

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: P636898

Luminaire Tested: **IFLD-M-SA4B-930-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636898
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-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: 10773.4 lumens
Efficiency: N/A
Efficacy: 64.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

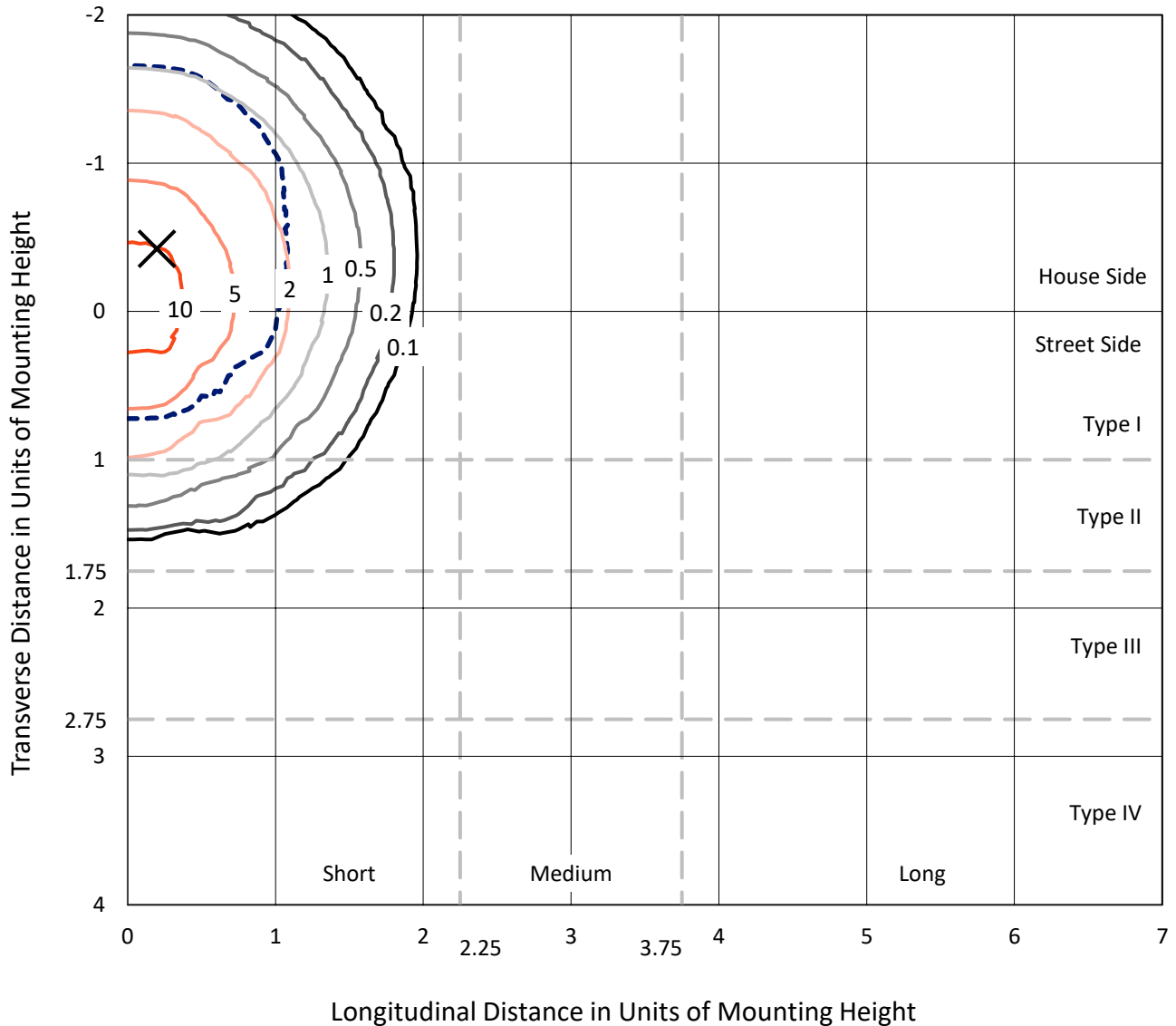
Input Watts (W): 166.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

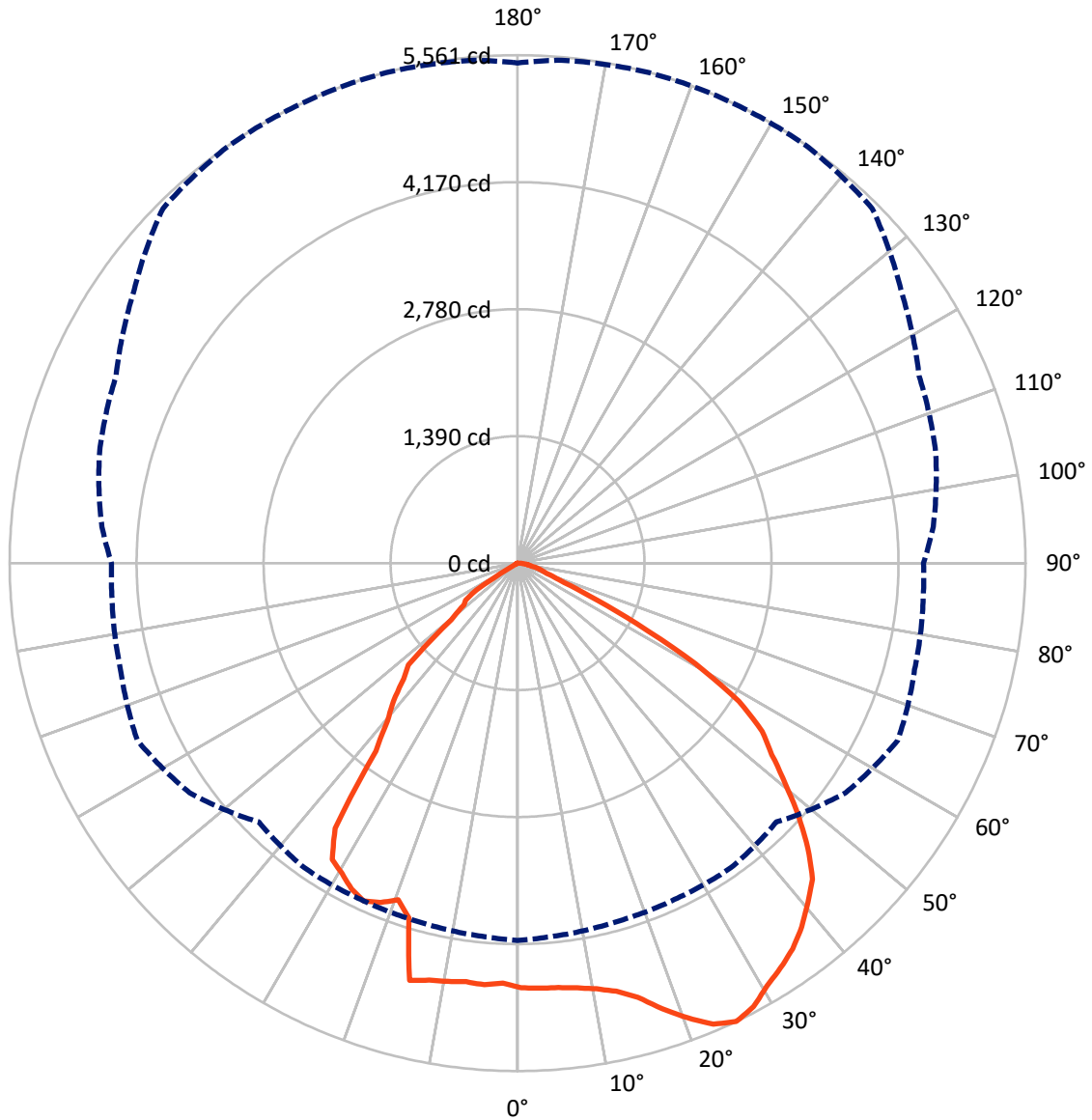
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.6 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	6669.9	0.0	6669.9
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	4103.6	0.0	4103.6
	% Fixture	38.1	0.0	38.1
Total	Lumens	10773.4	0.0	10773.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	446.0	4.1
10°-20°	1361.7	12.6
20°-30°	2152.8	20.0
30°-40°	2431.8	22.6
40°-50°	2277.4	21.1
50°-60°	1570.1	14.6
60°-70°	421.8	3.9
70°-80°	87.9	0.8
80°-90°	23.8	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°	10773.4	100.0
0°-180°	10773.4	100.0



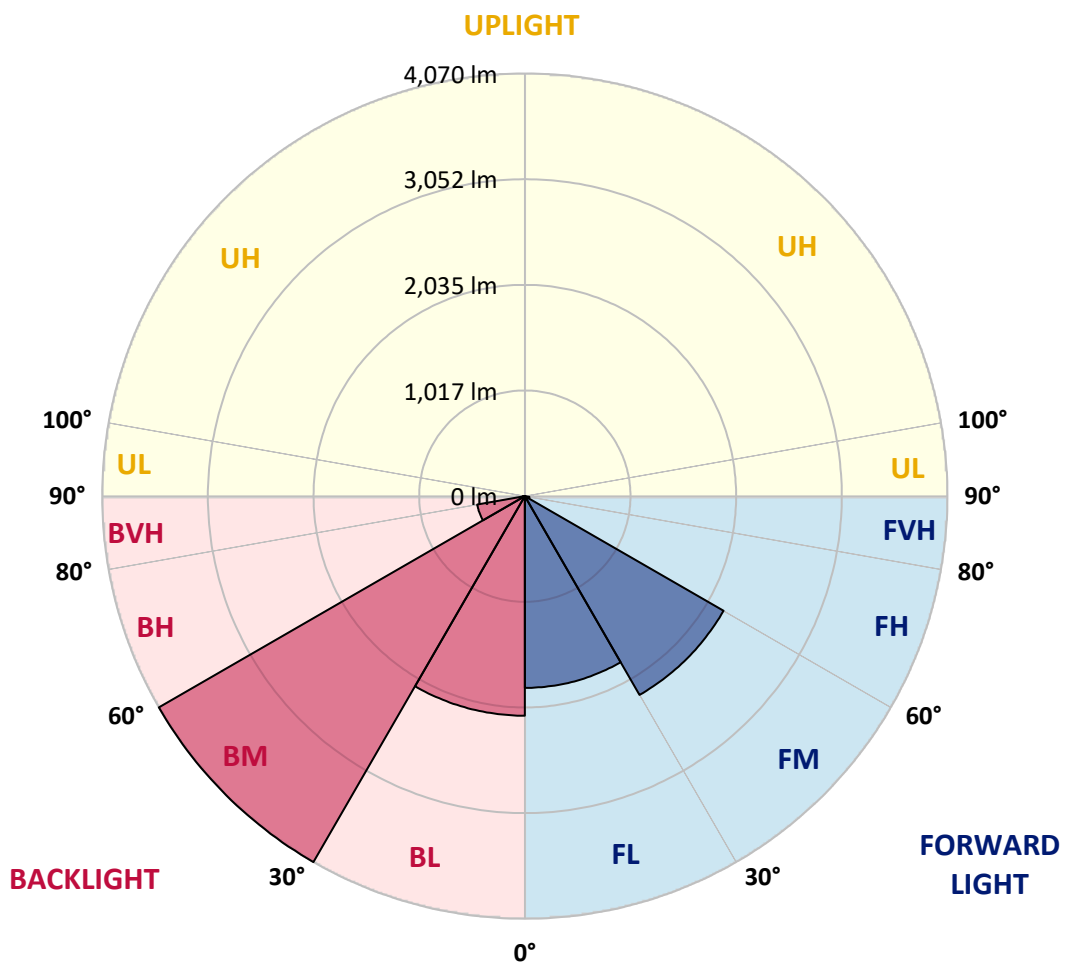
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1846.2	17.1			
FM (30°-60°)	2209.9	20.5			
FH (60°-80°)	44.3	0.4			G0/660
FVH (80°-90°)	3.2	0.0			G0/10
BL (0°-30°)	2114.3	19.6	B3/2500		
BM (30°-60°)	4069.5	37.8	B3/5000		
BH (60°-80°)	465.5	4.3	B1/500		G1/500
BVH (80°-90°)	20.6	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°	4648.5	4648.5	4648.5	4648.5	4648.5	4648.5	4648.5	4648.5	4648.5	4648.5
2.5°	4669.1	4639.0	4610.6	4601.1	4640.6	4683.4	4656.5	4658.0	4648.5	4666.0
5°	4704.0	4662.8	4643.8	4629.5	4635.9	4680.2	4642.2	4656.5	4640.6	4661.2
7.5°	4691.3	4662.8	4643.8	4616.9	4637.5	4689.7	4653.3	4654.9	4647.0	4666.0
10°	4683.4	4662.8	4639.0	4642.2	4666.0	4710.3	4681.8	4697.6	4686.5	4697.6
12.5°	4702.4	4680.2	4667.5	4667.5	4688.1	4738.8	4724.5	4738.8	4734.0	4743.5
15°	4523.5	4544.1	4664.4	4718.2	4759.4	4810.0	4803.7	4818.0	4821.1	4835.4
17.5°	3815.7	3795.2	3785.7	4062.7	4799.0	4955.7	4951.0	4949.4	4933.5	4922.5
20°	3909.2	3901.2	3890.2	3910.7	3993.1	5031.7	5063.4	4868.6	4811.6	4806.9
22.5°	4058.0	4045.3	4004.1	4005.7	4031.1	4374.6	4906.6	4729.3	4710.3	4699.2
25°	4130.8	4105.5	4072.2	4062.7	4070.6	4007.3	4382.6	4593.1	4499.7	4457.0
27.5°	4002.6	4004.1	3977.2	4002.6	3972.5	3687.5	3527.6	4327.1	4324.0	4305.0
30°	3906.0	3901.2	3869.6	3901.2	3693.8	3375.6	3307.5	4035.8	4002.6	3977.2
32.5°	3609.9	3613.1	3704.9	3828.4	3488.0	3236.3	3030.4	3605.2	3920.2	3906.0
35°	2582.4	2588.7	2914.8	3524.4	3176.1	2959.2	2943.3	3115.9	3790.4	3796.7
37.5°	2485.8	2485.8	2477.9	2577.6	2930.7	2846.8	2878.4	2861.0	3472.2	3488.0
40°	2416.1	2401.9	2390.8	2234.0	2037.7	2767.6	2789.8	2710.6	3282.2	3285.3
42.5°	2332.2	2316.4	2319.5	2029.8	1824.0	2571.3	2509.5	2403.4	2965.5	2968.7
45°	2178.6	2205.5	2224.5	1776.5	1760.6	1836.6	2314.8	2248.3	2751.8	2810.3
47.5°	1108.3	1132.1	1736.9	1634.0	1670.4	1632.4	1955.4	1957.0	2289.4	2484.2
50°	1005.4	999.1	1000.6	953.1	1542.1	1320.5	1413.9	1793.9	1833.5	2112.1
52.5°	937.3	935.7	839.1	745.7	969.0	1162.1	1026.0	1298.3	1363.2	1789.1
55°	693.5	744.1	661.8	701.4	606.4	931.0	926.2	1171.6	1193.8	1434.5
57.5°	6.3	7.9	19.0	533.6	419.6	465.5	639.7	799.6	839.1	1117.8
60°	1.6	3.2	7.9	15.8	272.3	286.6	427.5	462.3	520.9	666.6
62.5°	0.0	0.0	3.2	7.9	14.2	117.2	136.2	148.8	229.6	340.4
65°	0.0	0.0	1.6	4.7	7.9	19.0	33.2	69.7	99.7	123.5
67.5°	0.0	0.0	1.6	3.2	6.3	9.5	19.0	26.9	42.7	72.8
70°	0.0	0.0	1.6	3.2	4.7	7.9	12.7	19.0	25.3	36.4
72.5°	0.0	0.0	1.6	3.2	3.2	9.5	9.5	14.2	19.0	23.7
75°	0.0	0.0	1.6	1.6	3.2	6.3	9.5	11.1	12.7	19.0
77.5°	0.0	0.0	1.6	3.2	4.7	6.3	7.9	12.7	11.1	11.1
80°	0.0	0.0	1.6	4.7	4.7	7.9	9.5	12.7	7.9	7.9
82.5°	0.0	0.0	1.6	6.3	4.7	15.8	15.8	17.4	6.3	6.3
85°	0.0	0.0	4.7	3.2	9.5	15.8	14.2	9.5	7.9	4.7
87.5°	0.0	0.0	1.6	1.6	3.2	4.7	11.1	9.5	3.2	3.2
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°
4648.5	0°	4648.5	4648.5	4648.5	4648.5	4648.5	4648.5	4648.5	4648.5	4648.5
4620.0	2.5°	4683.4	4662.8	4705.5	4700.8	4680.2	4670.7	4659.6	4650.1	4580.5
4623.2	5°	4685.0	4653.3	4705.5	4696.0	4692.9	4677.0	4667.5	4681.8	4618.5
4635.9	7.5°	4685.0	4653.3	4710.3	4713.5	4708.7	4696.0	4694.5	4704.0	4651.7
4658.0	10°	4716.6	4704.0	4751.5	4756.2	4749.9	4746.7	4738.8	4732.5	4677.0
4734.0	12.5°	4783.1	4757.8	4811.6	4825.9	4821.1	4829.0	4810.0	4819.5	4762.5
4811.6	15°	4863.9	4865.5	4906.6	4938.3	4935.1	4960.5	4932.0	4957.3	4916.1
4900.3	17.5°	4987.4	5004.8	5063.4	5110.9	5128.3	5147.3	5128.3	5136.2	5077.6
4802.1	20°	4857.5	4922.5	5204.3	5291.4	5327.8	5345.2	5313.5	5323.0	5264.5
4681.8	22.5°	4740.4	4824.3	5074.5	5346.8	5459.2	5494.0	5482.9	5481.4	5459.2
4444.3	25°	4567.8	4737.2	4849.6	5137.8	5490.9	5554.2	5560.5	5558.9	5525.7
4298.6	27.5°	4355.6	4393.6	4685.0	4860.7	5269.2	5509.9	5500.4	5454.4	5410.1
3996.2	30°	4084.9	4257.5	4388.9	4669.1	4982.6	5373.7	5373.7	5338.9	5292.9
3888.6	32.5°	3947.2	4170.4	4292.3	4393.6	4661.2	5221.7	5285.0	5248.6	5212.2
3804.7	35°	3874.3	3907.6	4192.6	4284.4	4510.8	4928.8	5185.3	5148.9	5122.0
3581.4	37.5°	3714.4	3792.0	3925.0	4170.4	4240.1	4689.7	5052.3	5033.3	5001.6
3291.7	40°	3358.2	3565.6	3769.8	4002.6	4075.4	4382.6	4890.8	4898.7	4856.0
2982.9	42.5°	3147.6	3288.5	3608.3	3765.1	3961.4	4184.6	4734.0	4746.7	4716.6
2826.2	45°	2900.6	3057.3	3282.2	3567.2	3834.7	3912.3	4457.0	4590.0	4564.6
2514.3	47.5°	2674.2	2800.8	3076.3	3364.5	3660.6	3649.5	4138.7	4388.9	4354.1
2275.2	50°	2352.8	2574.4	2704.3	2968.7	3410.4	3440.5	3799.9	4153.0	4124.5
1933.2	52.5°	1983.9	2262.5	2511.1	2753.3	3157.1	3228.3	3484.8	3912.3	3893.3
1477.2	55°	1733.7	1936.4	2216.6	2411.4	2849.9	3039.9	3248.9	3682.7	3673.2
1214.4	57.5°	1233.4	1624.5	1855.6	2127.9	2359.1	2702.7	2857.8	3215.7	3127.0
672.9	60°	836.0	1019.6	1301.5	1594.4	1749.5	2093.1	2237.2	2523.8	2500.0
402.2	62.5°	441.7	611.2	812.2	959.5	1071.9	1406.0	1466.1	1774.9	1767.0
161.5	65°	194.7	258.1	440.2	516.2	631.7	786.9	839.1	950.0	923.1
79.2	67.5°	101.3	153.6	248.6	305.6	384.7	443.3	486.1	520.9	543.1
52.2	70°	61.7	112.4	153.6	212.2	264.4	311.9	345.2	392.7	421.2
26.9	72.5°	45.9	71.2	106.1	163.1	191.6	247.0	280.2	315.1	340.4
22.2	75°	25.3	47.5	85.5	128.2	153.6	201.1	231.2	254.9	262.8
12.7	77.5°	15.8	36.4	71.2	99.7	120.3	163.1	155.2	177.3	196.3
9.5	80°	11.1	26.9	55.4	82.3	83.9	104.5	123.5	142.5	155.2
6.3	82.5°	7.9	22.2	41.2	63.3	55.4	80.7	96.6	110.8	80.7
4.7	85°	6.3	15.8	20.6	38.0	31.7	57.0	49.1	47.5	31.7
3.2	87.5°	4.7	7.9	14.2	17.4	12.7	12.7	15.8	19.0	15.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
4648.5
4533.0
4564.6
4591.6
4631.1
4711.9
4848.0
5027.0
5223.3
5387.9
5475.0
5375.3
5275.5
5182.1
5084.0
4970.0
4846.5
4713.5
4567.8
4379.4
4129.2
3906.0
3684.3
3117.5
2501.6
1768.5
912.0
543.1
422.7
345.2
258.1
199.5
156.7
58.6
31.7
15.8
0.0

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