5	17.8	17.8	17.8	17.1	16.5	15.8	14.5
80°	13.2	13.2	13.2	12.5	13.2	12.5	12.5	12.5	11.2	10.5	9.9
82.5°	9.2	8.6	8.6	8.6	8.6	8.6	8.6	7.9	7.9	7.3	6.6
85°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	4.6	4.0	4.0
87.5°	2.6	3.3	3.3	3.3	3.3	3.3	3.3	2.6	2.6	2.6	2.0
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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	546.0	546.0	546.0	546.0	546.0	546.0	546.0	546.0	546.0	546.0	546.0
2.5°	543.3	543.3	544.7	542.7	546.0	544.0	543.3	546.6	544.7	544.0	545.3
5°	538.7	539.4	540.1	538.7	542.0	540.1	540.1	543.3	542.0	541.4	543.3
7.5°	532.8	533.5	534.8	534.1	536.8	535.4	536.1	539.4	538.1	538.1	540.1
10°	525.5	526.9	528.2	528.2	531.5	530.2	530.2	534.1	532.8	533.5	536.1
12.5°	517.0	518.9	520.9	521.6	524.9	522.9	523.6	528.2	527.5	528.2	530.8
15°	507.7	510.4	512.4	512.4	516.3	514.3	516.3	520.9	519.6	522.2	525.5
17.5°	497.2	499.8	502.5	503.1	507.1	505.8	508.4	513.0	513.0	514.3	518.3
20°	487.3	490.6	491.9	493.9	497.8	497.2	498.5	503.8	503.8	505.8	509.7
22.5°	474.1	477.4	480.0	482.0	485.3	485.3	487.3	491.9	491.9	493.2	497.2
25°	459.6	463.6	465.5	467.5	470.8	470.1	472.1	476.1	476.7	478.1	482.0
27.5°	441.1	444.4	447.1	448.4	453.0	450.4	452.3	457.0	456.3	457.6	460.9
30°	418.1	421.4	424.0	424.0	427.9	427.9	429.9	431.9	431.9	433.2	435.9
32.5°	391.0	395.0	395.0	397.0	399.6	397.0	399.6	402.2	400.9	402.9	404.9
35°	360.0	362.0	362.7	362.7	364.7	364.0	363.3	365.3	364.0	367.3	369.3
37.5°	322.5	325.1	323.8	325.1	324.4	322.5	322.5	325.8	323.1	323.8	325.8
40°	286.2	286.2	285.5	282.2	282.9	280.9	280.3	280.9	278.3	277.6	280.3
42.5°	248.6	247.9	246.0	241.3	242.0	238.7	236.1	236.1	234.8	234.1	234.8
45°	215.0	213.0	209.7	204.4	203.1	200.5	195.2	193.9	191.9	191.9	192.5
47.5°	184.0	181.3	176.1	170.1	166.8	163.5	158.3	156.3	153.0	151.7	153.0
50°	158.3	153.6	147.0	138.5	135.2	131.2	125.9	122.6	119.3	118.0	117.4
52.5°	134.5	127.9	121.3	110.8	108.1	104.2	96.9	93.6	90.3	87.7	87.7
55°	114.1	108.1	98.9	89.0	85.1	81.1	73.8	69.2	65.9	64.6	63.3
57.5°	95.6	89.0	80.4	69.9	65.9	62.0	54.7	50.1	46.8	44.8	43.5
60°	80.4	73.2	64.6	55.4	50.8	46.8	39.6	34.9	31.6	29.7	28.3
62.5°	65.9	60.0	51.4	42.9	38.9	34.9	29.0	24.4	21.1	19.8	17.8
65°	55.4	49.4	41.5	34.3	31.0	27.0	21.8	17.8	15.2	13.2	11.9
67.5°	44.8	40.2	33.6	27.0	23.7	21.1	16.5	13.2	10.5	9.2	8.6
70°	35.6	31.0	25.7	20.4	18.5	15.8	12.5	9.2	7.9	6.6	5.9
72.5°	26.4	23.1	19.1	15.2	13.2	11.9	8.6	7.3	5.3	4.6	4.0
75°	19.1	16.5	13.8	10.5	9.2	8.6	6.6	4.6	4.0	3.3	2.6
77.5°	13.2	11.9	9.2	7.3	6.6	5.9	4.6	3.3	2.6	2.0	2.0
80°	8.6	7.3	5.9	4.6	4.6	4.0	2.6	2.0	2.0	1.3	1.3
82.5°	5.3	4.6	4.0	3.3	2.6	2.6	2.0	1.3	1.3	0.7	0.7
85°	3.3	2.6	2.0	2.0	1.3	1.3	1.3	0.7	0.7	0.7	0.7
87.5°	1.3	1.3	1.3	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°	546.0	546.0	546.0	546.0	546.0	546.0	546.0	546.0	546.0	546.0	546.0
2.5°	545.3	545.3	546.6	544.7	546.0	546.0	547.3	544.7	546.0	546.6	548.0
5°	542.7	543.3	544.7	544.0	544.7	544.7	546.0	542.7	545.3	545.3	547.3
7.5°	540.1	540.1	541.4	540.7	542.0	542.7	544.0	541.4	544.0	544.0	546.0
10°	536.8	536.8	538.7	538.1	540.1	540.7	542.7	540.1	542.7	543.3	545.3
12.5°	532.1	532.8	534.8	534.8	536.8	538.1	540.1	538.7	542.0	542.7	545.3
15°	526.9	528.2	530.8	530.2	532.1	534.1	536.8	534.8	539.4	540.7	543.3
17.5°	520.3	521.6	523.6	523.6	525.5	526.9	530.2	528.8	532.8	533.5	536.8
20°	510.4	512.4	515.0	514.3	516.3	517.6	520.3	518.9	522.9	524.2	527.5
22.5°	498.5	499.8	501.8	501.8	503.8	505.1	507.7	505.8	509.7	510.4	513.0
25°	482.7	484.0	485.3	486.0	488.0	488.6	489.9	488.6	491.9	492.6	495.9
27.5°	462.2	462.9	464.9	464.9	466.2	466.9	468.8	466.2	470.8	470.8	472.8
30°	437.8	437.2	439.8	438.5	439.8	439.8	441.8	440.5	443.8	442.5	444.4
32.5°	405.5	406.9	406.9	405.5	408.2	407.5	407.5	406.2	408.2	408.8	410.1
35°	368.0	369.9	369.9	370.6	371.3	369.3	369.9	366.0	369.3	369.9	370.6
37.5°	327.1	325.1	326.4	324.4	327.7	323.8	323.8	321.1	323.8	323.8	324.4
40°	280.3	279.6	280.9	279.6	278.9	278.3	277.0	275.0	277.6	276.3	278.3
42.5°	236.1	235.4	235.4	234.1	233.4	233.4	232.1	230.8	230.1	230.1	233.4
45°	190.6	191.9	190.6	189.9	191.2	189.9	190.6	187.9	189.2	187.9	189.2
47.5°	152.3	153.0	151.7	150.3	152.3	150.3	150.3	148.4	151.0	151.0	149.7
50°	118.0	117.4	116.0	117.4	116.7	116.7	116.7	114.7	116.0	114.1	115.4
52.5°	87.0	86.4	86.4	85.7	86.4	85.7	85.7	85.1	85.1	84.4	85.1
55°	63.3	62.6	61.3	61.3	61.3	62.0	61.3	60.7	60.7	60.0	60.7
57.5°	42.9	41.5	41.5	41.5	41.5	40.9	40.9	40.2	40.9	40.2	40.9
60°	27.7	27.7	26.4	26.4	26.4	26.4	26.4	25.7	26.4	26.4	26.4
62.5°	17.1	17.1	16.5	15.8	16.5	15.8	15.8	15.8	16.5	15.8	16.5
65°	11.2	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
67.5°	7.9	7.3	7.3	7.3	7.3	7.3	7.3	6.6	7.3	7.3	7.3
70°	5.3	5.3	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
72.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
75°	2.6	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
77.5°	2.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
80°	1.3	1.3	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: P683938

CATALOG NUMBER: LX6C10D010 EX6C109727 6LCSWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	546.0	546.0	546.0	546.0	546.0	546.0	546.0	546.0
2.5°	546.0	546.6	545.3	546.0	544.7	546.0	546.6	548.0
5°	544.7	545.3	544.0	545.3	544.0	545.3	546.0	547.3
7.5°	543.3	544.7	543.3	544.7	543.3	544.7	545.3	546.6
10°	543.3	545.3	544.0	546.0	544.0	545.3	546.6	547.3
12.5°	543.3	545.3	544.7	546.0	545.3	546.6	548.0	549.3
15°	542.0	544.0	542.7	544.7	544.0	544.7	547.3	547.3
17.5°	534.8	536.8	536.8	538.1	538.1	540.1	541.4	542.7
20°	525.5	527.5	526.9	528.8	528.8	530.8	532.1	533.5
22.5°	511.7	514.3	513.7	515.7	515.0	516.3	518.9	518.3
25°	493.9	497.2	496.5	497.8	497.2	497.2	498.5	499.2
27.5°	472.1	474.1	473.4	474.8	473.4	474.8	476.1	476.7
30°	443.8	445.1	444.4	445.1	444.4	445.7	446.4	447.7
32.5°	409.5	411.5	409.5	410.8	410.1	410.1	412.8	411.5
35°	368.6	369.3	369.9	369.9	368.6	369.3	370.6	370.6
37.5°	323.1	326.4	322.5	324.4	323.8	323.8	323.8	325.8
40°	275.6	276.3	275.0	275.0	275.0	274.3	277.0	276.3
42.5°	230.8	231.5	230.8	228.8	229.5	229.5	231.5	228.8
45°	187.3	188.6	187.9	187.9	186.6	186.6	187.3	186.0
47.5°	148.4	149.7	147.7	148.4	147.0	148.4	147.7	149.0
50°	112.8	114.1	113.4	114.1	114.1	112.8	114.7	112.1
52.5°	84.4	85.1	84.4	83.7	83.1	83.1	84.4	83.7
55°	60.0	59.3	59.3	59.3	60.0	60.0	59.3	58.7
57.5°	40.2	40.2	39.6	39.6	40.2	38.9	39.6	38.9
60°	25.7	25.7	25.7	25.7	25.1	25.7	25.7	25.7
62.5°	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8
65°	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
67.5°	6.6	7.3	7.3	7.3	6.6	6.6	6.6	6.6
70°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
72.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
75°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
77.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
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)