

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: STREETWORKS

Report Number: P636868

Luminaire Tested: **IFLD-M-SA4A-927-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636868
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-927-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (64) 2700K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8617.2 lumens
Efficiency: N/A
Efficacy: 67.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

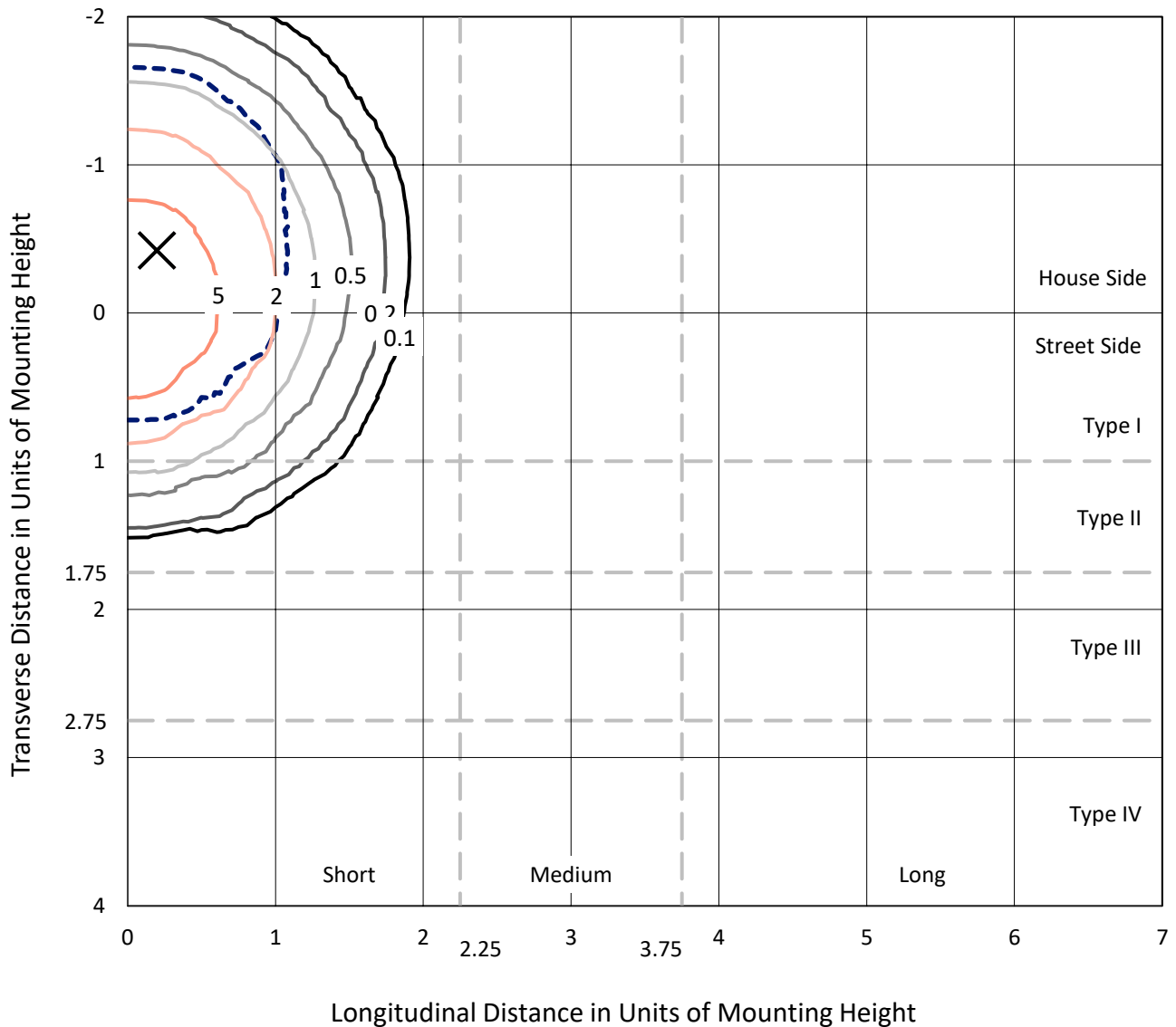
Input Watts (W): 128.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

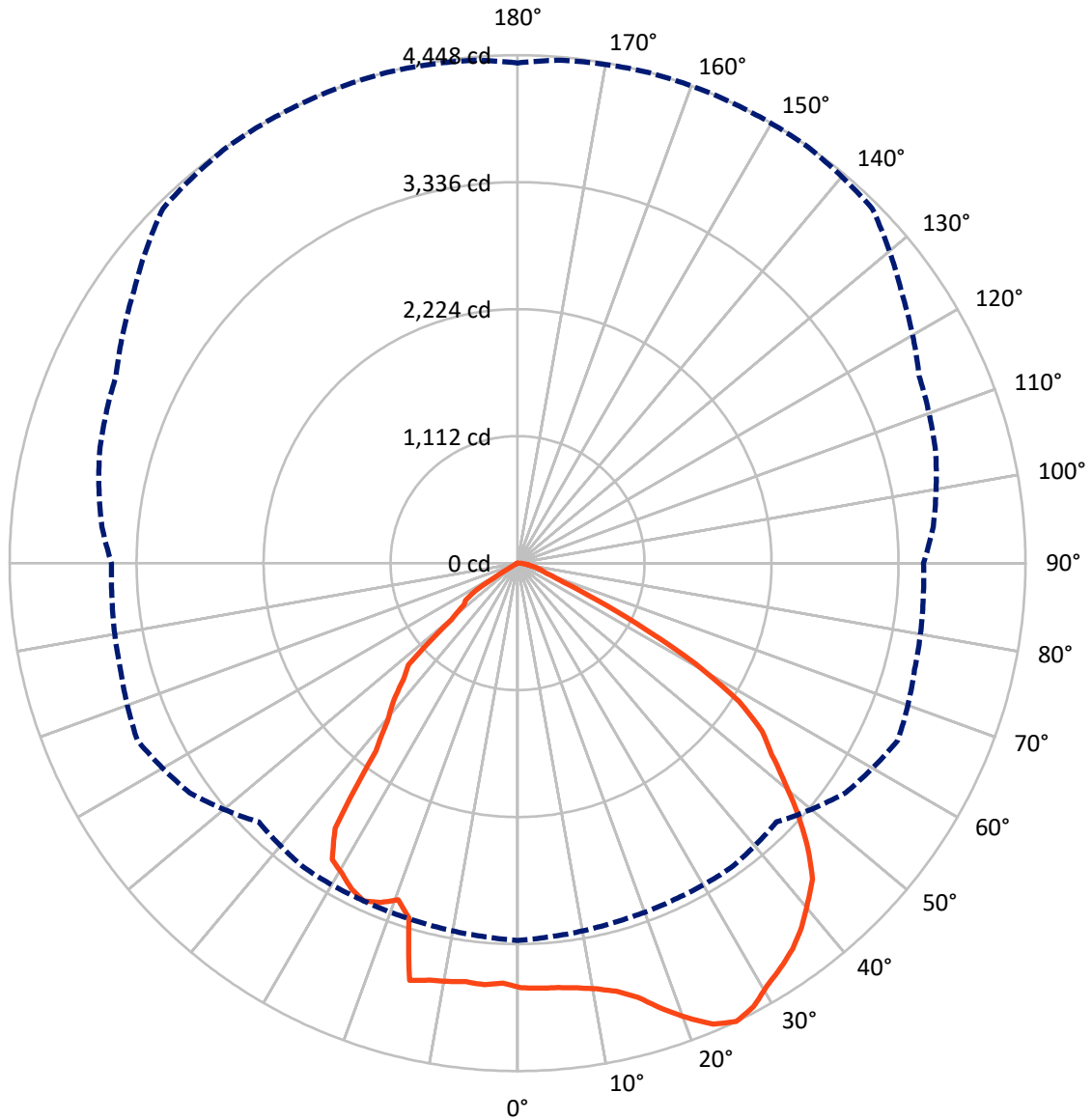
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.3 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 25-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5334.9	0.0	5334.9
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	3282.3	0.0	3282.3
	% Fixture	38.1	0.0	38.1
Total	Lumens	8617.2	0.0	8617.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.7	4.1
10°-20°	1089.2	12.6
20°-30°	1722.0	20.0
30°-40°	1945.1	22.6
40°-50°	1821.6	21.1
50°-60°	1255.9	14.6
60°-70°	337.4	3.9
70°-80°	70.3	0.8
80°-90°	19.0	0.2
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°-90°	8617.2	100.0
0°-180°	8617.2	100.0



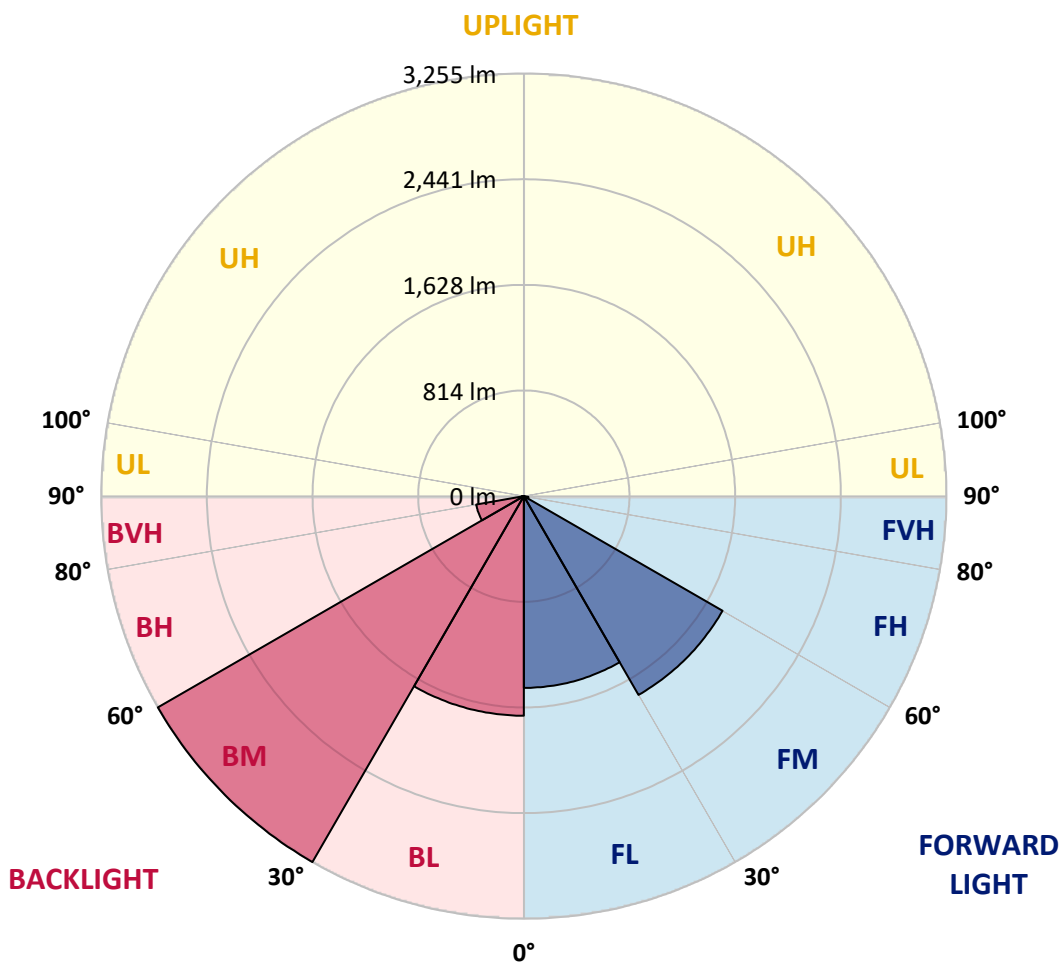
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1476.7	17.1			
FM (30°-60°)	1767.6	20.5			
FH (60°-80°)	35.4	0.4			G0/660
FVH (80°-90°)	2.6	0.0			G0/10
BL (0°-30°)	1691.1	19.6	B3/2500		
BM (30°-60°)	3255.0	37.8	B3/5000		
BH (60°-80°)	372.3	4.3	B1/500		G1/500
BVH (80°-90°)	16.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3718.2	3718.2	3718.2	3718.2	3718.2	3718.2	3718.2	3718.2	3718.2	3718.2
2.5°	3734.6	3710.6	3687.8	3680.2	3711.8	3746.0	3724.5	3725.8	3718.2	3732.1
5°	3762.5	3729.6	3714.4	3703.0	3708.0	3743.5	3713.1	3724.5	3711.8	3728.3
7.5°	3752.4	3729.6	3714.4	3692.8	3709.3	3751.1	3722.0	3723.2	3716.9	3732.1
10°	3746.0	3729.6	3710.6	3713.1	3732.1	3767.6	3744.8	3757.4	3748.6	3757.4
12.5°	3761.2	3743.5	3733.4	3733.4	3749.8	3790.4	3779.0	3790.4	3786.6	3794.2
15°	3618.1	3634.6	3730.8	3773.9	3806.8	3847.3	3842.3	3853.7	3856.2	3867.6
17.5°	3052.0	3035.6	3028.0	3249.6	3838.5	3963.9	3960.1	3958.8	3946.1	3937.3
20°	3126.8	3120.4	3111.6	3128.0	3193.9	4024.6	4050.0	3894.2	3848.6	3844.8
22.5°	3245.8	3235.7	3202.7	3204.0	3224.3	3499.1	3924.6	3782.8	3767.6	3758.7
25°	3304.1	3283.8	3257.2	3249.6	3255.9	3205.3	3505.4	3673.8	3599.1	3564.9
27.5°	3201.5	3202.7	3181.2	3201.5	3177.4	2949.5	2821.6	3461.1	3458.6	3443.4
30°	3124.2	3120.4	3095.1	3120.4	2954.5	2700.0	2645.5	3228.1	3201.5	3181.2
32.5°	2887.4	2889.9	2963.4	3062.2	2789.9	2588.5	2423.9	2883.6	3135.6	3124.2
35°	2065.5	2070.6	2331.5	2819.0	2540.4	2366.9	2354.2	2492.3	3031.8	3036.8
37.5°	1988.3	1988.3	1981.9	2061.7	2344.1	2277.0	2302.3	2288.4	2777.2	2789.9
40°	1932.5	1921.1	1912.3	1786.9	1629.9	2213.7	2231.4	2168.1	2625.3	2627.8
42.5°	1865.4	1852.8	1855.3	1623.5	1458.9	2056.6	2007.3	1922.4	2372.0	2374.5
45°	1742.6	1764.1	1779.3	1420.9	1408.2	1469.0	1851.5	1798.3	2201.0	2247.9
47.5°	886.5	905.5	1389.2	1306.9	1336.1	1305.7	1564.0	1565.3	1831.2	1987.0
50°	804.2	799.1	800.4	762.4	1233.5	1056.2	1130.9	1434.8	1466.5	1689.4
52.5°	749.7	748.4	671.2	596.5	775.0	929.5	820.6	1038.5	1090.4	1431.0
55°	554.7	595.2	529.4	561.0	485.0	744.6	740.8	937.1	954.9	1147.4
57.5°	5.1	6.3	15.2	426.8	335.6	372.3	511.6	639.5	671.2	894.1
60°	1.3	2.5	6.3	12.7	217.8	229.2	341.9	369.8	416.6	533.2
62.5°	0.0	0.0	2.5	6.3	11.4	93.7	108.9	119.0	183.6	272.3
65°	0.0	0.0	1.3	3.8	6.3	15.2	26.6	55.7	79.8	98.8
67.5°	0.0	0.0	1.3	2.5	5.1	7.6	15.2	21.5	34.2	58.3
70°	0.0	0.0	1.3	2.5	3.8	6.3	10.1	15.2	20.3	29.1
72.5°	0.0	0.0	1.3	2.5	2.5	7.6	7.6	11.4	15.2	19.0
75°	0.0	0.0	1.3	1.3	2.5	5.1	7.6	8.9	10.1	15.2
77.5°	0.0	0.0	1.3	2.5	3.8	5.1	6.3	10.1	8.9	8.9
80°	0.0	0.0	1.3	3.8	3.8	6.3	7.6	10.1	6.3	6.3
82.5°	0.0	0.0	1.3	5.1	3.8	12.7	12.7	13.9	5.1	5.1
85°	0.0	0.0	3.8	2.5	7.6	12.7	11.4	7.6	6.3	3.8
87.5°	0.0	0.0	1.3	1.3	2.5	3.8	8.9	7.6	2.5	2.5
90°	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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
3718.2	0°	3718.2	3718.2	3718.2	3718.2	3718.2	3718.2	3718.2	3718.2	3718.2
3695.4	2.5°	3746.0	3729.6	3763.8	3760.0	3743.5	3735.9	3727.0	3719.4	3663.7
3697.9	5°	3747.3	3722.0	3763.8	3756.2	3753.6	3741.0	3733.4	3744.8	3694.1
3708.0	7.5°	3747.3	3722.0	3767.6	3770.1	3766.3	3756.2	3754.9	3762.5	3720.7
3725.8	10°	3772.6	3762.5	3800.5	3804.3	3799.2	3796.7	3790.4	3785.3	3741.0
3786.6	12.5°	3825.8	3805.6	3848.6	3860.0	3856.2	3862.5	3847.3	3854.9	3809.4
3848.6	15°	3890.4	3891.7	3924.6	3949.9	3947.4	3967.7	3944.9	3965.1	3932.2
3919.5	17.5°	3989.2	4003.1	4050.0	4088.0	4101.9	4117.1	4101.9	4108.2	4061.4
3841.0	20°	3885.3	3937.3	4162.7	4232.3	4261.5	4275.4	4250.1	4257.7	4210.8
3744.8	22.5°	3791.6	3858.7	4058.8	4276.7	4366.6	4394.4	4385.6	4384.3	4366.6
3554.8	25°	3653.6	3789.1	3879.0	4109.5	4391.9	4442.6	4447.6	4446.4	4419.8
3438.3	27.5°	3483.9	3514.3	3747.3	3887.9	4214.6	4407.1	4399.5	4362.8	4327.3
3196.4	30°	3267.3	3405.4	3510.5	3734.6	3985.4	4298.2	4298.2	4270.3	4233.6
3110.3	32.5°	3157.2	3335.7	3433.2	3514.3	3728.3	4176.6	4227.3	4198.1	4169.0
3043.2	35°	3098.9	3125.5	3353.4	3426.9	3608.0	3942.3	4147.5	4118.4	4096.8
2864.6	37.5°	2971.0	3033.0	3139.4	3335.7	3391.4	3751.1	4041.1	4025.9	4000.6
2632.9	40°	2686.0	2851.9	3015.3	3201.5	3259.7	3505.4	3911.9	3918.3	3884.1
2385.9	42.5°	2517.6	2630.3	2886.1	3011.5	3168.5	3347.1	3786.6	3796.7	3772.6
2260.5	45°	2320.1	2445.4	2625.3	2853.2	3067.2	3129.3	3564.9	3671.3	3651.1
2011.1	47.5°	2139.0	2240.3	2460.6	2691.1	2927.9	2919.1	3310.4	3510.5	3482.6
1819.8	50°	1881.9	2059.2	2163.0	2374.5	2727.8	2751.9	3039.4	3321.8	3299.0
1546.3	52.5°	1586.8	1809.7	2008.5	2202.3	2525.2	2582.2	2787.4	3129.3	3114.1
1181.6	55°	1386.7	1548.8	1773.0	1928.7	2279.5	2431.5	2598.7	2945.7	2938.1
971.3	57.5°	986.5	1299.3	1484.2	1702.1	1886.9	2161.8	2285.9	2572.1	2501.2
538.2	60°	668.7	815.6	1041.0	1275.3	1399.4	1674.2	1789.4	2018.7	1999.7
321.7	62.5°	353.3	488.8	649.7	767.4	857.4	1124.6	1172.7	1419.6	1413.3
129.2	65°	155.8	206.4	352.1	412.8	505.3	629.4	671.2	759.8	738.3
63.3	67.5°	81.1	122.8	198.8	244.4	307.7	354.6	388.8	416.6	434.4
41.8	70°	49.4	89.9	122.8	169.7	211.5	249.5	276.1	314.1	336.9
21.5	72.5°	36.7	57.0	84.8	130.4	153.2	197.6	224.2	252.0	272.3
17.7	75°	20.3	38.0	68.4	102.6	122.8	160.8	184.9	203.9	210.2
10.1	77.5°	12.7	29.1	57.0	79.8	96.2	130.4	124.1	141.8	157.0
7.6	80°	8.9	21.5	44.3	65.9	67.1	83.6	98.8	114.0	124.1
5.1	82.5°	6.3	17.7	32.9	50.7	44.3	64.6	77.3	88.6	64.6
3.8	85°	5.1	12.7	16.5	30.4	25.3	45.6	39.3	38.0	25.3
2.5	87.5°	3.8	6.3	11.4	13.9	10.1	10.1	12.7	15.2	12.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
3718.2
3625.7
3651.1
3672.6
3704.2
3768.8
3877.7
4020.8
4177.9
4309.6
4379.2
4299.5
4219.7
4144.9
4066.4
3975.3
3876.5
3770.1
3653.6
3502.9
3302.8
3124.2
2946.9
2493.6
2000.9
1414.6
729.5
434.4
338.1
276.1
206.4
159.6
125.4
46.9
25.3
12.7
0.0

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