

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: P638364

Luminaire Tested: **IFLD-S-SA2D-730-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638364
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-730-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (32) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10496.4 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

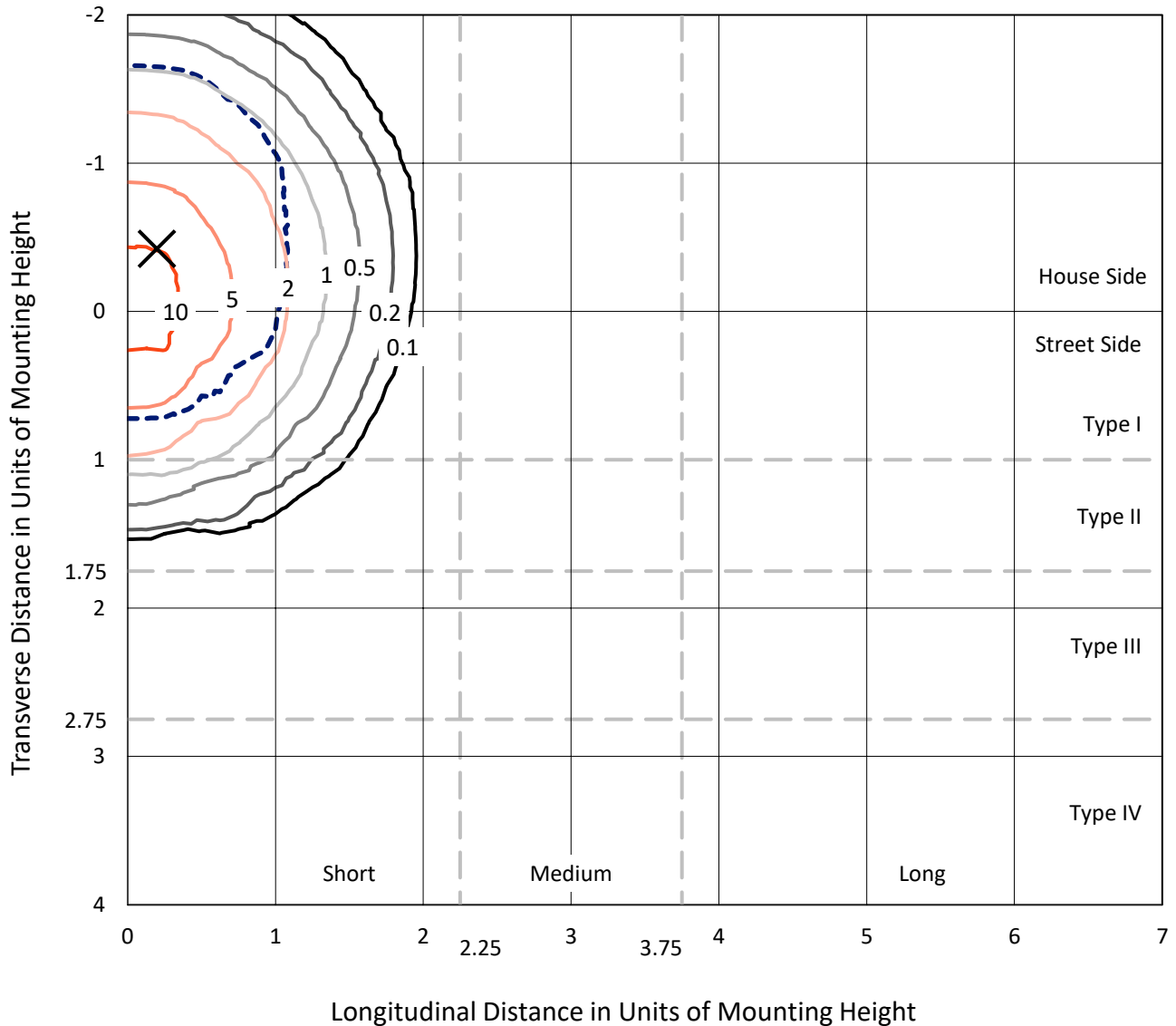
Input Watts (W): 123.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

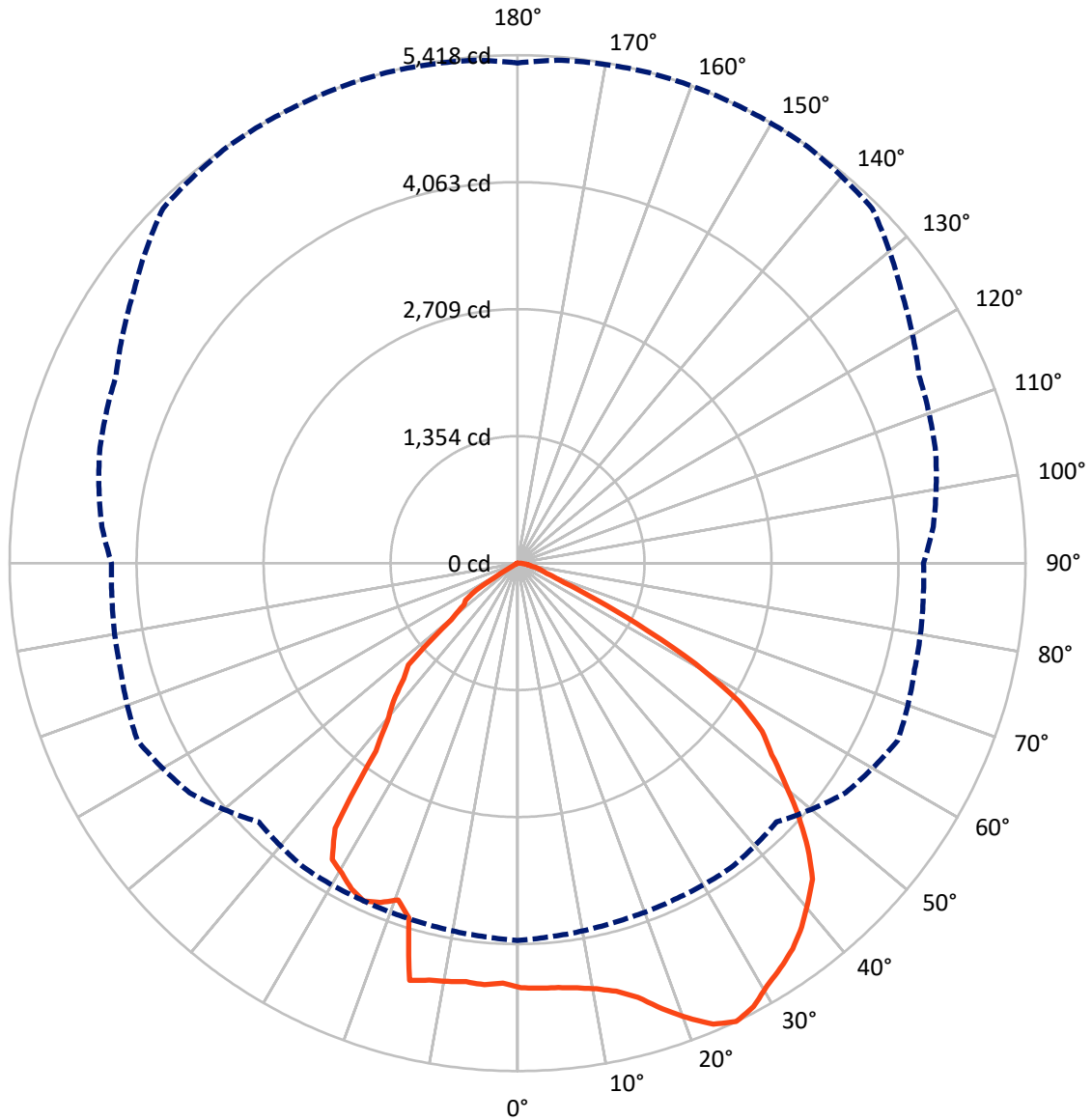
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.3 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	6498.3	0.0	6498.3
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	3998.0	0.0	3998.0
	% Fixture	38.1	0.0	38.1
Total	Lumens	10496.4	0.0	10496.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	434.5	4.1
10°-20°	1326.7	12.6
20°-30°	2097.5	20.0
30°-40°	2369.3	22.6
40°-50°	2218.9	21.1
50°-60°	1529.8	14.6
60°-70°	411.0	3.9
70°-80°	85.6	0.8
80°-90°	23.2	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°	10496.4	100.0
0°-180°	10496.4	100.0



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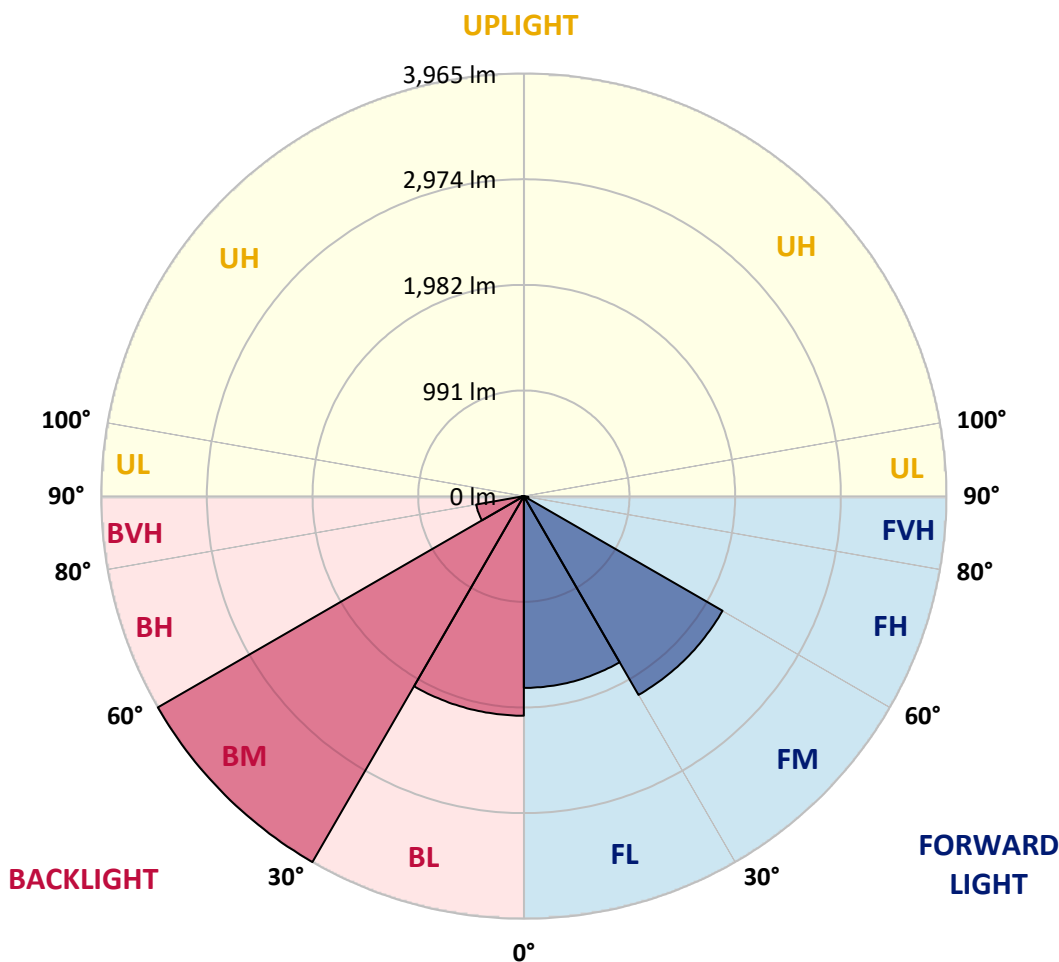
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1798.8	17.1			
FM (30°-60°)	2153.0	20.5			
FH (60°-80°)	43.1	0.4			G0/660
FVH (80°-90°)	3.1	0.0			G0/10
BL (0°-30°)	2059.9	19.6	B3/2500		
BM (30°-60°)	3964.8	37.8	B3/5000		
BH (60°-80°)	453.5	4.3	B1/500		G1/500
BVH (80°-90°)	20.1	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°	4529.0	4529.0	4529.0	4529.0	4529.0	4529.0	4529.0	4529.0	4529.0	4529.0
2.5°	4549.1	4519.8	4492.0	4482.7	4521.3	4562.9	4536.7	4538.3	4529.0	4546.0
5°	4583.0	4542.9	4524.4	4510.5	4516.7	4559.9	4522.8	4536.7	4521.3	4541.3
7.5°	4570.7	4542.9	4524.4	4498.2	4518.2	4569.1	4533.6	4535.2	4527.5	4546.0
10°	4562.9	4542.9	4519.8	4522.8	4546.0	4589.2	4561.4	4576.8	4566.0	4576.8
12.5°	4581.5	4559.9	4547.5	4547.5	4567.6	4616.9	4603.1	4616.9	4612.3	4621.6
15°	4407.1	4427.2	4544.4	4596.9	4637.0	4686.4	4680.2	4694.1	4697.1	4711.0
17.5°	3717.6	3697.6	3688.3	3958.3	4675.6	4828.3	4823.6	4822.1	4806.7	4795.9
20°	3808.6	3800.9	3790.1	3810.2	3890.4	4902.3	4933.2	4743.4	4687.9	4683.3
22.5°	3953.6	3941.3	3901.2	3902.7	3927.4	4262.1	4780.4	4607.7	4589.2	4578.4
25°	4024.6	3999.9	3967.5	3958.3	3966.0	3904.3	4269.9	4475.0	4384.0	4342.4
27.5°	3899.6	3901.2	3875.0	3899.6	3870.3	3592.7	3436.9	4215.9	4212.8	4194.3
30°	3805.5	3800.9	3770.1	3800.9	3598.8	3288.8	3222.4	3932.0	3899.6	3875.0
32.5°	3517.1	3520.2	3609.6	3730.0	3398.3	3153.0	2952.5	3512.4	3819.4	3805.5
35°	2515.9	2522.1	2839.9	3433.8	3094.4	2883.1	2867.7	3035.8	3692.9	3699.1
37.5°	2421.8	2421.8	2414.1	2511.3	2855.3	2773.6	2804.4	2787.4	3382.9	3398.3
40°	2354.0	2340.1	2329.3	2176.6	1985.3	2696.4	2718.0	2640.9	3197.8	3200.8
42.5°	2272.2	2256.8	2259.9	1977.6	1777.0	2505.1	2445.0	2341.6	2889.2	2892.3
45°	2122.6	2148.8	2167.3	1730.8	1715.3	1789.4	2255.2	2190.5	2681.0	2738.1
47.5°	1079.8	1102.9	1692.2	1591.9	1627.4	1590.4	1905.1	1906.6	2230.6	2420.3
50°	979.5	973.4	974.9	928.6	1502.5	1286.5	1377.5	1747.7	1786.3	2057.8
52.5°	913.2	911.7	817.6	726.6	944.1	1132.3	999.6	1264.9	1328.2	1743.1
55°	675.6	725.0	644.8	683.4	590.8	907.0	902.4	1141.5	1163.1	1397.6
57.5°	6.2	7.7	18.5	519.8	408.8	453.5	623.2	779.0	817.6	1089.1
60°	1.5	3.1	7.7	15.4	265.3	279.2	416.5	450.4	507.5	649.4
62.5°	0.0	0.0	3.1	7.7	13.9	114.2	132.7	145.0	223.7	331.7
65°	0.0	0.0	1.5	4.6	7.7	18.5	32.4	67.9	97.2	120.3
67.5°	0.0	0.0	1.5	3.1	6.2	9.3	18.5	26.2	41.6	71.0
70°	0.0	0.0	1.5	3.1	4.6	7.7	12.3	18.5	24.7	35.5
72.5°	0.0	0.0	1.5	3.1	3.1	9.3	9.3	13.9	18.5	23.1
75°	0.0	0.0	1.5	1.5	3.1	6.2	9.3	10.8	12.3	18.5
77.5°	0.0	0.0	1.5	3.1	4.6	6.2	7.7	12.3	10.8	10.8
80°	0.0	0.0	1.5	4.6	4.6	7.7	9.3	12.3	7.7	7.7
82.5°	0.0	0.0	1.5	6.2	4.6	15.4	15.4	17.0	6.2	6.2
85°	0.0	0.0	4.6	3.1	9.3	15.4	13.9	9.3	7.7	4.6
87.5°	0.0	0.0	1.5	1.5	3.1	4.6	10.8	9.3	3.1	3.1
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°
4529.0	0°	4529.0	4529.0	4529.0	4529.0	4529.0	4529.0	4529.0	4529.0	4529.0
4501.2	2.5°	4562.9	4542.9	4584.5	4579.9	4559.9	4550.6	4539.8	4530.6	4462.7
4504.3	5°	4564.5	4533.6	4584.5	4575.3	4572.2	4556.8	4547.5	4561.4	4499.7
4516.7	7.5°	4564.5	4533.6	4589.2	4592.3	4587.6	4575.3	4573.7	4583.0	4532.1
4538.3	10°	4595.3	4583.0	4629.3	4633.9	4627.7	4624.6	4616.9	4610.8	4556.8
4612.3	12.5°	4660.1	4635.4	4687.9	4701.8	4697.1	4704.9	4686.4	4695.6	4640.1
4687.9	15°	4738.8	4740.3	4780.4	4811.3	4808.2	4832.9	4805.1	4829.8	4789.7
4774.3	17.5°	4859.1	4876.1	4933.2	4979.4	4996.4	5014.9	4996.4	5004.1	4947.0
4678.6	20°	4732.6	4795.9	5070.5	5155.3	5190.8	5207.7	5176.9	5186.1	5129.1
4561.4	22.5°	4618.5	4700.2	4944.0	5209.3	5318.8	5352.7	5341.9	5340.4	5318.8
4330.0	25°	4450.3	4615.4	4724.9	5005.7	5349.7	5411.4	5417.5	5416.0	5383.6
4188.1	27.5°	4243.6	4280.7	4564.5	4735.7	5133.7	5368.2	5358.9	5314.2	5271.0
3893.5	30°	3979.9	4148.0	4276.0	4549.1	4854.5	5235.5	5235.5	5201.6	5156.8
3788.6	32.5°	3845.6	4063.1	4181.9	4280.7	4541.3	5087.4	5149.1	5113.6	5078.2
3706.8	35°	3774.7	3807.1	4084.7	4174.2	4394.8	4802.0	5051.9	5016.5	4990.2
3489.3	37.5°	3618.9	3694.5	3824.1	4063.1	4131.0	4569.1	4922.4	4903.9	4873.0
3207.0	40°	3271.8	3473.9	3672.9	3899.6	3970.6	4269.9	4765.0	4772.7	4731.1
2906.2	42.5°	3066.6	3203.9	3515.5	3668.2	3859.5	4077.0	4612.3	4624.6	4595.3
2753.5	45°	2826.0	2978.7	3197.8	3475.4	3736.1	3811.7	4342.4	4471.9	4447.3
2449.6	47.5°	2605.4	2728.8	2997.2	3278.0	3566.4	3555.6	4032.3	4276.0	4242.1
2216.7	50°	2292.3	2508.2	2634.7	2892.3	3322.7	3352.0	3702.2	4046.2	4018.4
1883.5	52.5°	1932.8	2204.3	2446.5	2682.5	3075.9	3145.3	3395.2	3811.7	3793.2
1439.2	55°	1689.1	1886.6	2159.6	2349.3	2776.6	2961.7	3165.4	3588.0	3578.8
1183.2	57.5°	1201.7	1582.7	1807.9	2073.2	2298.4	2633.2	2784.4	3133.0	3046.6
655.6	60°	814.5	993.4	1268.0	1553.4	1704.5	2039.3	2179.7	2458.9	2435.7
391.8	62.5°	430.4	595.4	791.3	934.8	1044.3	1369.8	1428.4	1729.2	1721.5
157.3	65°	189.7	251.4	428.8	502.9	615.5	766.7	817.6	925.5	899.3
77.1	67.5°	98.7	149.6	242.2	297.7	374.8	431.9	473.6	507.5	529.1
50.9	70°	60.2	109.5	149.6	206.7	257.6	303.9	336.3	382.6	410.3
26.2	72.5°	44.7	69.4	103.4	158.9	186.7	240.6	273.0	307.0	331.7
21.6	75°	24.7	46.3	83.3	124.9	149.6	195.9	225.2	248.4	256.1
12.3	77.5°	15.4	35.5	69.4	97.2	117.2	158.9	151.2	172.8	191.3
9.3	80°	10.8	26.2	54.0	80.2	81.8	101.8	120.3	138.8	151.2
6.2	82.5°	7.7	21.6	40.1	61.7	54.0	78.7	94.1	108.0	78.7
4.6	85°	6.2	15.4	20.1	37.0	30.9	55.5	47.8	46.3	30.9
3.1	87.5°	4.6	7.7	13.9	17.0	12.3	12.3	15.4	18.5	15.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
4529.0
4416.4
4447.3
4473.5
4512.0
4590.7
4723.4
4897.7
5089.0
5249.4
5334.2
5237.1
5139.9
5048.9
4953.2
4842.2
4721.8
4592.3
4450.3
4266.8
4023.0
3805.5
3589.6
3037.3
2437.3
1723.1
888.5
529.1
411.9
336.3
251.4
194.4
152.7
57.1
30.9
15.4
0.0

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