

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: P636870

Luminaire Tested: **IFLD-M-SA4C-927-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636870
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-927-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (64) 2700K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13266.7 lumens
Efficiency: N/A
Efficacy: 60.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

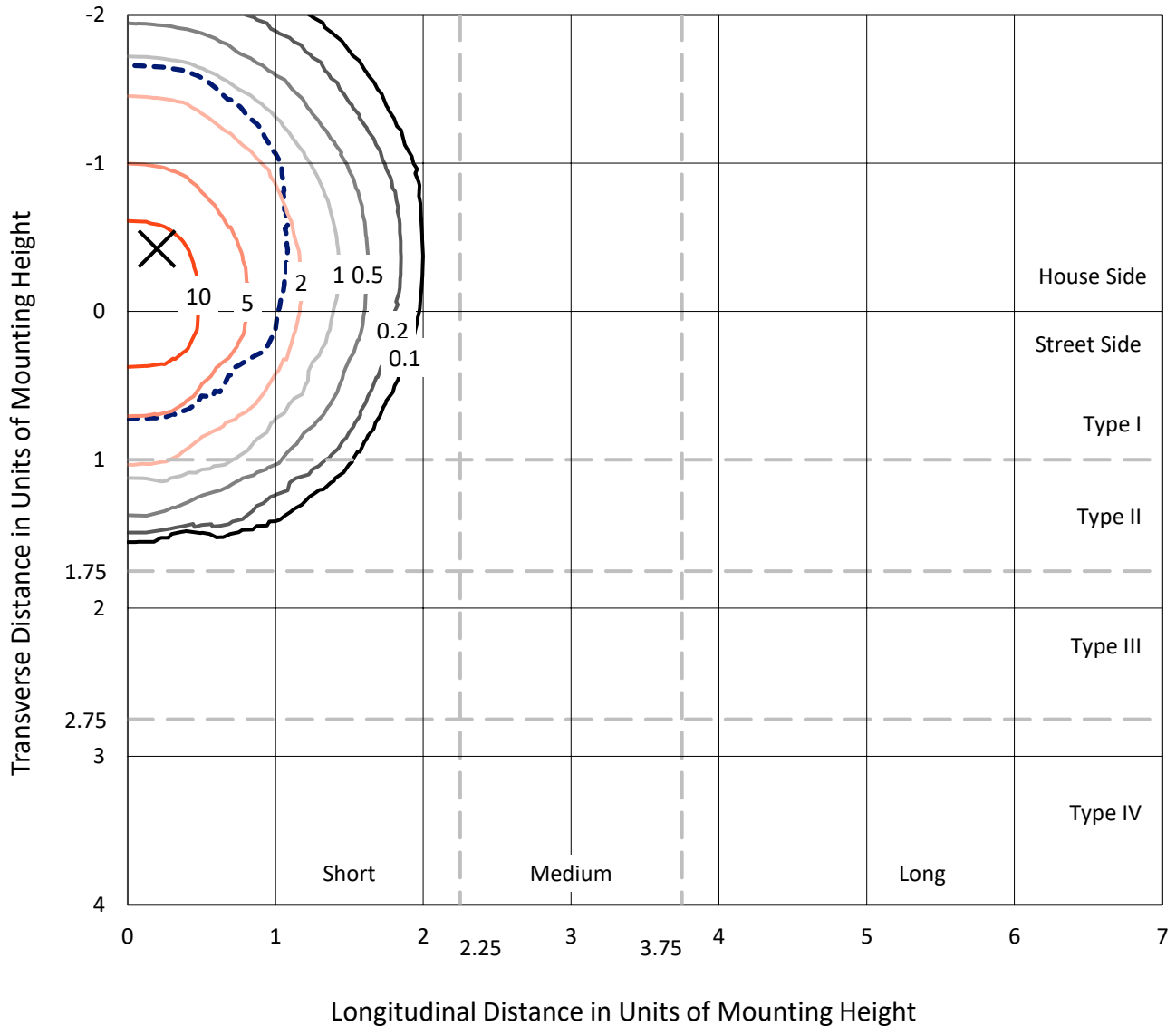
Input Watts (W): 218.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

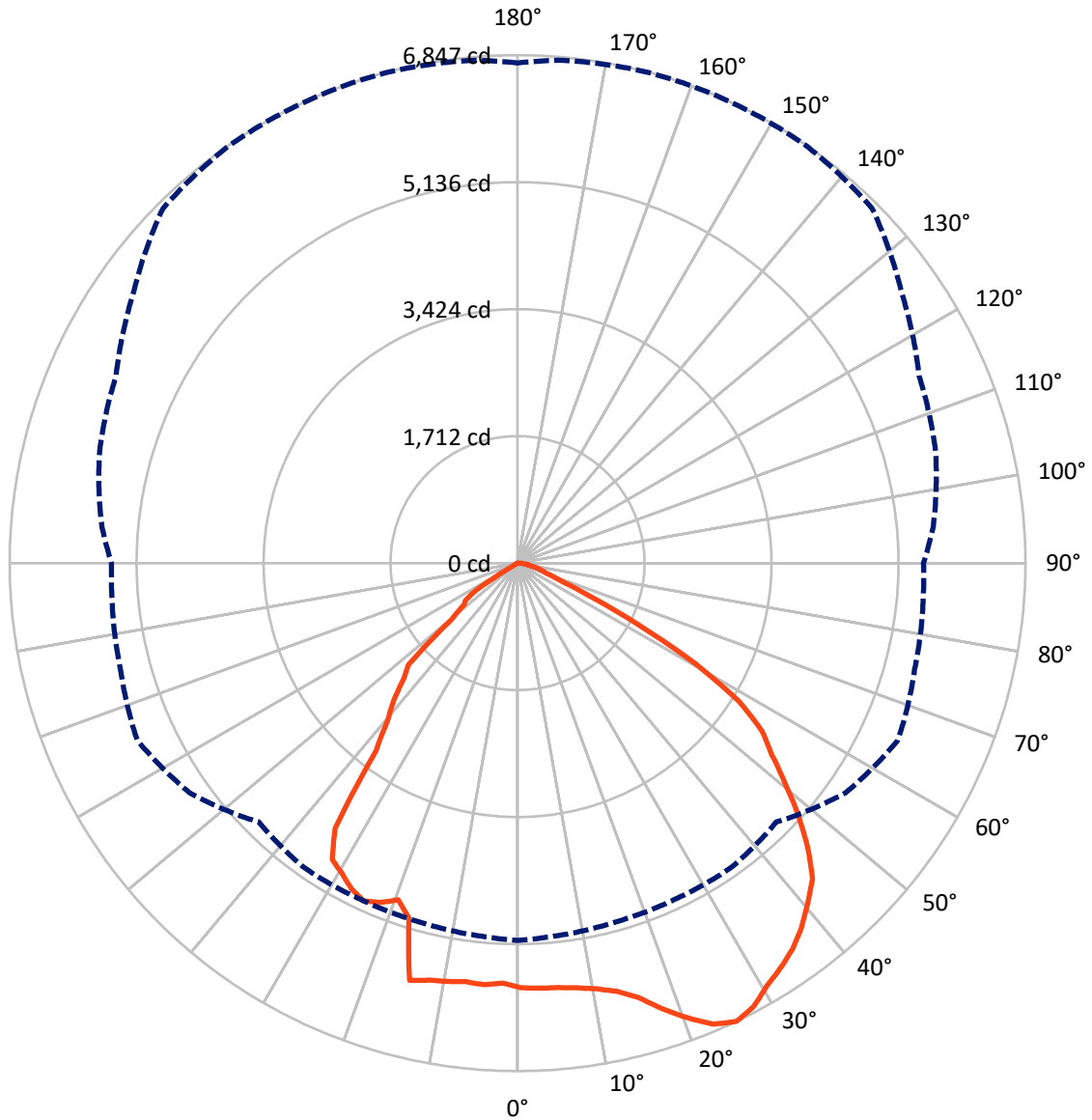
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 14.3 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	8213.4	0.0	8213.4
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	5053.2	0.0	5053.2
	% Fixture	38.1	0.0	38.1
Total	Lumens	13266.7	0.0	13266.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	549.2	4.1
10°-20°	1676.9	12.6
20°-30°	2651.1	20.0
30°-40°	2994.6	22.6
40°-50°	2804.5	21.1
50°-60°	1933.5	14.6
60°-70°	519.5	3.9
70°-80°	108.2	0.8
80°-90°	29.3	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°	13266.7	100.0
0°-180°	13266.7	100.0



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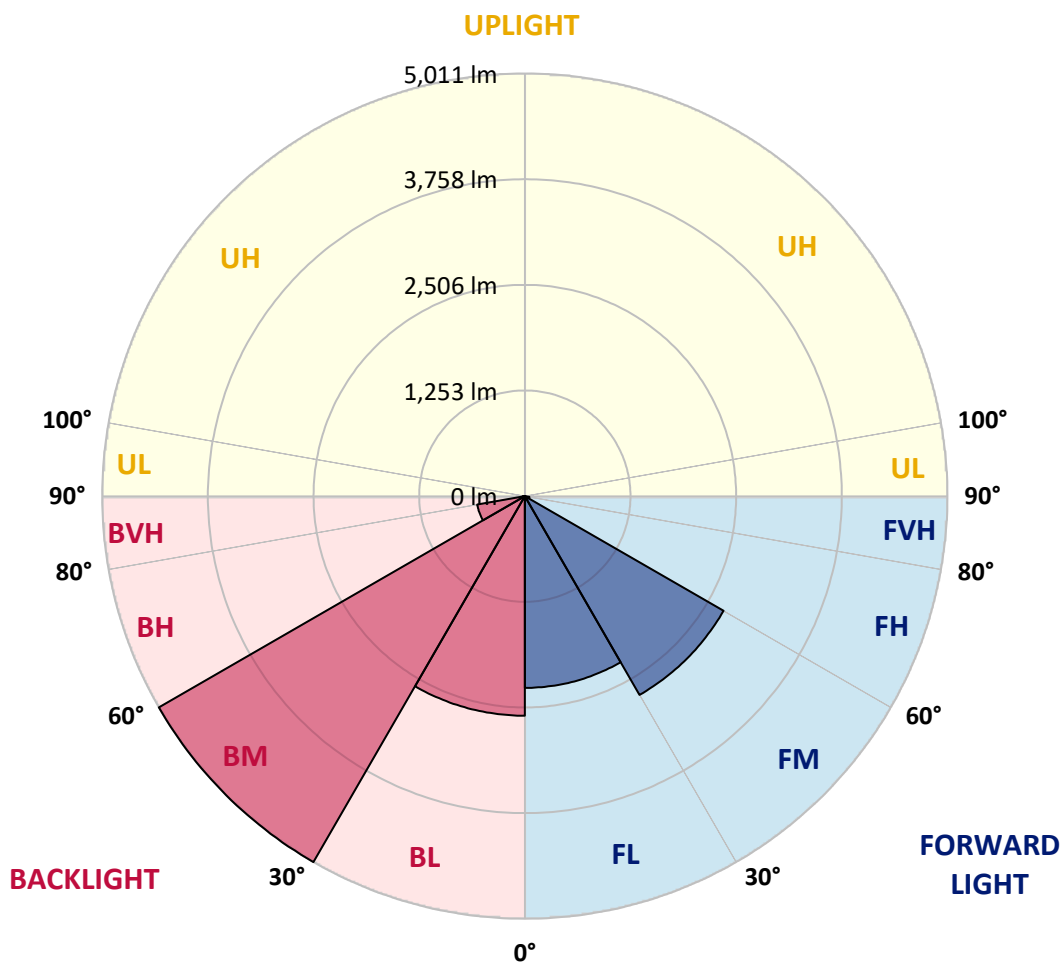
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2273.5	17.1			
FM (30°-60°)	2721.3	20.5			
FH (60°-80°)	54.5	0.4			G0/660
FVH (80°-90°)	3.9	0.0			G0/10
BL (0°-30°)	2603.6	19.6	B4/5000		
BM (30°-60°)	5011.3	37.8	B4/8500		
BH (60°-80°)	573.2	4.3	B2/1000		G2/1000
BVH (80°-90°)	25.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5724.4	5724.4	5724.4	5724.4	5724.4	5724.4	5724.4	5724.4	5724.4	5724.4
2.5°	5749.7	5712.7	5677.6	5665.9	5714.6	5767.3	5734.1	5736.1	5724.4	5745.8
5°	5792.6	5741.9	5718.5	5701.0	5708.8	5763.4	5716.6	5734.1	5714.6	5740.0
7.5°	5777.0	5741.9	5718.5	5685.4	5710.7	5775.1	5730.2	5732.2	5722.4	5745.8
10°	5767.3	5741.9	5712.7	5716.6	5745.8	5800.4	5765.3	5784.8	5771.2	5784.8
12.5°	5790.6	5763.4	5747.8	5747.8	5773.1	5835.5	5817.9	5835.5	5829.6	5841.3
15°	5570.3	5595.7	5743.9	5810.1	5860.8	5923.2	5915.4	5933.0	5936.9	5954.4
17.5°	4698.8	4673.5	4661.8	5003.0	5909.6	6102.6	6096.8	6094.8	6075.3	6061.7
20°	4813.8	4804.1	4790.4	4815.8	4917.2	6196.2	6235.2	5995.4	5925.2	5919.3
22.5°	4997.1	4981.5	4930.8	4932.8	4964.0	5387.1	6042.2	5823.8	5800.4	5786.7
25°	5086.8	5055.6	5014.7	5003.0	5012.7	4934.7	5396.8	5656.1	5541.1	5488.4
27.5°	4928.9	4930.8	4897.7	4928.9	4891.8	4540.9	4344.0	5328.6	5324.7	5301.3
30°	4809.9	4804.1	4765.1	4804.1	4548.7	4156.8	4073.0	4969.8	4928.9	4897.7
32.5°	4445.3	4449.2	4562.3	4714.4	4295.2	3985.2	3731.8	4439.5	4827.5	4809.9
35°	3180.0	3187.8	3589.4	4340.1	3911.1	3644.0	3624.5	3837.0	4667.6	4675.4
37.5°	3061.0	3061.0	3051.3	3174.1	3608.9	3505.6	3544.6	3523.1	4275.7	4295.2
40°	2975.3	2957.7	2944.1	2751.0	2509.3	3408.1	3435.4	3337.9	4041.8	4045.7
42.5°	2871.9	2852.4	2856.3	2499.5	2246.1	3166.3	3090.3	2959.7	3651.8	3655.7
45°	2682.8	2716.0	2739.3	2187.6	2168.1	2261.7	2850.5	2768.6	3388.6	3460.7
47.5°	1364.8	1394.0	2138.8	2012.1	2056.9	2010.2	2407.9	2409.8	2819.3	3059.1
50°	1238.1	1230.3	1232.2	1173.7	1899.0	1626.1	1741.1	2209.0	2257.8	2600.9
52.5°	1154.2	1152.3	1033.3	918.3	1193.2	1431.1	1263.4	1598.8	1678.7	2203.2
55°	854.0	916.4	815.0	863.7	746.7	1146.4	1140.6	1442.8	1470.1	1766.4
57.5°	7.8	9.7	23.4	657.1	516.7	573.2	787.7	984.6	1033.3	1376.5
60°	1.9	3.9	9.7	19.5	335.4	352.9	526.4	569.3	641.5	820.8
62.5°	0.0	0.0	3.9	9.7	17.5	144.3	167.7	183.3	282.7	419.2
65°	0.0	0.0	1.9	5.8	9.7	23.4	40.9	85.8	122.8	152.1
67.5°	0.0	0.0	1.9	3.9	7.8	11.7	23.4	33.1	52.6	89.7
70°	0.0	0.0	1.9	3.9	5.8	9.7	15.6	23.4	31.2	44.8
72.5°	0.0	0.0	1.9	3.9	3.9	11.7	11.7	17.5	23.4	29.2
75°	0.0	0.0	1.9	1.9	3.9	7.8	11.7	13.6	15.6	23.4
77.5°	0.0	0.0	1.9	3.9	5.8	7.8	9.7	15.6	13.6	13.6
80°	0.0	0.0	1.9	5.8	5.8	9.7	11.7	15.6	9.7	9.7
82.5°	0.0	0.0	1.9	7.8	5.8	19.5	19.5	21.4	7.8	7.8
85°	0.0	0.0	5.8	3.9	11.7	19.5	17.5	11.7	9.7	5.8
87.5°	0.0	0.0	1.9	1.9	3.9	5.8	13.6	11.7	3.9	3.9
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°
5724.4	0°	5724.4	5724.4	5724.4	5724.4	5724.4	5724.4	5724.4	5724.4	5724.4
5689.3	2.5°	5767.3	5741.9	5794.5	5788.7	5763.4	5751.7	5738.0	5726.3	5640.5
5693.2	5°	5769.2	5730.2	5794.5	5782.8	5779.0	5759.5	5747.8	5765.3	5687.3
5708.8	7.5°	5769.2	5730.2	5800.4	5804.3	5798.4	5782.8	5780.9	5792.6	5728.3
5736.1	10°	5808.2	5792.6	5851.1	5856.9	5849.1	5845.2	5835.5	5827.7	5759.5
5829.6	12.5°	5890.1	5858.9	5925.2	5942.7	5936.9	5946.6	5923.2	5934.9	5864.7
5925.2	15°	5989.5	5991.5	6042.2	6081.2	6077.3	6108.5	6073.4	6104.6	6053.9
6034.4	17.5°	6141.6	6163.0	6235.2	6293.7	6315.1	6338.5	6315.1	6324.9	6252.7
5913.5	20°	5981.7	6061.7	6408.7	6515.9	6560.8	6582.2	6543.2	6554.9	6482.8
5765.3	22.5°	5837.4	5940.8	6248.8	6584.2	6722.6	6765.5	6751.9	6749.9	6722.6
5472.8	25°	5624.9	5833.5	5972.0	6326.8	6761.6	6839.6	6847.4	6845.4	6804.5
5293.5	27.5°	5363.7	5410.5	5769.2	5985.6	6488.6	6785.0	6773.3	6716.8	6662.2
4921.1	30°	5030.3	5242.8	5404.6	5749.7	6135.7	6617.3	6617.3	6574.4	6517.9
4788.5	32.5°	4860.6	5135.5	5285.7	5410.5	5740.0	6430.2	6508.1	6463.3	6418.5
4685.2	35°	4770.9	4811.9	5162.8	5275.9	5554.7	6069.5	6385.3	6340.5	6307.3
4410.3	37.5°	4574.0	4669.6	4833.3	5135.5	5221.3	5775.1	6221.5	6198.1	6159.1
4053.5	40°	4135.3	4390.8	4642.3	4928.9	5018.6	5396.8	6022.7	6032.4	5979.8
3673.3	42.5°	3876.0	4049.6	4443.4	4636.4	4878.2	5153.1	5829.6	5845.2	5808.2
3480.2	45°	3571.9	3764.9	4041.8	4392.7	4722.2	4817.7	5488.4	5652.2	5621.0
3096.1	47.5°	3293.1	3449.0	3788.3	4143.1	4507.7	4494.1	5096.6	5404.6	5361.7
2801.7	50°	2897.3	3170.2	3330.1	3655.7	4199.7	4236.7	4679.3	5114.1	5079.0
2380.6	52.5°	2443.0	2786.1	3092.2	3390.6	3887.7	3975.5	4291.3	4817.7	4794.3
1819.1	55°	2134.9	2384.5	2729.6	2969.4	3509.5	3743.4	4000.8	4535.0	4523.3
1495.4	57.5°	1518.8	2000.4	2285.1	2620.4	2905.1	3328.2	3519.2	3959.9	3850.7
828.6	60°	1029.4	1255.6	1602.7	1963.4	2154.4	2577.5	2754.9	3107.8	3078.6
495.2	62.5°	544.0	752.6	1000.2	1181.5	1320.0	1731.3	1805.4	2185.6	2175.9
198.9	65°	239.8	317.8	542.0	635.6	777.9	969.0	1033.3	1169.8	1136.7
97.5	67.5°	124.8	189.1	306.1	376.3	473.8	545.9	598.6	641.5	668.8
64.3	70°	76.0	138.4	189.1	261.3	325.6	384.1	425.0	483.5	518.6
33.1	72.5°	56.5	87.7	130.6	200.8	235.9	304.2	345.1	388.0	419.2
27.3	75°	31.2	58.5	105.3	157.9	189.1	247.6	284.7	313.9	323.7
15.6	77.5°	19.5	44.8	87.7	122.8	148.2	200.8	191.1	218.4	241.8
11.7	80°	13.6	33.1	68.2	101.4	103.3	128.7	152.1	175.5	191.1
7.8	82.5°	9.7	27.3	50.7	78.0	68.2	99.4	118.9	136.5	99.4
5.8	85°	7.8	19.5	25.3	46.8	39.0	70.2	60.4	58.5	39.0
3.9	87.5°	5.8	9.7	17.5	21.4	15.6	15.6	19.5	23.4	19.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
5724.4
5582.0
5621.0
5654.2
5702.9
5802.3
5970.0
6190.3
6432.1
6634.9
6742.1
6619.3
6496.4
6381.4
6260.5
6120.1
5968.1
5804.3
5624.9
5392.9
5084.9
4809.9
4537.0
3839.0
3080.5
2177.8
1123.0
668.8
520.6
425.0
317.8
245.7
193.0
72.1
39.0
19.5
0.0

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