

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: P709100

Luminaire Tested: **4APN-X-26L940-UNV**

Issue Date: 09/12/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P709100  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 09/12/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 4APN-X-26L940-UNV  
Description: ArcMed Patient Recessed 4 FT x6 IN Fixture EXAM Light  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

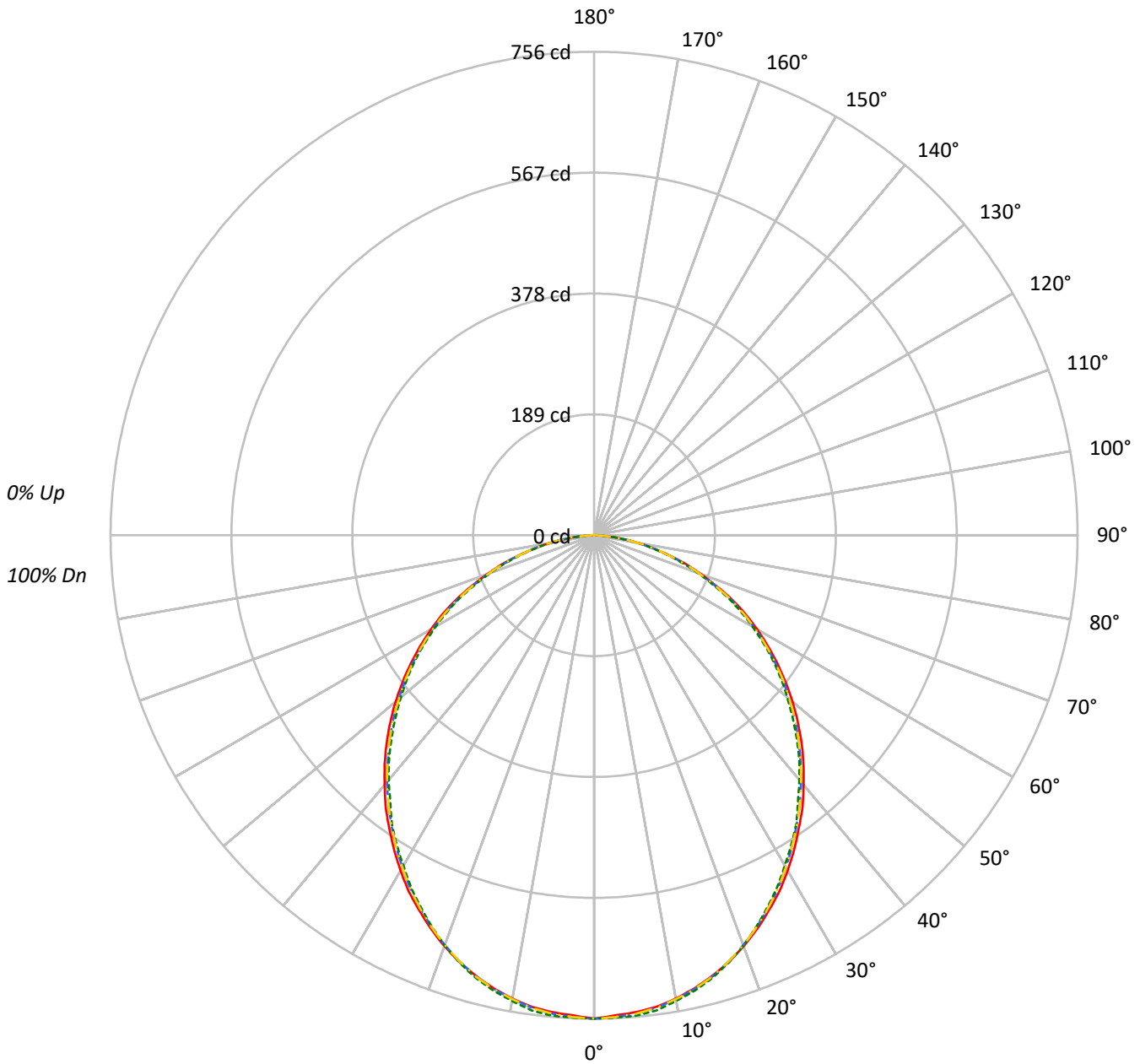
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1966.8 lumens  
Efficiency: N/A  
Efficacy: 69.7 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 (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



— 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°	6975	6975	6975	6975
5°	6933	6984	6933	6984
10°	6892	6927	6892	6927
15°	6815	6842	6815	6842
20°	6716	6706	6716	6706
25°	6586	6530	6586	6530
30°	6451	6353	6451	6353
35°	6289	6207	6289	6207
40°	6136	6015	6136	6015
45°	5985	5842	5985	5842
50°	5816	5657	5816	5657
55°	5627	5493	5627	5493
60°	5432	5279	5432	5279
65°	5198	5039	5198	5039
70°	4804	4656	4804	4656
75°	4342	4210	4342	4210
80°	3730	3629	3730	3629
85°	2837	2837	2837	2837



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.3	3.6
10°-20°	201.5	10.2
20°-30°	297.0	15.1
30°-40°	346.7	17.6
40°-50°	349.5	17.8
50°-60°	308.9	15.7
60°-70°	231.0	11.7
70°-80°	128.0	6.5
80°-90°	32.8	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°	569.8	29.0
0°-40°	916.5	46.6
0°-60°	1574.9	80.1
0°-90°	1966.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1966.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	756	756	756	756	756	
5°	749	754	749	754	749	71
15°	714	716	714	716	714	201
25°	647	642	647	642	647	298
35°	558	551	558	551	558	350
45°	459	448	459	448	459	354
55°	350	342	350	342	350	313
65°	238	231	238	231	238	234
75°	122	118	122	118	122	130
85°	27	27	27	27	27	32
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°	756.0	756.0	756.0	756.0	756.0	756.0	756.0	756.0	756.0	756.0	756.0
2.5°	751.4	755.0	758.7	757.8	755.0	753.2	754.1	754.1	755.0	755.0	755.0
5°	748.6	752.3	755.0	754.1	751.4	750.4	750.4	750.4	752.3	754.1	752.3
7.5°	744.0	746.7	749.5	748.6	745.8	744.9	744.9	745.8	747.7	749.5	747.7
10°	735.7	739.4	742.1	740.3	737.5	735.7	735.7	735.7	737.5	739.4	737.5
12.5°	725.5	728.3	731.0	730.1	727.4	725.5	725.5	725.5	727.4	729.2	727.4
15°	713.5	716.3	719.0	718.1	715.4	713.5	713.5	713.5	715.4	716.3	715.4
17.5°	699.7	702.4	705.2	703.4	699.7	697.8	697.8	697.8	699.7	700.6	699.7
20°	684.0	686.7	688.6	686.7	683.0	681.2	680.3	680.3	682.1	683.0	682.1
22.5°	666.4	668.3	670.1	668.3	664.6	662.7	661.8	660.9	661.8	662.7	661.8
25°	647.0	648.9	650.7	648.9	645.2	642.4	641.5	640.6	641.5	641.5	641.5
27.5°	627.7	628.6	630.4	627.7	624.0	621.2	620.3	619.4	620.3	620.3	620.3
30°	605.5	606.4	608.3	605.5	600.9	598.1	597.2	596.3	596.3	596.3	596.3
32.5°	582.4	584.3	586.1	582.4	577.8	575.1	574.1	573.2	574.1	574.1	574.1
35°	558.4	559.4	561.2	558.4	553.8	551.1	549.2	548.3	550.1	551.1	550.1
37.5°	535.4	536.3	537.2	534.4	529.8	527.1	525.2	524.3	523.4	523.4	523.4
40°	509.5	510.4	512.3	509.5	504.9	502.1	500.3	499.4	499.4	499.4	499.4
42.5°	484.6	485.5	486.4	483.7	479.1	476.3	474.4	473.5	474.4	474.4	474.4
45°	458.7	458.7	459.7	456.9	453.2	450.4	448.6	447.7	447.7	447.7	447.7
47.5°	432.0	432.9	433.8	431.1	427.4	424.6	422.8	420.9	420.9	420.9	420.9
50°	405.2	405.2	406.1	403.4	399.7	396.9	396.0	395.1	394.1	394.1	394.1
52.5°	377.5	378.4	379.4	376.6	373.8	371.1	369.2	368.3	368.3	368.3	368.3
55°	349.8	349.8	350.8	348.9	346.1	343.4	341.5	340.6	341.5	341.5	341.5
57.5°	322.1	323.1	324.0	321.2	318.4	315.7	314.8	313.8	313.8	313.8	313.8
60°	294.4	294.4	295.4	293.5	290.8	288.0	287.1	286.1	286.1	286.1	286.1
62.5°	266.8	266.8	267.7	265.8	263.1	260.3	259.4	258.5	258.5	258.5	258.5
65°	238.1	238.1	238.1	236.3	234.5	233.5	232.6	231.7	230.8	230.8	230.8
67.5°	206.8	206.8	207.7	205.8	204.0	203.1	202.1	201.2	200.3	200.3	200.3
70°	178.1	178.1	179.1	178.1	176.3	175.4	174.5	173.5	172.6	172.6	172.6
72.5°	150.5	150.5	150.5	149.5	148.6	147.7	146.8	145.8	144.9	144.9	144.9
75°	121.8	121.8	122.8	121.8	120.9	120.0	119.1	119.1	118.1	118.1	118.1
77.5°	95.1	96.0	96.9	96.0	95.1	94.1	93.2	93.2	92.3	92.3	92.3
80°	70.2	71.1	72.0	71.1	70.2	69.2	68.3	68.3	68.3	68.3	68.3
82.5°	47.1	48.0	48.9	48.0	47.1	47.1	46.2	46.2	46.2	46.2	46.2
85°	26.8	27.7	28.6	28.6	27.7	27.7	26.8	26.8	26.8	26.8	26.8
87.5°	10.2	11.1	12.0	12.0	11.1	11.1	11.1	11.1	11.1	11.1	11.1
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):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	756.0	756.0	756.0	756.0	756.0	756.0	756.0	756.0	756.0	756.0	756.0
2.5°	754.1	754.1	753.2	755.0	757.8	758.7	755.0	751.4	755.0	758.7	757.8
5°	750.4	750.4	750.4	751.4	754.1	755.0	752.3	748.6	752.3	755.0	754.1
7.5°	745.8	744.9	744.9	745.8	748.6	749.5	746.7	744.0	746.7	749.5	748.6
10°	735.7	735.7	735.7	737.5	740.3	742.1	739.4	735.7	739.4	742.1	740.3
12.5°	725.5	725.5	725.5	727.4	730.1	731.0	728.3	725.5	728.3	731.0	730.1
15°	713.5	713.5	713.5	715.4	718.1	719.0	716.3	713.5	716.3	719.0	718.1
17.5°	697.8	697.8	697.8	699.7	703.4	705.2	702.4	699.7	702.4	705.2	703.4
20°	680.3	680.3	681.2	683.0	686.7	688.6	686.7	684.0	686.7	688.6	686.7
22.5°	660.9	661.8	662.7	664.6	668.3	670.1	668.3	666.4	668.3	670.1	668.3
25°	640.6	641.5	642.4	645.2	648.9	650.7	648.9	647.0	648.9	650.7	648.9
27.5°	619.4	620.3	621.2	624.0	627.7	630.4	628.6	627.7	628.6	630.4	627.7
30°	596.3	597.2	598.1	600.9	605.5	608.3	606.4	605.5	606.4	608.3	605.5
32.5°	573.2	574.1	575.1	577.8	582.4	586.1	584.3	582.4	584.3	586.1	582.4
35°	548.3	549.2	551.1	553.8	558.4	561.2	559.4	558.4	559.4	561.2	558.4
37.5°	524.3	525.2	527.1	529.8	534.4	537.2	536.3	535.4	536.3	537.2	534.4
40°	499.4	500.3	502.1	504.9	509.5	512.3	510.4	509.5	510.4	512.3	509.5
42.5°	473.5	474.4	476.3	479.1	483.7	486.4	485.5	484.6	485.5	486.4	483.7
45°	447.7	448.6	450.4	453.2	456.9	459.7	458.7	458.7	458.7	459.7	456.9
47.5°	420.9	422.8	424.6	427.4	431.1	433.8	432.9	432.0	432.9	433.8	431.1
50°	395.1	396.0	396.9	399.7	403.4	406.1	405.2	405.2	405.2	406.1	403.4
52.5°	368.3	369.2	371.1	373.8	376.6	379.4	378.4	377.5	378.4	379.4	376.6
55°	340.6	341.5	343.4	346.1	348.9	350.8	349.8	349.8	349.8	350.8	348.9
57.5°	313.8	314.8	315.7	318.4	321.2	324.0	323.1	322.1	323.1	324.0	321.2
60°	286.1	287.1	288.0	290.8	293.5	295.4	294.4	294.4	294.4	295.4	293.5
62.5°	258.5	259.4	260.3	263.1	265.8	267.7	266.8	266.8	266.8	267.7	265.8
65°	231.7	232.6	233.5	234.5	236.3	238.1	238.1	238.1	238.1	238.1	236.3
67.5°	201.2	202.1	203.1	204.0	205.8	207.7	206.8	206.8	206.8	207.7	205.8
70°	173.5	174.5	175.4	176.3	178.1	179.1	178.1	178.1	178.1	179.1	178.1
72.5°	145.8	146.8	147.7	148.6	149.5	150.5	150.5	150.5	150.5	150.5	149.5
75°	119.1	119.1	120.0	120.9	121.8	122.8	121.8	121.8	121.8	122.8	121.8
77.5°	93.2	93.2	94.1	95.1	96.0	96.9	96.0	95.1	96.0	96.9	96.0
80°	68.3	68.3	69.2	70.2	71.1	72.0	71.1	70.2	71.1	72.0	71.1
82.5°	46.2	46.2	47.1	47.1	48.0	48.9	48.0	47.1	48.0	48.9	48.0
85°	26.8	26.8	27.7	27.7	28.6	28.6	27.7	26.8	27.7	28.6	28.6
87.5°	11.1	11.1	11.1	11.1	12.0	12.0	11.1	10.2	11.1	12.0	12.0
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):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	756.0	756.0	756.0	756.0	756.0	756.0	756.0	756.0	756.0	756.0	756.0
2.5°	755.0	753.2	754.1	754.1	755.0	755.0	755.0	754.1	754.1	753.2	755.0
5°	751.4	750.4	750.4	750.4	752.3	754.1	752.3	750.4	750.4	750.4	751.4
7.5°	745.8	744.9	744.9	745.8	747.7	749.5	747.7	745.8	744.9	744.9	745.8
10°	737.5	735.7	735.7	735.7	737.5	739.4	737.5	735.7	735.7	735.7	737.5
12.5°	727.4	725.5	725.5	725.5	727.4	729.2	727.4	725.5	725.5	725.5	727.4
15°	715.4	713.5	713.5	713.5	715.4	716.3	715.4	713.5	713.5	713.5	715.4
17.5°	699.7	697.8	697.8	697.8	699.7	700.6	699.7	697.8	697.8	697.8	699.7
20°	683.0	681.2	680.3	680.3	682.1	683.0	682.1	680.3	680.3	681.2	683.0
22.5°	664.6	662.7	661.8	660.9	661.8	662.7	661.8	660.9	661.8	662.7	664.6
25°	645.2	642.4	641.5	640.6	641.5	641.5	641.5	640.6	641.5	642.4	645.2
27.5°	624.0	621.2	620.3	619.4	620.3	620.3	620.3	619.4	620.3	621.2	624.0
30°	600.9	598.1	597.2	596.3	596.3	596.3	596.3	596.3	597.2	598.1	600.9
32.5°	577.8	575.1	574.1	573.2	574.1	574.1	574.1	573.2	574.1	575.1	577.8
35°	553.8	551.1	549.2	548.3	550.1	551.1	550.1	548.3	549.2	551.1	553.8
37.5°	529.8	527.1	525.2	524.3	523.4	523.4	523.4	524.3	525.2	527.1	529.8
40°	504.9	502.1	500.3	499.4	499.4	499.4	499.4	499.4	500.3	502.1	504.9
42.5°	479.1	476.3	474.4	473.5	474.4	474.4	474.4	473.5	474.4	476.3	479.1
45°	453.2	450.4	448.6	447.7	447.7	447.7	447.7	447.7	448.6	450.4	453.2
47.5°	427.4	424.6	422.8	420.9	420.9	420.9	420.9	420.9	422.8	424.6	427.4
50°	399.7	396.9	396.0	395.1	394.1	394.1	394.1	395.1	396.0	396.9	399.7
52.5°	373.8	371.1	369.2	368.3	368.3	368.3	368.3	368.3	369.2	371.1	373.8
55°	346.1	343.4	341.5	340.6	341.5	341.5	341.5	340.6	341.5	343.4	346.1
57.5°	318.4	315.7	314.8	313.8	313.8	313.8	313.8	313.8	314.8	315.7	318.4
60°	290.8	288.0	287.1	286.1	286.1	286.1	286.1	286.1	287.1	288.0	290.8
62.5°	263.1	260.3	259.4	258.5	258.5	258.5	258.5	258.5	259.4	260.3	263.1
65°	234.5	233.5	232.6	231.7	230.8	230.8	230.8	231.7	232.6	233.5	234.5
67.5°	204.0	203.1	202.1	201.2	200.3	200.3	200.3	201.2	202.1	203.1	204.0
70°	176.3	175.4	174.5	173.5	172.6	172.6	172.6	173.5	174.5	175.4	176.3
72.5°	148.6	147.7	146.8	145.8	144.9	144.9	144.9	145.8	146.8	147.7	148.6
75°	120.9	120.0	119.1	119.1	118.1	118.1	118.1	119.1	119.1	120.0	120.9
77.5°	95.1	94.1	93.2	93.2	92.3	92.3	92.3	93.2	93.2	94.1	95.1
80°	70.2	69.2	68.3	68.3	68.3	68.3	68.3	68.3	68.3	69.2	70.2
82.5°	47.1	47.1	46.2	46.2	46.2	46.2	46.2	46.2	46.2	47.1	47.1
85°	27.7	27.7	26.8	26.8	26.8	26.8	26.8	26.8	26.8	27.7	27.7
87.5°	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
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: P709100  
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**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	756.0	756.0	756.0	756.0
2.5°	757.8	758.7	755.0	751.4
5°	754.1	755.0	752.3	748.6
7.5°	748.6	749.5	746.7	744.0
10°	740.3	742.1	739.4	735.7
12.5°	730.1	731.0	728.3	725.5
15°	718.1	719.0	716.3	713.5
17.5°	703.4	705.2	702.4	699.7
20°	686.7	688.6	686.7	684.0
22.5°	668.3	670.1	668.3	666.4
25°	648.9	650.7	648.9	647.0
27.5°	627.7	630.4	628.6	627.7
30°	605.5	608.3	606.4	605.5
32.5°	582.4	586.1	584.3	582.4
35°	558.4	561.2	559.4	558.4
37.5°	534.4	537.2	536.3	535.4
40°	509.5	512.3	510.4	509.5
42.5°	483.7	486.4	485.5	484.6
45°	456.9	459.7	458.7	458.7
47.5°	431.1	433.8	432.9	432.0
50°	403.4	406.1	405.2	405.2
52.5°	376.6	379.4	378.4	377.5
55°	348.9	350.8	349.8	349.8
57.5°	321.2	324.0	323.1	322.1
60°	293.5	295.4	294.4	294.4
62.5°	265.8	267.7	266.8	266.8
65°	236.3	238.1	238.1	238.1
67.5°	205.8	207.7	206.8	206.8
70°	178.1	179.1	178.1	178.1
72.5°	149.5	150.5	150.5	150.5
75°	121.8	122.8	121.8	121.8
77.5°	96.0	96.9	96.0	95.1
80°	71.1	72.0	71.1	70.2
82.5°	48.0	48.9	48.0	47.1
85°	28.6	28.6	27.7	26.8
87.5°	12.0	12.0	11.1	10.2
90°	0.0	0.0	0.0	0.0

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