

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: P709094

Luminaire Tested: **4APN-X-26L935-UNV**

Issue Date: 09/12/2023



Test Information

Test Method: LM-79-08
Report Number: P709094
Test Lab: INNOVATION CENTER(G2)
Issue Date: 09/12/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 4APN-X-26L935-UNV
Description: ArcMed Patient Recessed 4 FT x6 IN Fixture EXAM Light
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

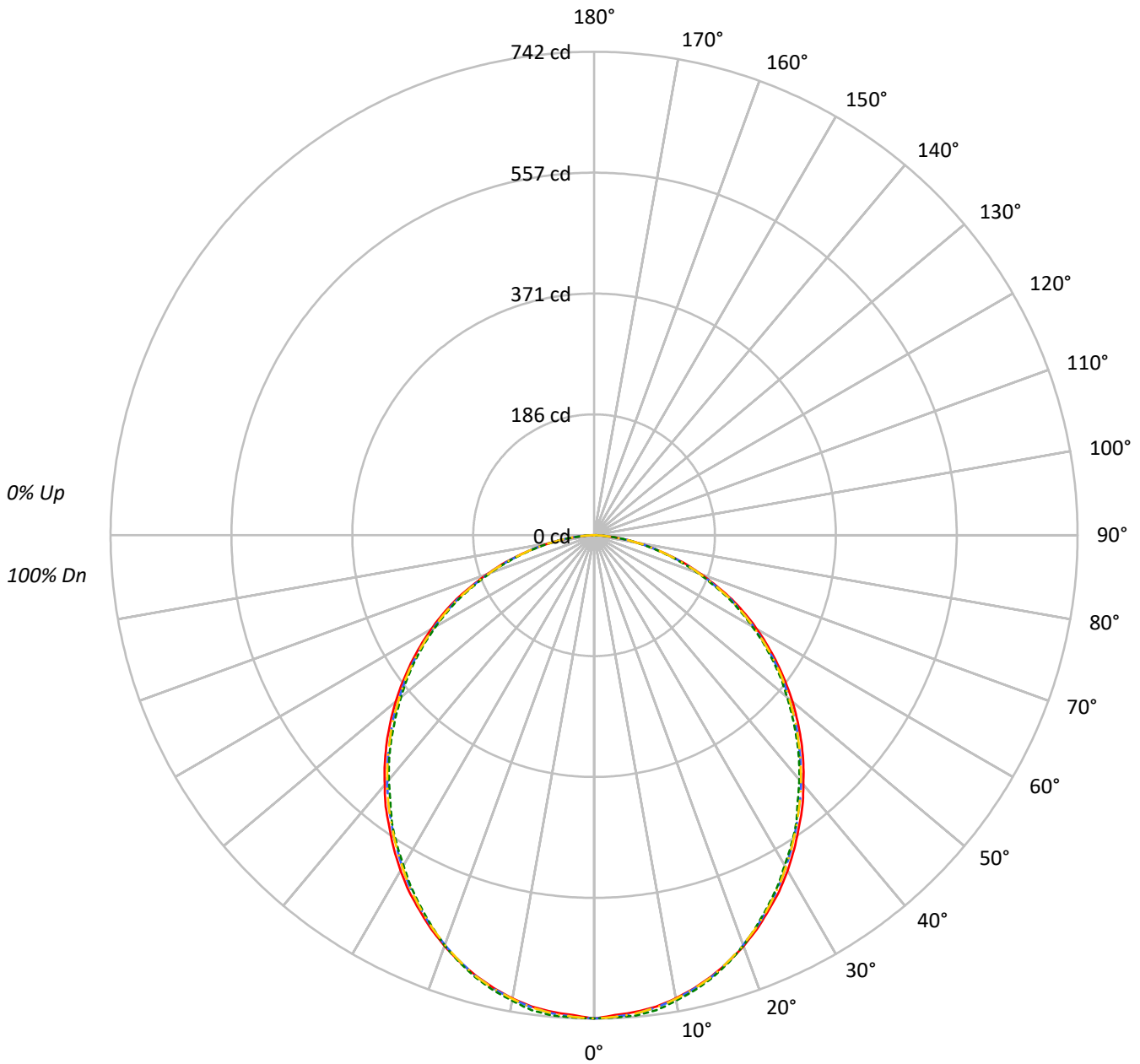
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1929.4 lumens
Efficiency: N/A
Efficacy: 68.4 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				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°	6842	6842	6842	6842
5°	6801	6852	6801	6852
10°	6761	6795	6761	6795
15°	6685	6712	6685	6712
20°	6588	6579	6588	6579
25°	6461	6406	6461	6406
30°	6328	6231	6328	6231
35°	6170	6089	6170	6089
40°	6020	5900	6020	5900
45°	5872	5731	5872	5731
50°	5705	5549	5705	5549
55°	5521	5389	5521	5389
60°	5329	5180	5329	5180
65°	5100	4943	5100	4943
70°	4715	4567	4715	4567
75°	4260	4132	4260	4132
80°	3655	3560	3655	3560
85°	2784	2784	2784	2784



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.0	3.6
10°-20°	197.7	10.2
20°-30°	291.3	15.1
30°-40°	340.1	17.6
40°-50°	342.9	17.8
50°-60°	303.0	15.7
60°-70°	226.6	11.7
70°-80°	125.6	6.5
80°-90°	32.2	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°	559.0	29.0
0°-40°	899.1	46.6
0°-60°	1545.0	80.1
0°-90°	1929.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1929.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	742	742	742	742	742	
5°	734	740	734	740	734	70
15°	700	703	700	703	700	197
25°	635	629	635	629	635	292
35°	548	541	548	541	548	343
45°	450	439	450	439	450	347
55°	343	335	343	335	343	307
65°	234	226	234	226	234	230
75°	120	116	120	116	120	127
85°	26	26	26	26	26	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°	741.6	741.6	741.6	741.6	741.6	741.6	741.6	741.6	741.6	741.6	741.6
2.5°	737.1	740.7	744.3	743.4	740.7	738.9	739.8	739.8	740.7	740.7	740.7
5°	734.3	738.0	740.7	739.8	737.1	736.2	736.2	736.2	738.0	739.8	738.0
7.5°	729.8	732.5	735.3	734.3	731.6	730.7	730.7	731.6	733.4	735.3	733.4
10°	721.7	725.3	728.0	726.2	723.5	721.7	721.7	721.7	723.5	725.3	723.5
12.5°	711.7	714.4	717.1	716.2	713.5	711.7	711.7	711.7	713.5	715.3	713.5
15°	699.9	702.7	705.4	704.5	701.7	699.9	699.9	699.9	701.7	702.7	701.7
17.5°	686.4	689.1	691.8	690.0	686.4	684.5	684.5	684.5	686.4	687.3	686.4
20°	671.0	673.7	675.5	673.7	670.1	668.2	667.3	667.3	669.2	670.1	669.2
22.5°	653.8	655.6	657.4	655.6	651.9	650.1	649.2	648.3	649.2	650.1	649.2
25°	634.7	636.6	638.4	636.6	632.9	630.2	629.3	628.4	629.3	629.3	629.3
27.5°	615.7	616.6	618.4	615.7	612.1	609.4	608.5	607.6	608.5	608.5	608.5
30°	594.0	594.9	596.7	594.0	589.5	586.8	585.8	584.9	584.9	584.9	584.9
32.5°	571.4	573.2	575.0	571.4	566.8	564.1	563.2	562.3	563.2	563.2	563.2
35°	547.8	548.7	550.5	547.8	543.3	540.6	538.8	537.9	539.7	540.6	539.7
37.5°	525.2	526.1	527.0	524.3	519.7	517.0	515.2	514.3	513.4	513.4	513.4
40°	499.8	500.7	502.5	499.8	495.3	492.6	490.8	489.9	489.9	489.9	489.9
42.5°	475.4	476.3	477.2	474.5	469.9	467.2	465.4	464.5	465.4	465.4	465.4
45°	450.0	450.0	450.9	448.2	444.6	441.9	440.1	439.2	439.2	439.2	439.2
47.5°	423.8	424.7	425.6	422.9	419.2	416.5	414.7	412.9	412.9	412.9	412.9
50°	397.5	397.5	398.4	395.7	392.1	389.4	388.5	387.5	386.6	386.6	386.6
52.5°	370.3	371.2	372.2	369.4	366.7	364.0	362.2	361.3	361.3	361.3	361.3
55°	343.2	343.2	344.1	342.3	339.6	336.8	335.0	334.1	335.0	335.0	335.0
57.5°	316.0	316.9	317.8	315.1	312.4	309.7	308.8	307.9	307.9	307.9	307.9
60°	288.8	288.8	289.8	287.9	285.2	282.5	281.6	280.7	280.7	280.7	280.7
62.5°	261.7	261.7	262.6	260.8	258.1	255.3	254.4	253.5	253.5	253.5	253.5
65°	233.6	233.6	233.6	231.8	230.0	229.1	228.2	227.3	226.4	226.4	226.4
67.5°	202.8	202.8	203.7	201.9	200.1	199.2	198.3	197.4	196.5	196.5	196.5
70°	174.8	174.8	175.7	174.8	172.9	172.0	171.1	170.2	169.3	169.3	169.3
72.5°	147.6	147.6	147.6	146.7	145.8	144.9	144.0	143.1	142.2	142.2	142.2
75°	119.5	119.5	120.4	119.5	118.6	117.7	116.8	116.8	115.9	115.9	115.9
77.5°	93.3	94.2	95.1	94.2	93.3	92.4	91.5	91.5	90.5	90.5	90.5
80°	68.8	69.7	70.6	69.7	68.8	67.9	67.0	67.0	67.0	67.0	67.0
82.5°	46.2	47.1	48.0	47.1	46.2	46.2	45.3	45.3	45.3	45.3	45.3
85°	26.3	27.2	28.1	28.1	27.2	27.2	26.3	26.3	26.3	26.3	26.3
87.5°	10.0	10.9	11.8	11.8	10.9	10.9	10.9	10.9	10.9	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):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	741.6	741.6	741.6	741.6	741.6	741.6	741.6	741.6	741.6	741.6	741.6
2.5°	739.8	739.8	738.9	740.7	743.4	744.3	740.7	737.1	740.7	744.3	743.4
5°	736.2	736.2	736.2	737.1	739.8	740.7	738.0	734.3	738.0	740.7	739.8
7.5°	731.6	730.7	730.7	731.6	734.3	735.3	732.5	729.8	732.5	735.3	734.3
10°	721.7	721.7	721.7	723.5	726.2	728.0	725.3	721.7	725.3	728.0	726.2
12.5°	711.7	711.7	711.7	713.5	716.2	717.1	714.4	711.7	714.4	717.1	716.2
15°	699.9	699.9	699.9	701.7	704.5	705.4	702.7	699.9	702.7	705.4	704.5
17.5°	684.5	684.5	684.5	686.4	690.0	691.8	689.1	686.4	689.1	691.8	690.0
20°	667.3	667.3	668.2	670.1	673.7	675.5	673.7	671.0	673.7	675.5	673.7
22.5°	648.3	649.2	650.1	651.9	655.6	657.4	655.6	653.8	655.6	657.4	655.6
25°	628.4	629.3	630.2	632.9	636.6	638.4	636.6	634.7	636.6	638.4	636.6
27.5°	607.6	608.5	609.4	612.1	615.7	618.4	616.6	615.7	616.6	618.4	615.7
30°	584.9	585.8	586.8	589.5	594.0	596.7	594.9	594.0	594.9	596.7	594.0
32.5°	562.3	563.2	564.1	566.8	571.4	575.0	573.2	571.4	573.2	575.0	571.4
35°	537.9	538.8	540.6	543.3	547.8	550.5	548.7	547.8	548.7	550.5	547.8
37.5°	514.3	515.2	517.0	519.7	524.3	527.0	526.1	525.2	526.1	527.0	524.3
40°	489.9	490.8	492.6	495.3	499.8	502.5	500.7	499.8	500.7	502.5	499.8
42.5°	464.5	465.4	467.2	469.9	474.5	477.2	476.3	475.4	476.3	477.2	474.5
45°	439.2	440.1	441.9	444.6	448.2	450.9	450.0	450.0	450.0	450.9	448.2
47.5°	412.9	414.7	416.5	419.2	422.9	425.6	424.7	423.8	424.7	425.6	422.9
50°	387.5	388.5	389.4	392.1	395.7	398.4	397.5	397.5	397.5	398.4	395.7
52.5°	361.3	362.2	364.0	366.7	369.4	372.2	371.2	370.3	371.2	372.2	369.4
55°	334.1	335.0	336.8	339.6	342.3	344.1	343.2	343.2	343.2	344.1	342.3
57.5°	307.9	308.8	309.7	312.4	315.1	317.8	316.9	316.0	316.9	317.8	315.1
60°	280.7	281.6	282.5	285.2	287.9	289.8	288.8	288.8	288.8	289.8	287.9
62.5°	253.5	254.4	255.3	258.1	260.8	262.6	261.7	261.7	261.7	262.6	260.8
65°	227.3	228.2	229.1	230.0	231.8	233.6	233.6	233.6	233.6	233.6	231.8
67.5°	197.4	198.3	199.2	200.1	201.9	203.7	202.8	202.8	202.8	203.7	201.9
70°	170.2	171.1	172.0	172.9	174.8	175.7	174.8	174.8	174.8	175.7	174.8
72.5°	143.1	144.0	144.9	145.8	146.7	147.6	147.6	147.6	147.6	147.6	146.7
75°	116.8	116.8	117.7	118.6	119.5	120.4	119.5	119.5	119.5	120.4	119.5
77.5°	91.5	91.5	92.4	93.3	94.2	95.1	94.2	93.3	94.2	95.1	94.2
80°	67.0	67.0	67.9	68.8	69.7	70.6	69.7	68.8	69.7	70.6	69.7
82.5°	45.3	45.3	46.2	46.2	47.1	48.0	47.1	46.2	47.1	48.0	47.1
85°	26.3	26.3	27.2	27.2	28.1	28.1	27.2	26.3	27.2	28.1	28.1
87.5°	10.9	10.9	10.9	10.9	11.8	11.8	10.9	10.0	10.9	11.8	11.8
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°	741.6	741.6	741.6	741.6	741.6	741.6	741.6	741.6	741.6	741.6	741.6
2.5°	740.7	738.9	739.8	739.8	740.7	740.7	740.7	739.8	739.8	738.9	740.7
5°	737.1	736.2	736.2	736.2	738.0	739.8	738.0	736.2	736.2	736.2	737.1
7.5°	731.6	730.7	730.7	731.6	733.4	735.3	733.4	731.6	730.7	730.7	731.6
10°	723.5	721.7	721.7	721.7	723.5	725.3	723.5	721.7	721.7	721.7	723.5
12.5°	713.5	711.7	711.7	711.7	713.5	715.3	713.5	711.7	711.7	711.7	713.5
15°	701.7	699.9	699.9	699.9	701.7	702.7	701.7	699.9	699.9	699.9	701.7
17.5°	686.4	684.5	684.5	684.5	686.4	687.3	686.4	684.5	684.5	684.5	686.4
20°	670.1	668.2	667.3	667.3	669.2	670.1	669.2	667.3	667.3	668.2	670.1
22.5°	651.9	650.1	649.2	648.3	649.2	650.1	649.2	648.3	649.2	650.1	651.9
25°	632.9	630.2	629.3	628.4	629.3	629.3	629.3	628.4	629.3	630.2	632.9
27.5°	612.1	609.4	608.5	607.6	608.5	608.5	608.5	607.6	608.5	609.4	612.1
30°	589.5	586.8	585.8	584.9	584.9	584.9	584.9	584.9	585.8	586.8	589.5
32.5°	566.8	564.1	563.2	562.3	563.2	563.2	563.2	562.3	563.2	564.1	566.8
35°	543.3	540.6	538.8	537.9	539.7	540.6	539.7	537.9	538.8	540.6	543.3
37.5°	519.7	517.0	515.2	514.3	513.4	513.4	513.4	514.3	515.2	517.0	519.7
40°	495.3	492.6	490.8	489.9	489.9	489.9	489.9	489.9	490.8	492.6	495.3
42.5°	469.9	467.2	465.4	464.5	465.4	465.4	465.4	464.5	465.4	467.2	469.9
45°	444.6	441.9	440.1	439.2	439.2	439.2	439.2	439.2	440.1	441.9	444.6
47.5°	419.2	416.5	414.7	412.9	412.9	412.9	412.9	412.9	414.7	416.5	419.2
50°	392.1	389.4	388.5	387.5	386.6	386.6	386.6	387.5	388.5	389.4	392.1
52.5°	366.7	364.0	362.2	361.3	361.3	361.3	361.3	362.2	364.0	366.7	366.7
55°	339.6	336.8	335.0	334.1	335.0	335.0	335.0	334.1	335.0	336.8	339.6
57.5°	312.4	309.7	308.8	307.9	307.9	307.9	307.9	307.9	308.8	309.7	312.4
60°	285.2	282.5	281.6	280.7	280.7	280.7	280.7	280.7	281.6	282.5	285.2
62.5°	258.1	255.3	254.4	253.5	253.5	253.5	253.5	254.4	255.3	258.1	258.1
65°	230.0	229.1	228.2	227.3	226.4	226.4	226.4	227.3	228.2	229.1	230.0
67.5°	200.1	199.2	198.3	197.4	196.5	196.5	196.5	197.4	198.3	199.2	200.1
70°	172.9	172.0	171.1	170.2	169.3	169.3	169.3	170.2	171.1	172.0	172.9
72.5°	145.8	144.9	144.0	143.1	142.2	142.2	142.2	143.1	144.0	144.9	145.8
75°	118.6	117.7	116.8	116.8	115.9	115.9	115.9	116.8	116.8	117.7	118.6
77.5°	93.3	92.4	91.5	91.5	90.5	90.5	90.5	91.5	91.5	92.4	93.3
80°	68.8	67.9	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.9	68.8
82.5°	46.2	46.2	45.3	45.3	45.3	45.3	45.3	45.3	45.3	46.2	46.2
85°	27.2	27.2	26.3	26.3	26.3	26.3	26.3	26.3	26.3	27.2	27.2
87.5°	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	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):

	330°	340°	350°	360°
0°	741.6	741.6	741.6	741.6
2.5°	743.4	744.3	740.7	737.1
5°	739.8	740.7	738.0	734.3
7.5°	734.3	735.3	732.5	729.8
10°	726.2	728.0	725.3	721.7
12.5°	716.2	717.1	714.4	711.7
15°	704.5	705.4	702.7	699.9
17.5°	690.0	691.8	689.1	686.4
20°	673.7	675.5	673.7	671.0
22.5°	655.6	657.4	655.6	653.8
25°	636.6	638.4	636.6	634.7
27.5°	615.7	618.4	616.6	615.7
30°	594.0	596.7	594.9	594.0
32.5°	571.4	575.0	573.2	571.4
35°	547.8	550.5	548.7	547.8
37.5°	524.3	527.0	526.1	525.2
40°	499.8	502.5	500.7	499.8
42.5°	474.5	477.2	476.3	475.4
45°	448.2	450.9	450.0	450.0
47.5°	422.9	425.6	424.7	423.8
50°	395.7	398.4	397.5	397.5
52.5°	369.4	372.2	371.2	370.3
55°	342.3	344.1	343.2	343.2
57.5°	315.1	317.8	316.9	316.0
60°	287.9	289.8	288.8	288.8
62.5°	260.8	262.6	261.7	261.7
65°	231.8	233.6	233.6	233.6
67.5°	201.9	203.7	202.8	202.8
70°	174.8	175.7	174.8	174.8
72.5°	146.7	147.6	147.6	147.6
75°	119.5	120.4	119.5	119.5
77.5°	94.2	95.1	94.2	93.3
80°	69.7	70.6	69.7	68.8
82.5°	47.1	48.0	47.1	46.2
85°	28.1	28.1	27.2	26.3
87.5°	11.8	11.8	10.9	10.0
90°	0.0	0.0	0.0	0.0

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