

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: P684599

Luminaire Tested: **LX6C08D010 EX6C089027 6LBLWWH**

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: P684599  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LX6C08D010 EX6C089027 6LBLWWH  
Description: 6 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS AND 6LRLWW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

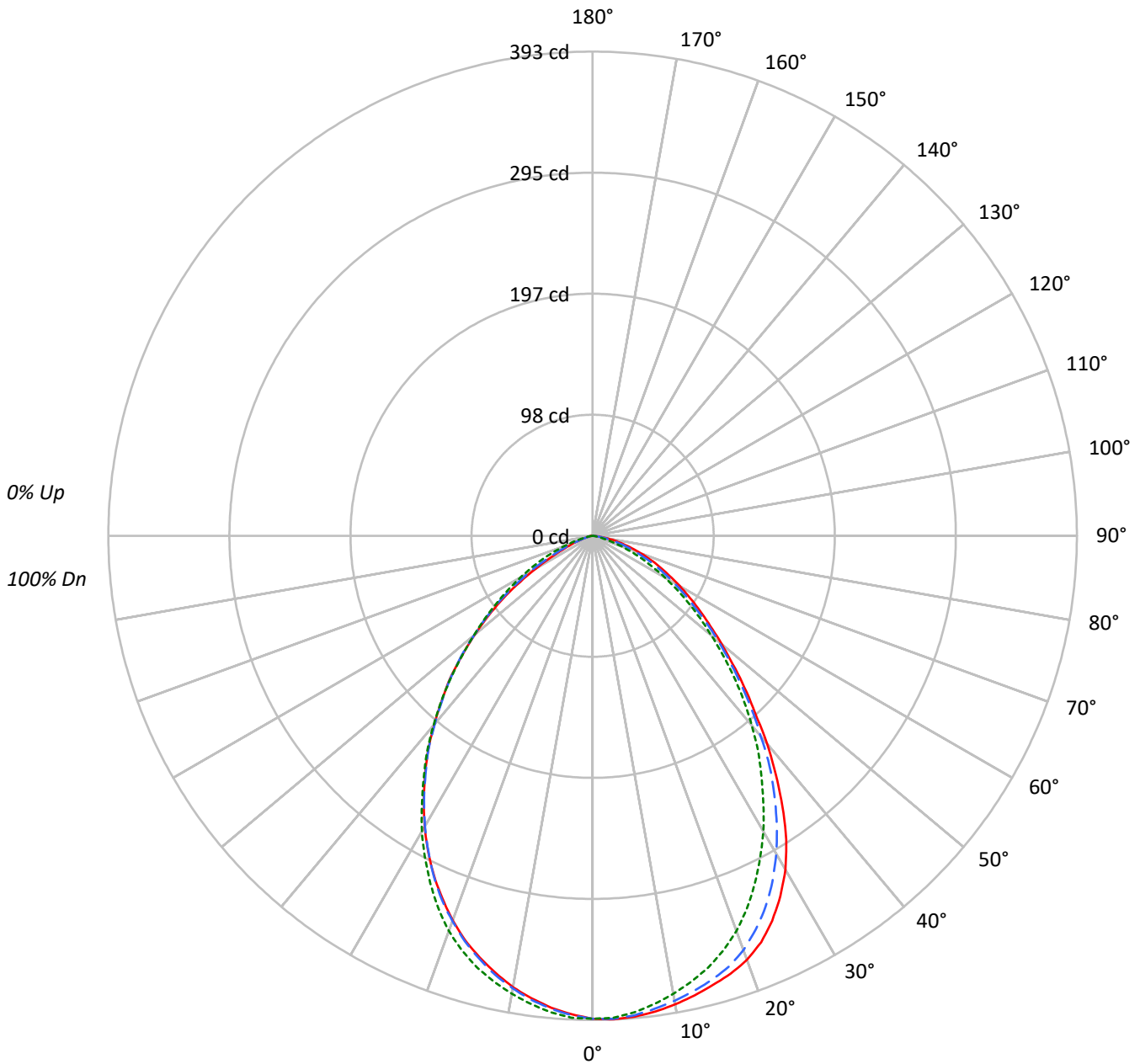
Lumens per Lamp: N/A  
Luminaire Lumens: 713.0 lumens  
Efficiency: N/A  
Efficacy: 72.0 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.9  
Input Voltage (V):  
Input Current (Ain): 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				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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			
2	103	96	91	86	101	95	90	85	91	87	83	88	85	81	85	82	80	78			
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68			
4	89	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60			
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	64	60	56	54			
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48			
7	71	59	52	46	70	59	51	46	57	51	46	56	50	45	55	49	45	43			
8	67	55	47	42	65	54	47	42	53	46	42	52	46	41	51	45	41	39			
9	63	51	43	38	62	50	43	38	49	42	38	48	42	38	47	42	38	36			
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	38	35	33			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	21490	21490	21490
5°	21561	21368	21159
10°	21498	21019	20713
15°	21419	20585	20108
20°	21369	19911	19380
25°	20850	18842	18424
30°	19807	17547	17256
35°	17982	15975	15874
40°	15772	14377	14305
45°	13521	12567	12668
50°	11641	10712	10652
55°	10179	9041	8487
60°	8947	7412	5789
65°	7822	5746	3489
70°	6668	3863	2052
75°	5380	2012	1123
80°	3757	789	631
85°	1510	252	314



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	36.7	5.2
10°-20°	102.6	14.4
20°-30°	145.9	20.5
30°-40°	153.6	21.5
40°-50°	128.0	18.0
50°-60°	86.5	12.1
60°-70°	43.9	6.2
70°-80°	14.2	2.0
80°-90°	1.6	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°	285.2	40.0
0°-40°	438.9	61.6
0°-60°	653.4	91.6
0°-90°	713.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	713.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	392	392	392	392	392	
5°	392	391	388	385	384	37
15°	377	373	363	356	354	107
25°	345	332	312	305	305	158
35°	269	257	239	236	237	167
45°	174	170	162	163	163	135
55°	106	101	95	92	89	96
65°	60	54	44	32	27	60
75°	25	20	10	5	5	27
85°	2	1	0	0	0	4
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°	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0
2.5°	392.9	392.9	392.9	392.9	392.9	392.9	392.8	392.8	392.5	392.5	392.4
5°	391.8	392.0	392.0	391.8	391.8	391.6	391.6	391.5	391.1	390.8	390.7
7.5°	389.6	389.6	389.5	389.3	389.2	388.8	388.7	388.3	388.0	387.8	387.2
10°	386.2	386.2	386.1	385.8	385.7	385.4	385.4	384.9	384.3	383.7	383.3
12.5°	382.1	382.2	382.0	381.8	381.4	381.3	381.0	380.4	380.0	379.2	378.5
15°	377.4	377.6	377.6	377.1	376.7	376.6	376.2	375.8	374.9	374.1	373.3
17.5°	372.7	373.0	372.7	372.3	372.0	371.4	371.2	370.4	369.2	368.1	366.9
20°	366.3	366.7	366.2	365.5	364.7	364.6	364.2	362.9	361.1	359.6	357.9
22.5°	357.2	356.9	356.5	356.3	355.0	354.2	353.6	351.9	350.1	348.0	345.9
25°	344.7	345.2	344.4	343.2	342.6	341.8	340.5	338.6	336.9	334.7	332.2
27.5°	329.9	329.9	328.9	328.5	327.0	326.0	325.3	323.5	321.2	319.0	316.2
30°	312.9	312.1	312.1	310.3	309.1	308.7	308.1	305.0	303.0	300.7	297.9
32.5°	292.4	292.2	291.7	290.5	288.9	287.6	287.6	285.5	282.9	280.0	278.3
35°	268.7	268.8	268.5	267.2	267.2	265.6	265.4	263.5	261.4	259.2	257.1
37.5°	244.1	244.7	244.1	243.5	243.1	243.0	241.8	240.5	238.9	237.6	236.0
40°	220.4	219.6	219.9	218.6	218.7	218.5	217.9	216.2	215.3	214.0	212.3
42.5°	194.9	195.7	195.9	195.1	194.9	194.3	194.9	194.2	193.2	192.5	190.9
45°	174.4	173.7	174.1	173.8	173.9	172.9	172.5	172.2	171.8	170.6	170.0
47.5°	154.2	154.3	154.2	153.6	153.4	153.4	152.8	152.0	152.0	151.3	150.7
50°	136.5	136.5	136.8	136.1	135.8	135.3	135.4	134.7	134.1	133.5	133.1
52.5°	120.3	120.4	119.9	120.0	119.8	119.8	119.2	118.7	118.2	117.0	116.7
55°	106.5	106.6	105.9	106.2	105.4	105.0	104.7	104.0	104.0	102.8	101.3
57.5°	93.5	93.4	93.3	92.9	92.4	92.0	91.6	90.6	90.3	89.5	88.3
60°	81.6	81.4	81.2	81.0	80.6	79.7	79.7	79.1	77.7	76.9	75.8
62.5°	70.2	70.2	70.1	69.7	69.3	68.9	68.6	68.1	66.8	65.9	64.8
65°	60.3	60.2	59.8	59.2	58.9	58.9	58.0	57.6	56.5	55.6	54.4
67.5°	50.9	50.3	50.1	50.2	49.4	49.4	48.6	48.0	47.0	45.5	44.5
70°	41.6	41.4	41.1	40.8	40.7	40.2	39.8	39.0	38.1	36.9	35.4
72.5°	33.3	33.3	32.9	32.7	32.3	31.8	31.5	30.8	29.8	28.5	27.4
75°	25.4	25.4	25.4	24.9	24.6	24.4	23.6	23.2	22.0	21.2	19.9
77.5°	18.7	18.4	18.1	17.9	17.7	17.4	17.0	16.3	15.3	14.4	13.6
80°	11.9	12.3	11.9	11.9	11.2	10.9	10.8	10.0	9.6	8.8	8.2
82.5°	6.6	6.7	6.5	6.3	5.9	5.8	5.8	5.3	5.0	4.5	4.1
85°	2.4	2.5	2.4	2.4	2.1	2.2	2.1	2.0	1.7	1.4	1.3
87.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
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°	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0
2.5°	392.4	392.1	392.1	392.0	391.8	391.8	391.8	391.7	391.5	391.5	391.3
5°	390.4	390.1	389.7	389.5	389.3	389.2	389.1	389.0	388.4	388.3	387.9
7.5°	386.8	386.6	385.9	385.7	385.3	385.1	384.6	384.3	383.8	383.3	383.0
10°	382.6	382.0	381.4	380.8	380.5	380.1	379.5	378.7	378.3	377.6	377.1
12.5°	377.9	377.1	376.0	375.2	375.0	374.3	373.3	372.6	371.7	370.6	369.7
15°	372.0	371.0	370.1	368.7	368.3	367.5	366.4	365.1	363.8	362.7	361.7
17.5°	365.5	364.0	362.6	361.0	359.8	359.4	357.7	355.9	354.7	352.8	351.7
20°	356.4	354.4	352.1	350.5	349.4	348.2	346.3	344.3	342.8	341.3	339.5
22.5°	343.9	342.0	339.3	336.9	336.1	334.4	332.7	330.8	329.0	327.3	325.2
25°	329.1	327.2	324.4	322.0	320.7	319.9	316.6	314.8	312.9	311.5	310.0
27.5°	314.0	310.4	308.6	304.9	303.7	303.4	300.4	298.4	296.5	294.5	292.6
30°	295.3	292.5	289.7	287.1	285.5	284.6	282.4	279.9	278.5	277.2	275.4
32.5°	275.9	273.4	270.0	267.5	266.3	265.0	263.0	261.3	259.3	257.9	257.5
35°	255.2	252.4	249.5	247.7	247.4	245.9	243.9	242.4	241.0	238.7	238.4
37.5°	233.1	231.5	229.5	226.9	225.7	225.7	223.7	222.7	220.8	220.7	219.6
40°	211.3	210.7	207.7	206.9	206.6	204.8	204.2	202.4	201.1	200.9	199.4
42.5°	189.9	188.2	187.6	186.3	185.1	184.9	183.7	182.9	182.4	181.6	180.8
45°	168.5	168.1	166.8	165.9	165.5	165.0	164.6	163.0	162.7	162.1	161.7
47.5°	150.1	149.0	147.8	146.8	146.6	145.9	144.9	144.9	143.5	143.4	143.1
50°	131.8	131.0	130.3	128.9	129.1	128.1	127.9	126.8	126.1	125.6	126.2
52.5°	115.7	114.1	113.8	112.7	112.3	112.4	110.9	110.5	110.3	109.8	109.5
55°	100.4	99.6	98.6	97.8	97.1	96.4	95.9	95.9	94.5	94.6	93.9
57.5°	87.0	86.3	85.0	83.8	83.5	82.7	82.1	81.4	81.3	80.4	79.7
60°	75.0	73.8	72.1	71.5	70.8	70.1	69.4	68.6	68.3	67.6	66.4
62.5°	63.8	61.8	61.1	60.1	59.2	58.8	57.7	56.8	56.1	55.2	54.3
65°	53.1	51.6	50.5	49.3	49.1	48.1	47.2	46.4	45.1	44.3	42.6
67.5°	43.3	42.0	40.7	39.5	38.6	38.3	36.9	36.0	35.0	33.5	32.0
70°	34.4	33.1	32.0	30.6	30.2	29.1	28.1	27.1	25.6	24.1	22.9
72.5°	26.2	24.8	23.6	22.5	21.9	20.9	19.9	18.8	17.3	15.8	14.8
75°	18.7	17.7	16.5	15.4	14.9	14.4	13.2	12.0	10.9	9.5	8.6
77.5°	12.6	11.6	10.5	9.6	9.0	8.6	7.8	6.9	5.9	5.1	4.5
80°	7.4	6.7	5.9	5.1	5.0	4.6	4.0	3.4	2.9	2.5	2.0
82.5°	3.6	3.2	2.6	2.2	2.0	1.8	1.6	1.3	1.1	0.9	0.9
85°	1.1	0.9	0.8	0.7	0.5	0.5	0.4	0.4	0.4	0.4	0.4
87.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
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):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0
2.5°	390.9	390.8	390.7	390.5	390.3	390.3	389.9	389.6	389.6	389.3	389.2
5°	387.5	387.1	387.0	386.7	386.4	386.3	385.8	385.7	385.4	385.1	385.1
7.5°	382.6	382.1	381.6	381.3	381.2	380.8	380.5	380.4	380.0	379.7	379.2
10°	376.2	375.8	375.1	374.9	374.6	374.3	373.7	373.3	373.1	372.9	372.6
12.5°	368.7	368.1	367.5	366.9	366.7	366.3	365.6	365.2	365.2	364.7	364.7
15°	360.6	359.8	358.6	358.1	358.0	357.2	356.7	356.1	355.5	355.2	355.2
17.5°	350.3	349.0	348.0	348.0	347.4	346.7	345.9	345.5	345.1	344.5	344.3
20°	338.2	337.3	336.1	336.1	334.9	334.7	333.9	333.7	332.8	333.0	332.6
22.5°	323.6	323.1	322.4	321.9	321.2	320.4	320.0	320.2	319.8	319.6	319.5
25°	308.8	307.4	306.6	306.3	306.1	305.4	305.2	305.0	305.0	304.6	304.8
27.5°	291.8	290.8	289.7	290.1	289.6	289.2	288.9	288.6	288.8	288.7	288.8
30°	274.5	273.1	272.5	272.7	272.6	271.6	272.1	271.9	272.1	272.1	272.3
32.5°	256.1	255.2	255.1	255.2	254.0	254.2	253.6	254.4	254.6	255.3	254.7
35°	237.6	237.0	236.1	236.0	236.1	236.0	236.0	236.5	236.4	237.2	236.9
37.5°	218.5	218.2	217.3	217.5	217.0	217.9	218.2	217.9	218.9	218.6	218.5
40°	199.7	199.4	198.8	199.9	199.2	198.7	199.6	198.8	199.1	199.9	199.9
42.5°	180.8	180.1	180.1	180.1	180.0	180.0	180.4	180.8	180.5	180.6	181.7
45°	161.7	161.5	161.1	161.4	161.3	161.9	161.9	162.2	162.7	163.2	163.0
47.5°	143.2	143.0	143.4	143.1	143.2	142.8	143.1	143.9	144.5	143.6	144.5
50°	126.0	125.4	125.3	125.7	125.6	125.4	125.7	125.7	125.4	125.4	126.4
52.5°	109.5	109.0	108.6	109.2	108.8	109.0	108.4	108.4	108.7	108.4	108.0
55°	94.1	93.7	93.2	93.4	92.8	92.6	92.1	92.1	91.7	91.4	90.6
57.5°	79.3	79.1	77.9	77.7	77.9	76.9	76.0	75.6	74.6	74.3	74.2
60°	66.3	64.8	64.2	63.4	62.8	62.5	61.4	60.7	59.2	58.2	58.1
62.5°	52.7	52.0	51.3	50.1	49.8	48.5	47.4	45.7	44.9	43.7	42.6
65°	41.8	40.1	38.9	38.2	37.2	36.0	34.8	32.9	32.0	30.6	29.4
67.5°	30.6	29.1	27.5	27.0	26.1	24.6	23.5	21.9	21.1	19.8	19.4
70°	20.9	19.6	18.4	17.7	17.0	15.5	14.4	13.8	13.0	12.8	12.8
72.5°	13.4	12.3	10.9	10.5	10.0	9.2	8.4	8.2	8.4	8.3	8.3
75°	7.5	6.9	5.9	5.5	5.5	5.3	5.1	5.1	5.1	5.1	5.1
77.5°	3.8	3.4	3.2	3.0	3.0	3.0	3.2	3.2	3.2	3.3	3.2
80°	1.8	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.8	2.0	1.8
82.5°	0.9	0.9	0.9	0.9	0.9	0.9	1.1	1.1	1.1	1.1	1.1
85°	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5
87.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
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):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0
2.5°	389.1	388.8	388.8	388.7	388.7	388.7	388.7	388.8
5°	384.9	384.7	384.7	384.5	384.5	384.5	384.5	384.5
7.5°	379.2	378.9	379.1	378.8	378.8	378.9	378.8	378.7
10°	372.2	372.1	372.2	372.2	372.0	371.8	372.0	372.1
12.5°	364.3	364.2	363.9	364.0	364.0	363.9	363.8	363.5
15°	355.1	355.0	354.8	354.7	354.6	354.7	354.6	354.3
17.5°	344.3	344.3	344.2	344.0	343.9	343.6	343.8	344.2
20°	332.7	332.6	332.3	332.4	331.9	331.6	331.8	332.2
22.5°	319.4	319.0	319.3	318.9	318.9	319.0	318.9	318.6
25°	304.9	304.4	304.6	304.8	304.8	304.6	304.5	304.6
27.5°	288.8	289.2	289.2	288.9	289.3	288.8	289.1	289.2
30°	272.3	271.9	271.8	272.3	273.1	272.5	272.5	272.6
32.5°	255.3	254.8	254.8	255.1	255.0	255.0	255.5	254.8
35°	237.2	237.4	236.4	237.0	237.3	237.0	237.2	237.2
37.5°	218.9	218.6	218.6	218.6	219.0	219.0	219.2	219.1
40°	200.8	200.3	200.1	200.4	199.9	200.3	200.3	199.9
42.5°	181.3	181.4	182.1	181.4	181.6	181.4	181.2	181.0
45°	163.2	163.6	163.4	163.2	163.4	162.9	163.0	163.4
47.5°	144.1	144.9	144.1	144.7	144.5	144.3	144.0	143.5
50°	126.2	126.5	126.4	126.2	126.1	126.0	125.3	124.9
52.5°	107.9	107.9	107.9	107.9	106.6	107.3	107.0	106.2
55°	90.0	90.4	89.9	89.9	88.9	88.9	88.7	88.8
57.5°	72.7	72.3	71.9	71.9	71.0	70.6	70.2	69.7
60°	56.7	56.3	55.7	55.1	54.2	54.2	53.9	52.8
62.5°	41.5	40.8	40.4	39.9	39.1	38.6	38.2	38.5
65°	28.5	27.8	27.3	27.3	27.3	27.0	26.9	26.9
67.5°	18.7	19.1	18.8	19.1	19.1	18.8	18.7	19.0
70°	12.9	12.9	12.8	12.8	12.8	12.8	12.6	12.8
72.5°	8.3	8.3	8.3	8.4	8.3	8.3	8.4	8.4
75°	5.3	5.3	5.3	5.4	5.3	5.3	5.4	5.3
77.5°	3.2	3.3	3.3	3.3	3.3	3.2	3.3	3.3
80°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
85°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
87.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
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)