

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: P709106

Luminaire Tested: **4APN-X-26L950-UNV**

Issue Date: 09/12/2023



Test Information

Test Method: LM-79-08
Report Number: P709106
Test Lab: INNOVATION CENTER(G2)
Issue Date: 09/12/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 4APN-X-26L950-UNV
Description: ArcMed Patient Recessed 4 FT x6 IN Fixture EXAM Light
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

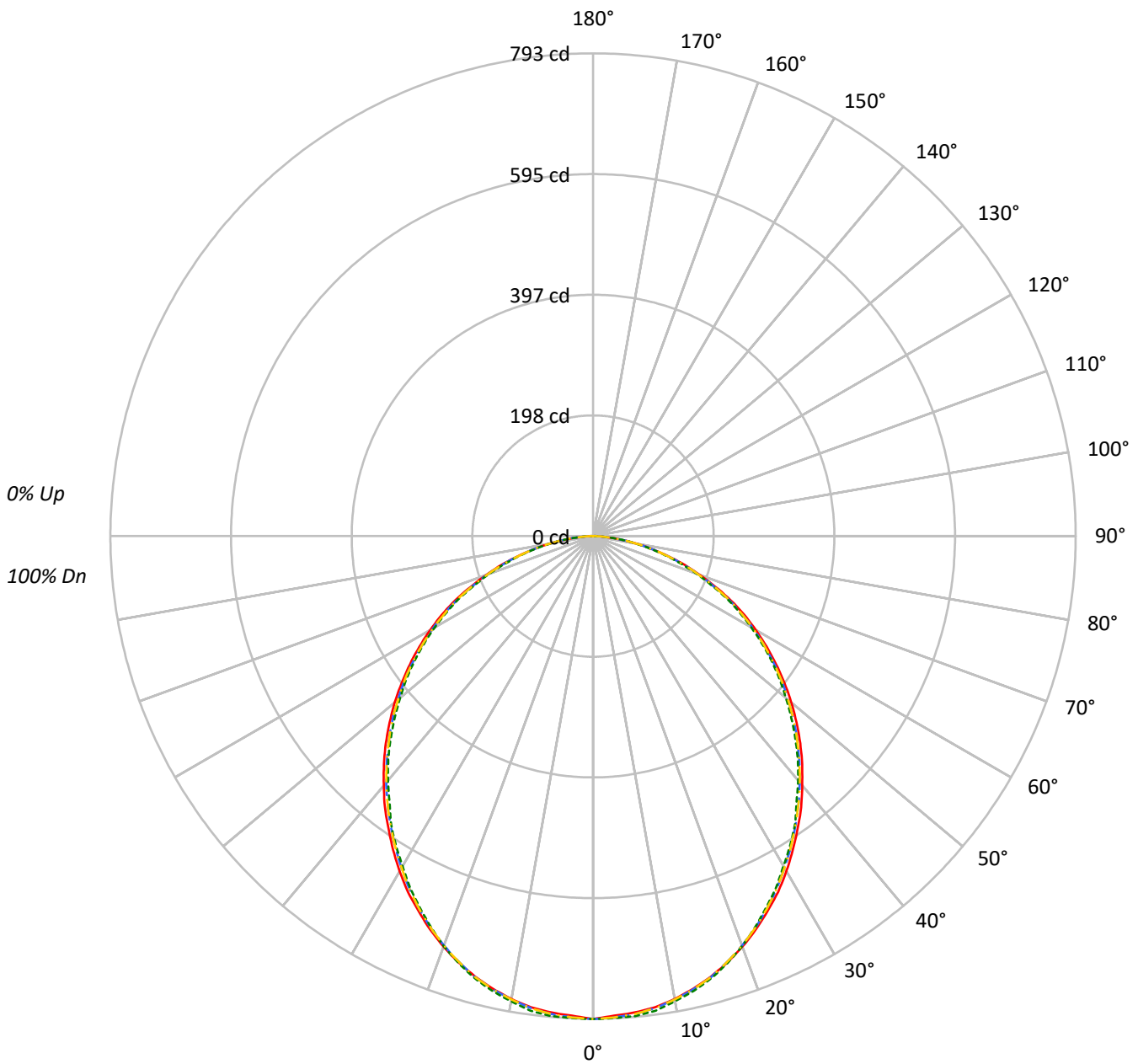
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2064.3 lumens
Efficiency: N/A
Efficacy: 73.2 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°	7320	7320	7320	7320
5°	7277	7330	7277	7330
10°	7233	7270	7233	7270
15°	7153	7181	7153	7181
20°	7049	7039	7049	7039
25°	6913	6854	6913	6854
30°	6770	6667	6770	6667
35°	6601	6515	6601	6515
40°	6441	6312	6441	6312
45°	6283	6131	6283	6131
50°	6105	5938	6105	5938
55°	5907	5767	5907	5767
60°	5702	5541	5702	5541
65°	5458	5287	5458	5287
70°	5044	4888	5044	4888
75°	4559	4420	4559	4420
80°	3910	3810	3910	3810
85°	2975	2975	2975	2975



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.9	3.6
10°-20°	211.5	10.2
20°-30°	311.7	15.1
30°-40°	363.9	17.6
40°-50°	366.9	17.8
50°-60°	324.2	15.7
60°-70°	242.5	11.7
70°-80°	134.4	6.5
80°-90°	34.5	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°	598.1	29.0
0°-40°	961.9	46.6
0°-60°	1653.0	80.1
0°-90°	2064.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2064.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	793	793	793	793	793	
5°	786	792	786	792	786	75
15°	749	752	749	752	749	211
25°	679	673	679	673	679	313
35°	586	578	586	578	586	367
45°	482	470	482	470	482	371
55°	367	358	367	358	367	328
65°	250	242	250	242	250	246
75°	128	124	128	124	128	136
85°	28	28	28	28	28	34
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°	793.4	793.4	793.4	793.4	793.4	793.4	793.4	793.4	793.4	793.4	793.4
2.5°	788.6	792.5	796.4	795.4	792.5	790.5	791.5	791.5	792.5	792.5	792.5
5°	785.7	789.6	792.5	791.5	788.6	787.6	787.6	787.6	789.6	791.5	789.6
7.5°	780.9	783.8	786.7	785.7	782.8	781.8	781.8	782.8	784.7	786.7	784.7
10°	772.1	776.0	778.9	777.0	774.1	772.1	772.1	772.1	774.1	776.0	774.1
12.5°	761.5	764.4	767.3	766.3	763.4	761.5	761.5	761.5	763.4	765.4	763.4
15°	748.9	751.8	754.7	753.7	750.8	748.9	748.9	748.9	750.8	751.8	750.8
17.5°	734.4	737.3	740.2	738.2	734.4	732.4	732.4	732.4	734.4	735.3	734.4
20°	717.9	720.8	722.7	720.8	716.9	715.0	714.0	714.0	715.9	716.9	715.9
22.5°	699.5	701.4	703.3	701.4	697.5	695.6	694.6	693.7	694.6	695.6	694.6
25°	679.1	681.1	683.0	681.1	677.2	674.3	673.3	672.3	673.3	673.3	673.3
27.5°	658.8	659.8	661.7	658.8	654.9	652.0	651.0	650.1	651.0	651.0	651.0
30°	635.5	636.5	638.4	635.5	630.7	627.8	626.8	625.8	625.8	625.8	625.8
32.5°	611.3	613.3	615.2	611.3	606.5	603.6	602.6	601.6	602.6	602.6	602.6
35°	586.1	587.1	589.0	586.1	581.3	578.4	576.4	575.5	577.4	578.4	577.4
37.5°	561.9	562.9	563.8	560.9	556.1	553.2	551.2	550.3	549.3	549.3	549.3
40°	534.8	535.7	537.7	534.8	529.9	527.0	525.1	524.1	524.1	524.1	524.1
42.5°	508.6	509.6	510.6	507.7	502.8	499.9	498.0	497.0	498.0	498.0	498.0
45°	481.5	481.5	482.5	479.6	475.7	472.8	470.8	469.9	469.9	469.9	469.9
47.5°	453.4	454.4	455.3	452.4	448.6	445.6	443.7	441.8	441.8	441.8	441.8
50°	425.3	425.3	426.3	423.4	419.5	416.6	415.6	414.6	413.7	413.7	413.7
52.5°	396.2	397.2	398.2	395.3	392.4	389.5	387.5	386.6	386.6	386.6	386.6
55°	367.2	367.2	368.1	366.2	363.3	360.4	358.5	357.5	358.5	358.5	358.5
57.5°	338.1	339.1	340.0	337.1	334.2	331.3	330.4	329.4	329.4	329.4	329.4
60°	309.0	309.0	310.0	308.1	305.2	302.3	301.3	300.3	300.3	300.3	300.3
62.5°	280.0	280.0	281.0	279.0	276.1	273.2	272.2	271.3	271.3	271.3	271.3
65°	250.0	250.0	250.0	248.0	246.1	245.1	244.1	243.2	242.2	242.2	242.2
67.5°	217.0	217.0	218.0	216.0	214.1	213.1	212.2	211.2	210.2	210.2	210.2
70°	187.0	187.0	187.9	187.0	185.0	184.1	183.1	182.1	181.2	181.2	181.2
72.5°	157.9	157.9	157.9	156.9	156.0	155.0	154.0	153.1	152.1	152.1	152.1
75°	127.9	127.9	128.9	127.9	126.9	125.9	125.0	125.0	124.0	124.0	124.0
77.5°	99.8	100.8	101.7	100.8	99.8	98.8	97.8	97.8	96.9	96.9	96.9
80°	73.6	74.6	75.6	74.6	73.6	72.7	71.7	71.7	71.7	71.7	71.7
82.5°	49.4	50.4	51.3	50.4	49.4	49.4	48.4	48.4	48.4	48.4	48.4
85°	28.1	29.1	30.0	30.0	29.1	29.1	28.1	28.1	28.1	28.1	28.1
87.5°	10.7	11.6	12.6	12.6	11.6	11.6	11.6	11.6	11.6	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):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	793.4	793.4	793.4	793.4	793.4	793.4	793.4	793.4	793.4	793.4	793.4
2.5°	791.5	791.5	790.5	792.5	795.4	796.4	792.5	788.6	792.5	796.4	795.4
5°	787.6	787.6	787.6	788.6	791.5	792.5	789.6	785.7	789.6	792.5	791.5
7.5°	782.8	781.8	781.8	782.8	785.7	786.7	783.8	780.9	783.8	786.7	785.7
10°	772.1	772.1	772.1	774.1	777.0	778.9	776.0	772.1	776.0	778.9	777.0
12.5°	761.5	761.5	761.5	763.4	766.3	767.3	764.4	761.5	764.4	767.3	766.3
15°	748.9	748.9	748.9	750.8	753.7	754.7	751.8	748.9	751.8	754.7	753.7
17.5°	732.4	732.4	732.4	734.4	738.2	740.2	737.3	734.4	737.3	740.2	738.2
20°	714.0	714.0	715.0	716.9	720.8	722.7	720.8	717.9	720.8	722.7	720.8
22.5°	693.7	694.6	695.6	697.5	701.4	703.3	701.4	699.5	701.4	703.3	701.4
25°	672.3	673.3	674.3	677.2	681.1	683.0	681.1	679.1	681.1	683.0	681.1
27.5°	650.1	651.0	652.0	654.9	658.8	661.7	659.8	658.8	659.8	661.7	658.8
30°	625.8	626.8	627.8	630.7	635.5	638.4	636.5	635.5	636.5	638.4	635.5
32.5°	601.6	602.6	603.6	606.5	611.3	615.2	613.3	611.3	613.3	615.2	611.3
35°	575.5	576.4	578.4	581.3	586.1	589.0	587.1	586.1	587.1	589.0	586.1
37.5°	550.3	551.2	553.2	556.1	560.9	563.8	562.9	561.9	562.9	563.8	560.9
40°	524.1	525.1	527.0	529.9	534.8	537.7	535.7	534.8	535.7	537.7	534.8
42.5°	497.0	498.0	499.9	502.8	507.7	510.6	509.6	508.6	509.6	510.6	507.7
45°	469.9	470.8	472.8	475.7	479.6	482.5	481.5	481.5	481.5	482.5	479.6
47.5°	441.8	443.7	445.6	448.6	452.4	455.3	454.4	453.4	454.4	455.3	452.4
50°	414.6	415.6	416.6	419.5	423.4	426.3	425.3	425.3	425.3	426.3	423.4
52.5°	386.6	387.5	389.5	392.4	395.3	398.2	397.2	396.2	397.2	398.2	395.3
55°	357.5	358.5	360.4	363.3	366.2	368.1	367.2	367.2	367.2	368.1	366.2
57.5°	329.4	330.4	331.3	334.2	337.1	340.0	339.1	338.1	339.1	340.0	337.1
60°	300.3	301.3	302.3	305.2	308.1	310.0	309.0	309.0	309.0	310.0	308.1
62.5°	271.3	272.2	273.2	276.1	279.0	281.0	280.0	280.0	280.0	281.0	279.0
65°	243.2	244.1	245.1	246.1	248.0	250.0	250.0	250.0	250.0	250.0	248.0
67.5°	211.2	212.2	213.1	214.1	216.0	218.0	217.0	217.0	217.0	218.0	216.0
70°	182.1	183.1	184.1	185.0	187.0	187.9	187.0	187.0	187.0	187.9	187.0
72.5°	153.1	154.0	155.0	156.0	156.9	157.9	157.9	157.9	157.9	157.9	156.9
75°	125.0	125.0	125.9	126.9	127.9	128.9	127.9	127.9	127.9	128.9	127.9
77.5°	97.8	97.8	98.8	99.8	100.8	101.7	100.8	99.8	100.8	101.7	100.8
80°	71.7	71.7	72.7	73.6	74.6	75.6	74.6	73.6	74.6	75.6	74.6
82.5°	48.4	48.4	49.4	49.4	50.4	51.3	50.4	49.4	50.4	51.3	50.4
85°	28.1	28.1	29.1	29.1	30.0	30.0	29.1	28.1	29.1	30.0	30.0
87.5°	11.6	11.6	11.6	11.6	12.6	12.6	11.6	10.7	11.6	12.6	12.6
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°	793.4	793.4	793.4	793.4	793.4	793.4	793.4	793.4	793.4	793.4	793.4
2.5°	792.5	790.5	791.5	791.5	792.5	792.5	792.5	791.5	791.5	790.5	792.5
5°	788.6	787.6	787.6	787.6	789.6	791.5	789.6	787.6	787.6	787.6	788.6
7.5°	782.8	781.8	781.8	782.8	784.7	786.7	784.7	782.8	781.8	781.8	782.8
10°	774.1	772.1	772.1	772.1	774.1	776.0	774.1	772.1	772.1	772.1	774.1
12.5°	763.4	761.5	761.5	761.5	763.4	765.4	763.4	761.5	761.5	761.5	763.4
15°	750.8	748.9	748.9	748.9	750.8	751.8	750.8	748.9	748.9	748.9	750.8
17.5°	734.4	732.4	732.4	732.4	734.4	735.3	734.4	732.4	732.4	732.4	734.4
20°	716.9	715.0	714.0	714.0	715.9	716.9	715.9	714.0	714.0	715.0	716.9
22.5°	697.5	695.6	694.6	693.7	694.6	695.6	694.6	693.7	694.6	695.6	697.5
25°	677.2	674.3	673.3	672.3	673.3	673.3	673.3	672.3	673.3	674.3	677.2
27.5°	654.9	652.0	651.0	650.1	651.0	651.0	651.0	650.1	651.0	652.0	654.9
30°	630.7	627.8	626.8	625.8	625.8	625.8	625.8	625.8	626.8	627.8	630.7
32.5°	606.5	603.6	602.6	601.6	602.6	602.6	602.6	601.6	602.6	603.6	606.5
35°	581.3	578.4	576.4	575.5	577.4	578.4	577.4	575.5	576.4	578.4	581.3
37.5°	556.1	553.2	551.2	550.3	549.3	549.3	549.3	550.3	551.2	553.2	556.1
40°	529.9	527.0	525.1	524.1	524.1	524.1	524.1	524.1	525.1	527.0	529.9
42.5°	502.8	499.9	498.0	497.0	498.0	498.0	498.0	497.0	498.0	499.9	502.8
45°	475.7	472.8	470.8	469.9	469.9	469.9	469.9	469.9	470.8	472.8	475.7
47.5°	448.6	445.6	443.7	441.8	441.8	441.8	441.8	441.8	443.7	445.6	448.6
50°	419.5	416.6	415.6	414.6	413.7	413.7	413.7	414.6	415.6	416.6	419.5
52.5°	392.4	389.5	387.5	386.6	386.6	386.6	386.6	386.6	387.5	389.5	392.4
55°	363.3	360.4	358.5	357.5	358.5	358.5	358.5	357.5	358.5	360.4	363.3
57.5°	334.2	331.3	330.4	329.4	329.4	329.4	329.4	329.4	330.4	331.3	334.2
60°	305.2	302.3	301.3	300.3	300.3	300.3	300.3	300.3	301.3	302.3	305.2
62.5°	276.1	273.2	272.2	271.3	271.3	271.3	271.3	271.3	272.2	273.2	276.1
65°	246.1	245.1	244.1	243.2	242.2	242.2	242.2	243.2	244.1	245.1	246.1
67.5°	214.1	213.1	212.2	211.2	210.2	210.2	210.2	211.2	212.2	213.1	214.1
70°	185.0	184.1	183.1	182.1	181.2	181.2	181.2	182.1	183.1	184.1	185.0
72.5°	156.0	155.0	154.0	153.1	152.1	152.1	152.1	153.1	154.0	155.0	156.0
75°	126.9	125.9	125.0	125.0	124.0	124.0	124.0	125.0	125.0	125.9	126.9
77.5°	99.8	98.8	97.8	97.8	96.9	96.9	96.9	97.8	97.8	98.8	99.8
80°	73.6	72.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	72.7	73.6
82.5°	49.4	49.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	49.4	49.4
85°	29.1	29.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	29.1	29.1
87.5°	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	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):

	330°	340°	350°	360°
0°	793.4	793.4	793.4	793.4
2.5°	795.4	796.4	792.5	788.6
5°	791.5	792.5	789.6	785.7
7.5°	785.7	786.7	783.8	780.9
10°	777.0	778.9	776.0	772.1
12.5°	766.3	767.3	764.4	761.5
15°	753.7	754.7	751.8	748.9
17.5°	738.2	740.2	737.3	734.4
20°	720.8	722.7	720.8	717.9
22.5°	701.4	703.3	701.4	699.5
25°	681.1	683.0	681.1	679.1
27.5°	658.8	661.7	659.8	658.8
30°	635.5	638.4	636.5	635.5
32.5°	611.3	615.2	613.3	611.3
35°	586.1	589.0	587.1	586.1
37.5°	560.9	563.8	562.9	561.9
40°	534.8	537.7	535.7	534.8
42.5°	507.7	510.6	509.6	508.6
45°	479.6	482.5	481.5	481.5
47.5°	452.4	455.3	454.4	453.4
50°	423.4	426.3	425.3	425.3
52.5°	395.3	398.2	397.2	396.2
55°	366.2	368.1	367.2	367.2
57.5°	337.1	340.0	339.1	338.1
60°	308.1	310.0	309.0	309.0
62.5°	279.0	281.0	280.0	280.0
65°	248.0	250.0	250.0	250.0
67.5°	216.0	218.0	217.0	217.0
70°	187.0	187.9	187.0	187.0
72.5°	156.9	157.9	157.9	157.9
75°	127.9	128.9	127.9	127.9
77.5°	100.8	101.7	100.8	99.8
80°	74.6	75.6	74.6	73.6
82.5°	50.4	51.3	50.4	49.4
85°	30.0	30.0	29.1	28.1
87.5°	12.6	12.6	11.6	10.7
90°	0.0	0.0	0.0	0.0

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