

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-26L840-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-26L840-UNV-NP  
Description: ArcMed Patient Recessed 4 FT x6 IN Fixture EXAM Light w/ Nature Pattern Lens  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

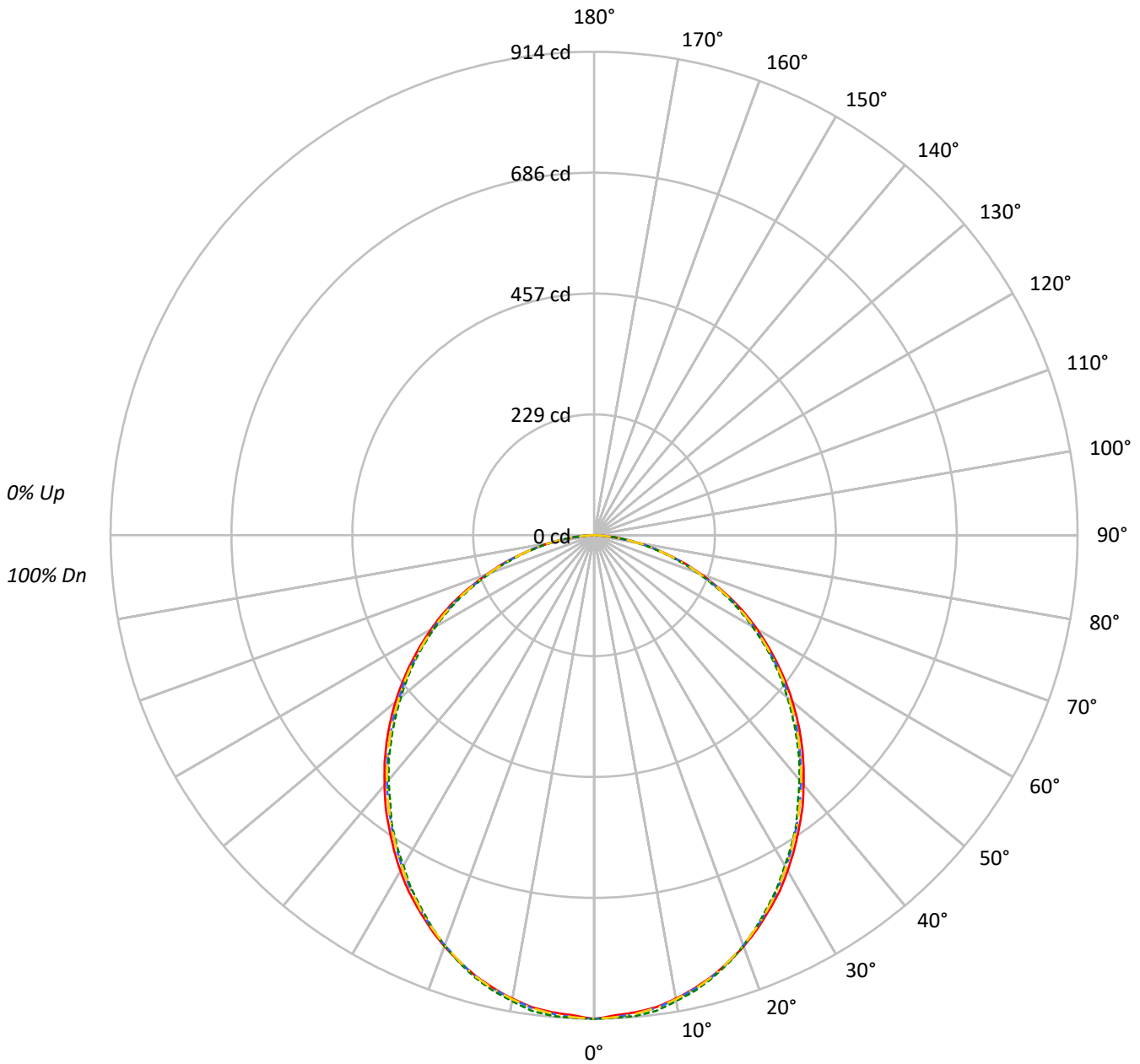
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2378.6 lumens  
Efficiency: N/A  
Efficacy: 84.3 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°	8436	8436	8436	8436
5°	8384	8446	8384	8446
10°	8334	8377	8334	8377
15°	8242	8274	8242	8274
20°	8121	8110	8121	8110
25°	7966	7898	7966	7898
30°	7802	7682	7802	7682
35°	7607	7506	7607	7506
40°	7421	7273	7421	7273
45°	7239	7064	7239	7064
50°	7033	6842	7033	6842
55°	6806	6645	6806	6645
60°	6571	6385	6571	6385
65°	6287	6093	6287	6093
70°	5813	5630	5813	5630
75°	5251	5094	5251	5094
80°	4506	4389	4506	4389
85°	3430	3430	3430	3430



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.3	3.6
10°-20°	243.7	10.2
20°-30°	359.1	15.1
30°-40°	419.3	17.6
40°-50°	422.7	17.8
50°-60°	373.6	15.7
60°-70°	279.4	11.7
70°-80°	154.9	6.5
80°-90°	39.7	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°	689.1	29.0
0°-40°	1108.4	46.6
0°-60°	1904.6	80.1
0°-90°	2378.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2378.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	914	914	914	914	914	
5°	905	912	905	912	905	86
15°	863	866	863	866	863	243
25°	782	776	782	776	782	361
35°	675	666	675	666	675	423
45°	555	541	555	541	555	428
55°	423	413	423	413	423	378
65°	288	279	288	279	288	284
75°	147	143	147	143	147	157
85°	32	32	32	32	32	39
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°	914.3	914.3	914.3	914.3	914.3	914.3	914.3	914.3	914.3	914.3	914.3
2.5°	908.6	913.1	917.6	916.5	913.1	910.8	912.0	912.0	913.1	913.1	913.1
5°	905.3	909.7	913.1	912.0	908.6	907.5	907.5	907.5	909.7	912.0	909.7
7.5°	899.7	903.1	906.4	905.3	901.9	900.8	900.8	901.9	904.2	906.4	904.2
10°	889.6	894.2	897.5	895.3	891.9	889.6	889.6	889.6	891.9	894.2	891.9
12.5°	877.4	880.7	884.1	883.0	879.6	877.4	877.4	877.4	879.6	881.9	879.6
15°	862.9	866.2	869.5	868.4	865.1	862.9	862.9	862.9	865.1	866.2	865.1
17.5°	846.1	849.4	852.9	850.6	846.1	843.9	843.9	843.9	846.1	847.2	846.1
20°	827.1	830.5	832.8	830.5	826.0	823.8	822.7	822.7	824.9	826.0	824.9
22.5°	805.9	808.1	810.4	808.1	803.7	801.5	800.4	799.3	800.4	801.5	800.4
25°	782.5	784.7	786.9	784.7	780.3	776.9	775.8	774.7	775.8	775.8	775.8
27.5°	759.1	760.2	762.4	759.1	754.6	751.2	750.1	749.0	750.1	750.1	750.1
30°	732.3	733.4	735.7	732.3	726.7	723.3	722.2	721.1	721.1	721.1	721.1
32.5°	704.4	706.6	708.8	704.4	698.8	695.5	694.4	693.2	694.4	694.4	694.4
35°	675.4	676.5	678.7	675.4	669.7	666.4	664.2	663.1	665.3	666.4	665.3
37.5°	647.4	648.5	649.6	646.3	640.7	637.4	635.2	634.1	633.0	633.0	633.0
40°	616.2	617.3	619.5	616.2	610.6	607.2	605.0	603.9	603.9	603.9	603.9
42.5°	586.0	587.1	588.2	584.9	579.4	576.0	573.8	572.7	573.8	573.8	573.8
45°	554.8	554.8	555.9	552.6	548.1	544.7	542.5	541.4	541.4	541.4	541.4
47.5°	522.4	523.5	524.6	521.3	516.9	513.5	511.2	509.0	509.0	509.0	509.0
50°	490.0	490.0	491.1	487.8	483.3	480.0	478.9	477.8	476.7	476.7	476.7
52.5°	456.6	457.7	458.8	455.5	452.1	448.7	446.5	445.4	445.4	445.4	445.4
55°	423.1	423.1	424.2	421.9	418.6	415.3	413.1	411.9	413.1	413.1	413.1
57.5°	389.5	390.7	391.9	388.4	385.1	381.8	380.6	379.5	379.5	379.5	379.5
60°	356.1	356.1	357.2	355.0	351.7	348.2	347.1	346.0	346.0	346.0	346.0
62.5°	322.6	322.6	323.7	321.5	318.1	314.8	313.7	312.6	312.6	312.6	312.6
65°	288.0	288.0	288.0	285.7	283.5	282.4	281.3	280.2	279.1	279.1	279.1
67.5°	250.0	250.0	251.2	248.9	246.7	245.6	244.4	243.3	242.2	242.2	242.2
70°	215.5	215.5	216.6	215.5	213.2	212.1	211.0	209.8	208.7	208.7	208.7
72.5°	181.9	181.9	181.9	180.8	179.7	178.6	177.5	176.4	175.3	175.3	175.3
75°	147.3	147.3	148.4	147.3	146.2	145.1	144.0	144.0	142.9	142.9	142.9
77.5°	115.0	116.1	117.2	116.1	115.0	113.9	112.8	112.8	111.7	111.7	111.7
80°	84.8	85.9	87.0	85.9	84.8	83.7	82.6	82.6	82.6	82.6	82.6
82.5°	56.9	58.1	59.2	58.1	56.9	56.9	55.8	55.8	55.8	55.8	55.8
85°	32.4	33.5	34.6	34.6	33.5	33.5	32.4	32.4	32.4	32.4	32.4
87.5°	12.3	13.4	14.5	14.5	13.4	13.4	13.4	13.4	13.4	13.4	13.4
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°	914.3	914.3	914.3	914.3	914.3	914.3	914.3	914.3	914.3	914.3	914.3
2.5°	912.0	912.0	910.8	913.1	916.5	917.6	913.1	908.6	913.1	917.6	916.5
5°	907.5	907.5	907.5	908.6	912.0	913.1	909.7	905.3	909.7	913.1	912.0
7.5°	901.9	900.8	900.8	901.9	905.3	906.4	903.1	899.7	903.1	906.4	905.3
10°	889.6	889.6	889.6	891.9	895.3	897.5	894.2	889.6	894.2	897.5	895.3
12.5°	877.4	877.4	877.4	879.6	883.0	884.1	880.7	877.4	880.7	884.1	883.0
15°	862.9	862.9	862.9	865.1	868.4	869.5	866.2	862.9	866.2	869.5	868.4
17.5°	843.9	843.9	843.9	846.1	850.6	852.9	849.4	846.1	849.4	852.9	850.6
20°	822.7	822.7	823.8	826.0	830.5	832.8	830.5	827.1	830.5	832.8	830.5
22.5°	799.3	800.4	801.5	803.7	808.1	810.4	808.1	805.9	808.1	810.4	808.1
25°	774.7	775.8	776.9	780.3	784.7	786.9	784.7	782.5	784.7	786.9	784.7
27.5°	749.0	750.1	751.2	754.6	759.1	762.4	760.2	759.1	760.2	762.4	759.1
30°	721.1	722.2	723.3	726.7	732.3	735.7	733.4	732.3	733.4	735.7	732.3
32.5°	693.2	694.4	695.5	698.8	704.4	708.8	706.6	704.4	706.6	708.8	704.4
35°	663.1	664.2	666.4	669.7	675.4	678.7	676.5	675.4	676.5	678.7	675.4
37.5°	634.1	635.2	637.4	640.7	646.3	649.6	648.5	647.4	648.5	649.6	646.3
40°	603.9	605.0	607.2	610.6	616.2	619.5	617.3	616.2	617.3	619.5	616.2
42.5°	572.7	573.8	576.0	579.4	584.9	588.2	587.1	586.0	587.1	588.2	584.9
45°	541.4	542.5	544.7	548.1	552.6	555.9	554.8	554.8	554.8	555.9	552.6
47.5°	509.0	511.2	513.5	516.9	521.3	524.6	523.5	522.4	523.5	524.6	521.3
50°	477.8	478.9	480.0	483.3	487.8	491.1	490.0	490.0	490.0	491.1	487.8
52.5°	445.4	446.5	448.7	452.1	455.5	458.8	457.7	456.6	457.7	458.8	455.5
55°	411.9	413.1	415.3	418.6	421.9	424.2	423.1	423.1	423.1	424.2	421.9
57.5°	379.5	380.6	381.8	385.1	388.4	391.9	390.7	389.5	390.7	391.9	388.4
60°	346.0	347.1	348.2	351.7	355.0	357.2	356.1	356.1	356.1	357.2	355.0
62.5°	312.6	313.7	314.8	318.1	321.5	323.7	322.6	322.6	322.6	323.7	321.5
65°	280.2	281.3	282.4	283.5	285.7	288.0	288.0	288.0	288.0	288.0	285.7
67.5°	243.3	244.4	245.6	246.7	248.9	251.2	250.0	250.0	250.0	251.2	248.9
70°	209.8	211.0	212.1	213.2	215.5	216.6	215.5	215.5	215.5	216.6	215.5
72.5°	176.4	177.5	178.6	179.7	180.8	181.9	181.9	181.9	181.9	181.9	180.8
75°	144.0	144.0	145.1	146.2	147.3	148.4	147.3	147.3	147.3	148.4	147.3
77.5°	112.8	112.8	113.9	115.0	116.1	117.2	116.1	115.0	116.1	117.2	116.1
80°	82.6	82.6	83.7	84.8	85.9	87.0	85.9	84.8	85.9	87.0	85.9
82.5°	55.8	55.8	56.9	56.9	58.1	59.2	58.1	56.9	58.1	59.2	58.1
85°	32.4	32.4	33.5	33.5	34.6	34.6	33.5	32.4	33.5	34.6	34.6
87.5°	13.4	13.4	13.4	13.4	14.5	14.5	13.4	12.3	13.4	14.5	14.5
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°	914.3	914.3	914.3	914.3	914.3	914.3	914.3	914.3	914.3	914.3	914.3
2.5°	913.1	910.8	912.0	912.0	913.1	913.1	913.1	912.0	912.0	910.8	913.1
5°	908.6	907.5	907.5	907.5	909.7	912.0	909.7	907.5	907.5	907.5	908.6
7.5°	901.9	900.8	900.8	901.9	904.2	906.4	904.2	901.9	900.8	900.8	901.9
10°	891.9	889.6	889.6	889.6	891.9	894.2	891.9	889.6	889.6	889.6	891.9
12.5°	879.6	877.4	877.4	877.4	879.6	881.9	879.6	877.4	877.4	877.4	879.6
15°	865.1	862.9	862.9	862.9	865.1	866.2	865.1	862.9	862.9	862.9	865.1
17.5°	846.1	843.9	843.9	843.9	846.1	847.2	846.1	843.9	843.9	843.9	846.1
20°	826.0	823.8	822.7	822.7	824.9	826.0	824.9	822.7	822.7	823.8	826.0
22.5°	803.7	801.5	800.4	799.3	800.4	801.5	800.4	799.3	800.4	801.5	803.7
25°	780.3	776.9	775.8	774.7	775.8	775.8	775.8	774.7	775.8	776.9	780.3
27.5°	754.6	751.2	750.1	749.0	750.1	750.1	750.1	749.0	750.1	751.2	754.6
30°	726.7	723.3	722.2	721.1	721.1	721.1	721.1	721.1	722.2	723.3	726.7
32.5°	698.8	695.5	694.4	693.2	694.4	694.4	694.4	693.2	694.4	695.5	698.8
35°	669.7	666.4	664.2	663.1	665.3	666.4	665.3	663.1	664.2	666.4	669.7
37.5°	640.7	637.4	635.2	634.1	633.0	633.0	633.0	634.1	635.2	637.4	640.7
40°	610.6	607.2	605.0	603.9	603.9	603.9	603.9	603.9	605.0	607.2	610.6
42.5°	579.4	576.0	573.8	572.7	573.8	573.8	573.8	572.7	573.8	576.0	579.4
45°	548.1	544.7	542.5	541.4	541.4	541.4	541.4	541.4	542.5	544.7	548.1
47.5°	516.9	513.5	511.2	509.0	509.0	509.0	509.0	509.0	511.2	513.5	516.9
50°	483.3	480.0	478.9	477.8	476.7	476.7	476.7	477.8	478.9	480.0	483.3
52.5°	452.1	448.7	446.5	445.4	445.4	445.4	445.4	446.5	448.7	452.1	
55°	418.6	415.3	413.1	411.9	413.1	413.1	413.1	411.9	413.1	415.3	418.6
57.5°	385.1	381.8	380.6	379.5	379.5	379.5	379.5	379.5	380.6	381.8	385.1
60°	351.7	348.2	347.1	346.0	346.0	346.0	346.0	346.0	347.1	348.2	351.7
62.5°	318.1	314.8	313.7	312.6	312.6	312.6	312.6	312.6	313.7	314.8	318.1
65°	283.5	282.4	281.3	280.2	279.1	279.1	279.1	280.2	281.3	282.4	283.5
67.5°	246.7	245.6	244.4	243.3	242.2	242.2	242.2	243.3	244.4	245.6	246.7
70°	213.2	212.1	211.0	209.8	208.7	208.7	208.7	209.8	211.0	212.1	213.2
72.5°	179.7	178.6	177.5	176.4	175.3	175.3	175.3	176.4	177.5	178.6	179.7
75°	146.2	145.1	144.0	144.0	142.9	142.9	142.9	144.0	144.0	145.1	146.2
77.5°	115.0	113.9	112.8	112.8	111.7	111.7	111.7	112.8	112.8	113.9	115.0
80°	84.8	83.7	82.6	82.6	82.6	82.6	82.6	82.6	82.6	83.7	84.8
82.5°	56.9	56.9	55.8	55.8	55.8	55.8	55.8	55.8	55.8	56.9	56.9
85°	33.5	33.5	32.4	32.4	32.4	32.4	32.4	32.4	32.4	33.5	33.5
87.5°	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4
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°	914.3	914.3	914.3	914.3
2.5°	916.5	917.6	913.1	908.6
5°	912.0	913.1	909.7	905.3
7.5°	905.3	906.4	903.1	899.7
10°	895.3	897.5	894.2	889.6
12.5°	883.0	884.1	880.7	877.4
15°	868.4	869.5	866.2	862.9
17.5°	850.6	852.9	849.4	846.1
20°	830.5	832.8	830.5	827.1
22.5°	808.1	810.4	808.1	805.9
25°	784.7	786.9	784.7	782.5
27.5°	759.1	762.4	760.2	759.1
30°	732.3	735.7	733.4	732.3
32.5°	704.4	708.8	706.6	704.4
35°	675.4	678.7	676.5	675.4
37.5°	646.3	649.6	648.5	647.4
40°	616.2	619.5	617.3	616.2
42.5°	584.9	588.2	587.1	586.0
45°	552.6	555.9	554.8	554.8
47.5°	521.3	524.6	523.5	522.4
50°	487.8	491.1	490.0	490.0
52.5°	455.5	458.8	457.7	456.6
55°	421.9	424.2	423.1	423.1
57.5°	388.4	391.9	390.7	389.5
60°	355.0	357.2	356.1	356.1
62.5°	321.5	323.7	322.6	322.6
65°	285.7	288.0	288.0	288.0
67.5°	248.9	251.2	250.0	250.0
70°	215.5	216.6	215.5	215.5
72.5°	180.8	181.9	181.9	181.9
75°	147.3	148.4	147.3	147.3
77.5°	116.1	117.2	116.1	115.0
80°	85.9	87.0	85.9	84.8
82.5°	58.1	59.2	58.1	56.9
85°	34.6	34.6	33.5	32.4
87.5°	14.5	14.5	13.4	12.3
90°	0.0	0.0	0.0	0.0

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