

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-26L935-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-26L935-UNV-NP
Description: ArcMed Patient Recessed 4 FT x6 IN Fixture EXAM Light w/ Nature Pattern Lens
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

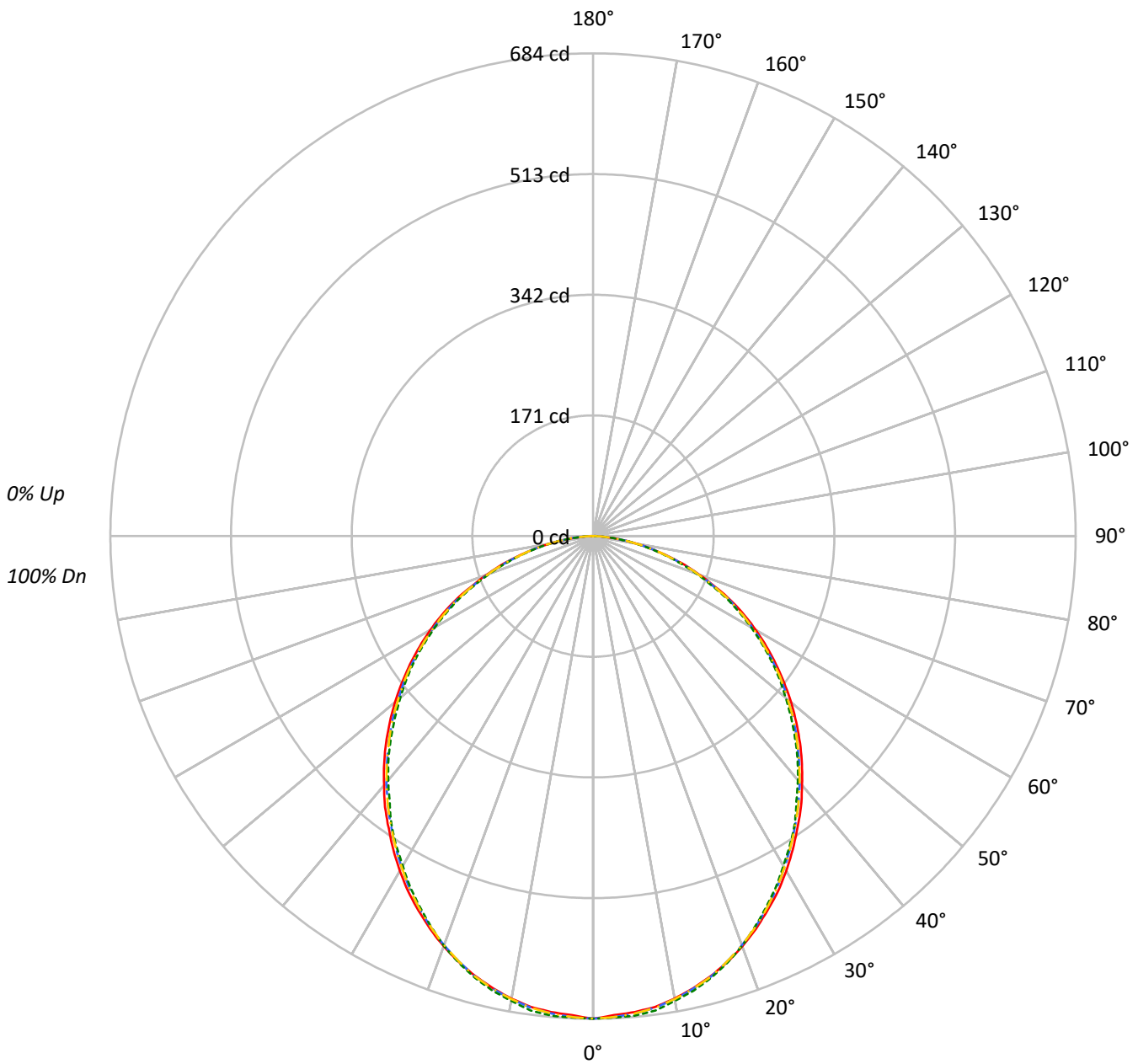
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1778.9 lumens
Efficiency: N/A
Efficacy: 63.1 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_{in}): 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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	59	52	47	57	51	46	44
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6309	6309	6309	6309
5°	6270	6317	6270	6317
10°	6234	6265	6234	6265
15°	6164	6189	6164	6189
20°	6075	6066	6075	6066
25°	5957	5906	5957	5906
30°	5835	5745	5835	5745
35°	5689	5614	5689	5614
40°	5550	5440	5550	5440
45°	5414	5283	5414	5283
50°	5261	5116	5261	5116
55°	5089	4969	5089	4969
60°	4914	4775	4914	4775
65°	4702	4556	4702	4556
70°	4348	4211	4348	4211
75°	3928	3811	3928	3811
80°	3369	3284	3369	3284
85°	2562	2562	2562	2562



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.5	3.6
10°-20°	182.2	10.2
20°-30°	268.6	15.1
30°-40°	313.6	17.6
40°-50°	316.1	17.8
50°-60°	279.4	15.7
60°-70°	208.9	11.7
70°-80°	115.8	6.5
80°-90°	29.7	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°	515.4	29.0
0°-40°	828.9	46.6
0°-60°	1424.5	80.1
0°-90°	1778.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1778.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	684	684	684	684	684	
5°	677	682	677	682	677	64
15°	645	648	645	648	645	182
25°	585	580	585	580	585	270
35°	505	498	505	498	505	316
45°	415	405	415	405	415	320
55°	316	309	316	309	316	283
65°	215	209	215	209	215	212
75°	110	107	110	107	110	117
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°	683.8	683.8	683.8	683.8	683.8	683.8	683.8	683.8	683.8	683.8	683.8
2.5°	679.6	682.9	686.2	685.4	682.9	681.3	682.1	682.1	682.9	682.9	682.9
5°	677.0	680.4	682.9	682.1	679.6	678.8	678.8	678.8	680.4	682.1	680.4
7.5°	672.9	675.4	677.9	677.0	674.5	673.7	673.7	674.5	676.2	677.9	676.2
10°	665.4	668.7	671.2	669.6	667.1	665.4	665.4	665.4	667.1	668.7	667.1
12.5°	656.2	658.7	661.2	660.3	657.8	656.2	656.2	656.2	657.8	659.5	657.8
15°	645.3	647.9	650.4	649.5	647.0	645.3	645.3	645.3	647.0	647.9	647.0
17.5°	632.9	635.4	637.8	636.2	632.9	631.1	631.1	631.1	632.9	633.7	632.9
20°	618.7	621.2	622.8	621.2	617.8	616.1	615.3	615.3	617.0	617.8	617.0
22.5°	602.8	604.5	606.1	604.5	601.1	599.4	598.6	597.7	598.6	599.4	598.6
25°	585.2	586.9	588.6	586.9	583.5	581.0	580.2	579.4	580.2	580.2	580.2
27.5°	567.7	568.5	570.2	567.7	564.4	561.9	561.0	560.2	561.0	561.0	561.0
30°	547.7	548.5	550.2	547.7	543.5	541.0	540.1	539.3	539.3	539.3	539.3
32.5°	526.8	528.5	530.1	526.8	522.6	520.1	519.3	518.4	519.3	519.3	519.3
35°	505.1	505.9	507.6	505.1	500.9	498.4	496.8	495.9	497.6	498.4	497.6
37.5°	484.2	485.1	485.9	483.4	479.2	476.7	475.0	474.2	473.4	473.4	473.4
40°	460.8	461.6	463.3	460.8	456.7	454.2	452.5	451.7	451.7	451.7	451.7
42.5°	438.3	439.1	440.0	437.5	433.2	430.8	429.1	428.3	429.1	429.1	429.1
45°	414.9	414.9	415.7	413.2	409.9	407.4	405.8	404.9	404.9	404.9	404.9
47.5°	390.7	391.6	392.4	389.9	386.5	384.0	382.4	380.7	380.7	380.7	380.7
50°	366.5	366.5	367.3	364.8	361.5	359.0	358.2	357.3	356.4	356.4	356.4
52.5°	341.4	342.2	343.2	340.6	338.1	335.6	333.9	333.1	333.1	333.1	333.1
55°	316.4	316.4	317.3	315.6	313.1	310.5	308.9	308.0	308.9	308.9	308.9
57.5°	291.4	292.2	293.0	290.5	288.0	285.5	284.7	283.9	283.9	283.9	283.9
60°	266.3	266.3	267.2	265.4	263.0	260.5	259.6	258.8	258.8	258.8	258.8
62.5°	241.3	241.3	242.1	240.5	238.0	235.4	234.6	233.7	233.7	233.7	233.7
65°	215.4	215.4	215.4	213.7	212.1	211.2	210.4	209.6	208.7	208.7	208.7
67.5°	187.0	187.0	187.8	186.2	184.5	183.7	182.8	182.0	181.2	181.2	181.2
70°	161.2	161.2	162.0	161.2	159.4	158.6	157.8	156.9	156.1	156.1	156.1
72.5°	136.1	136.1	136.1	135.3	134.4	133.6	132.8	131.9	131.1	131.1	131.1
75°	110.2	110.2	111.0	110.2	109.3	108.5	107.7	107.7	106.9	106.9	106.9
77.5°	86.0	86.9	87.7	86.9	86.0	85.2	84.4	84.4	83.4	83.4	83.4
80°	63.4	64.3	65.1	64.3	63.4	62.6	61.8	61.8	61.8	61.8	61.8
82.5°	42.6	43.4	44.3	43.4	42.6	42.6	41.8	41.8	41.8	41.8	41.8
85°	24.2	25.1	25.9	25.9	25.1	25.1	24.2	24.2	24.2	24.2	24.2
87.5°	9.2	10.0	10.9	10.9	10.0	10.0	10.0	10.0	10.0	10.0	10.0
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):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	683.8	683.8	683.8	683.8	683.8	683.8	683.8	683.8	683.8	683.8	683.8
2.5°	682.1	682.1	681.3	682.9	685.4	686.2	682.9	679.6	682.9	686.2	685.4
5°	678.8	678.8	678.8	679.6	682.1	682.9	680.4	677.0	680.4	682.9	682.1
7.5°	674.5	673.7	673.7	674.5	677.0	677.9	675.4	672.9	675.4	677.9	677.0
10°	665.4	665.4	665.4	667.1	669.6	671.2	668.7	665.4	668.7	671.2	669.6
12.5°	656.2	656.2	656.2	657.8	660.3	661.2	658.7	656.2	658.7	661.2	660.3
15°	645.3	645.3	645.3	647.0	649.5	650.4	647.9	645.3	647.9	650.4	649.5
17.5°	631.1	631.1	631.1	632.9	636.2	637.8	635.4	632.9	635.4	637.8	636.2
20°	615.3	615.3	616.1	617.8	621.2	622.8	621.2	618.7	621.2	622.8	621.2
22.5°	597.7	598.6	599.4	601.1	604.5	606.1	604.5	602.8	604.5	606.1	604.5
25°	579.4	580.2	581.0	583.5	586.9	588.6	586.9	585.2	586.9	588.6	586.9
27.5°	560.2	561.0	561.9	564.4	567.7	570.2	568.5	567.7	568.5	570.2	567.7
30°	539.3	540.1	541.0	543.5	547.7	550.2	548.5	547.7	548.5	550.2	547.7
32.5°	518.4	519.3	520.1	522.6	526.8	530.1	528.5	526.8	528.5	530.1	526.8
35°	495.9	496.8	498.4	500.9	505.1	507.6	505.9	505.1	505.9	507.6	505.1
37.5°	474.2	475.0	476.7	479.2	483.4	485.9	485.1	484.2	485.1	485.9	483.4
40°	451.7	452.5	454.2	456.7	460.8	463.3	461.6	460.8	461.6	463.3	460.8
42.5°	428.3	429.1	430.8	433.2	437.5	440.0	439.1	438.3	439.1	440.0	437.5
45°	404.9	405.8	407.4	409.9	413.2	415.7	414.9	414.9	414.9	415.7	413.2
47.5°	380.7	382.4	384.0	386.5	389.9	392.4	391.6	390.7	391.6	392.4	389.9
50°	357.3	358.2	359.0	361.5	364.8	367.3	366.5	366.5	366.5	367.3	364.8
52.5°	333.1	333.9	335.6	338.1	340.6	343.2	342.2	341.4	342.2	343.2	340.6
55°	308.0	308.9	310.5	313.1	315.6	317.3	316.4	316.4	316.4	317.3	315.6
57.5°	283.9	284.7	285.5	288.0	290.5	293.0	292.2	291.4	292.2	293.0	290.5
60°	258.8	259.6	260.5	263.0	265.4	267.2	266.3	266.3	266.3	267.2	265.4
62.5°	233.7	234.6	235.4	238.0	240.5	242.1	241.3	241.3	241.3	242.1	240.5
65°	209.6	210.4	211.2	212.1	213.7	215.4	215.4	215.4	215.4	215.4	213.7
67.5°	182.0	182.8	183.7	184.5	186.2	187.8	187.0	187.0	187.0	187.8	186.2
70°	156.9	157.8	158.6	159.4	161.2	162.0	161.2	161.2	161.2	162.0	161.2
72.5°	131.9	132.8	133.6	134.4	135.3	136.1	136.1	136.1	136.1	136.1	135.3
75°	107.7	107.7	108.5	109.3	110.2	111.0	110.2	110.2	110.2	111.0	110.2
77.5°	84.4	84.4	85.2	86.0	86.9	87.7	86.9	86.0	86.9	87.7	86.9
80°	61.8	61.8	62.6	63.4	64.3	65.1	64.3	63.4	64.3	65.1	64.3
82.5°	41.8	41.8	42.6	42.6	43.4	44.3	43.4	42.6	43.4	44.3	43.4
85°	24.2	24.2	25.1	25.1	25.9	25.9	25.1	24.2	25.1	25.9	25.9
87.5°	10.0	10.0	10.0	10.0	10.9	10.9	10.0	9.2	10.0	10.9	10.9
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°	683.8	683.8	683.8	683.8	683.8	683.8	683.8	683.8	683.8	683.8	683.8
2.5°	682.9	681.3	682.1	682.1	682.9	682.9	682.9	682.1	682.1	681.3	682.9
5°	679.6	678.8	678.8	678.8	680.4	682.1	680.4	678.8	678.8	678.8	679.6
7.5°	674.5	673.7	673.7	674.5	676.2	677.9	676.2	674.5	673.7	673.7	674.5
10°	667.1	665.4	665.4	665.4	667.1	668.7	667.1	665.4	665.4	665.4	667.1
12.5°	657.8	656.2	656.2	656.2	657.8	659.5	657.8	656.2	656.2	656.2	657.8
15°	647.0	645.3	645.3	645.3	647.0	647.9	647.0	645.3	645.3	645.3	647.0
17.5°	632.9	631.1	631.1	631.1	632.9	633.7	632.9	631.1	631.1	631.1	632.9
20°	617.8	616.1	615.3	615.3	617.0	617.8	617.0	615.3	615.3	616.1	617.8
22.5°	601.1	599.4	598.6	597.7	598.6	599.4	598.6	597.7	598.6	599.4	601.1
25°	583.5	581.0	580.2	579.4	580.2	580.2	580.2	579.4	580.2	581.0	583.5
27.5°	564.4	561.9	561.0	560.2	561.0	561.0	561.0	560.2	561.0	561.9	564.4
30°	543.5	541.0	540.1	539.3	539.3	539.3	539.3	539.3	540.1	541.0	543.5
32.5°	522.6	520.1	519.3	518.4	519.3	519.3	519.3	518.4	519.3	520.1	522.6
35°	500.9	498.4	496.8	495.9	497.6	498.4	497.6	495.9	496.8	498.4	500.9
37.5°	479.2	476.7	475.0	474.2	473.4	473.4	473.4	474.2	475.0	476.7	479.2
40°	456.7	454.2	452.5	451.7	451.7	451.7	451.7	451.7	452.5	454.2	456.7
42.5°	433.2	430.8	429.1	428.3	429.1	429.1	429.1	428.3	429.1	430.8	433.2
45°	409.9	407.4	405.8	404.9	404.9	404.9	404.9	404.9	405.8	407.4	409.9
47.5°	386.5	384.0	382.4	380.7	380.7	380.7	380.7	380.7	382.4	384.0	386.5
50°	361.5	359.0	358.2	357.3	356.4	356.4	356.4	357.3	358.2	359.0	361.5
52.5°	338.1	335.6	333.9	333.1	333.1	333.1	333.1	333.1	333.9	335.6	338.1
55°	313.1	310.5	308.9	308.0	308.9	308.9	308.9	308.0	308.9	310.5	313.1
57.5°	288.0	285.5	284.7	283.9	283.9	283.9	283.9	283.9	284.7	285.5	288.0
60°	263.0	260.5	259.6	258.8	258.8	258.8	258.8	258.8	259.6	260.5	263.0
62.5°	238.0	235.4	234.6	233.7	233.7	233.7	233.7	233.7	234.6	235.4	238.0
65°	212.1	211.2	210.4	209.6	208.7	208.7	208.7	209.6	210.4	211.2	212.1
67.5°	184.5	183.7	182.8	182.0	181.2	181.2	181.2	182.0	182.8	183.7	184.5
70°	159.4	158.6	157.8	156.9	156.1	156.1	156.1	156.9	157.8	158.6	159.4
72.5°	134.4	133.6	132.8	131.9	131.1	131.1	131.1	131.9	132.8	133.6	134.4
75°	109.3	108.5	107.7	107.7	106.9	106.9	106.9	107.7	107.7	108.5	109.3
77.5°	86.0	85.2	84.4	84.4	83.4	83.4	83.4	84.4	84.4	85.2	86.0
80°	63.4	62.6	61.8	61.8	61.8	61.8	61.8	61.8	61.8	62.6	63.4
82.5°	42.6	42.6	41.8	41.8	41.8	41.8	41.8	41.8	41.8	42.6	42.6
85°	25.1	25.1	24.2	24.2	24.2	24.2	24.2	24.2	24.2	25.1	25.1
87.5°	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
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):

	330°	340°	350°	360°
0°	683.8	683.8	683.8	683.8
2.5°	685.4	686.2	682.9	679.6
5°	682.1	682.9	680.4	677.0
7.5°	677.0	677.9	675.4	672.9
10°	669.6	671.2	668.7	665.4
12.5°	660.3	661.2	658.7	656.2
15°	649.5	650.4	647.9	645.3
17.5°	636.2	637.8	635.4	632.9
20°	621.2	622.8	621.2	618.7
22.5°	604.5	606.1	604.5	602.8
25°	586.9	588.6	586.9	585.2
27.5°	567.7	570.2	568.5	567.7
30°	547.7	550.2	548.5	547.7
32.5°	526.8	530.1	528.5	526.8
35°	505.1	507.6	505.9	505.1
37.5°	483.4	485.9	485.1	484.2
40°	460.8	463.3	461.6	460.8
42.5°	437.5	440.0	439.1	438.3
45°	413.2	415.7	414.9	414.9
47.5°	389.9	392.4	391.6	390.7
50°	364.8	367.3	366.5	366.5
52.5°	340.6	343.2	342.2	341.4
55°	315.6	317.3	316.4	316.4
57.5°	290.5	293.0	292.2	291.4
60°	265.4	267.2	266.3	266.3
62.5°	240.5	242.1	241.3	241.3
65°	213.7	215.4	215.4	215.4
67.5°	186.2	187.8	187.0	187.0
70°	161.2	162.0	161.2	161.2
72.5°	135.3	136.1	136.1	136.1
75°	110.2	111.0	110.2	110.2
77.5°	86.9	87.7	86.9	86.0
80°	64.3	65.1	64.3	63.4
82.5°	43.4	44.3	43.4	42.6
85°	25.9	25.9	25.1	24.2
87.5°	10.9	10.9	10.0	9.2
90°	0.0	0.0	0.0	0.0

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