

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: P683919

Luminaire Tested: **LX6C10D010 EX6C109040 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: P683919  
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 EX6C109040 6LCSWH  
Description: 6 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 6LCSW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

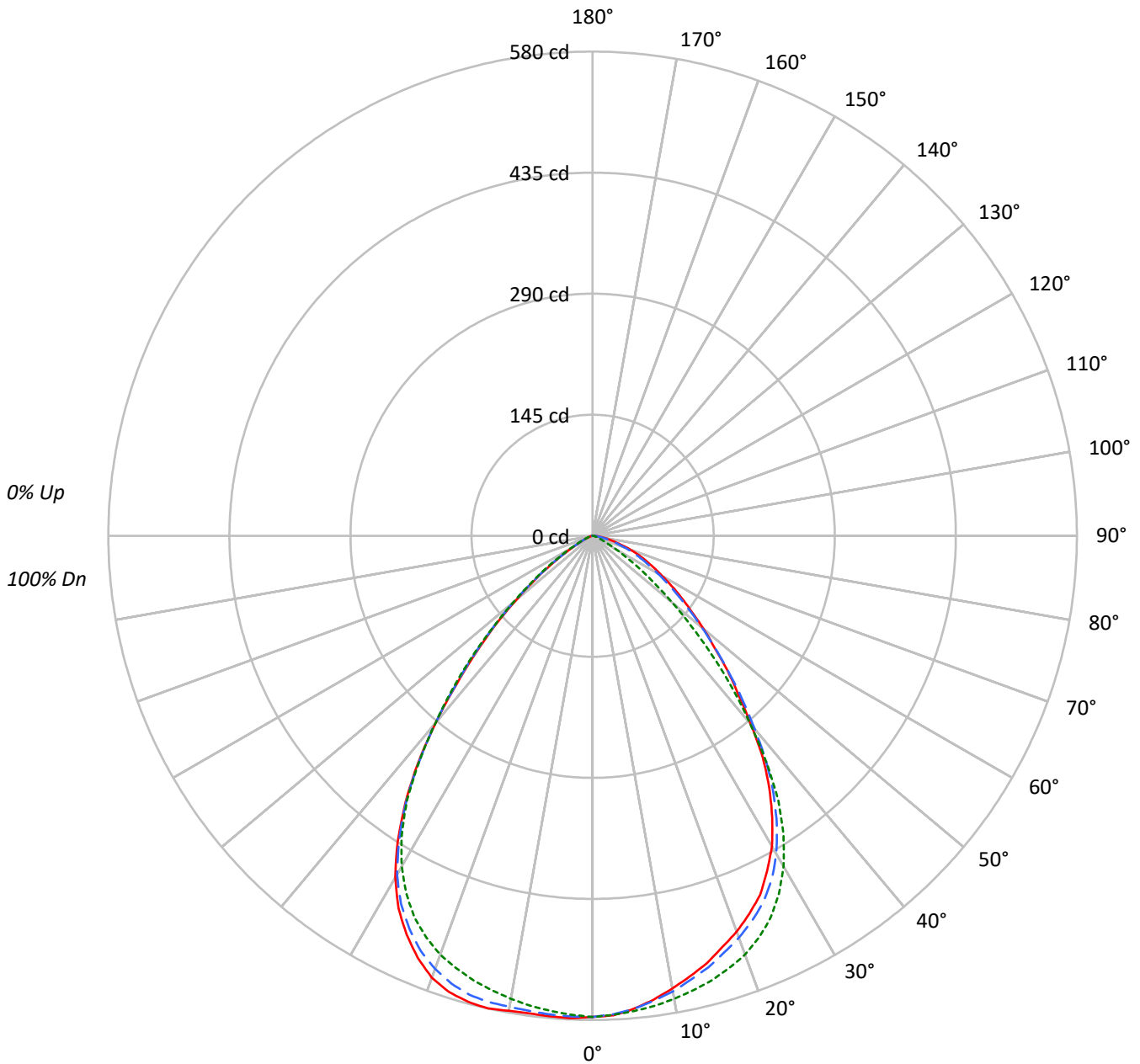
Lumens per Lamp: N/A  
Luminaire Lumens: 967.0 lumens  
Efficiency: N/A  
Efficacy: 98.7 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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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### 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°	31598	31598	31598
5°	31295	31449	31796
10°	30650	31351	32164
15°	30068	31288	32792
20°	29443	31147	32856
25°	28719	30528	31877
30°	27188	28947	29922
35°	24688	25946	26180
40°	21075	20975	20875
45°	17700	15707	15219
50°	14780	10627	10089
55°	12444	6518	5926
60°	10536	3432	2971
65°	9119	1803	1440
70°	7581	1122	785
75°	5613	741	445
80°	4388	442	221
85°	3522	440	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.3	5.6
10°-20°	155.5	16.1
20°-30°	229.7	23.8
30°-40°	236.7	24.5
40°-50°	163.5	16.9
50°-60°	80.6	8.3
60°-70°	32.7	3.4
70°-80°	11.6	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°	439.5	45.5
0°-40°	676.2	69.9
0°-60°	920.3	95.2
0°-90°	967.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	967.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	576	576	576	576	576	
5°	569	569	572	576	578	54
15°	530	535	551	569	578	149
25°	475	484	505	519	527	217
35°	369	378	388	390	391	229
45°	228	230	203	200	196	176
55°	130	125	68	64	62	118
65°	70	63	14	11	11	70
75°	26	22	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°	576.4	576.4	576.4	576.4	576.4	576.4	576.4	576.4	576.4	576.4	576.4
2.5°	575.0	572.9	574.3	571.5	575.0	571.5	572.2	572.9	572.2	572.9	573.6
5°	568.7	566.6	568.7	565.3	568.7	566.6	566.6	567.3	567.3	568.0	568.7
7.5°	560.4	558.3	560.4	556.9	561.1	559.0	559.0	560.4	559.7	560.4	561.8
10°	550.6	547.8	549.9	547.8	552.0	549.2	550.6	550.6	550.6	552.7	554.1
12.5°	540.2	537.4	540.2	536.7	540.9	538.8	539.5	541.6	542.3	543.7	544.4
15°	529.8	526.3	527.7	525.6	529.8	527.7	528.4	531.1	531.1	533.2	535.3
17.5°	516.5	513.7	516.5	513.7	517.2	515.8	517.2	519.3	519.3	521.4	523.5
20°	504.7	501.9	504.0	501.9	506.1	504.0	504.7	507.5	508.2	510.3	512.3
22.5°	490.1	488.0	489.4	487.3	491.5	490.1	490.8	493.6	494.3	495.6	499.1
25°	474.8	470.6	472.7	471.3	475.5	473.4	474.8	477.5	478.9	481.0	483.8
27.5°	452.5	450.4	451.8	451.8	455.3	453.2	453.9	456.7	458.7	460.8	464.3
30°	429.5	426.0	427.4	428.1	430.9	429.5	430.9	433.7	434.4	437.2	439.9
32.5°	400.3	398.9	401.7	400.3	401.7	401.7	402.3	404.4	405.8	407.2	410.7
35°	368.9	366.2	368.9	367.6	371.0	368.9	371.0	373.1	373.1	375.9	378.0
37.5°	334.8	331.4	332.7	332.7	334.1	333.4	333.4	336.9	337.6	339.7	341.8
40°	294.5	293.1	295.9	295.2	295.9	295.9	296.5	298.6	300.0	300.7	301.4
42.5°	258.3	258.9	259.7	259.7	259.7	259.7	259.7	262.4	261.7	263.8	264.5
45°	228.3	225.5	226.9	226.3	228.3	226.3	228.3	230.4	229.0	231.1	229.7
47.5°	197.7	197.7	197.7	197.0	198.4	197.7	199.1	199.8	199.8	199.8	199.1
50°	173.3	171.3	171.9	171.9	172.6	171.9	173.3	174.0	174.0	172.6	169.9
52.5°	149.7	149.0	149.0	150.4	150.4	149.7	149.7	149.7	149.7	147.6	146.2
55°	130.2	128.8	129.5	129.5	129.5	129.5	130.2	129.5	129.5	127.4	125.3
57.5°	112.8	111.4	111.4	111.4	112.1	111.4	111.4	111.4	110.7	108.6	105.8
60°	96.1	95.4	96.1	96.1	96.8	96.1	96.1	96.1	94.7	92.6	89.8
62.5°	82.1	82.1	82.1	82.8	82.8	82.1	82.1	81.4	80.8	78.0	75.2
65°	70.3	69.6	70.3	70.3	71.0	71.0	70.3	69.6	68.9	66.1	63.3
67.5°	58.5	57.8	58.5	58.5	59.2	58.5	58.5	58.5	56.4	55.0	52.2
70°	47.3	46.6	46.6	46.6	47.3	45.9	46.6	46.6	45.3	43.2	40.4
72.5°	36.2	36.2	36.2	36.2	36.2	36.2	35.5	35.5	34.1	32.0	30.6
75°	26.5	26.5	27.1	27.1	26.5	26.5	26.5	25.8	25.1	23.7	22.3
77.5°	19.5	19.5	19.5	19.5	18.8	18.8	18.8	18.1	17.4	16.7	15.3
80°	13.9	13.9	13.9	13.2	13.9	13.2	13.2	13.2	11.8	11.1	10.4
82.5°	9.7	9.1	9.1	9.1	9.1	9.1	9.1	8.4	8.4	7.7	7.0
85°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	4.9	4.2	4.2
87.5°	2.8	3.5	3.5	3.5	3.5	3.5	3.5	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°	576.4	576.4	576.4	576.4	576.4	576.4	576.4	576.4	576.4	576.4	576.4
2.5°	573.6	573.6	575.0	572.9	576.4	574.3	573.6	577.1	575.0	574.3	575.7
5°	568.7	569.4	570.1	568.7	572.2	570.1	570.1	573.6	572.2	571.5	573.6
7.5°	562.5	563.2	564.5	563.9	566.6	565.3	566.0	569.4	568.0	568.0	570.1
10°	554.8	556.2	557.6	557.6	561.1	559.7	559.7	563.9	562.5	563.2	566.0
12.5°	545.7	547.8	549.9	550.6	554.1	552.0	552.7	557.6	556.9	557.6	560.4
15°	536.0	538.8	540.9	540.9	545.1	543.0	545.1	549.9	548.5	551.3	554.8
17.5°	524.9	527.7	530.4	531.1	535.3	533.9	536.7	541.6	541.6	543.0	547.2
20°	514.4	517.9	519.3	521.4	525.6	524.9	526.3	531.8	531.8	533.9	538.1
22.5°	500.5	504.0	506.8	508.9	512.3	512.3	514.4	519.3	519.3	520.7	524.9
25°	485.2	489.4	491.5	493.6	497.0	496.3	498.4	502.6	503.3	504.7	508.9
27.5°	465.7	469.2	472.0	473.4	478.2	475.5	477.5	482.4	481.7	483.1	486.6
30°	441.4	444.8	447.6	447.6	451.8	451.8	453.9	456.0	456.0	457.3	460.1
32.5°	412.8	417.0	417.0	419.1	421.9	419.1	421.9	424.6	423.2	425.3	427.4
35°	380.1	382.2	382.9	382.9	385.0	384.3	383.6	385.6	384.3	387.7	389.8
37.5°	340.4	343.2	341.8	343.2	342.5	340.4	340.4	343.9	341.1	341.8	343.9
40°	302.1	302.1	301.4	298.0	298.6	296.5	295.9	296.5	293.8	293.1	295.9
42.5°	262.4	261.7	259.7	254.8	255.5	252.0	249.2	249.2	247.8	247.1	247.8
45°	226.9	224.8	221.4	215.8	214.4	211.6	206.0	204.7	202.6	202.6	203.3
47.5°	194.2	191.4	185.9	179.6	176.1	172.6	167.1	165.0	161.5	160.1	161.5
50°	167.1	162.2	155.2	146.2	142.7	138.5	133.0	129.5	126.0	124.6	123.9
52.5°	142.0	135.0	128.1	117.0	114.2	110.0	102.3	98.8	95.4	92.6	92.6
55°	120.4	114.2	104.4	94.0	89.8	85.6	78.0	73.1	69.6	68.2	66.8
57.5°	100.9	94.0	84.9	73.8	69.6	65.4	57.8	52.9	49.4	47.3	45.9
60°	84.9	77.3	68.2	58.5	53.6	49.4	41.8	36.9	33.4	31.3	29.9
62.5°	69.6	63.3	54.3	45.3	41.1	36.9	30.6	25.8	22.3	20.9	18.8
65°	58.5	52.2	43.8	36.2	32.7	28.5	23.0	18.8	16.0	13.9	12.5
67.5°	47.3	42.5	35.5	28.5	25.1	22.3	17.4	13.9	11.1	9.7	9.1
70°	37.6	32.7	27.1	21.6	19.5	16.7	13.2	9.7	8.4	7.0	6.3
72.5°	27.9	24.4	20.2	16.0	13.9	12.5	9.1	7.7	5.6	4.9	4.2
75°	20.2	17.4	14.6	11.1	9.7	9.1	7.0	4.9	4.2	3.5	2.8
77.5°	13.9	12.5	9.7	7.7	7.0	6.3	4.9	3.5	2.8	2.1	2.1
80°	9.1	7.7	6.3	4.9	4.9	4.2	2.8	2.1	2.1	1.4	1.4
82.5°	5.6	4.9	4.2	3.5	2.8	2.8	2.1	1.4	1.4	0.7	0.7
85°	3.5	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°	576.4	576.4	576.4	576.4	576.4	576.4	576.4	576.4	576.4	576.4	576.4
2.5°	575.7	575.7	577.1	575.0	576.4	576.4	577.8	575.0	576.4	577.1	578.5
5°	572.9	573.6	575.0	574.3	575.0	575.0	576.4	572.9	575.7	575.7	577.8
7.5°	570.1	570.1	571.5	570.8	572.2	572.9	574.3	571.5	574.3	574.3	576.4
10°	566.6	566.6	568.7	568.0	570.1	570.8	572.9	570.1	572.9	573.6	575.7
12.5°	561.8	562.5	564.5	564.5	566.6	568.0	570.1	568.7	572.2	572.9	575.7
15°	556.2	557.6	560.4	559.7	561.8	563.9	566.6	564.5	569.4	570.8	573.6
17.5°	549.2	550.6	552.7	552.7	554.8	556.2	559.7	558.3	562.5	563.2	566.6
20°	538.8	540.9	543.7	543.0	545.1	546.5	549.2	547.8	552.0	553.4	556.9
22.5°	526.3	527.7	529.8	529.8	531.8	533.2	536.0	533.9	538.1	538.8	541.6
25°	509.6	511.0	512.3	513.1	515.1	515.8	517.2	515.8	519.3	520.0	523.5
27.5°	488.0	488.7	490.8	490.8	492.2	492.8	494.9	492.2	497.0	497.0	499.1
30°	462.2	461.5	464.3	462.9	464.3	464.3	466.4	465.0	468.5	467.1	469.2
32.5°	428.1	429.5	429.5	428.1	430.9	430.2	430.2	428.8	430.9	431.6	433.0
35°	388.4	390.5	390.5	391.2	391.9	389.8	390.5	386.4	389.8	390.5	391.2
37.5°	345.3	343.2	344.6	342.5	346.0	341.8	341.8	339.0	341.8	341.8	342.5
40°	295.9	295.2	296.5	295.2	294.5	293.8	292.4	290.3	293.1	291.7	293.8
42.5°	249.2	248.5	248.5	247.1	246.4	246.4	245.0	243.6	243.0	243.0	246.4
45°	201.2	202.6	201.2	200.5	201.9	200.5	201.2	198.4	199.8	198.4	199.8
47.5°	160.8	161.5	160.1	158.7	160.8	158.7	158.7	156.6	159.4	159.4	158.0
50°	124.6	123.9	122.5	123.9	123.2	123.2	123.2	121.1	122.5	120.4	121.8
52.5°	91.9	91.2	91.2	90.5	91.2	90.5	90.5	89.8	89.8	89.1	89.8
55°	66.8	66.1	64.7	64.7	64.7	65.4	64.7	64.1	64.1	63.3	64.1
57.5°	45.3	43.8	43.8	43.8	43.8	43.2	43.2	42.5	43.2	42.5	43.2
60°	29.2	29.2	27.9	27.9	27.9	27.9	27.9	27.1	27.9	27.9	27.9
62.5°	18.1	18.1	17.4	16.7	17.4	16.7	16.7	16.7	17.4	16.7	17.4
65°	11.8	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
67.5°	8.4	7.7	7.7	7.7	7.7	7.7	7.7	7.0	7.7	7.7	7.7
70°	5.6	5.6	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
72.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
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: P683919

CATALOG NUMBER: LX6C10D010 EX6C109040 6LCSWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	576.4	576.4	576.4	576.4	576.4	576.4	576.4	576.4
2.5°	576.4	577.1	575.7	576.4	575.0	576.4	577.1	578.5
5°	575.0	575.7	574.3	575.7	574.3	575.7	576.4	577.8
7.5°	573.6	575.0	573.6	575.0	573.6	575.0	575.7	577.1
10°	573.6	575.7	574.3	576.4	574.3	575.7	577.1	577.8
12.5°	573.6	575.7	575.0	576.4	575.7	577.1	578.5	579.9
15°	572.2	574.3	572.9	575.0	574.3	575.0	577.8	577.8
17.5°	564.5	566.6	566.6	568.0	568.0	570.1	571.5	572.9
20°	554.8	556.9	556.2	558.3	558.3	560.4	561.8	563.2
22.5°	540.2	543.0	542.3	544.4	543.7	545.1	547.8	547.2
25°	521.4	524.9	524.2	525.6	524.9	524.9	526.3	527.0
27.5°	498.4	500.5	499.8	501.2	499.8	501.2	502.6	503.3
30°	468.5	469.9	469.2	469.9	469.2	470.6	471.3	472.7
32.5°	432.3	434.4	432.3	433.7	433.0	433.0	435.8	434.4
35°	389.1	389.8	390.5	390.5	389.1	389.8	391.2	391.2
37.5°	341.1	344.6	340.4	342.5	341.8	341.8	341.8	343.9
40°	291.0	291.7	290.3	290.3	290.3	289.6	292.4	291.7
42.5°	243.6	244.3	243.6	241.6	242.2	242.2	244.3	241.6
45°	197.7	199.1	198.4	198.4	197.0	197.0	197.7	196.3
47.5°	156.6	158.0	155.9	156.6	155.2	156.6	155.9	157.3
50°	119.0	120.4	119.7	120.4	120.4	119.0	121.1	118.3
52.5°	89.1	89.8	89.1	88.4	87.7	87.7	89.1	88.4
55°	63.3	62.6	62.6	62.6	63.3	63.3	62.6	62.0
57.5°	42.5	42.5	41.8	41.8	42.5	41.1	41.8	41.1
60°	27.1	27.1	27.1	27.1	26.5	27.1	27.1	27.1
62.5°	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7
65°	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
67.5°	7.0	7.7	7.7	7.7	7.0	7.0	7.0	7.0
70°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
72.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
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)