

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: P638424

Luminaire Tested: **IFLD-S-SA3A-740-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638424
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-740-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (48) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10140.5 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

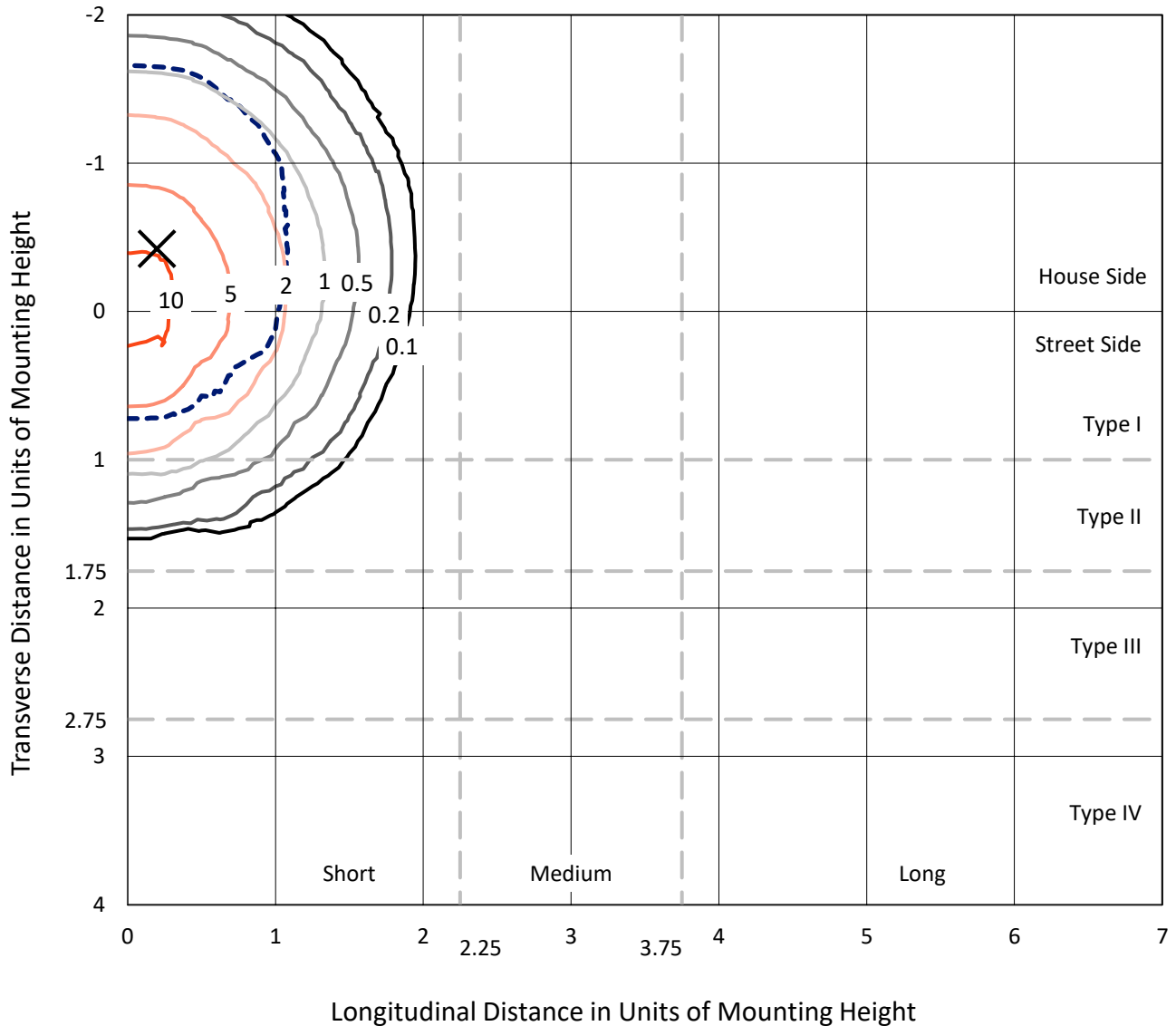
Input Watts (W): 94.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

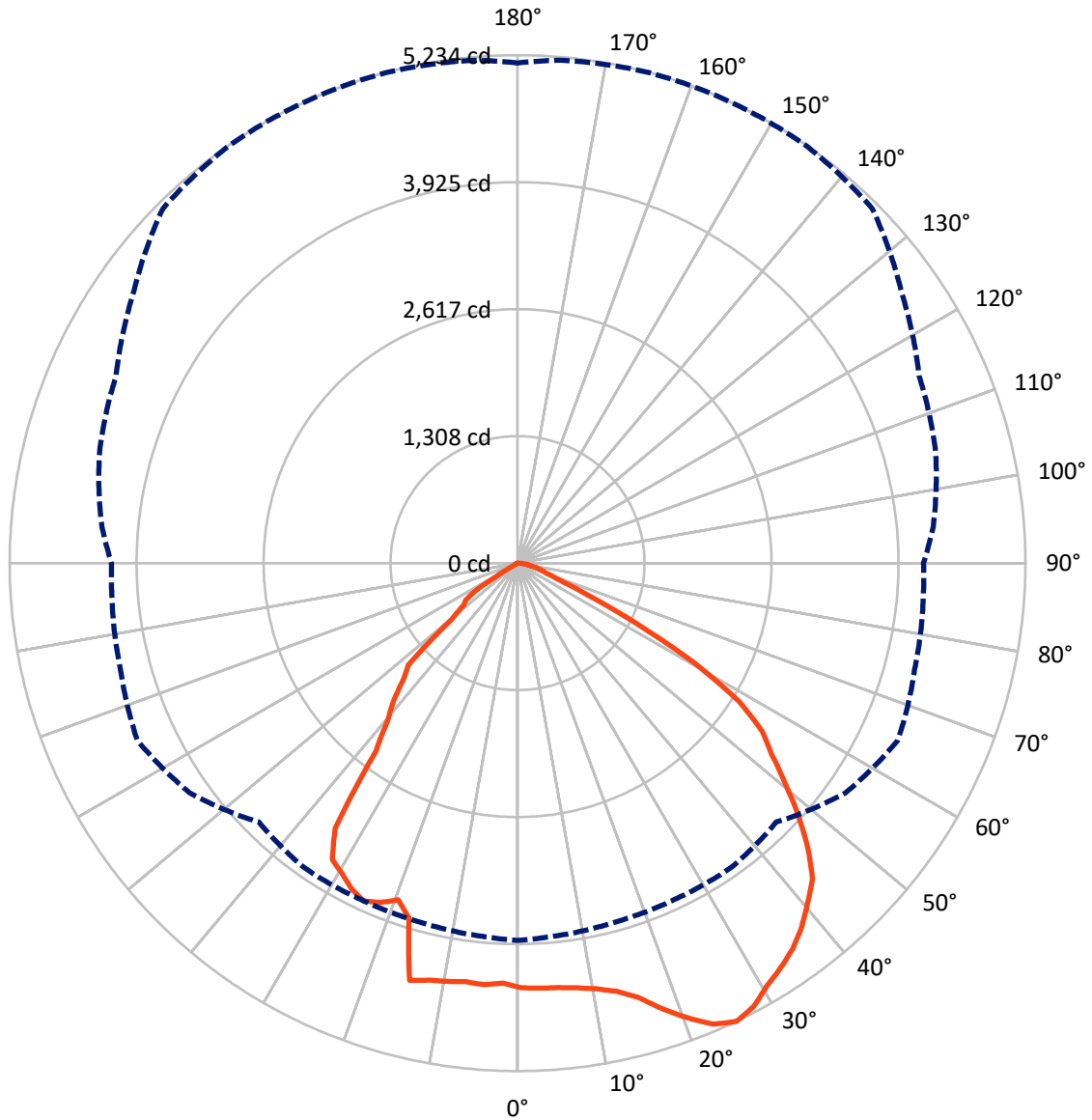
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.9 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	6278.0	0.0	6278.0
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	3862.5	0.0	3862.5
	% Fixture	38.1	0.0	38.1
Total	Lumens	10140.5	0.0	10140.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	419.8	4.1
10°-20°	1281.7	12.6
20°-30°	2026.4	20.0
30°-40°	2288.9	22.6
40°-50°	2143.6	21.1
50°-60°	1477.9	14.6
60°-70°	397.1	3.9
70°-80°	82.7	0.8
80°-90°	22.4	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°	10140.5	100.0
0°-180°	10140.5	100.0



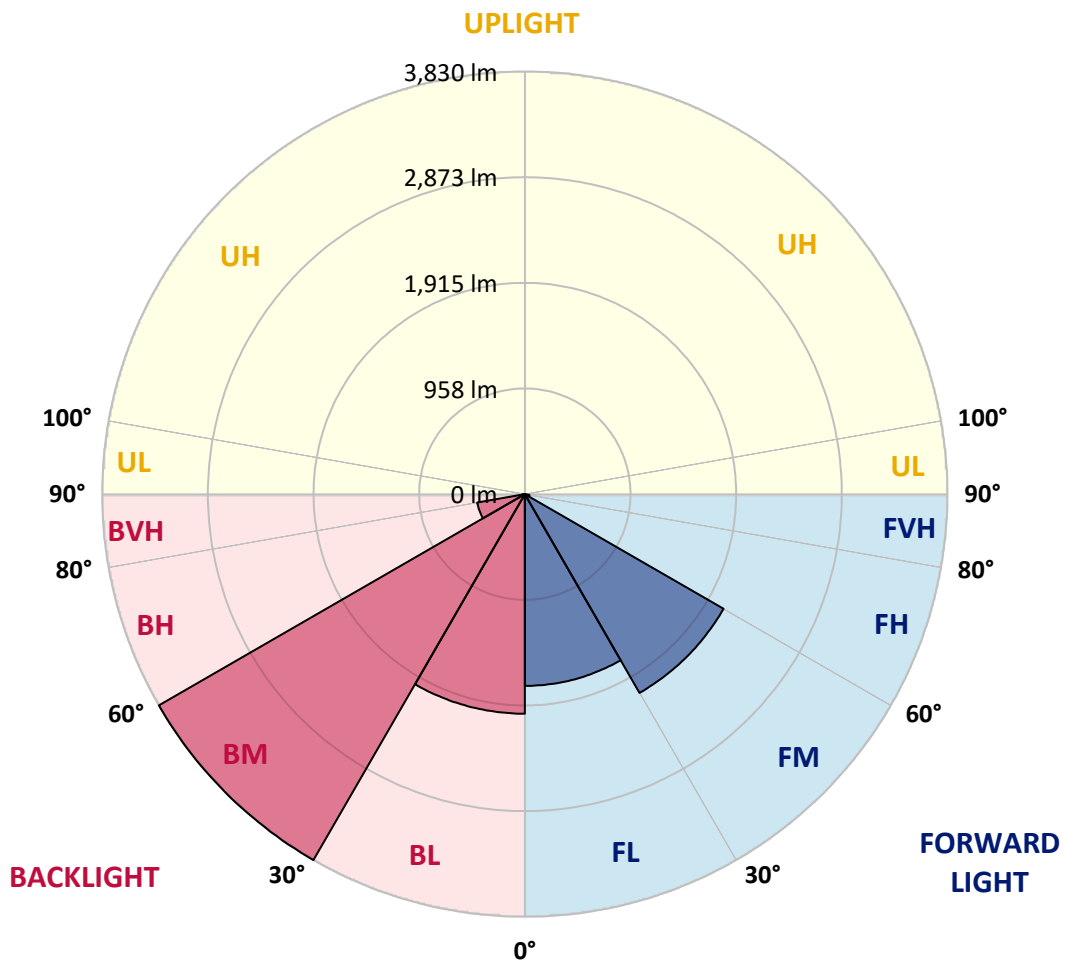
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1737.8	17.1			
FM (30°-60°)	2080.0	20.5			
FH (60°-80°)	41.7	0.4			G0/660
FVH (80°-90°)	3.0	0.0			G0/10
BL (0°-30°)	1990.1	19.6	B3/2500		
BM (30°-60°)	3830.4	37.8	B3/5000		
BH (60°-80°)	438.1	4.3	B1/500		G1/500
BVH (80°-90°)	19.4	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°	4375.5	4375.5	4375.5	4375.5	4375.5	4375.5	4375.5	4375.5	4375.5	4375.5
2.5°	4394.8	4366.5	4339.7	4330.8	4368.0	4408.2	4382.9	4384.4	4375.5	4391.9
5°	4427.6	4388.9	4371.0	4357.6	4363.5	4405.3	4369.5	4382.9	4368.0	4387.4
7.5°	4415.7	4388.9	4371.0	4345.7	4365.0	4414.2	4379.9	4381.4	4374.0	4391.9
10°	4408.2	4388.9	4366.5	4369.5	4391.9	4433.6	4406.8	4421.7	4411.2	4421.7
12.5°	4426.1	4405.3	4393.3	4393.3	4412.7	4460.4	4447.0	4460.4	4455.9	4464.9
15°	4257.7	4277.1	4390.4	4441.0	4479.8	4527.5	4521.5	4534.9	4537.9	4551.3
17.5°	3591.6	3572.2	3563.3	3824.1	4517.0	4664.6	4660.1	4658.6	4643.7	4633.3
20°	3679.5	3672.0	3661.6	3681.0	3758.5	4736.1	4765.9	4582.6	4529.0	4524.5
22.5°	3819.6	3807.7	3768.9	3770.4	3794.3	4117.6	4618.4	4451.5	4433.6	4423.1
25°	3888.1	3864.3	3833.0	3824.1	3831.5	3771.9	4125.1	4323.3	4235.4	4195.1
27.5°	3767.4	3768.9	3743.6	3767.4	3739.1	3470.9	3320.3	4072.9	4070.0	4052.1
30°	3676.5	3672.0	3642.2	3672.0	3476.8	3177.3	3113.2	3798.7	3767.4	3743.6
32.5°	3397.8	3400.8	3487.3	3603.5	3283.1	3046.1	2852.4	3393.4	3689.9	3676.5
35°	2430.6	2436.6	2743.6	3317.4	2989.5	2785.3	2770.4	2932.9	3567.7	3573.7
37.5°	2339.7	2339.7	2332.3	2426.2	2758.5	2679.5	2709.3	2692.9	3268.2	3283.1
40°	2274.2	2260.8	2250.3	2102.8	1918.0	2605.0	2625.9	2551.4	3089.3	3092.3
42.5°	2195.2	2180.3	2183.3	1910.5	1716.8	2420.2	2362.1	2262.2	2791.3	2794.3
45°	2050.6	2076.0	2093.8	1672.1	1657.2	1728.7	2178.8	2116.2	2590.1	2645.2
47.5°	1043.2	1065.5	1634.8	1538.0	1572.2	1536.5	1840.5	1842.0	2154.9	2338.2
50°	946.3	940.4	941.9	897.1	1451.5	1242.9	1330.8	1688.5	1725.7	1988.0
52.5°	882.2	880.8	789.8	701.9	912.1	1093.9	965.7	1222.0	1283.1	1684.0
55°	652.7	700.4	622.9	660.2	570.8	876.3	871.8	1102.8	1123.7	1350.2
57.5°	6.0	7.5	17.9	502.2	394.9	438.1	602.1	752.6	789.8	1052.1
60°	1.5	3.0	7.5	14.9	256.3	269.7	402.4	435.2	490.3	627.4
62.5°	0.0	0.0	3.0	7.5	13.4	110.3	128.2	140.1	216.1	320.4
65°	0.0	0.0	1.5	4.5	7.5	17.9	31.3	65.6	93.9	116.2
67.5°	0.0	0.0	1.5	3.0	6.0	8.9	17.9	25.3	40.2	68.6
70°	0.0	0.0	1.5	3.0	4.5	7.5	11.9	17.9	23.8	34.3
72.5°	0.0	0.0	1.5	3.0	3.0	8.9	8.9	13.4	17.9	22.4
75°	0.0	0.0	1.5	1.5	3.0	6.0	8.9	10.4	11.9	17.9
77.5°	0.0	0.0	1.5	3.0	4.5	6.0	7.5	11.9	10.4	10.4
80°	0.0	0.0	1.5	4.5	4.5	7.5	8.9	11.9	7.5	7.5
82.5°	0.0	0.0	1.5	6.0	4.5	14.9	14.9	16.4	6.0	6.0
85°	0.0	0.0	4.5	3.0	8.9	14.9	13.4	8.9	7.5	4.5
87.5°	0.0	0.0	1.5	1.5	3.0	4.5	10.4	8.9	3.0	3.0
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°
4375.5	0°	4375.5	4375.5	4375.5	4375.5	4375.5	4375.5	4375.5	4375.5	4375.5
4348.6	2.5°	4408.2	4388.9	4429.1	4424.6	4405.3	4396.3	4385.9	4377.0	4311.4
4351.6	5°	4409.7	4379.9	4429.1	4420.2	4417.2	4402.3	4393.3	4406.8	4347.1
4363.5	7.5°	4409.7	4379.9	4433.6	4436.6	4432.1	4420.2	4418.7	4427.6	4378.4
4384.4	10°	4439.5	4427.6	4472.3	4476.8	4470.8	4467.9	4460.4	4454.4	4402.3
4455.9	12.5°	4502.1	4478.3	4529.0	4542.4	4537.9	4545.4	4527.5	4536.4	4482.8
4529.0	15°	4578.1	4579.6	4618.4	4648.2	4645.2	4669.0	4642.2	4666.1	4627.3
4612.4	17.5°	4694.4	4710.8	4765.9	4810.6	4827.0	4844.9	4827.0	4834.5	4779.3
4520.0	20°	4572.2	4633.3	4898.5	4980.5	5014.8	5031.2	5001.4	5010.3	4955.2
4406.8	22.5°	4461.9	4540.9	4776.3	5032.7	5138.5	5171.3	5160.8	5159.3	5138.5
4183.2	25°	4299.5	4458.9	4564.7	4836.0	5168.3	5227.9	5233.9	5232.4	5201.1
4046.1	27.5°	4099.8	4135.5	4409.7	4575.2	4959.7	5186.2	5177.2	5134.0	5092.3
3761.5	30°	3844.9	4007.4	4131.1	4394.8	4689.9	5058.0	5058.0	5025.2	4982.0
3660.1	32.5°	3715.3	3925.4	4040.1	4135.5	4387.4	4914.9	4974.6	4940.3	4906.0
3581.1	35°	3646.7	3678.0	3946.3	4032.7	4245.8	4639.2	4880.7	4846.4	4821.1
3371.0	37.5°	3496.2	3569.2	3694.4	3925.4	3991.0	4414.2	4755.5	4737.6	4707.8
3098.3	40°	3160.9	3356.1	3548.4	3767.4	3836.0	4125.1	4603.5	4610.9	4570.7
2807.7	42.5°	2962.7	3095.3	3396.3	3543.9	3728.7	3938.8	4455.9	4467.9	4439.5
2660.1	45°	2730.2	2877.7	3089.3	3357.6	3609.5	3682.5	4195.1	4320.3	4296.5
2366.6	47.5°	2517.1	2636.3	2895.6	3166.8	3445.5	3435.1	3895.6	4131.1	4098.3
2141.5	50°	2214.6	2423.2	2545.4	2794.3	3210.1	3238.4	3576.7	3909.0	3882.2
1819.6	52.5°	1867.3	2129.6	2363.6	2591.6	2971.6	3038.7	3280.1	3682.5	3664.6
1390.4	55°	1631.9	1822.6	2086.4	2269.7	2682.5	2861.3	3058.1	3466.4	3457.4
1143.0	57.5°	1160.9	1529.0	1746.6	2002.9	2220.5	2543.9	2690.0	3026.8	2943.3
633.4	60°	786.9	959.7	1225.0	1500.7	1646.8	1970.1	2105.8	2375.5	2353.2
378.5	62.5°	415.8	575.2	764.5	903.1	1008.9	1323.4	1380.0	1670.6	1663.2
152.0	65°	183.3	242.9	414.3	485.8	594.6	740.7	789.8	894.2	868.8
74.5	67.5°	95.4	144.6	234.0	287.6	362.1	417.3	457.5	490.3	511.2
49.2	70°	58.1	105.8	144.6	199.7	248.9	293.6	324.9	369.6	396.4
25.3	72.5°	43.2	67.1	99.8	153.5	180.3	232.5	263.8	296.6	320.4
20.9	75°	23.8	44.7	80.5	120.7	144.6	189.3	217.6	239.9	247.4
11.9	77.5°	14.9	34.3	67.1	93.9	113.3	153.5	146.0	166.9	184.8
8.9	80°	10.4	25.3	52.2	77.5	79.0	98.4	116.2	134.1	146.0
6.0	82.5°	7.5	20.9	38.7	59.6	52.2	76.0	90.9	104.3	76.0
4.5	85°	6.0	14.9	19.4	35.8	29.8	53.7	46.2	44.7	29.8
3.0	87.5°	4.5	7.5	13.4	16.4	11.9	11.9	14.9	17.9	14.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
4375.5
4266.7
4296.5
4321.8
4359.1
4435.1
4563.2
4731.6
4916.4
5071.4
5153.4
5059.5
4965.6
4877.7
4785.3
4678.0
4561.7
4436.6
4299.5
4122.1
3886.6
3676.5
3467.9
2934.4
2354.6
1664.6
858.4
511.2
397.9
324.9
242.9
187.8
147.5
55.1
29.8
14.9
0.0

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