

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-26L950-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-26L950-UNV-NP  
Description: ArcMed Patient Recessed 4 FT x6 IN Fixture EXAM Light w/ Nature Pattern Lens  
Light Source: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

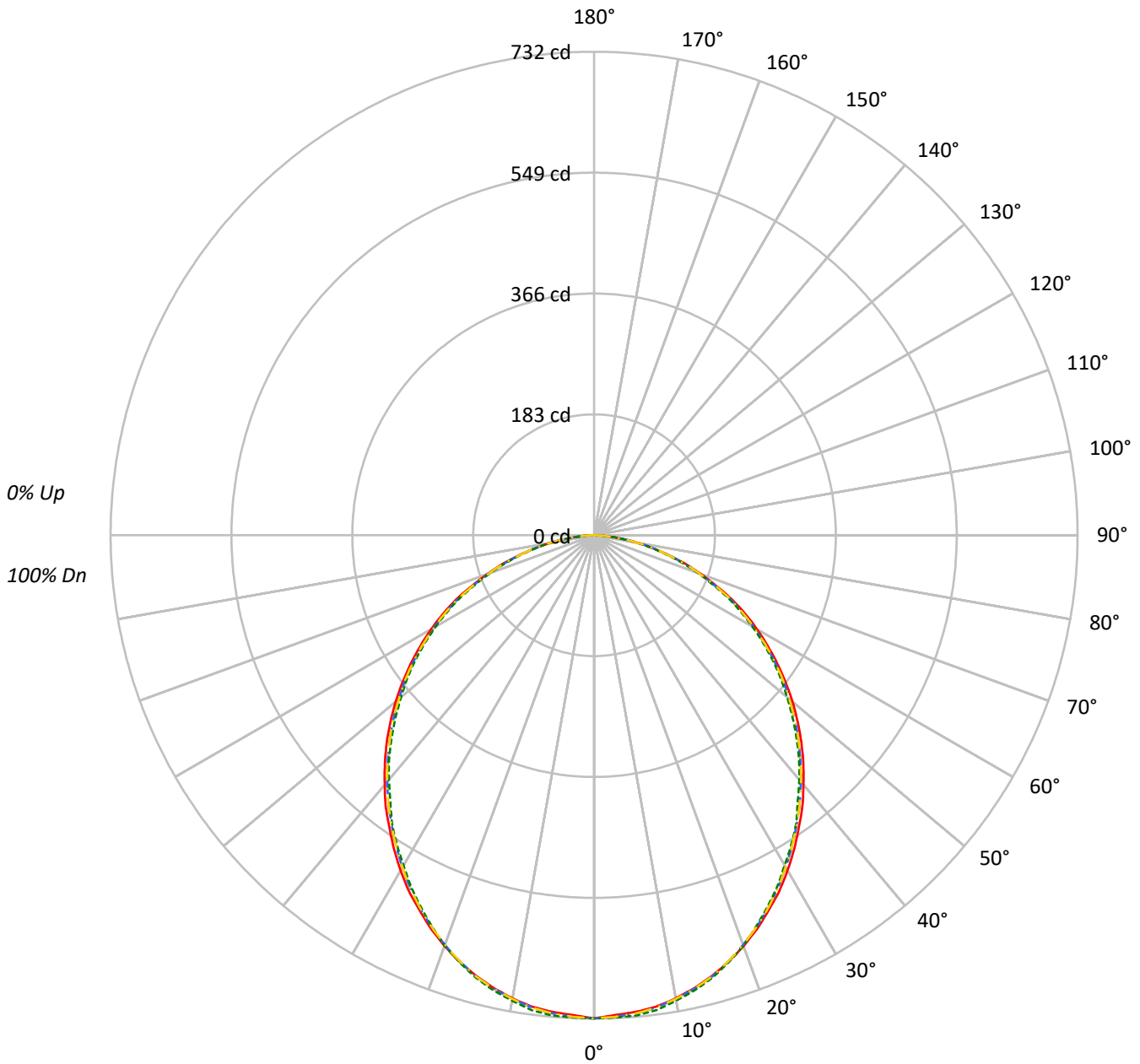
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1903.3 lumens  
Efficiency: N/A  
Efficacy: 67.5 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				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	100	100	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84	84	84	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70	70	70	70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60	60	60	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51	51	51	51
5	76	64	55	48	74	63	54	48	60	53	47	59	52	47	57	51	46	44	44	44	44
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	39	39	39	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34	34	34	34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31	31	31	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28	28	28	28
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25	25	25	25

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

	0°	90°	180°	270°
0°	6749	6749	6749	6749
5°	6709	6759	6709	6759
10°	6669	6703	6669	6703
15°	6595	6621	6595	6621
20°	6499	6490	6499	6490
25°	6374	6320	6374	6320
30°	6242	6147	6242	6147
35°	6087	6007	6087	6007
40°	5939	5820	5939	5820
45°	5792	5652	5792	5652
50°	5628	5474	5628	5474
55°	5447	5316	5447	5316
60°	5257	5109	5257	5109
65°	5032	4875	5032	4875
70°	4651	4508	4651	4508
75°	4203	4074	4203	4074
80°	3608	3512	3608	3512
85°	2742	2742	2742	2742



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.0	3.6
10°-20°	195.0	10.2
20°-30°	287.4	15.1
30°-40°	335.5	17.6
40°-50°	338.2	17.8
50°-60°	298.9	15.7
60°-70°	223.6	11.7
70°-80°	123.9	6.5
80°-90°	31.8	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°	551.4	29.0
0°-40°	886.9	46.6
0°-60°	1524.1	80.1
0°-90°	1903.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1903.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	732	732	732	732	732	
5°	724	730	724	730	724	69
15°	690	693	690	693	690	195
25°	626	621	626	621	626	289
35°	540	533	540	533	540	338
45°	444	433	444	433	444	342
55°	339	330	339	330	339	303
65°	230	223	230	223	230	227
75°	118	114	118	114	118	125
85°	26	26	26	26	26	31
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°	731.5	731.5	731.5	731.5	731.5	731.5	731.5	731.5	731.5	731.5	731.5
2.5°	727.1	730.7	734.3	733.4	730.7	728.8	729.8	729.8	730.7	730.7	730.7
5°	724.4	728.0	730.7	729.8	727.1	726.2	726.2	726.2	728.0	729.8	728.0
7.5°	720.0	722.7	725.3	724.4	721.7	720.8	720.8	721.7	723.5	725.3	723.5
10°	711.9	715.5	718.1	716.4	713.7	711.9	711.9	711.9	713.7	715.5	713.7
12.5°	702.1	704.8	707.5	706.5	703.9	702.1	702.1	702.1	703.9	705.7	703.9
15°	690.5	693.2	695.8	694.9	692.2	690.5	690.5	690.5	692.2	693.2	692.2
17.5°	677.1	679.8	682.5	680.6	677.1	675.3	675.3	675.3	677.1	677.9	677.1
20°	661.9	664.6	666.3	664.6	661.0	659.2	658.3	658.3	660.1	661.0	660.1
22.5°	644.9	646.7	648.4	646.7	643.1	641.3	640.4	639.6	640.4	641.3	640.4
25°	626.1	628.0	629.7	628.0	624.4	621.7	620.8	619.9	620.8	620.8	620.8
27.5°	607.4	608.3	610.1	607.4	603.8	601.1	600.2	599.4	600.2	600.2	600.2
30°	585.9	586.9	588.6	585.9	581.5	578.8	577.9	577.0	577.0	577.0	577.0
32.5°	563.6	565.5	567.2	563.6	559.2	556.5	555.6	554.7	555.6	555.6	555.6
35°	540.4	541.3	543.1	540.4	536.0	533.3	531.4	530.6	532.4	533.3	532.4
37.5°	518.1	519.0	519.8	517.1	512.7	510.1	508.2	507.4	506.5	506.5	506.5
40°	493.1	493.9	495.8	493.1	488.6	485.9	484.1	483.2	483.2	483.2	483.2
42.5°	468.9	469.9	470.8	468.1	463.6	460.9	459.2	458.2	459.2	459.2	459.2
45°	443.9	443.9	444.9	442.2	438.6	435.9	434.1	433.2	433.2	433.2	433.2
47.5°	418.0	419.0	419.8	417.1	413.6	410.8	409.1	407.3	407.3	407.3	407.3
50°	392.1	392.1	393.0	390.4	386.8	384.1	383.2	382.3	381.4	381.4	381.4
52.5°	365.3	366.2	367.1	364.5	361.8	359.1	357.3	356.4	356.4	356.4	356.4
55°	338.6	338.6	339.4	337.6	335.0	332.3	330.5	329.6	330.5	330.5	330.5
57.5°	311.7	312.7	313.5	310.8	308.1	305.5	304.6	303.7	303.7	303.7	303.7
60°	284.9	284.9	285.8	284.1	281.4	278.7	277.8	276.9	276.9	276.9	276.9
62.5°	258.2	258.2	259.1	257.2	254.6	251.9	251.0	250.1	250.1	250.1	250.1
65°	230.5	230.5	230.5	228.7	226.9	226.0	225.1	224.2	223.3	223.3	223.3
67.5°	200.1	200.1	201.0	199.2	197.4	196.5	195.6	194.7	193.8	193.8	193.8
70°	172.4	172.4	173.2	172.4	170.6	169.7	168.8	167.9	167.1	167.1	167.1
72.5°	145.6	145.6	145.6	144.7	143.8	142.9	142.0	141.2	140.2	140.2	140.2
75°	117.9	117.9	118.8	117.9	117.0	116.1	115.2	115.2	114.3	114.3	114.3
77.5°	92.0	92.9	93.8	92.9	92.0	91.1	90.2	90.2	89.3	89.3	89.3
80°	67.9	68.8	69.7	68.8	67.9	67.0	66.1	66.1	66.1	66.1	66.1
82.5°	45.5	46.5	47.3	46.5	45.5	45.5	44.6	44.6	44.6	44.6	44.6
85°	25.9	26.8	27.7	27.7	26.8	26.8	25.9	25.9	25.9	25.9	25.9
87.5°	9.9	10.7	11.6	11.6	10.7	10.7	10.7	10.7	10.7	10.7	10.7
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°	731.5	731.5	731.5	731.5	731.5	731.5	731.5	731.5	731.5	731.5	731.5
2.5°	729.8	729.8	728.8	730.7	733.4	734.3	730.7	727.1	730.7	734.3	733.4
5°	726.2	726.2	726.2	727.1	729.8	730.7	728.0	724.4	728.0	730.7	729.8
7.5°	721.7	720.8	720.8	721.7	724.4	725.3	722.7	720.0	722.7	725.3	724.4
10°	711.9	711.9	711.9	713.7	716.4	718.1	715.5	711.9	715.5	718.1	716.4
12.5°	702.1	702.1	702.1	703.9	706.5	707.5	704.8	702.1	704.8	707.5	706.5
15°	690.5	690.5	690.5	692.2	694.9	695.8	693.2	690.5	693.2	695.8	694.9
17.5°	675.3	675.3	675.3	677.1	680.6	682.5	679.8	677.1	679.8	682.5	680.6
20°	658.3	658.3	659.2	661.0	664.6	666.3	664.6	661.9	664.6	666.3	664.6
22.5°	639.6	640.4	641.3	643.1	646.7	648.4	646.7	644.9	646.7	648.4	646.7
25°	619.9	620.8	621.7	624.4	628.0	629.7	628.0	626.1	628.0	629.7	628.0
27.5°	599.4	600.2	601.1	603.8	607.4	610.1	608.3	607.4	608.3	610.1	607.4
30°	577.0	577.9	578.8	581.5	585.9	588.6	586.9	585.9	586.9	588.6	585.9
32.5°	554.7	555.6	556.5	559.2	563.6	567.2	565.5	563.6	565.5	567.2	563.6
35°	530.6	531.4	533.3	536.0	540.4	543.1	541.3	540.4	541.3	543.1	540.4
37.5°	507.4	508.2	510.1	512.7	517.1	519.8	519.0	518.1	519.0	519.8	517.1
40°	483.2	484.1	485.9	488.6	493.1	495.8	493.9	493.1	493.9	495.8	493.1
42.5°	458.2	459.2	460.9	463.6	468.1	470.8	469.9	468.9	469.9	470.8	468.1
45°	433.2	434.1	435.9	438.6	442.2	444.9	443.9	443.9	443.9	444.9	442.2
47.5°	407.3	409.1	410.8	413.6	417.1	419.8	419.0	418.0	419.0	419.8	417.1
50°	382.3	383.2	384.1	386.8	390.4	393.0	392.1	392.1	392.1	393.0	390.4
52.5°	356.4	357.3	359.1	361.8	364.5	367.1	366.2	365.3	366.2	367.1	364.5
55°	329.6	330.5	332.3	335.0	337.6	339.4	338.6	338.6	338.6	339.4	337.6
57.5°	303.7	304.6	305.5	308.1	310.8	313.5	312.7	311.7	312.7	313.5	310.8
60°	276.9	277.8	278.7	281.4	284.1	285.8	284.9	284.9	284.9	285.8	284.1
62.5°	250.1	251.0	251.9	254.6	257.2	259.1	258.2	258.2	258.2	259.1	257.2
65°	224.2	225.1	226.0	226.9	228.7	230.5	230.5	230.5	230.5	230.5	228.7
67.5°	194.7	195.6	196.5	197.4	199.2	201.0	200.1	200.1	200.1	201.0	199.2
70°	167.9	168.8	169.7	170.6	172.4	173.2	172.4	172.4	172.4	173.2	172.4
72.5°	141.2	142.0	142.9	143.8	144.7	145.6	145.6	145.6	145.6	145.6	144.7
75°	115.2	115.2	116.1	117.0	117.9	118.8	117.9	117.9	117.9	118.8	117.9
77.5°	90.2	90.2	91.1	92.0	92.9	93.8	92.9	92.0	92.9	93.8	92.9
80°	66.1	66.1	67.0	67.9	68.8	69.7	68.8	67.9	68.8	69.7	68.8
82.5°	44.6	44.6	45.5	45.5	46.5	47.3	46.5	45.5	46.5	47.3	46.5
85°	25.9	25.9	26.8	26.8	27.7	27.7	26.8	25.9	26.8	27.7	27.7
87.5°	10.7	10.7	10.7	10.7	11.6	11.6	10.7	9.9	10.7	11.6	11.6
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°	731.5	731.5	731.5	731.5	731.5	731.5	731.5	731.5	731.5	731.5	731.5
2.5°	730.7	728.8	729.8	729.8	730.7	730.7	730.7	729.8	729.8	728.8	730.7
5°	727.1	726.2	726.2	726.2	728.0	729.8	728.0	726.2	726.2	726.2	727.1
7.5°	721.7	720.8	720.8	721.7	723.5	725.3	723.5	721.7	720.8	720.8	721.7
10°	713.7	711.9	711.9	711.9	713.7	715.5	713.7	711.9	711.9	711.9	713.7
12.5°	703.9	702.1	702.1	702.1	703.9	705.7	703.9	702.1	702.1	702.1	703.9
15°	692.2	690.5	690.5	690.5	692.2	693.2	692.2	690.5	690.5	690.5	692.2
17.5°	677.1	675.3	675.3	675.3	677.1	677.9	677.1	675.3	675.3	675.3	677.1
20°	661.0	659.2	658.3	658.3	660.1	661.0	660.1	658.3	658.3	659.2	661.0
22.5°	643.1	641.3	640.4	639.6	640.4	641.3	640.4	639.6	640.4	641.3	643.1
25°	624.4	621.7	620.8	619.9	620.8	620.8	620.8	619.9	620.8	621.7	624.4
27.5°	603.8	601.1	600.2	599.4	600.2	600.2	600.2	599.4	600.2	601.1	603.8
30°	581.5	578.8	577.9	577.0	577.0	577.0	577.0	577.0	577.9	578.8	581.5
32.5°	559.2	556.5	555.6	554.7	555.6	555.6	555.6	554.7	555.6	556.5	559.2
35°	536.0	533.3	531.4	530.6	532.4	533.3	532.4	530.6	531.4	533.3	536.0
37.5°	512.7	510.1	508.2	507.4	506.5	506.5	506.5	507.4	508.2	510.1	512.7
40°	488.6	485.9	484.1	483.2	483.2	483.2	483.2	483.2	484.1	485.9	488.6
42.5°	463.6	460.9	459.2	458.2	459.2	459.2	459.2	458.2	459.2	460.9	463.6
45°	438.6	435.9	434.1	433.2	433.2	433.2	433.2	433.2	434.1	435.9	438.6
47.5°	413.6	410.8	409.1	407.3	407.3	407.3	407.3	407.3	409.1	410.8	413.6
50°	386.8	384.1	383.2	382.3	381.4	381.4	381.4	382.3	383.2	384.1	386.8
52.5°	361.8	359.1	357.3	356.4	356.4	356.4	356.4	356.4	357.3	359.1	361.8
55°	335.0	332.3	330.5	329.6	330.5	330.5	330.5	329.6	330.5	332.3	335.0
57.5°	308.1	305.5	304.6	303.7	303.7	303.7	303.7	303.7	304.6	305.5	308.1
60°	281.4	278.7	277.8	276.9	276.9	276.9	276.9	276.9	277.8	278.7	281.4
62.5°	254.6	251.9	251.0	250.1	250.1	250.1	250.1	250.1	251.0	251.9	254.6
65°	226.9	226.0	225.1	224.2	223.3	223.3	223.3	224.2	225.1	226.0	226.9
67.5°	197.4	196.5	195.6	194.7	193.8	193.8	193.8	194.7	195.6	196.5	197.4
70°	170.6	169.7	168.8	167.9	167.1	167.1	167.1	167.9	168.8	169.7	170.6
72.5°	143.8	142.9	142.0	141.2	140.2	140.2	140.2	141.2	142.0	142.9	143.8
75°	117.0	116.1	115.2	115.2	114.3	114.3	114.3	115.2	115.2	116.1	117.0
77.5°	92.0	91.1	90.2	90.2	89.3	89.3	89.3	90.2	90.2	91.1	92.0
80°	67.9	67.0	66.1	66.1	66.1	66.1	66.1	66.1	66.1	67.0	67.9
82.5°	45.5	45.5	44.6	44.6	44.6	44.6	44.6	44.6	44.6	45.5	45.5
85°	26.8	26.8	25.9	25.9	25.9	25.9	25.9	25.9	25.9	26.8	26.8
87.5°	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7
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°	731.5	731.5	731.5	731.5
2.5°	733.4	734.3	730.7	727.1
5°	729.8	730.7	728.0	724.4
7.5°	724.4	725.3	722.7	720.0
10°	716.4	718.1	715.5	711.9
12.5°	706.5	707.5	704.8	702.1
15°	694.9	695.8	693.2	690.5
17.5°	680.6	682.5	679.8	677.1
20°	664.6	666.3	664.6	661.9
22.5°	646.7	648.4	646.7	644.9
25°	628.0	629.7	628.0	626.1
27.5°	607.4	610.1	608.3	607.4
30°	585.9	588.6	586.9	585.9
32.5°	563.6	567.2	565.5	563.6
35°	540.4	543.1	541.3	540.4
37.5°	517.1	519.8	519.0	518.1
40°	493.1	495.8	493.9	493.1
42.5°	468.1	470.8	469.9	468.9
45°	442.2	444.9	443.9	443.9
47.5°	417.1	419.8	419.0	418.0
50°	390.4	393.0	392.1	392.1
52.5°	364.5	367.1	366.2	365.3
55°	337.6	339.4	338.6	338.6
57.5°	310.8	313.5	312.7	311.7
60°	284.1	285.8	284.9	284.9
62.5°	257.2	259.1	258.2	258.2
65°	228.7	230.5	230.5	230.5
67.5°	199.2	201.0	200.1	200.1
70°	172.4	173.2	172.4	172.4
72.5°	144.7	145.6	145.6	145.6
75°	117.9	118.8	117.9	117.9
77.5°	92.9	93.8	92.9	92.0
80°	68.8	69.7	68.8	67.9
82.5°	46.5	47.3	46.5	45.5
85°	27.7	27.7	26.8	25.9
87.5°	11.6	11.6	10.7	9.9
90°	0.0	0.0	0.0	0.0

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