

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: P636897

Luminaire Tested: **IFLD-M-SA4A-930-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636897
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-930-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (64) 3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8711.1 lumens
Efficiency: N/A
Efficacy: 67.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

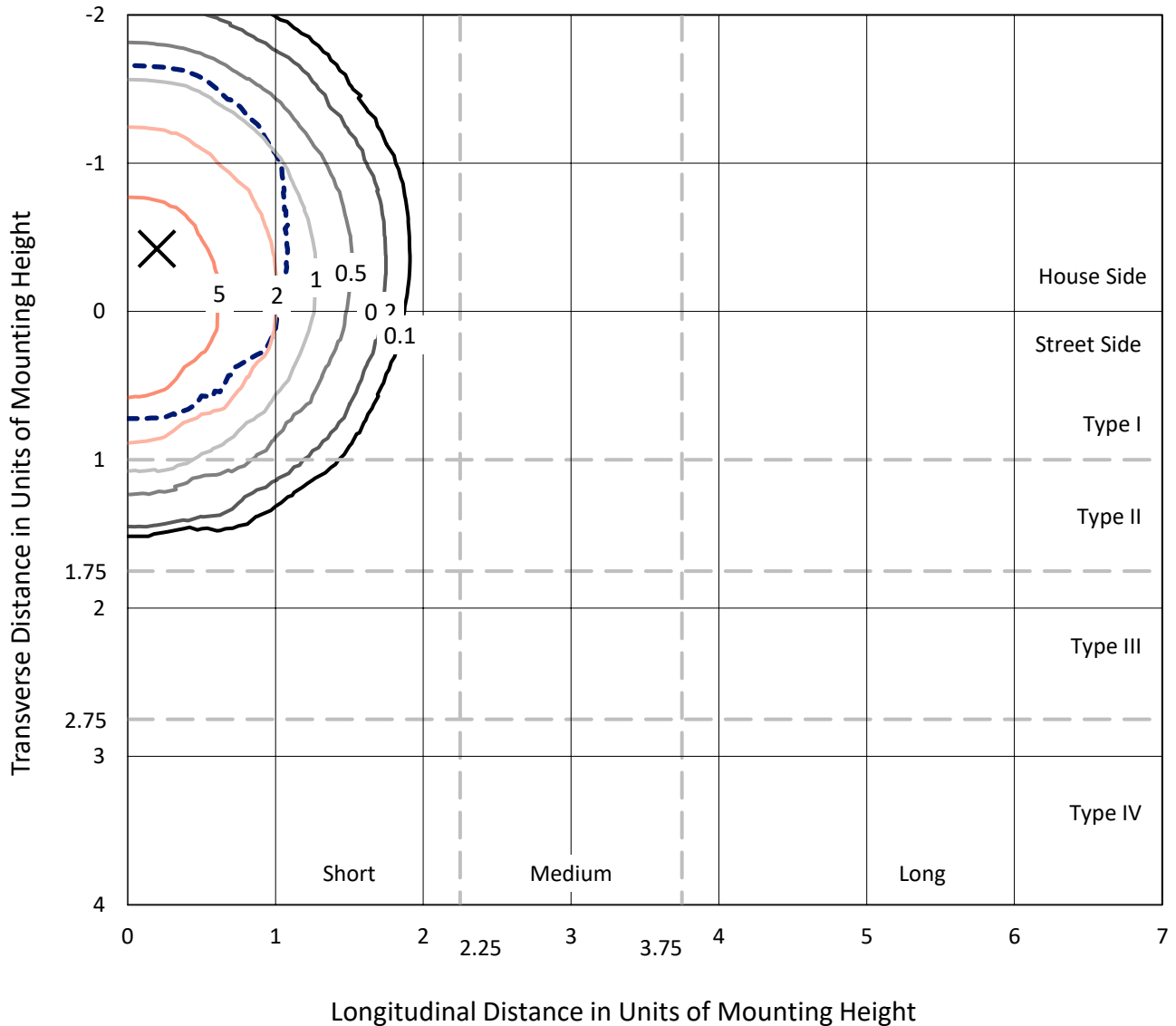
Input Watts (W): 128.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

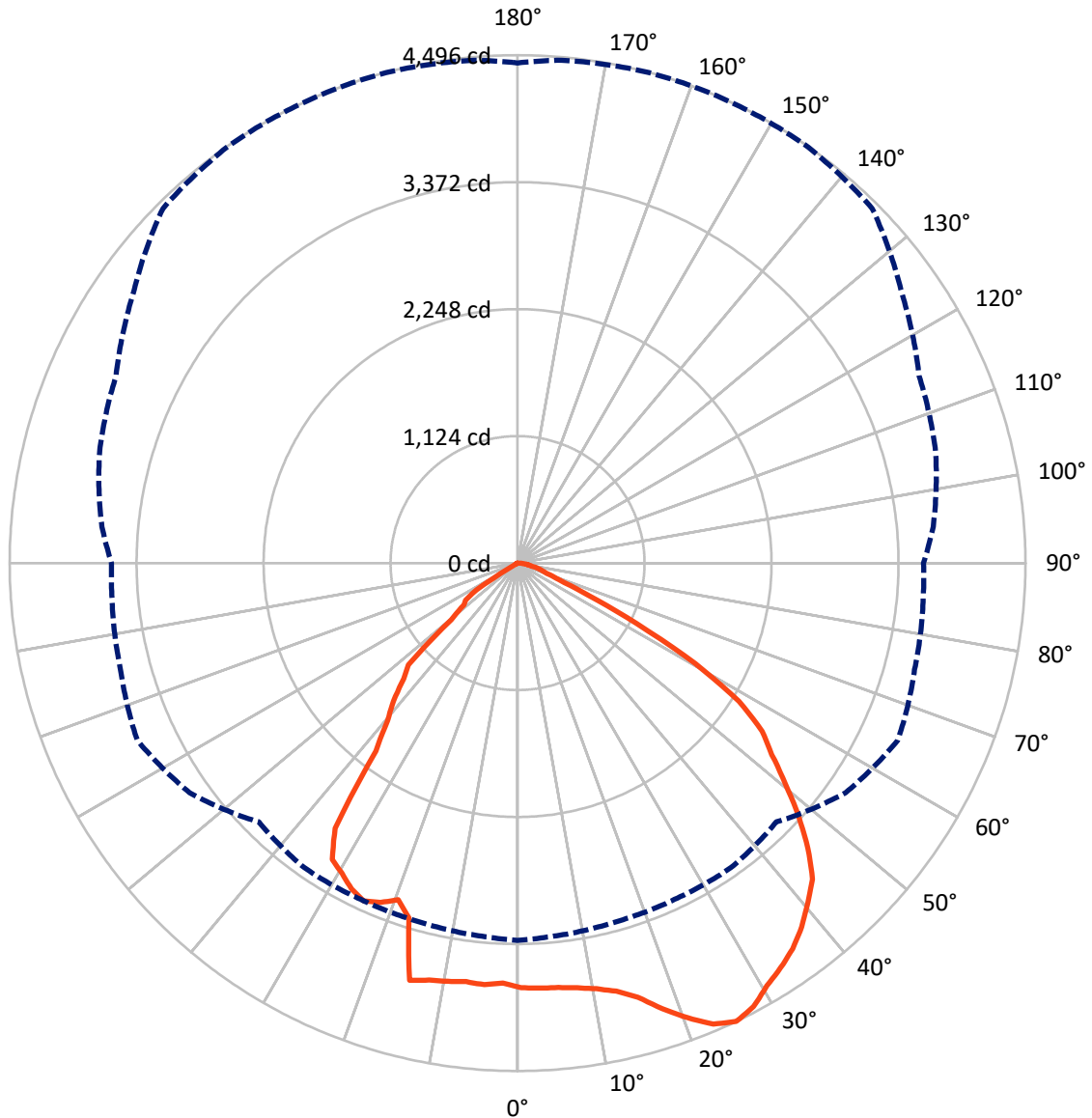
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.4 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	5393.1	0.0	5393.1
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	3318.0	0.0	3318.0
	% Fixture	38.1	0.0	38.1
Total	Lumens	8711.1	0.0	8711.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.6	4.1
10°-20°	1101.1	12.6
20°-30°	1740.7	20.0
30°-40°	1966.3	22.6
40°-50°	1841.5	21.1
50°-60°	1269.6	14.6
60°-70°	341.1	3.9
70°-80°	71.1	0.8
80°-90°	19.2	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°	8711.1	100.0
0°-180°	8711.1	100.0



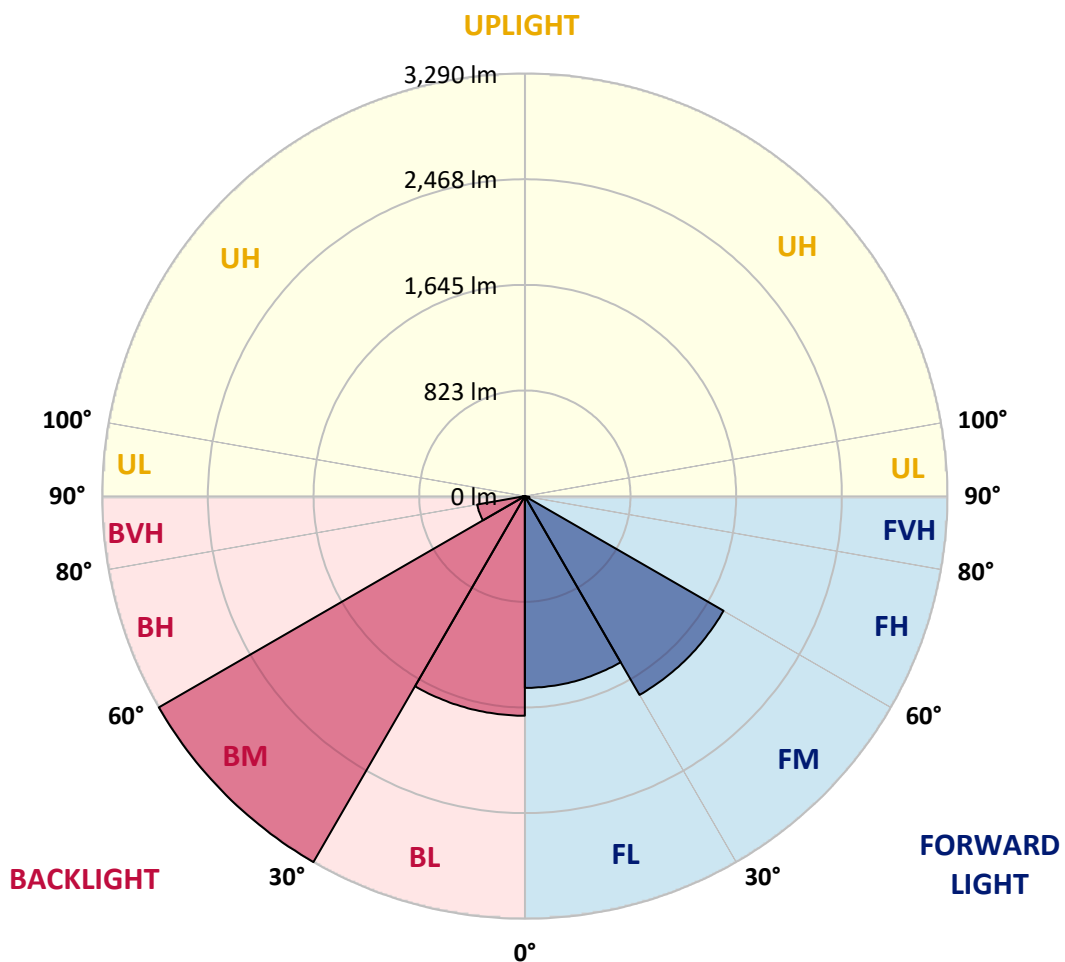
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1492.8	17.1			
FM (30°-60°)	1786.8	20.5			
FH (60°-80°)	35.8	0.4			G0/660
FVH (80°-90°)	2.6	0.0			G0/10
BL (0°-30°)	1709.6	19.6	B3/2500		
BM (30°-60°)	3290.5	37.8	B3/5000		
BH (60°-80°)	376.4	4.3	B1/500		G1/500
BVH (80°-90°)	16.6	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°	3758.7	3758.7	3758.7	3758.7	3758.7	3758.7	3758.7	3758.7	3758.7	3758.7
2.5°	3775.3	3751.0	3728.0	3720.3	3752.3	3786.9	3765.1	3766.4	3758.7	3772.8
5°	3803.5	3770.2	3754.9	3743.3	3748.5	3784.3	3753.6	3765.1	3752.3	3768.9
7.5°	3793.3	3770.2	3754.9	3733.1	3749.7	3792.0	3762.5	3763.8	3757.4	3772.8
10°	3786.9	3770.2	3751.0	3753.6	3772.8	3808.6	3785.6	3798.4	3789.4	3798.4
12.5°	3802.2	3784.3	3774.1	3774.1	3790.7	3831.7	3820.1	3831.7	3827.8	3835.5
15°	3657.6	3674.2	3771.5	3815.0	3848.3	3889.3	3884.2	3895.7	3898.2	3909.8
17.5°	3085.3	3068.7	3061.0	3285.0	3880.3	4007.1	4003.2	4001.9	3989.1	3980.2
20°	3160.8	3154.4	3145.5	3162.1	3228.7	4068.5	4094.1	3936.6	3890.6	3886.7
22.5°	3281.2	3270.9	3237.6	3238.9	3259.4	3537.2	3967.4	3824.0	3808.6	3799.7
25°	3340.1	3319.6	3292.7	3285.0	3291.4	3240.2	3543.6	3713.9	3638.4	3603.8
27.5°	3236.4	3237.6	3215.9	3236.4	3212.0	2981.6	2852.3	3498.8	3496.3	3480.9
30°	3158.3	3154.4	3128.8	3154.4	2986.7	2729.4	2674.4	3263.3	3236.4	3215.9
32.5°	2918.9	2921.4	2995.7	3095.5	2820.3	2616.7	2450.3	2915.0	3169.8	3158.3
35°	2088.0	2093.1	2356.9	2849.7	2568.1	2392.7	2379.9	2519.5	3064.8	3069.9
37.5°	2009.9	2009.9	2003.5	2084.2	2369.7	2301.8	2327.4	2313.3	2807.5	2820.3
40°	1953.6	1942.1	1933.1	1806.4	1647.6	2237.8	2255.7	2191.7	2653.9	2656.4
42.5°	1885.7	1872.9	1875.5	1641.2	1474.8	2079.1	2029.1	1943.4	2397.8	2400.4
45°	1761.6	1783.3	1798.7	1436.4	1423.6	1485.0	1871.7	1817.9	2225.0	2272.4
47.5°	896.1	915.3	1404.4	1321.2	1350.6	1319.9	1581.1	1582.3	1851.2	2008.6
50°	812.9	807.8	809.1	770.7	1246.9	1067.7	1143.2	1450.5	1482.5	1707.8
52.5°	757.9	756.6	678.5	603.0	783.5	939.7	829.6	1049.8	1102.3	1446.6
55°	560.7	601.7	535.1	567.1	490.3	752.8	748.9	947.4	965.3	1159.9
57.5°	5.1	6.4	15.4	431.4	339.3	376.4	517.2	646.5	678.5	903.8
60°	1.3	2.6	6.4	12.8	220.2	231.7	345.7	373.8	421.2	539.0
62.5°	0.0	0.0	2.6	6.4	11.5	94.7	110.1	120.3	185.6	275.2
65°	0.0	0.0	1.3	3.8	6.4	15.4	26.9	56.3	80.7	99.9
67.5°	0.0	0.0	1.3	2.6	5.1	7.7	15.4	21.8	34.6	58.9
70°	0.0	0.0	1.3	2.6	3.8	6.4	10.2	15.4	20.5	29.4
72.5°	0.0	0.0	1.3	2.6	2.6	7.7	7.7	11.5	15.4	19.2
75°	0.0	0.0	1.3	1.3	2.6	5.1	7.7	9.0	10.2	15.4
77.5°	0.0	0.0	1.3	2.6	3.8	5.1	6.4	10.2	9.0	9.0
80°	0.0	0.0	1.3	3.8	3.8	6.4	7.7	10.2	6.4	6.4
82.5°	0.0	0.0	1.3	5.1	3.8	12.8	12.8	14.1	5.1	5.1
85°	0.0	0.0	3.8	2.6	7.7	12.8	11.5	7.7	6.4	3.8
87.5°	0.0	0.0	1.3	1.3	2.6	3.8	9.0	7.7	2.6	2.6
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°
3758.7	0°	3758.7	3758.7	3758.7	3758.7	3758.7	3758.7	3758.7	3758.7	3758.7
3735.6	2.5°	3786.9	3770.2	3804.8	3800.9	3784.3	3776.6	3767.7	3760.0	3703.6
3738.2	5°	3788.1	3762.5	3804.8	3797.1	3794.5	3781.7	3774.1	3785.6	3734.4
3748.5	7.5°	3788.1	3762.5	3808.6	3811.2	3807.3	3797.1	3795.8	3803.5	3761.3
3766.4	10°	3813.7	3803.5	3841.9	3845.7	3840.6	3838.1	3831.7	3826.5	3781.7
3827.8	12.5°	3867.5	3847.0	3890.6	3902.1	3898.2	3904.6	3889.3	3897.0	3850.9
3890.6	15°	3932.8	3934.1	3967.4	3993.0	3990.4	4010.9	3987.9	4008.3	3975.0
3962.2	17.5°	4032.7	4046.7	4094.1	4132.5	4146.6	4162.0	4146.6	4153.0	4105.6
3882.9	20°	3927.7	3980.2	4208.0	4278.5	4307.9	4322.0	4296.4	4304.1	4256.7
3785.6	22.5°	3832.9	3900.8	4103.1	4323.3	4414.2	4442.3	4433.4	4432.1	4414.2
3593.5	25°	3693.4	3830.4	3921.3	4154.3	4439.8	4491.0	4496.1	4494.8	4467.9
3475.8	27.5°	3521.9	3552.6	3788.1	3930.2	4260.5	4455.1	4447.4	4410.3	4374.5
3231.2	30°	3302.9	3442.5	3548.7	3775.3	4028.8	4345.0	4345.0	4316.9	4279.7
3144.2	32.5°	3191.6	3372.1	3470.6	3552.6	3768.9	4222.1	4273.3	4243.9	4214.4
3076.3	35°	3132.7	3159.6	3390.0	3464.2	3647.3	3985.3	4192.7	4163.2	4141.5
2895.8	37.5°	3003.4	3066.1	3173.6	3372.1	3428.4	3792.0	4085.1	4069.8	4044.2
2661.6	40°	2715.3	2883.0	3048.2	3236.4	3295.3	3543.6	3954.6	3961.0	3926.4
2411.9	42.5°	2545.1	2659.0	2917.6	3044.3	3203.1	3383.6	3827.8	3838.1	3813.7
2285.2	45°	2345.3	2472.1	2653.9	2884.3	3100.7	3163.4	3603.8	3711.3	3690.8
2033.0	47.5°	2162.3	2264.7	2487.4	2720.4	2959.8	2950.9	3346.5	3548.7	3520.6
1839.7	50°	1902.4	2081.6	2186.6	2400.4	2757.6	2781.9	3072.5	3358.0	3334.9
1563.1	52.5°	1604.1	1829.4	2030.4	2226.3	2552.7	2610.3	2817.7	3163.4	3148.0
1194.4	55°	1401.8	1565.7	1792.3	1949.8	2304.4	2458.0	2627.0	2977.8	2970.1
981.9	57.5°	997.3	1313.5	1500.4	1720.6	1907.5	2185.3	2310.8	2600.1	2528.4
544.1	60°	676.0	824.5	1052.3	1289.2	1414.6	1692.4	1808.9	2040.7	2021.4
325.2	62.5°	357.2	494.2	656.7	775.8	866.7	1136.8	1185.5	1435.1	1428.7
130.6	65°	157.5	208.7	355.9	417.3	510.8	636.3	678.5	768.1	746.4
64.0	67.5°	81.9	124.2	201.0	247.1	311.1	358.5	393.0	421.2	439.1
42.2	70°	49.9	90.9	124.2	171.5	213.8	252.2	279.1	317.5	340.5
21.8	72.5°	37.1	57.6	85.8	131.9	154.9	199.7	226.6	254.8	275.2
17.9	75°	20.5	38.4	69.1	103.7	124.2	162.6	186.9	206.1	212.5
10.2	77.5°	12.8	29.4	57.6	80.7	97.3	131.9	125.5	143.4	158.7
7.7	80°	9.0	21.8	44.8	66.6	67.9	84.5	99.9	115.2	125.5
5.1	82.5°	6.4	17.9	33.3	51.2	44.8	65.3	78.1	89.6	65.3
3.8	85°	5.1	12.8	16.6	30.7	25.6	46.1	39.7	38.4	25.6
2.6	87.5°	3.8	6.4	11.5	14.1	10.2	10.2	12.8	15.4	12.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
3758.7
3665.2
3690.8
3712.6
3744.6
3809.9
3920.0
4064.7
4223.4
4356.6
4427.0
4346.3
4265.7
4190.1
4110.8
4018.6
3918.7
3811.2
3693.4
3541.1
3338.8
3158.3
2979.0
2520.7
2022.7
1430.0
737.4
439.1
341.8
279.1
208.7
161.3
126.7
47.4
25.6
12.8
0.0

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