

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-26L835-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-26L835-UNV-NP  
Description: ArcMed Patient Recessed 4 FT x6 IN Fixture EXAM Light w/ Nature Pattern Lens  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

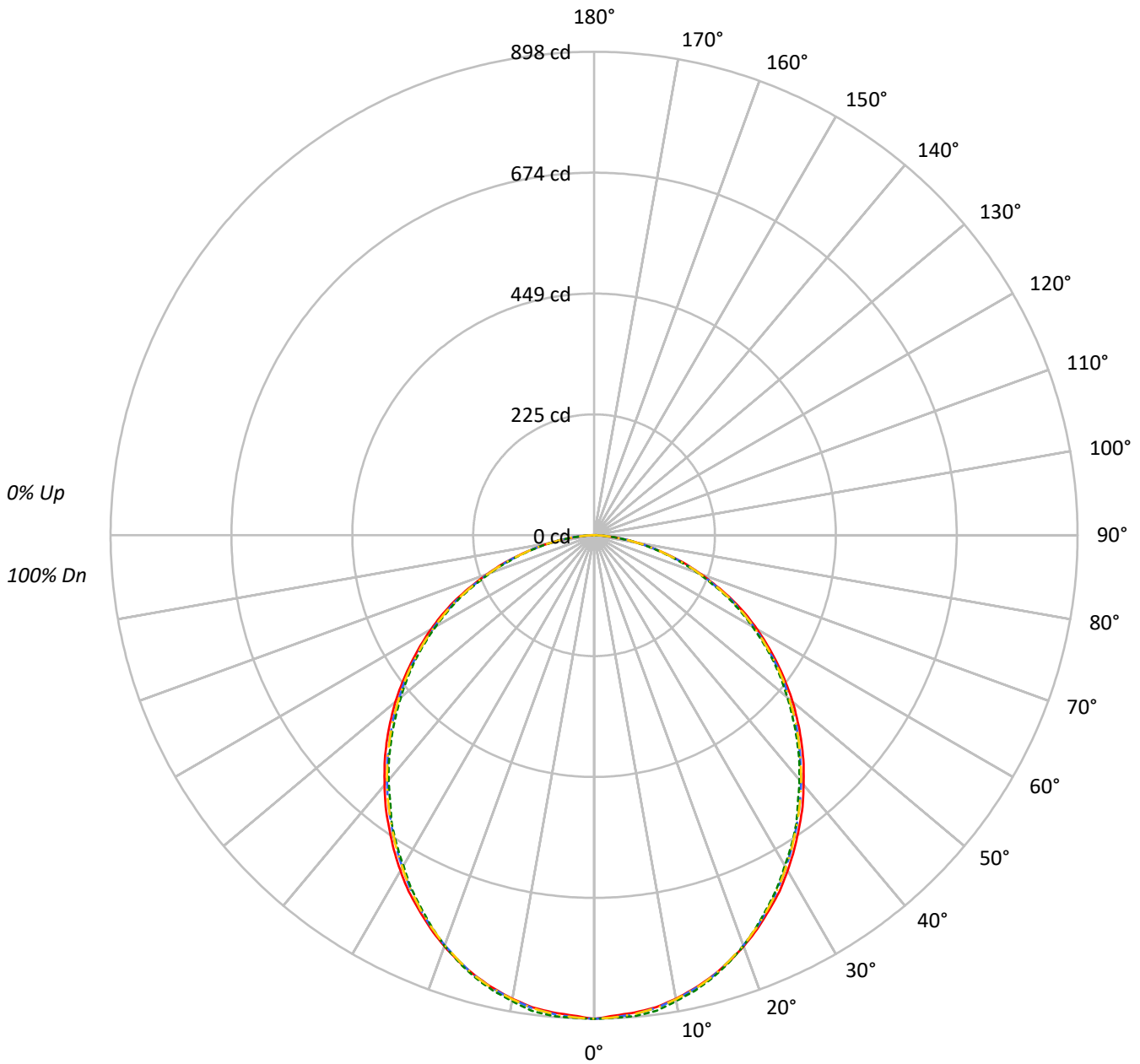
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2337.0 lumens  
Efficiency: N/A  
Efficacy: 82.9 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°	8287	8287	8287	8287
5°	8238	8298	8238	8298
10°	8189	8230	8189	8230
15°	8098	8129	8098	8129
20°	7979	7968	7979	7968
25°	7826	7759	7826	7759
30°	7664	7548	7664	7548
35°	7474	7374	7474	7374
40°	7291	7146	7291	7146
45°	7112	6940	7112	6940
50°	6911	6722	6911	6722
55°	6685	6527	6685	6527
60°	6456	6272	6456	6272
65°	6178	5986	6178	5986
70°	5711	5533	5711	5533
75°	5162	5005	5162	5005
80°	4426	4309	4426	4309
85°	3366	3366	3366	3366



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.8	3.6
10°-20°	239.4	10.2
20°-30°	352.9	15.1
30°-40°	411.9	17.6
40°-50°	415.3	17.8
50°-60°	367.0	15.7
60°-70°	274.5	11.7
70°-80°	152.1	6.5
80°-90°	39.0	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°	677.0	29.0
0°-40°	1089.0	46.6
0°-60°	1871.3	80.1
0°-90°	2337.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2337.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	898	898	898	898	898	
5°	890	896	890	896	890	84
15°	848	851	848	851	848	239
25°	769	762	769	762	769	354
35°	664	655	664	655	664	415
45°	545	532	545	532	545	420
55°	416	406	416	406	416	372
65°	283	274	283	274	283	279
75°	145	140	145	140	145	154
85°	32	32	32	32	32	38
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°	898.2	898.2	898.2	898.2	898.2	898.2	898.2	898.2	898.2	898.2	898.2
2.5°	892.8	897.1	901.5	900.4	897.1	894.9	896.0	896.0	897.1	897.1	897.1
5°	889.5	893.9	897.1	896.0	892.8	891.7	891.7	891.7	893.9	896.0	893.9
7.5°	883.9	887.2	890.6	889.5	886.1	885.0	885.0	886.1	888.3	890.6	888.3
10°	874.1	878.5	881.8	879.6	876.3	874.1	874.1	874.1	876.3	878.5	876.3
12.5°	862.1	865.3	868.6	867.5	864.2	862.1	862.1	862.1	864.2	866.4	864.2
15°	847.8	851.1	854.3	853.2	850.0	847.8	847.8	847.8	850.0	851.1	850.0
17.5°	831.4	834.6	837.9	835.7	831.4	829.2	829.2	829.2	831.4	832.4	831.4
20°	812.7	816.0	818.2	816.0	811.5	809.4	808.3	808.3	810.4	811.5	810.4
22.5°	791.8	794.0	796.2	794.0	789.6	787.5	786.4	785.3	786.4	787.5	786.4
25°	768.8	771.0	773.2	771.0	766.6	763.3	762.2	761.1	762.2	762.2	762.2
27.5°	745.8	746.9	749.0	745.8	741.4	738.1	737.0	735.9	737.0	737.0	737.0
30°	719.4	720.5	722.8	719.4	714.0	710.7	709.6	708.5	708.5	708.5	708.5
32.5°	692.1	694.3	696.4	692.1	686.5	683.3	682.2	681.1	682.2	682.2	682.2
35°	663.6	664.6	666.8	663.6	658.0	654.7	652.6	651.5	653.6	654.7	653.6
37.5°	636.1	637.2	638.3	635.0	629.5	626.2	624.0	622.9	621.9	621.9	621.9
40°	605.4	606.5	608.7	605.4	599.9	596.6	594.4	593.3	593.3	593.3	593.3
42.5°	575.8	576.9	578.0	574.7	569.2	565.9	563.7	562.6	563.7	563.7	563.7
45°	545.1	545.1	546.2	542.9	538.5	535.2	533.0	531.9	531.9	531.9	531.9
47.5°	513.3	514.4	515.5	512.2	507.7	504.5	502.3	500.1	500.1	500.1	500.1
50°	481.5	481.5	482.6	479.3	474.9	471.6	470.5	469.4	468.3	468.3	468.3
52.5°	448.6	449.7	450.8	447.4	444.2	440.9	438.7	437.6	437.6	437.6	437.6
55°	415.6	415.6	416.7	414.5	411.3	408.0	405.8	404.7	405.8	405.8	405.8
57.5°	382.7	383.8	384.9	381.7	378.4	375.1	374.0	372.9	372.9	372.9	372.9
60°	349.9	349.9	350.9	348.8	345.5	342.2	341.0	339.9	339.9	339.9	339.9
62.5°	317.0	317.0	318.1	315.9	312.6	309.2	308.2	307.1	307.1	307.1	307.1
65°	283.0	283.0	283.0	280.7	278.5	277.4	276.4	275.3	274.2	274.2	274.2
67.5°	245.7	245.7	246.7	244.6	242.4	241.3	240.2	239.1	238.0	238.0	238.0
70°	211.7	211.7	212.8	211.7	209.5	208.4	207.3	206.2	205.1	205.1	205.1
72.5°	178.8	178.8	178.8	177.7	176.6	175.5	174.4	173.2	172.2	172.2	172.2
75°	144.8	144.8	145.9	144.8	143.6	142.5	141.4	141.4	140.4	140.4	140.4
77.5°	112.9	114.1	115.2	114.1	112.9	111.8	110.7	110.7	109.7	109.7	109.7
80°	83.3	84.5	85.6	84.5	83.3	82.2	81.1	81.1	81.1	81.1	81.1
82.5°	56.0	57.1	58.1	57.1	56.0	56.0	54.9	54.9	54.9	54.9	54.9
85°	31.8	32.9	34.0	34.0	32.9	32.9	31.8	31.8	31.8	31.8	31.8
87.5°	12.1	13.2	14.3	14.3	13.2	13.2	13.2	13.2	13.2	13.2	13.2
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°	898.2	898.2	898.2	898.2	898.2	898.2	898.2	898.2	898.2	898.2	898.2
2.5°	896.0	896.0	894.9	897.1	900.4	901.5	897.1	892.8	897.1	901.5	900.4
5°	891.7	891.7	891.7	892.8	896.0	897.1	893.9	889.5	893.9	897.1	896.0
7.5°	886.1	885.0	885.0	886.1	889.5	890.6	887.2	883.9	887.2	890.6	889.5
10°	874.1	874.1	874.1	876.3	879.6	881.8	878.5	874.1	878.5	881.8	879.6
12.5°	862.1	862.1	862.1	864.2	867.5	868.6	865.3	862.1	865.3	868.6	867.5
15°	847.8	847.8	847.8	850.0	853.2	854.3	851.1	847.8	851.1	854.3	853.2
17.5°	829.2	829.2	829.2	831.4	835.7	837.9	834.6	831.4	834.6	837.9	835.7
20°	808.3	808.3	809.4	811.5	816.0	818.2	816.0	812.7	816.0	818.2	816.0
22.5°	785.3	786.4	787.5	789.6	794.0	796.2	794.0	791.8	794.0	796.2	794.0
25°	761.1	762.2	763.3	766.6	771.0	773.2	771.0	768.8	771.0	773.2	771.0
27.5°	735.9	737.0	738.1	741.4	745.8	749.0	746.9	745.8	746.9	749.0	745.8
30°	708.5	709.6	710.7	714.0	719.4	722.8	720.5	719.4	720.5	722.8	719.4
32.5°	681.1	682.2	683.3	686.5	692.1	696.4	694.3	692.1	694.3	696.4	692.1
35°	651.5	652.6	654.7	658.0	663.6	666.8	664.6	663.6	664.6	666.8	663.6
37.5°	622.9	624.0	626.2	629.5	635.0	638.3	637.2	636.1	637.2	638.3	635.0
40°	593.3	594.4	596.6	599.9	605.4	608.7	606.5	605.4	606.5	608.7	605.4
42.5°	562.6	563.7	565.9	569.2	574.7	578.0	576.9	575.8	576.9	578.0	574.7
45°	531.9	533.0	535.2	538.5	542.9	546.2	545.1	545.1	545.1	546.2	542.9
47.5°	500.1	502.3	504.5	507.7	512.2	515.5	514.4	513.3	514.4	515.5	512.2
50°	469.4	470.5	471.6	474.9	479.3	482.6	481.5	481.5	481.5	482.6	479.3
52.5°	437.6	438.7	440.9	444.2	447.4	450.8	449.7	448.6	449.7	450.8	447.4
55°	404.7	405.8	408.0	411.3	414.5	416.7	415.6	415.6	415.6	416.7	414.5
57.5°	372.9	374.0	375.1	378.4	381.7	384.9	383.8	382.7	383.8	384.9	381.7
60°	339.9	341.0	342.2	345.5	348.8	350.9	349.9	349.9	349.9	350.9	348.8
62.5°	307.1	308.2	309.2	312.6	315.9	318.1	317.0	317.0	317.0	318.1	315.9
65°	275.3	276.4	277.4	278.5	280.7	283.0	283.0	283.0	283.0	283.0	280.7
67.5°	239.1	240.2	241.3	242.4	244.6	246.7	245.7	245.7	245.7	246.7	244.6
70°	206.2	207.3	208.4	209.5	211.7	212.8	211.7	211.7	211.7	212.8	211.7
72.5°	173.2	174.4	175.5	176.6	177.7	178.8	178.8	178.8	178.8	178.8	177.7
75°	141.4	141.4	142.5	143.6	144.8	145.9	144.8	144.8	144.8	145.9	144.8
77.5°	110.7	110.7	111.8	112.9	114.1	115.2	114.1	112.9	114.1	115.2	114.1
80°	81.1	81.1	82.2	83.3	84.5	85.6	84.5	83.3	84.5	85.6	84.5
82.5°	54.9	54.9	56.0	56.0	57.1	58.1	57.1	56.0	57.1	58.1	57.1
85°	31.8	31.8	32.9	32.9	34.0	34.0	32.9	31.8	32.9	34.0	34.0
87.5°	13.2	13.2	13.2	13.2	14.3	14.3	13.2	12.1	13.2	14.3	14.3
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°	898.2	898.2	898.2	898.2	898.2	898.2	898.2	898.2	898.2	898.2	898.2
2.5°	897.1	894.9	896.0	896.0	897.1	897.1	897.1	896.0	896.0	894.9	897.1
5°	892.8	891.7	891.7	891.7	893.9	896.0	893.9	891.7	891.7	891.7	892.8
7.5°	886.1	885.0	885.0	886.1	888.3	890.6	888.3	886.1	885.0	885.0	886.1
10°	876.3	874.1	874.1	874.1	876.3	878.5	876.3	874.1	874.1	874.1	876.3
12.5°	864.2	862.1	862.1	862.1	864.2	866.4	864.2	862.1	862.1	862.1	864.2
15°	850.0	847.8	847.8	847.8	850.0	851.1	850.0	847.8	847.8	847.8	850.0
17.5°	831.4	829.2	829.2	829.2	831.4	832.4	831.4	829.2	829.2	829.2	831.4
20°	811.5	809.4	808.3	808.3	810.4	811.5	810.4	808.3	808.3	809.4	811.5
22.5°	789.6	787.5	786.4	785.3	786.4	787.5	786.4	785.3	786.4	787.5	789.6
25°	766.6	763.3	762.2	761.1	762.2	762.2	762.2	761.1	762.2	763.3	766.6
27.5°	741.4	738.1	737.0	735.9	737.0	737.0	737.0	735.9	737.0	738.1	741.4
30°	714.0	710.7	709.6	708.5	708.5	708.5	708.5	708.5	709.6	710.7	714.0
32.5°	686.5	683.3	682.2	681.1	682.2	682.2	682.2	681.1	682.2	683.3	686.5
35°	658.0	654.7	652.6	651.5	653.6	654.7	653.6	651.5	652.6	654.7	658.0
37.5°	629.5	626.2	624.0	622.9	621.9	621.9	621.9	622.9	624.0	626.2	629.5
40°	599.9	596.6	594.4	593.3	593.3	593.3	593.3	593.3	594.4	596.6	599.9
42.5°	569.2	565.9	563.7	562.6	563.7	563.7	563.7	562.6	563.7	565.9	569.2
45°	538.5	535.2	533.0	531.9	531.9	531.9	531.9	531.9	533.0	535.2	538.5
47.5°	507.7	504.5	502.3	500.1	500.1	500.1	500.1	500.1	502.3	504.5	507.7
50°	474.9	471.6	470.5	469.4	468.3	468.3	468.3	469.4	470.5	471.6	474.9
52.5°	444.2	440.9	438.7	437.6	437.6	437.6	437.6	437.6	438.7	440.9	444.2
55°	411.3	408.0	405.8	404.7	405.8	405.8	405.8	404.7	405.8	408.0	411.3
57.5°	378.4	375.1	374.0	372.9	372.9	372.9	372.9	372.9	374.0	375.1	378.4
60°	345.5	342.2	341.0	339.9	339.9	339.9	339.9	339.9	341.0	342.2	345.5
62.5°	312.6	309.2	308.2	307.1	307.1	307.1	307.1	307.1	308.2	309.2	312.6
65°	278.5	277.4	276.4	275.3	274.2	274.2	274.2	275.3	276.4	277.4	278.5
67.5°	242.4	241.3	240.2	239.1	238.0	238.0	238.0	239.1	240.2	241.3	242.4
70°	209.5	208.4	207.3	206.2	205.1	205.1	205.1	206.2	207.3	208.4	209.5
72.5°	176.6	175.5	174.4	173.2	172.2	172.2	172.2	173.2	174.4	175.5	176.6
75°	143.6	142.5	141.4	141.4	140.4	140.4	140.4	141.4	141.4	142.5	143.6
77.5°	112.9	111.8	110.7	110.7	109.7	109.7	109.7	110.7	110.7	111.8	112.9
80°	83.3	82.2	81.1	81.1	81.1	81.1	81.1	81.1	81.1	82.2	83.3
82.5°	56.0	56.0	54.9	54.9	54.9	54.9	54.9	54.9	54.9	56.0	56.0
85°	32.9	32.9	31.8	31.8	31.8	31.8	31.8	31.8	31.8	32.9	32.9
87.5°	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2
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: P  
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**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	898.2	898.2	898.2	898.2
2.5°	900.4	901.5	897.1	892.8
5°	896.0	897.1	893.9	889.5
7.5°	889.5	890.6	887.2	883.9
10°	879.6	881.8	878.5	874.1
12.5°	867.5	868.6	865.3	862.1
15°	853.2	854.3	851.1	847.8
17.5°	835.7	837.9	834.6	831.4
20°	816.0	818.2	816.0	812.7
22.5°	794.0	796.2	794.0	791.8
25°	771.0	773.2	771.0	768.8
27.5°	745.8	749.0	746.9	745.8
30°	719.4	722.8	720.5	719.4
32.5°	692.1	696.4	694.3	692.1
35°	663.6	666.8	664.6	663.6
37.5°	635.0	638.3	637.2	636.1
40°	605.4	608.7	606.5	605.4
42.5°	574.7	578.0	576.9	575.8
45°	542.9	546.2	545.1	545.1
47.5°	512.2	515.5	514.4	513.3
50°	479.3	482.6	481.5	481.5
52.5°	447.4	450.8	449.7	448.6
55°	414.5	416.7	415.6	415.6
57.5°	381.7	384.9	383.8	382.7
60°	348.8	350.9	349.9	349.9
62.5°	315.9	318.1	317.0	317.0
65°	280.7	283.0	283.0	283.0
67.5°	244.6	246.7	245.7	245.7
70°	211.7	212.8	211.7	211.7
72.5°	177.7	178.8	178.8	178.8
75°	144.8	145.9	144.8	144.8
77.5°	114.1	115.2	114.1	112.9
80°	84.5	85.6	84.5	83.3
82.5°	57.1	58.1	57.1	56.0
85°	34.0	34.0	32.9	31.8
87.5°	14.3	14.3	13.2	12.1
90°	0.0	0.0	0.0	0.0

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