

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: P636955

Luminaire Tested: **IFLD-M-SA4A-940-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636955
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-940-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (64) 4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9835.4 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

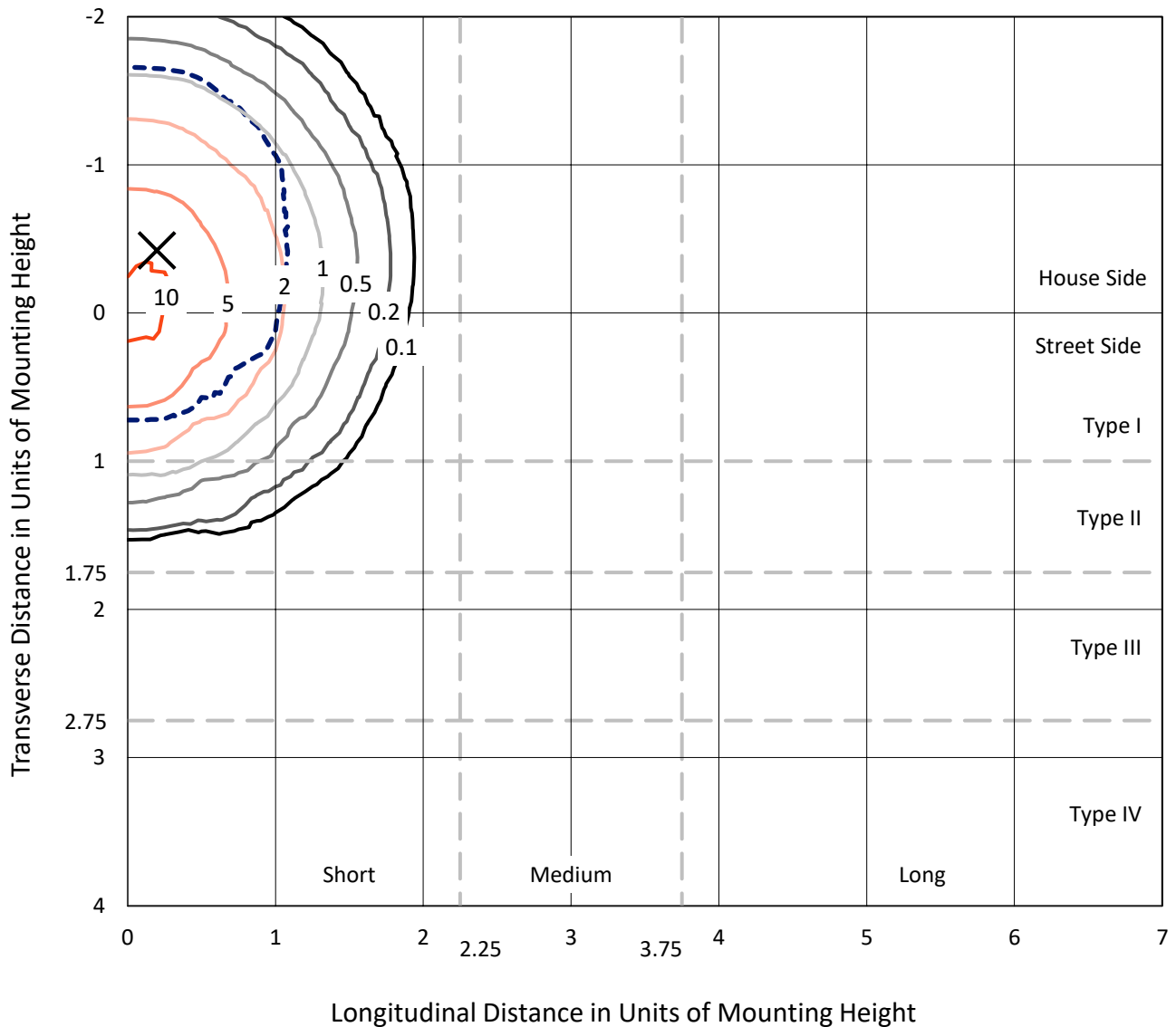
Input Watts (W): 128.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

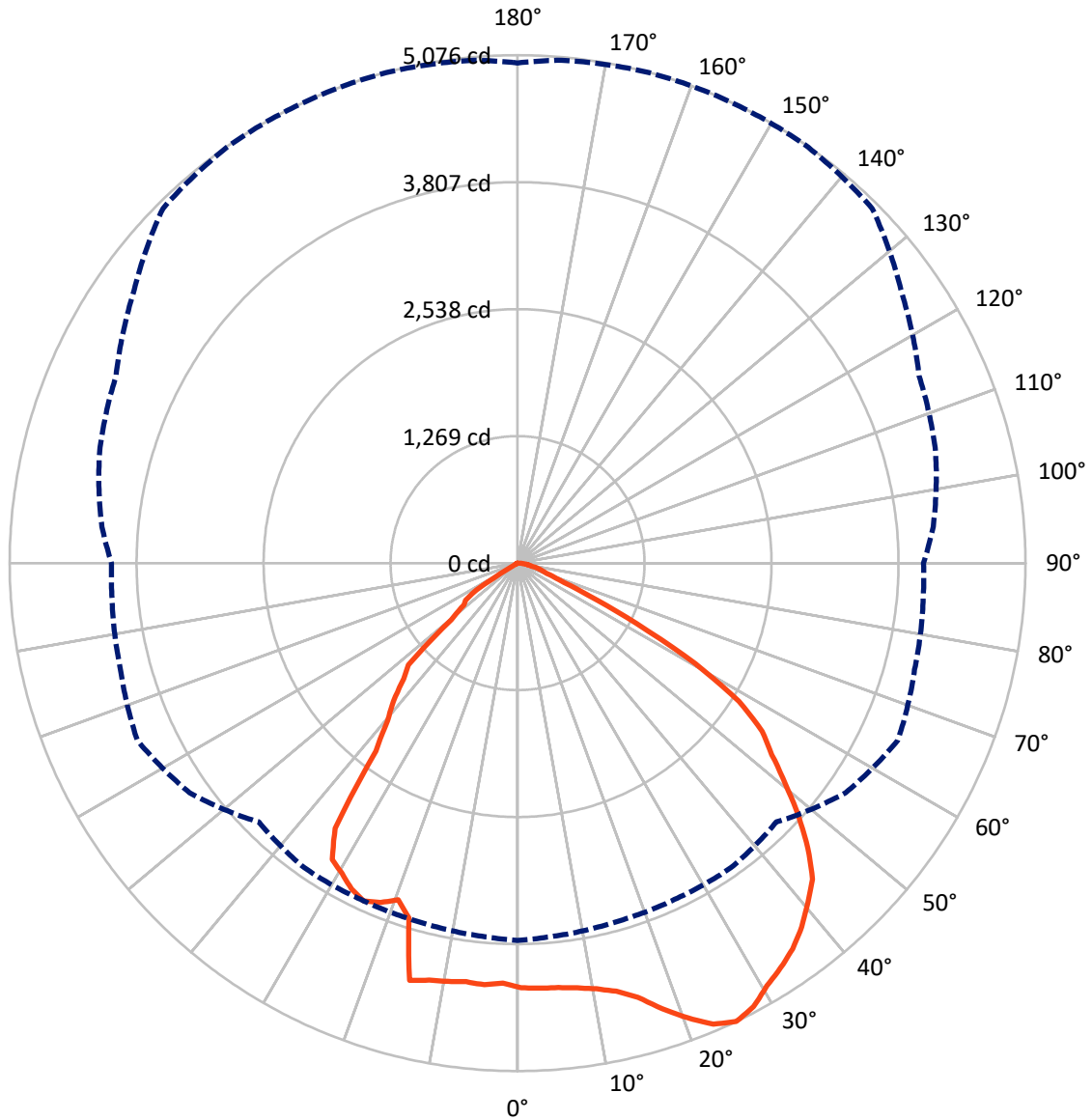
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.6 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	6089.1	0.0	6089.1
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	3746.3	0.0	3746.3
	% Fixture	38.1	0.0	38.1
Total	Lumens	9835.4	0.0	9835.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.1	4.1
10°-20°	1243.2	12.6
20°-30°	1965.4	20.0
30°-40°	2220.1	22.6
40°-50°	2079.1	21.1
50°-60°	1433.4	14.6
60°-70°	385.1	3.9
70°-80°	80.3	0.8
80°-90°	21.7	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°	9835.4	100.0
0°-180°	9835.4	100.0



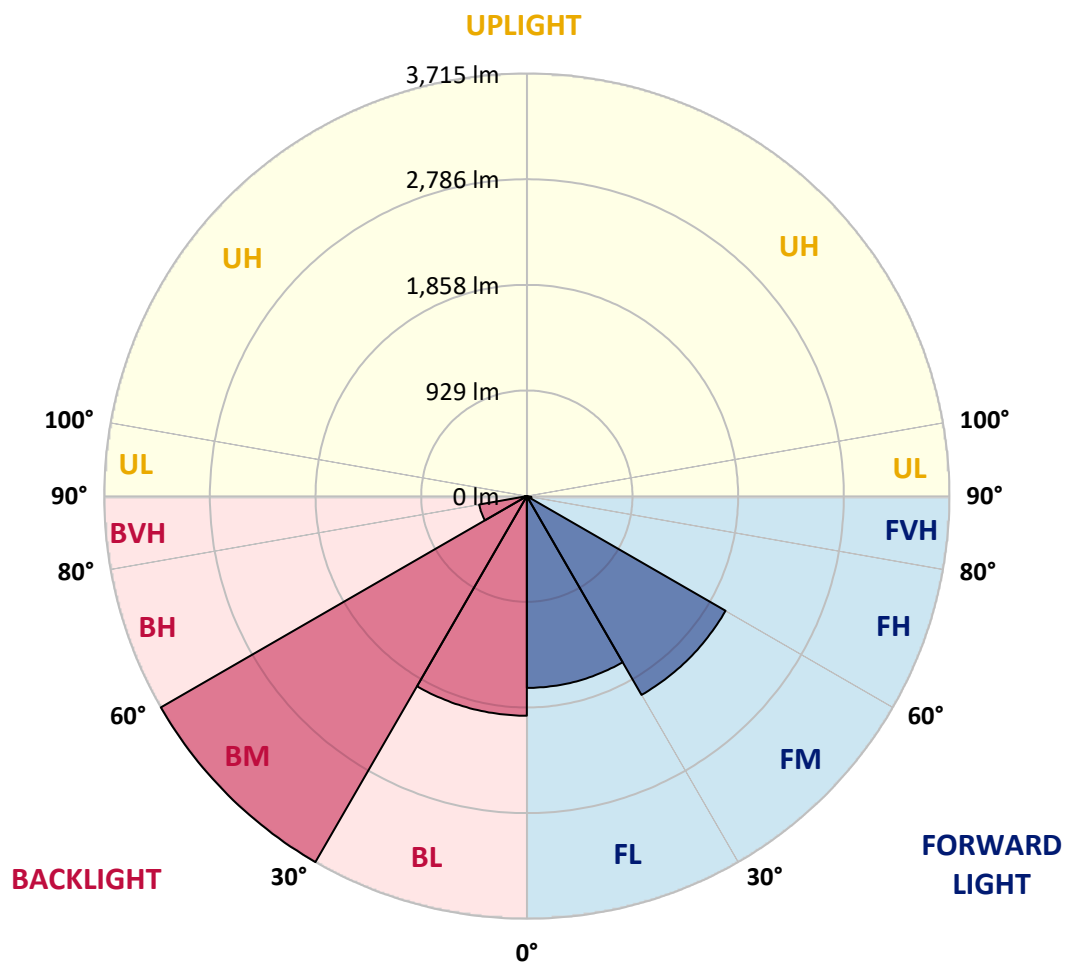
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1685.5	17.1			
FM (30°-60°)	2017.5	20.5			
FH (60°-80°)	40.4	0.4			G0/660
FVH (80°-90°)	2.9	0.0			G0/10
BL (0°-30°)	1930.2	19.6	B3/2500		
BM (30°-60°)	3715.2	37.8	B3/5000		
BH (60°-80°)	424.9	4.3	B1/500		G1/500
BVH (80°-90°)	18.8	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°	4243.8	4243.8	4243.8	4243.8	4243.8	4243.8	4243.8	4243.8	4243.8	4243.8
2.5°	4262.6	4235.1	4209.1	4200.4	4236.6	4275.6	4251.0	4252.5	4243.8	4259.7
5°	4294.4	4256.8	4239.5	4226.5	4232.2	4272.7	4238.0	4251.0	4236.6	4255.4
7.5°	4282.8	4256.8	4239.5	4214.9	4233.7	4281.4	4248.1	4249.6	4242.4	4259.7
10°	4275.6	4256.8	4235.1	4238.0	4259.7	4300.2	4274.2	4288.6	4278.5	4288.6
12.5°	4292.9	4272.7	4261.1	4261.1	4279.9	4326.2	4313.2	4326.2	4321.9	4330.5
15°	4129.6	4148.4	4258.3	4307.4	4345.0	4391.2	4385.5	4398.5	4401.4	4414.4
17.5°	3483.5	3464.7	3456.0	3709.0	4381.1	4524.2	4519.9	4518.4	4504.0	4493.9
20°	3568.8	3561.6	3551.4	3570.2	3645.4	4593.6	4622.5	4444.7	4392.7	4388.3
22.5°	3704.7	3693.1	3655.5	3657.0	3680.1	3993.7	4479.4	4317.5	4300.2	4290.1
25°	3771.1	3748.0	3717.7	3709.0	3716.2	3658.4	4001.0	4193.2	4107.9	4068.9
27.5°	3654.1	3655.5	3630.9	3654.1	3626.6	3366.4	3220.4	3950.4	3947.5	3930.1
30°	3565.9	3561.6	3532.6	3561.6	3372.2	3081.7	3019.5	3684.4	3654.1	3630.9
32.5°	3295.6	3298.5	3382.3	3495.1	3184.3	2954.5	2766.6	3291.3	3578.9	3565.9
35°	2357.5	2363.3	2661.0	3217.5	2899.5	2701.5	2687.1	2844.6	3460.4	3466.2
37.5°	2269.3	2269.3	2262.1	2353.2	2675.5	2598.9	2627.8	2611.9	3169.8	3184.3
40°	2205.7	2192.7	2182.6	2039.5	1860.3	2526.6	2546.9	2474.6	2996.4	2999.3
42.5°	2129.1	2114.7	2117.6	1853.0	1665.1	2347.4	2291.0	2194.2	2707.3	2710.2
45°	1988.9	2013.5	2030.8	1621.8	1607.3	1676.7	2113.2	2052.5	2512.2	2565.6
47.5°	1011.8	1033.5	1585.6	1491.7	1524.9	1490.2	1785.1	1786.6	2090.1	2267.9
50°	917.9	912.1	913.5	870.2	1407.9	1205.5	1290.8	1637.7	1673.8	1928.2
52.5°	855.7	854.3	766.1	680.8	884.6	1060.9	936.6	1185.3	1244.5	1633.3
55°	633.1	679.4	604.2	640.3	553.6	849.9	845.6	1069.6	1089.9	1309.6
57.5°	5.8	7.2	17.3	487.1	383.0	425.0	584.0	729.9	766.1	1020.5
60°	1.4	2.9	7.2	14.5	248.6	261.6	390.3	422.1	475.5	608.5
62.5°	0.0	0.0	2.9	7.2	13.0	107.0	124.3	135.9	209.6	310.8
65°	0.0	0.0	1.4	4.3	7.2	17.3	30.4	63.6	91.1	112.7
67.5°	0.0	0.0	1.4	2.9	5.8	8.7	17.3	24.6	39.0	66.5
70°	0.0	0.0	1.4	2.9	4.3	7.2	11.6	17.3	23.1	33.2
72.5°	0.0	0.0	1.4	2.9	2.9	8.7	8.7	13.0	17.3	21.7
75°	0.0	0.0	1.4	1.4	2.9	5.8	8.7	10.1	11.6	17.3
77.5°	0.0	0.0	1.4	2.9	4.3	5.8	7.2	11.6	10.1	10.1
80°	0.0	0.0	1.4	4.3	4.3	7.2	8.7	11.6	7.2	7.2
82.5°	0.0	0.0	1.4	5.8	4.3	14.5	14.5	15.9	5.8	5.8
85°	0.0	0.0	4.3	2.9	8.7	14.5	13.0	8.7	7.2	4.3
87.5°	0.0	0.0	1.4	1.4	2.9	4.3	10.1	8.7	2.9	2.9
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°
4243.8	0°	4243.8	4243.8	4243.8	4243.8	4243.8	4243.8	4243.8	4243.8	4243.8
4217.8	2.5°	4275.6	4256.8	4295.8	4291.5	4272.7	4264.0	4253.9	4245.2	4181.6
4220.7	5°	4277.0	4248.1	4295.8	4287.2	4284.3	4269.8	4261.1	4274.2	4216.3
4232.2	7.5°	4277.0	4248.1	4300.2	4303.1	4298.7	4287.2	4285.7	4294.4	4246.7
4252.5	10°	4306.0	4294.4	4337.8	4342.1	4336.3	4333.4	4326.2	4320.4	4269.8
4321.9	12.5°	4366.7	4343.5	4392.7	4405.7	4401.4	4408.6	4391.2	4399.9	4347.9
4392.7	15°	4440.4	4441.8	4479.4	4508.3	4505.4	4528.6	4502.5	4525.7	4488.1
4473.6	17.5°	4553.1	4569.0	4622.5	4665.9	4681.8	4699.1	4681.8	4689.0	4635.5
4384.0	20°	4434.6	4493.9	4751.1	4830.6	4863.9	4879.8	4850.9	4859.6	4806.1
4274.2	22.5°	4327.6	4404.2	4632.6	4881.2	4983.9	5015.7	5005.5	5004.1	4983.9
4057.3	25°	4170.1	4324.7	4427.4	4690.4	5012.8	5070.6	5076.4	5074.9	5044.6
3924.4	27.5°	3976.4	4011.1	4277.0	4437.5	4810.4	5030.1	5021.4	4979.5	4939.1
3648.3	30°	3729.2	3886.8	4006.7	4262.6	4548.8	4905.8	4905.8	4874.0	4832.1
3550.0	32.5°	3603.5	3807.3	3918.6	4011.1	4255.4	4767.0	4824.9	4791.6	4758.4
3473.4	35°	3537.0	3567.3	3827.5	3911.3	4118.0	4499.6	4733.8	4700.6	4676.0
3269.6	37.5°	3391.0	3461.8	3583.2	3807.3	3870.9	4281.4	4612.4	4595.0	4566.1
3005.1	40°	3065.8	3255.1	3441.6	3654.1	3720.6	4001.0	4465.0	4472.2	4433.2
2723.2	42.5°	2873.5	3002.2	3294.1	3437.2	3616.5	3820.3	4321.9	4333.4	4306.0
2580.1	45°	2648.0	2791.1	2996.4	3256.6	3500.8	3571.7	4068.9	4190.3	4167.2
2295.4	47.5°	2441.3	2557.0	2808.5	3071.6	3341.8	3331.7	3778.4	4006.7	3974.9
2077.1	50°	2147.9	2350.3	2468.8	2710.2	3113.5	3140.9	3469.0	3791.4	3765.4
1764.9	52.5°	1811.1	2065.5	2292.5	2513.6	2882.2	2947.2	3181.4	3571.7	3554.3
1348.6	55°	1582.8	1767.8	2023.6	2201.4	2601.8	2775.2	2966.0	3362.1	3353.4
1108.6	57.5°	1126.0	1483.0	1694.1	1942.7	2153.7	2467.4	2609.0	2935.7	2854.7
614.3	60°	763.2	930.9	1188.1	1455.6	1597.2	1910.9	2042.4	2304.0	2282.3
367.1	62.5°	403.3	557.9	741.5	875.9	978.6	1283.5	1338.5	1620.3	1613.1
147.4	65°	177.8	235.6	401.8	471.2	576.7	718.4	766.1	867.3	842.7
72.3	67.5°	92.5	140.2	226.9	279.0	351.2	404.7	443.7	475.5	495.8
47.7	70°	56.4	102.6	140.2	193.7	241.4	284.8	315.1	358.5	384.5
24.6	72.5°	41.9	65.0	96.8	148.9	174.9	225.5	255.8	287.6	310.8
20.2	75°	23.1	43.4	78.1	117.1	140.2	183.6	211.0	232.7	239.9
11.6	77.5°	14.5	33.2	65.0	91.1	109.9	148.9	141.7	161.9	179.2
8.7	80°	10.1	24.6	50.6	75.2	76.6	95.4	112.7	130.1	141.7
5.8	82.5°	7.2	20.2	37.6	57.8	50.6	73.7	88.2	101.2	73.7
4.3	85°	5.8	14.5	18.8	34.7	28.9	52.0	44.8	43.4	28.9
2.9	87.5°	4.3	7.2	13.0	15.9	11.6	11.6	14.5	17.3	14.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
4243.8
4138.3
4167.2
4191.8
4227.9
4301.6
4425.9
4589.3
4768.5
4918.8
4998.3
4907.3
4816.2
4730.9
4641.3
4537.2
4424.5
4303.1
4170.1
3998.1
3769.7
3565.9
3363.5
2846.1
2283.8
1614.6
832.6
495.8
385.9
315.1
235.6
182.1
143.1
53.5
28.9
14.5
0.0

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