

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: P684635

Luminaire Tested: **LX6C08D010 EX6C089727 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: P684635  
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 EX6C089727 6LCSWH  
Description: 6 INCH 800 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**

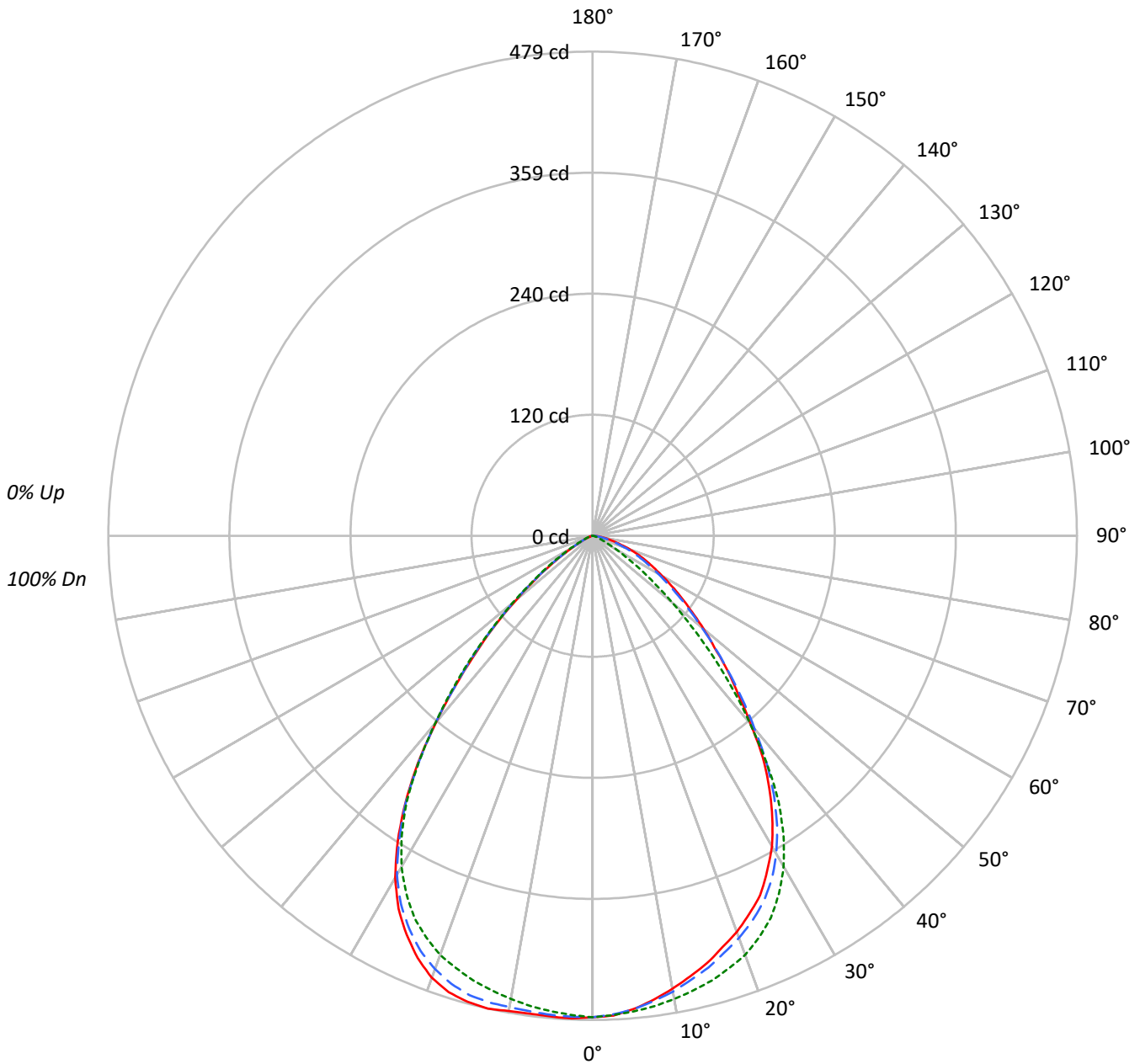
Lumens per Lamp: N/A  
Luminaire Lumens: 799.0 lumens  
Efficiency: N/A  
Efficacy: 80.7 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.9  
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									
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°	26111	26111	26111
5°	25858	25985	26271
10°	25328	25901	26575
15°	24841	25851	27094
20°	24327	25739	27145
25°	23729	25223	26336
30°	22465	23921	24719
35°	20398	21442	21636
40°	17411	17325	17247
45°	14629	12978	12575
50°	12213	8784	8341
55°	10284	5390	4893
60°	8705	2840	2456
65°	7536	1492	1193
70°	6267	930	641
75°	4639	614	360
80°	3631	347	189
85°	2893	377	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.9	5.6
10°-20°	128.5	16.1
20°-30°	189.8	23.8
30°-40°	195.6	24.5
40°-50°	135.1	16.9
50°-60°	66.6	8.3
60°-70°	27.0	3.4
70°-80°	9.6	1.2
80°-90°	2.0	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°	363.2	45.5
0°-40°	558.8	69.9
0°-60°	760.4	95.2
0°-90°	799.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	799.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	476	476	476	476	476	
5°	470	470	472	476	477	44
15°	438	442	456	470	477	123
25°	392	400	417	429	435	179
35°	305	312	320	322	323	189
45°	189	190	167	165	162	146
55°	108	104	56	53	51	97
65°	58	52	12	9	9	58
75°	22	18	3	2	2	25
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°	476.3	476.3	476.3	476.3	476.3	476.3	476.3	476.3	476.3	476.3	476.3
2.5°	475.1	473.4	474.5	472.2	475.1	472.2	472.8	473.4	472.8	473.4	473.9
5°	469.9	468.2	469.9	467.0	469.9	468.2	468.2	468.8	468.8	469.3	469.9
7.5°	463.0	461.3	463.0	460.1	463.6	461.9	461.9	463.0	462.4	463.0	464.2
10°	455.0	452.7	454.4	452.7	456.1	453.8	455.0	455.0	455.0	456.7	457.9
12.5°	446.3	444.0	446.3	443.5	446.9	445.2	445.8	447.5	448.1	449.2	449.8
15°	437.7	434.8	436.0	434.3	437.7	436.0	436.6	438.9	438.9	440.6	442.3
17.5°	426.8	424.5	426.8	424.5	427.4	426.2	427.4	429.1	429.1	430.8	432.5
20°	417.0	414.7	416.4	414.7	418.2	416.4	417.0	419.3	419.9	421.6	423.3
22.5°	404.9	403.2	404.3	402.6	406.1	404.9	405.5	407.8	408.4	409.5	412.4
25°	392.3	388.8	390.5	389.4	392.9	391.1	392.3	394.6	395.7	397.4	399.8
27.5°	373.9	372.1	373.3	373.3	376.2	374.5	375.0	377.3	379.0	380.8	383.6
30°	354.9	352.0	353.2	353.7	356.0	354.9	356.0	358.3	358.9	361.2	363.5
32.5°	330.7	329.6	331.9	330.7	331.9	331.9	332.4	334.2	335.3	336.5	339.4
35°	304.8	302.6	304.8	303.7	306.6	304.8	306.6	308.3	308.3	310.6	312.3
37.5°	276.7	273.8	274.9	274.9	276.1	275.5	275.5	278.4	279.0	280.7	282.4
40°	243.3	242.1	244.5	243.9	244.5	244.5	245.0	246.8	247.9	248.5	249.1
42.5°	213.4	214.0	214.5	214.5	214.5	214.5	214.5	216.8	216.3	218.0	218.6
45°	188.7	186.4	187.5	186.9	188.7	186.9	188.7	190.4	189.2	191.0	189.8
47.5°	163.3	163.3	163.3	162.8	163.9	163.3	164.5	165.1	165.1	165.1	164.5
50°	143.2	141.5	142.1	142.1	142.6	142.1	143.2	143.8	143.8	142.6	140.4
52.5°	123.7	123.1	123.1	124.2	124.2	123.7	123.7	123.7	123.7	121.9	120.8
55°	107.6	106.4	107.0	107.0	107.0	107.0	107.6	107.0	107.0	105.2	103.5
57.5°	93.2	92.0	92.0	92.0	92.6	92.0	92.0	92.0	91.4	89.7	87.4
60°	79.4	78.8	79.4	79.4	79.9	79.4	79.4	79.4	78.2	76.5	74.2
62.5°	67.9	67.9	67.9	68.4	68.4	67.9	67.9	67.3	66.7	64.4	62.1
65°	58.1	57.5	58.1	58.1	58.7	58.7	58.1	57.5	57.0	54.6	52.3
67.5°	48.3	47.7	48.3	48.3	48.9	48.3	48.3	48.3	46.6	45.4	43.1
70°	39.1	38.5	38.5	38.5	39.1	38.0	38.5	38.5	37.4	35.7	33.4
72.5°	29.9	29.9	29.9	29.9	29.9	29.9	29.3	29.3	28.2	26.5	25.3
75°	21.9	21.9	22.4	22.4	21.9	21.9	21.9	21.3	20.7	19.6	18.4
77.5°	16.1	16.1	16.1	16.1	15.5	15.5	15.5	14.9	14.4	13.8	12.7
80°	11.5	11.5	11.5	10.9	11.5	10.9	10.9	10.9	9.8	9.2	8.6
82.5°	8.0	7.5	7.5	7.5	7.5	7.5	7.5	6.9	6.9	6.3	5.8
85°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.0	3.5	3.5
87.5°	2.3	2.9	2.9	2.9	2.9	2.9	2.9	2.3	2.3	2.3	1.7
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°	476.3	476.3	476.3	476.3	476.3	476.3	476.3	476.3	476.3	476.3	476.3
2.5°	473.9	473.9	475.1	473.4	476.3	474.5	473.9	476.8	475.1	474.5	475.7
5°	469.9	470.5	471.1	469.9	472.8	471.1	471.1	473.9	472.8	472.2	473.9
7.5°	464.8	465.3	466.5	465.9	468.2	467.0	467.6	470.5	469.3	469.3	471.1
10°	458.4	459.6	460.7	460.7	463.6	462.4	462.4	465.9	464.8	465.3	467.6
12.5°	450.9	452.7	454.4	455.0	457.9	456.1	456.7	460.7	460.1	460.7	463.0
15°	442.9	445.2	446.9	446.9	450.4	448.6	450.4	454.4	453.2	455.5	458.4
17.5°	433.7	436.0	438.3	438.9	442.3	441.2	443.5	447.5	447.5	448.6	452.1
20°	425.1	427.9	429.1	430.8	434.3	433.7	434.8	439.4	439.4	441.2	444.6
22.5°	413.6	416.4	418.7	420.5	423.3	423.3	425.1	429.1	429.1	430.2	433.7
25°	400.9	404.3	406.1	407.8	410.7	410.1	411.8	415.3	415.9	417.0	420.5
27.5°	384.8	387.7	390.0	391.1	395.2	392.9	394.6	398.6	398.0	399.2	402.1
30°	364.7	367.6	369.8	369.8	373.3	373.3	375.0	376.7	376.7	377.9	380.2
32.5°	341.1	344.5	344.5	346.3	348.6	346.3	348.6	350.9	349.7	351.4	353.2
35°	314.0	315.8	316.4	316.4	318.1	317.5	316.9	318.6	317.5	320.4	322.1
37.5°	281.3	283.6	282.4	283.6	283.0	281.3	281.3	284.1	281.8	282.4	284.1
40°	249.6	249.6	249.1	246.2	246.8	245.0	244.5	245.0	242.7	242.1	244.5
42.5°	216.8	216.3	214.5	210.5	211.1	208.2	205.9	205.9	204.8	204.2	204.8
45°	187.5	185.8	182.9	178.3	177.1	174.9	170.2	169.1	167.4	167.4	168.0
47.5°	160.5	158.2	153.6	148.4	145.5	142.6	138.0	136.3	133.4	132.3	133.4
50°	138.0	134.0	128.3	120.8	117.9	114.5	109.9	107.0	104.1	103.0	102.4
52.5°	117.3	111.6	105.8	96.6	94.3	90.9	84.6	81.7	78.8	76.5	76.5
55°	99.5	94.3	86.3	77.7	74.2	70.8	64.4	60.4	57.5	56.4	55.2
57.5°	83.4	77.7	70.2	61.0	57.5	54.1	47.7	43.7	40.8	39.1	38.0
60°	70.2	63.9	56.4	48.3	44.3	40.8	34.5	30.5	27.6	25.9	24.7
62.5°	57.5	52.3	44.9	37.4	33.9	30.5	25.3	21.3	18.4	17.3	15.5
65°	48.3	43.1	36.2	29.9	27.0	23.6	19.0	15.5	13.2	11.5	10.4
67.5°	39.1	35.1	29.3	23.6	20.7	18.4	14.4	11.5	9.2	8.0	7.5
70°	31.1	27.0	22.4	17.8	16.1	13.8	10.9	8.0	6.9	5.8	5.2
72.5°	23.0	20.1	16.7	13.2	11.5	10.4	7.5	6.3	4.6	4.0	3.5
75°	16.7	14.4	12.1	9.2	8.0	7.5	5.8	4.0	3.5	2.9	2.3
77.5°	11.5	10.4	8.0	6.3	5.8	5.2	4.0	2.9	2.3	1.7	1.7
80°	7.5	6.3	5.2	4.0	4.0	3.5	2.3	1.7	1.7	1.1	1.1
82.5°	4.6	4.0	3.5	2.9	2.3	2.3	1.7	1.1	1.1	0.6	0.6
85°	2.9	2.3	1.7	1.7	1.1	1.1	1.1	0.6	0.6	0.6	0.6
87.5°	1.1	1.1	1.1	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°	476.3	476.3	476.3	476.3	476.3	476.3	476.3	476.3	476.3	476.3	476.3
2.5°	475.7	475.7	476.8	475.1	476.3	476.3	477.4	475.1	476.3	476.8	478.0
5°	473.4	473.9	475.1	474.5	475.1	475.1	476.3	473.4	475.7	475.7	477.4
7.5°	471.1	471.1	472.2	471.7	472.8	473.4	474.5	472.2	474.5	474.5	476.3
10°	468.2	468.2	469.9	469.3	471.1	471.7	473.4	471.1	473.4	473.9	475.7
12.5°	464.2	464.8	466.5	466.5	468.2	469.3	471.1	469.9	472.8	473.4	475.7
15°	459.6	460.7	463.0	462.4	464.2	465.9	468.2	466.5	470.5	471.7	473.9
17.5°	453.8	455.0	456.7	456.7	458.4	459.6	462.4	461.3	464.8	465.3	468.2
20°	445.2	446.9	449.2	448.6	450.4	451.5	453.8	452.7	456.1	457.3	460.1
22.5°	434.8	436.0	437.7	437.7	439.4	440.6	442.9	441.2	444.6	445.2	447.5
25°	421.0	422.2	423.3	423.9	425.6	426.2	427.4	426.2	429.1	429.7	432.5
27.5°	403.2	403.8	405.5	405.5	406.7	407.2	409.0	406.7	410.7	410.7	412.4
30°	381.9	381.4	383.6	382.5	383.6	383.6	385.4	384.2	387.1	386.0	387.7
32.5°	353.7	354.9	354.9	353.7	356.0	355.5	355.5	354.3	356.0	356.6	357.8
35°	321.0	322.7	322.7	323.3	323.8	322.1	322.7	319.2	322.1	322.7	323.3
37.5°	285.3	283.6	284.7	283.0	285.9	282.4	282.4	280.1	282.4	282.4	283.0
40°	244.5	243.9	245.0	243.9	243.3	242.7	241.6	239.9	242.1	241.0	242.7
42.5°	205.9	205.3	205.3	204.2	203.6	203.6	202.5	201.3	200.7	200.7	203.6
45°	166.2	167.4	166.2	165.7	166.8	165.7	166.2	163.9	165.1	163.9	165.1
47.5°	132.9	133.4	132.3	131.1	132.9	131.1	131.1	129.4	131.7	131.7	130.6
50°	103.0	102.4	101.2	102.4	101.8	101.8	101.8	100.1	101.2	99.5	100.7
52.5°	75.9	75.4	75.4	74.8	75.4	74.8	74.8	74.2	74.2	73.6	74.2
55°	55.2	54.6	53.5	53.5	53.5	54.1	53.5	52.9	52.9	52.3	52.9
57.5°	37.4	36.2	36.2	36.2	36.2	35.7	35.7	35.1	35.7	35.1	35.7
60°	24.2	24.2	23.0	23.0	23.0	23.0	23.0	22.4	23.0	23.0	23.0
62.5°	14.9	14.9	14.4	13.8	14.4	13.8	13.8	13.8	14.4	13.8	14.4
65°	9.8	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
67.5°	6.9	6.3	6.3	6.3	6.3	6.3	6.3	5.8	6.3	6.3	6.3
70°	4.6	4.6	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
72.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
75°	2.3	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
77.5°	1.7	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
80°	1.1	1.1	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





TEST NUMBER: P684635

CATALOG NUMBER: LX6C08D010 EX6C089727 6LCSWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	476.3	476.3	476.3	476.3	476.3	476.3	476.3	476.3
2.5°	476.3	476.8	475.7	476.3	475.1	476.3	476.8	478.0
5°	475.1	475.7	474.5	475.7	474.5	475.7	476.3	477.4
7.5°	473.9	475.1	473.9	475.1	473.9	475.1	475.7	476.8
10°	473.9	475.7	474.5	476.3	474.5	475.7	476.8	477.4
12.5°	473.9	475.7	475.1	476.3	475.7	476.8	478.0	479.1
15°	472.8	474.5	473.4	475.1	474.5	475.1	477.4	477.4
17.5°	466.5	468.2	468.2	469.3	469.3	471.1	472.2	473.4
20°	458.4	460.1	459.6	461.3	461.3	463.0	464.2	465.3
22.5°	446.3	448.6	448.1	449.8	449.2	450.4	452.7	452.1
25°	430.8	433.7	433.1	434.3	433.7	433.7	434.8	435.4
27.5°	411.8	413.6	413.0	414.1	413.0	414.1	415.3	415.9
30°	387.1	388.3	387.7	388.3	387.7	388.8	389.4	390.5
32.5°	357.2	358.9	357.2	358.3	357.8	357.8	360.1	358.9
35°	321.5	322.1	322.7	322.7	321.5	322.1	323.3	323.3
37.5°	281.8	284.7	281.3	283.0	282.4	282.4	282.4	284.1
40°	240.4	241.0	239.9	239.9	239.9	239.3	241.6	241.0
42.5°	201.3	201.9	201.3	199.6	200.2	200.2	201.9	199.6
45°	163.3	164.5	163.9	163.9	162.8	162.8	163.3	162.2
47.5°	129.4	130.6	128.8	129.4	128.3	129.4	128.8	130.0
50°	98.3	99.5	98.9	99.5	99.5	98.3	100.1	97.8
52.5°	73.6	74.2	73.6	73.0	72.5	72.5	73.6	73.0
55°	52.3	51.8	51.8	51.8	52.3	52.3	51.8	51.2
57.5°	35.1	35.1	34.5	34.5	35.1	33.9	34.5	33.9
60°	22.4	22.4	22.4	22.4	21.9	22.4	22.4	22.4
62.5°	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8
65°	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
67.5°	5.8	6.3	6.3	6.3	5.8	5.8	5.8	5.8
70°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
72.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
75°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
77.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
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)