

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: FAIL-SAFE

Report Number: P

Luminaire Tested: **4APN-X-26L930-UNV-NP**

Issue Date: 06/06/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 06/06/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 4APN-X-26L930-UNV-NP  
Description: ArcMed Patient Recessed 4 FT x6 IN Fixture EXAM Light w/ Nature Pattern Lens  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

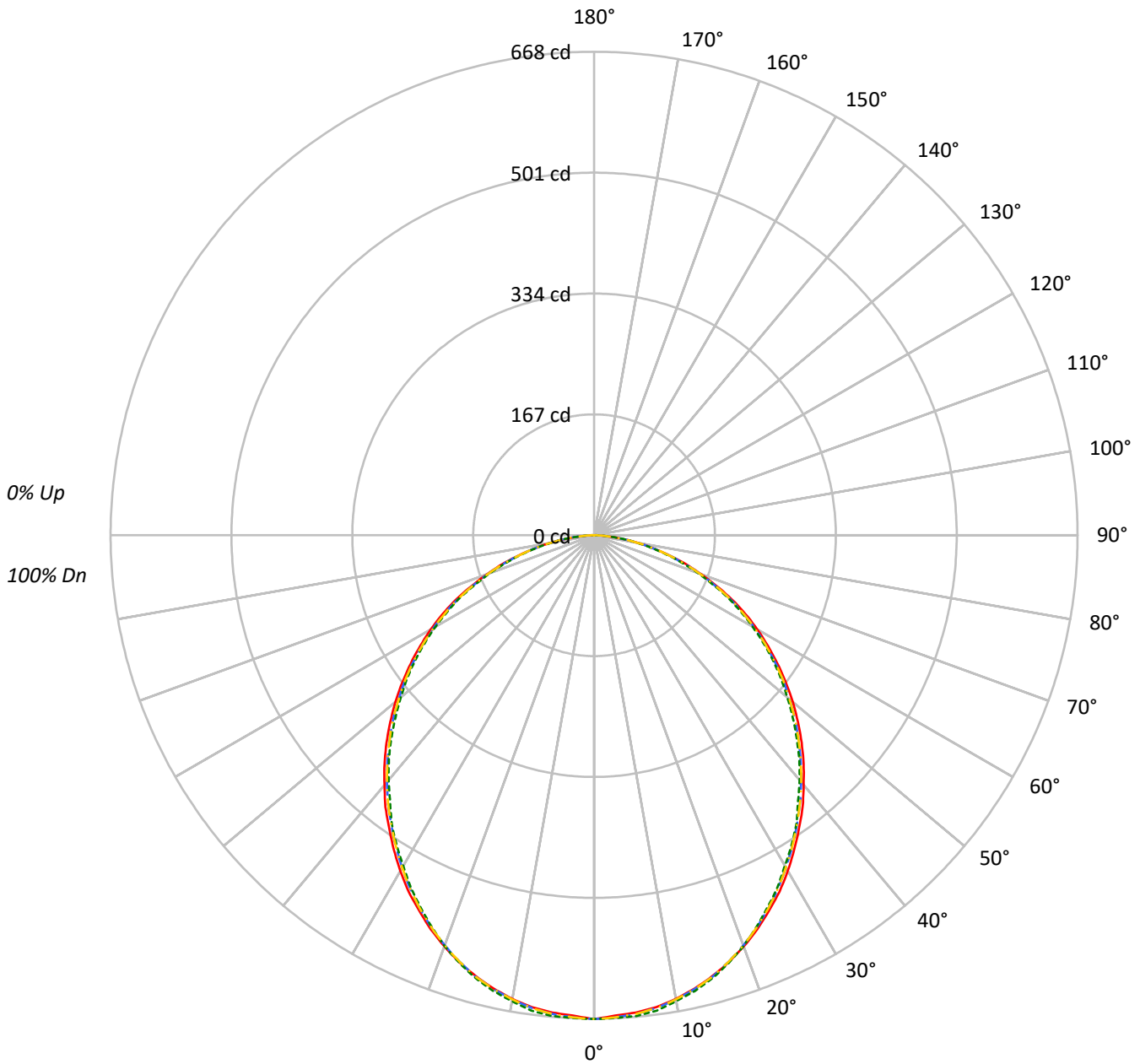
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1739.0 lumens  
Efficiency: N/A  
Efficacy: 61.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 28.2  
Input Voltage (V): 120  
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



— 0°-180°    - - 45°-225°    ···· 90°-270°    - · - · 135°-315°



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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	102	102	102	100	
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	86	86	86	84	
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	73	73	73	70	
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	62	62	62	60	
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	53	53	53	51	
5	76	64	55	48	74	63	54	48	60	53	47	59	52	47	57	51	46	46	46	46	44	
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	41	41	41	39	
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	36	36	36	34	
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	33	33	33	31	
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	30	30	30	28	
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	27	27	27	25	

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

	0°	90°	180°	270°
0°	6167	6167	6167	6167
5°	6130	6176	6130	6176
10°	6094	6124	6094	6124
15°	6025	6049	6025	6049
20°	5937	5929	5937	5929
25°	5824	5774	5824	5774
30°	5704	5617	5704	5617
35°	5561	5487	5561	5487
40°	5426	5317	5426	5317
45°	5292	5164	5292	5164
50°	5143	5002	5143	5002
55°	4975	4858	4975	4858
60°	4805	4668	4805	4668
65°	4598	4454	4598	4454
70°	4249	4116	4249	4116
75°	3839	3725	3839	3725
80°	3299	3209	3299	3209
85°	2509	2509	2509	2509



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.1	3.6
10°-20°	178.1	10.2
20°-30°	262.6	15.1
30°-40°	306.5	17.6
40°-50°	309.0	17.8
50°-60°	273.1	15.7
60°-70°	204.2	11.7
70°-80°	113.2	6.5
80°-90°	29.0	1.7
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°	503.8	29.0
0°-40°	810.3	46.6
0°-60°	1392.5	80.1
0°-90°	1739.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1739.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	668	668	668	668	668	
5°	662	667	662	667	662	63
15°	631	633	631	633	631	178
25°	572	567	572	567	572	264
35°	494	487	494	487	494	309
45°	406	396	406	396	406	313
55°	309	302	309	302	309	277
65°	211	204	211	204	211	207
75°	108	104	108	104	108	115
85°	24	24	24	24	24	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	668.4	668.4	668.4	668.4	668.4	668.4	668.4	668.4	668.4	668.4	668.4
2.5°	664.3	667.5	670.8	670.0	667.5	666.0	666.8	666.8	667.5	667.5	667.5
5°	661.9	665.1	667.5	666.8	664.3	663.5	663.5	663.5	665.1	666.8	665.1
7.5°	657.8	660.2	662.6	661.9	659.4	658.6	658.6	659.4	661.1	662.6	661.1
10°	650.5	653.7	656.2	654.5	652.0	650.5	650.5	650.5	652.0	653.7	652.0
12.5°	641.4	643.9	646.3	645.5	643.1	641.4	641.4	641.4	643.1	644.8	643.1
15°	630.8	633.3	635.7	634.9	632.5	630.8	630.8	630.8	632.5	633.3	632.5
17.5°	618.6	621.1	623.5	621.9	618.6	617.0	617.0	617.0	618.6	619.4	618.6
20°	604.7	607.1	608.8	607.1	603.9	602.3	601.4	601.4	603.1	603.9	603.1
22.5°	589.3	590.8	592.5	590.8	587.6	585.9	585.1	584.4	585.1	585.9	585.1
25°	572.1	573.8	575.3	573.8	570.4	568.0	567.2	566.4	567.2	567.2	567.2
27.5°	555.0	555.8	557.4	555.0	551.7	549.2	548.4	547.6	548.4	548.4	548.4
30°	535.4	536.1	537.8	535.4	531.3	528.9	528.0	527.2	527.2	527.2	527.2
32.5°	514.9	516.6	518.3	514.9	510.9	508.4	507.7	506.8	507.7	507.7	507.7
35°	493.7	494.6	496.2	493.7	489.7	487.2	485.6	484.8	486.4	487.2	486.4
37.5°	473.4	474.2	475.0	472.5	468.5	466.0	464.3	463.6	462.8	462.8	462.8
40°	450.5	451.3	453.0	450.5	446.4	443.9	442.3	441.5	441.5	441.5	441.5
42.5°	428.5	429.3	430.1	427.6	423.6	421.1	419.5	418.7	419.5	419.5	419.5
45°	405.6	405.6	406.4	403.9	400.7	398.2	396.6	395.8	395.8	395.8	395.8
47.5°	381.9	382.7	383.6	381.2	377.8	375.4	373.8	372.1	372.1	372.1	372.1
50°	358.3	358.3	359.1	356.6	353.4	350.9	350.1	349.3	348.5	348.5	348.5
52.5°	333.8	334.6	335.4	332.9	330.5	328.0	326.5	325.7	325.7	325.7	325.7
55°	309.3	309.3	310.2	308.5	306.0	303.6	302.0	301.1	302.0	302.0	302.0
57.5°	284.8	285.6	286.5	284.0	281.6	279.1	278.3	277.4	277.4	277.4	277.4
60°	260.4	260.4	261.1	259.5	257.1	254.7	253.8	253.0	253.0	253.0	253.0
62.5°	235.8	235.8	236.7	235.0	232.6	230.1	229.3	228.5	228.5	228.5	228.5
65°	210.6	210.6	210.6	208.9	207.3	206.4	205.7	204.9	204.0	204.0	204.0
67.5°	182.8	182.8	183.7	182.0	180.3	179.5	178.7	177.9	177.1	177.1	177.1
70°	157.5	157.5	158.3	157.5	155.9	155.1	154.3	153.4	152.6	152.6	152.6
72.5°	133.0	133.0	133.0	132.2	131.4	130.6	129.7	129.0	128.2	128.2	128.2
75°	107.7	107.7	108.5	107.7	107.0	106.1	105.3	105.3	104.5	104.5	104.5
77.5°	84.1	84.9	85.7	84.9	84.1	83.3	82.4	82.4	81.6	81.6	81.6
80°	62.1	62.9	63.6	62.9	62.1	61.2	60.4	60.4	60.4	60.4	60.4
82.5°	41.6	42.4	43.2	42.4	41.6	41.6	40.8	40.8	40.8	40.8	40.8
85°	23.7	24.5	25.3	25.3	24.5	24.5	23.7	23.7	23.7	23.7	23.7
87.5°	8.9	9.8	10.6	10.6	9.8	9.8	9.8	9.8	9.8	9.8	9.8
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):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	668.4	668.4	668.4	668.4	668.4	668.4	668.4	668.4	668.4	668.4	668.4
2.5°	666.8	666.8	666.0	667.5	670.0	670.8	667.5	664.3	667.5	670.8	670.0
5°	663.5	663.5	663.5	664.3	666.8	667.5	665.1	661.9	665.1	667.5	666.8
7.5°	659.4	658.6	658.6	659.4	661.9	662.6	660.2	657.8	660.2	662.6	661.9
10°	650.5	650.5	650.5	652.0	654.5	656.2	653.7	650.5	653.7	656.2	654.5
12.5°	641.4	641.4	641.4	643.1	645.5	646.3	643.9	641.4	643.9	646.3	645.5
15°	630.8	630.8	630.8	632.5	634.9	635.7	633.3	630.8	633.3	635.7	634.9
17.5°	617.0	617.0	617.0	618.6	621.9	623.5	621.1	618.6	621.1	623.5	621.9
20°	601.4	601.4	602.3	603.9	607.1	608.8	607.1	604.7	607.1	608.8	607.1
22.5°	584.4	585.1	585.9	587.6	590.8	592.5	590.8	589.3	590.8	592.5	590.8
25°	566.4	567.2	568.0	570.4	573.8	575.3	573.8	572.1	573.8	575.3	573.8
27.5°	547.6	548.4	549.2	551.7	555.0	557.4	555.8	555.0	555.8	557.4	555.0
30°	527.2	528.0	528.9	531.3	535.4	537.8	536.1	535.4	536.1	537.8	535.4
32.5°	506.8	507.7	508.4	510.9	514.9	518.3	516.6	514.9	516.6	518.3	514.9
35°	484.8	485.6	487.2	489.7	493.7	496.2	494.6	493.7	494.6	496.2	493.7
37.5°	463.6	464.3	466.0	468.5	472.5	475.0	474.2	473.4	474.2	475.0	472.5
40°	441.5	442.3	443.9	446.4	450.5	453.0	451.3	450.5	451.3	453.0	450.5
42.5°	418.7	419.5	421.1	423.6	427.6	430.1	429.3	428.5	429.3	430.1	427.6
45°	395.8	396.6	398.2	400.7	403.9	406.4	405.6	405.6	405.6	406.4	403.9
47.5°	372.1	373.8	375.4	377.8	381.2	383.6	382.7	381.9	382.7	383.6	381.2
50°	349.3	350.1	350.9	353.4	356.6	359.1	358.3	358.3	358.3	359.1	356.6
52.5°	325.7	326.5	328.0	330.5	332.9	335.4	334.6	333.8	334.6	335.4	332.9
55°	301.1	302.0	303.6	306.0	308.5	310.2	309.3	309.3	309.3	310.2	308.5
57.5°	277.4	278.3	279.1	281.6	284.0	286.5	285.6	284.8	285.6	286.5	284.0
60°	253.0	253.8	254.7	257.1	259.5	261.1	260.4	260.4	260.4	261.1	259.5
62.5°	228.5	229.3	230.1	232.6	235.0	236.7	235.8	235.8	235.8	236.7	235.0
65°	204.9	205.7	206.4	207.3	208.9	210.6	210.6	210.6	210.6	210.6	208.9
67.5°	177.9	178.7	179.5	180.3	182.0	183.7	182.8	182.8	182.8	183.7	182.0
70°	153.4	154.3	155.1	155.9	157.5	158.3	157.5	157.5	157.5	158.3	157.5
72.5°	129.0	129.7	130.6	131.4	132.2	133.0	133.0	133.0	133.0	133.0	132.2
75°	105.3	105.3	106.1	107.0	107.7	108.5	107.7	107.7	107.7	108.5	107.7
77.5°	82.4	82.4	83.3	84.1	84.9	85.7	84.9	84.1	84.9	85.7	84.9
80°	60.4	60.4	61.2	62.1	62.9	63.6	62.9	62.1	62.9	63.6	62.9
82.5°	40.8	40.8	41.6	41.6	42.4	43.2	42.4	41.6	42.4	43.2	42.4
85°	23.7	23.7	24.5	24.5	25.3	25.3	24.5	23.7	24.5	25.3	25.3
87.5°	9.8	9.8	9.8	9.8	10.6	10.6	9.8	8.9	9.8	10.6	10.6
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):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	668.4	668.4	668.4	668.4	668.4	668.4	668.4	668.4	668.4	668.4	668.4
2.5°	667.5	666.0	666.8	666.8	667.5	667.5	667.5	666.8	666.8	666.0	667.5
5°	664.3	663.5	663.5	663.5	665.1	666.8	665.1	663.5	663.5	663.5	664.3
7.5°	659.4	658.6	658.6	659.4	661.1	662.6	661.1	659.4	658.6	658.6	659.4
10°	652.0	650.5	650.5	650.5	652.0	653.7	652.0	650.5	650.5	650.5	652.0
12.5°	643.1	641.4	641.4	641.4	643.1	644.8	643.1	641.4	641.4	641.4	643.1
15°	632.5	630.8	630.8	630.8	632.5	633.3	632.5	630.8	630.8	630.8	632.5
17.5°	618.6	617.0	617.0	617.0	618.6	619.4	618.6	617.0	617.0	617.0	618.6
20°	603.9	602.3	601.4	601.4	603.1	603.9	603.1	601.4	601.4	602.3	603.9
22.5°	587.6	585.9	585.1	584.4	585.1	585.9	585.1	584.4	585.1	585.9	587.6
25°	570.4	568.0	567.2	566.4	567.2	567.2	567.2	566.4	567.2	568.0	570.4
27.5°	551.7	549.2	548.4	547.6	548.4	548.4	548.4	547.6	548.4	549.2	551.7
30°	531.3	528.9	528.0	527.2	527.2	527.2	527.2	527.2	528.0	528.9	531.3
32.5°	510.9	508.4	507.7	506.8	507.7	507.7	507.7	506.8	507.7	508.4	510.9
35°	489.7	487.2	485.6	484.8	486.4	487.2	486.4	484.8	485.6	487.2	489.7
37.5°	468.5	466.0	464.3	463.6	462.8	462.8	462.8	463.6	464.3	466.0	468.5
40°	446.4	443.9	442.3	441.5	441.5	441.5	441.5	441.5	442.3	443.9	446.4
42.5°	423.6	421.1	419.5	418.7	419.5	419.5	419.5	418.7	419.5	421.1	423.6
45°	400.7	398.2	396.6	395.8	395.8	395.8	395.8	396.6	398.2	400.7	
47.5°	377.8	375.4	373.8	372.1	372.1	372.1	372.1	373.8	375.4	377.8	
50°	353.4	350.9	350.1	349.3	348.5	348.5	348.5	349.3	350.1	350.9	353.4
52.5°	330.5	328.0	326.5	325.7	325.7	325.7	325.7	326.5	328.0	330.5	
55°	306.0	303.6	302.0	301.1	302.0	302.0	302.0	301.1	302.0	303.6	306.0
57.5°	281.6	279.1	278.3	277.4	277.4	277.4	277.4	278.3	279.1	281.6	
60°	257.1	254.7	253.8	253.0	253.0	253.0	253.0	253.8	254.7	257.1	
62.5°	232.6	230.1	229.3	228.5	228.5	228.5	228.5	229.3	230.1	232.6	
65°	207.3	206.4	205.7	204.9	204.0	204.0	204.0	204.9	205.7	206.4	207.3
67.5°	180.3	179.5	178.7	177.9	177.1	177.1	177.1	177.9	178.7	179.5	180.3
70°	155.9	155.1	154.3	153.4	152.6	152.6	152.6	153.4	154.3	155.1	155.9
72.5°	131.4	130.6	129.7	129.0	128.2	128.2	128.2	129.0	129.7	130.6	131.4
75°	107.0	106.1	105.3	105.3	104.5	104.5	104.5	105.3	105.3	106.1	107.0
77.5°	84.1	83.3	82.4	82.4	81.6	81.6	81.6	82.4	82.4	83.3	84.1
80°	62.1	61.2	60.4	60.4	60.4	60.4	60.4	60.4	60.4	61.2	62.1
82.5°	41.6	41.6	40.8	40.8	40.8	40.8	40.8	40.8	40.8	41.6	41.6
85°	24.5	24.5	23.7	23.7	23.7	23.7	23.7	23.7	23.7	24.5	24.5
87.5°	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
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):**

	330°	340°	350°	360°
0°	668.4	668.4	668.4	668.4
2.5°	670.0	670.8	667.5	664.3
5°	666.8	667.5	665.1	661.9
7.5°	661.9	662.6	660.2	657.8
10°	654.5	656.2	653.7	650.5
12.5°	645.5	646.3	643.9	641.4
15°	634.9	635.7	633.3	630.8
17.5°	621.9	623.5	621.1	618.6
20°	607.1	608.8	607.1	604.7
22.5°	590.8	592.5	590.8	589.3
25°	573.8	575.3	573.8	572.1
27.5°	555.0	557.4	555.8	555.0
30°	535.4	537.8	536.1	535.4
32.5°	514.9	518.3	516.6	514.9
35°	493.7	496.2	494.6	493.7
37.5°	472.5	475.0	474.2	473.4
40°	450.5	453.0	451.3	450.5
42.5°	427.6	430.1	429.3	428.5
45°	403.9	406.4	405.6	405.6
47.5°	381.2	383.6	382.7	381.9
50°	356.6	359.1	358.3	358.3
52.5°	332.9	335.4	334.6	333.8
55°	308.5	310.2	309.3	309.3
57.5°	284.0	286.5	285.6	284.8
60°	259.5	261.1	260.4	260.4
62.5°	235.0	236.7	235.8	235.8
65°	208.9	210.6	210.6	210.6
67.5°	182.0	183.7	182.8	182.8
70°	157.5	158.3	157.5	157.5
72.5°	132.2	133.0	133.0	133.0
75°	107.7	108.5	107.7	107.7
77.5°	84.9	85.7	84.9	84.1
80°	62.9	63.6	62.9	62.1
82.5°	42.4	43.2	42.4	41.6
85°	25.3	25.3	24.5	23.7
87.5°	10.6	10.6	9.8	8.9
90°	0.0	0.0	0.0	0.0

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