

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: EPHESUS

Report Number: P638835

Luminaire Tested: **EPH-VN-04-E-730-U-LAM-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638835
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-04-E-730-U-LAM-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (64) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23473.1 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

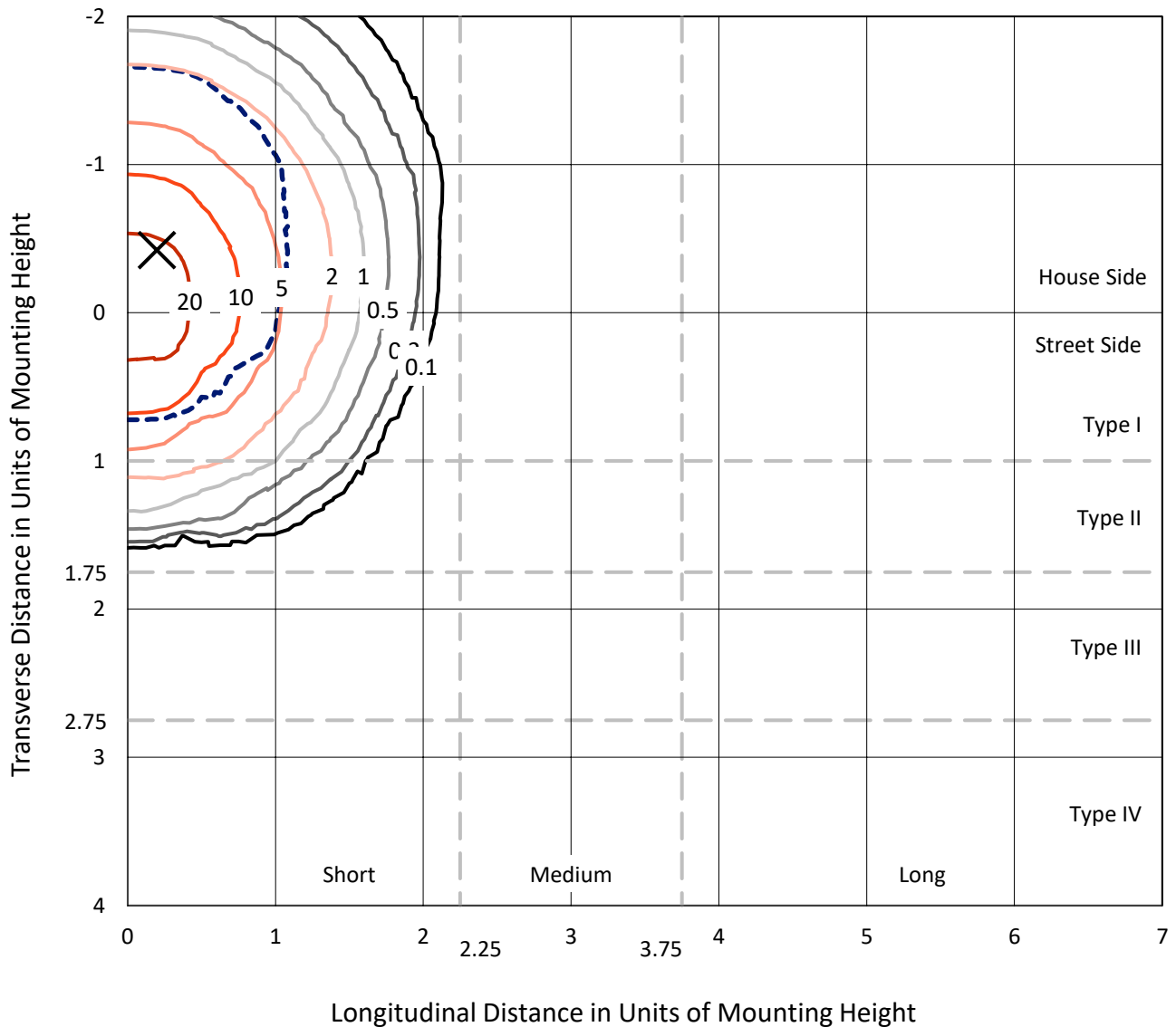
Input Watts (W): 303.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

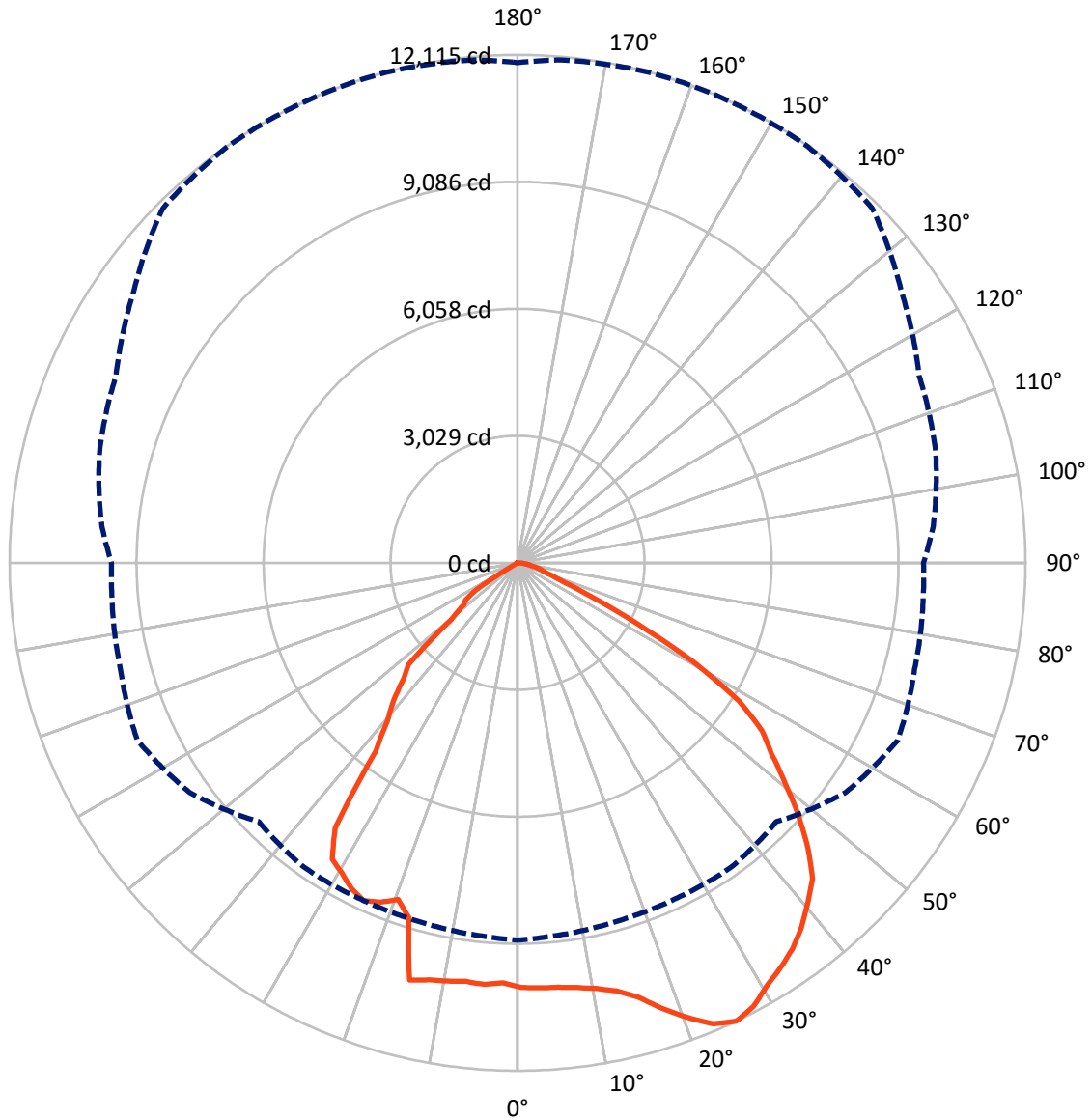
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 25.3 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	14532.2	0.0	14532.2
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	8940.8	0.0	8940.8
	% Fixture	38.1	0.0	38.1
Total	Lumens	23473.1	0.0	23473.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	971.7	4.1
10°-20°	2966.9	12.6
20°-30°	4690.6	20.0
30°-40°	5298.4	22.6
40°-50°	4962.1	21.1
50°-60°	3421.0	14.6
60°-70°	919.1	3.9
70°-80°	191.5	0.8
80°-90°	51.8	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°	23473.1	100.0
0°-180°	23473.1	100.0

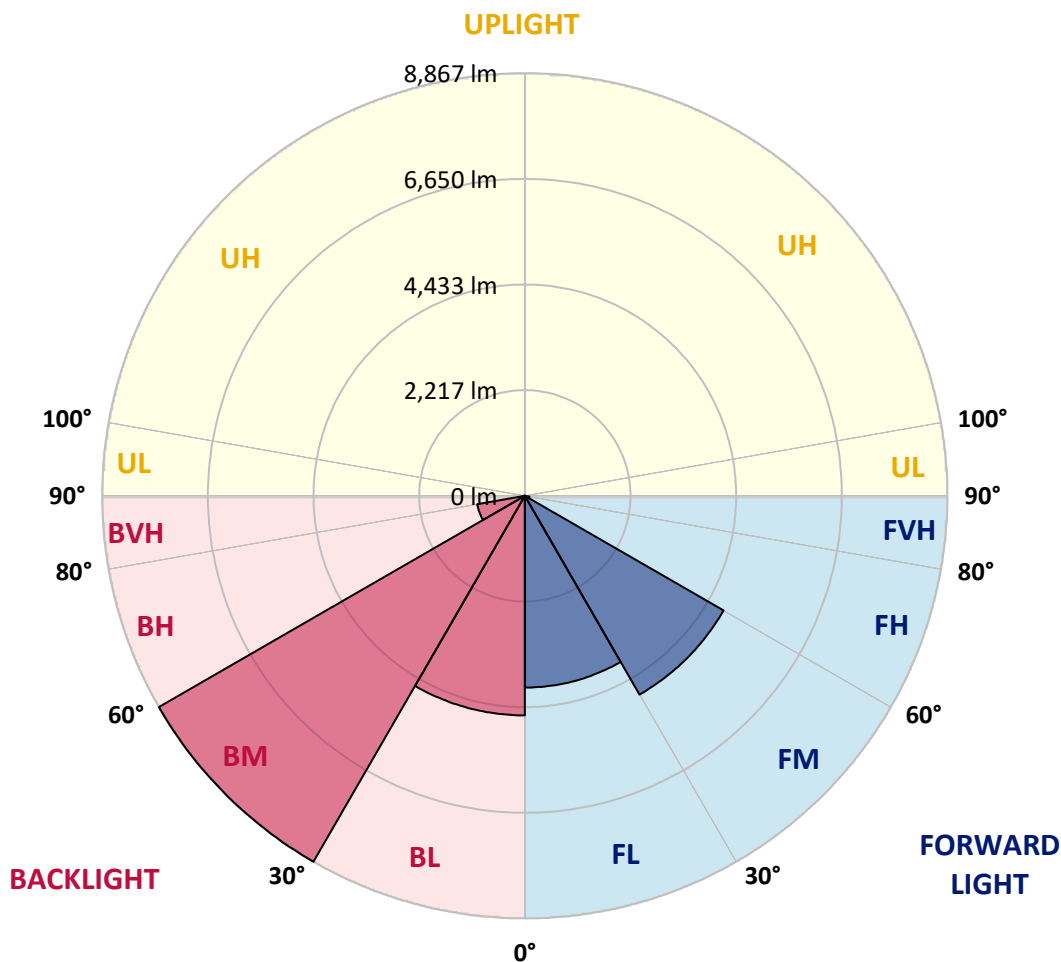


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4022.5	17.1			
FM (30°-60°)	4814.9	20.5			
FH (60°-80°)	96.5	0.4			G0/660
FVH (80°-90°)	6.9	0.0			G0/10
BL (0°-30°)	4606.6	19.6	B4/5000		
BM (30°-60°)	8866.6	37.8	B5		
BH (60°-80°)	1014.2	4.3	B3/2500		G3/2500
BVH (80°-90°)	44.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10128.2	10128.2	10128.2	10128.2	10128.2	10128.2	10128.2	10128.2	10128.2	10128.2
2.5°	10173.1	10107.5	10045.4	10024.7	10111.0	10204.1	10145.5	10148.9	10128.2	10166.2
5°	10249.0	10159.3	10117.9	10086.8	10100.6	10197.2	10114.4	10145.5	10111.0	10155.8
7.5°	10221.4	10159.3	10117.9	10059.2	10104.1	10217.9	10138.6	10142.0	10124.8	10166.2
10°	10204.1	10159.3	10107.5	10114.4	10166.2	10262.8	10200.7	10235.2	10211.0	10235.2
12.5°	10245.5	10197.2	10169.6	10169.6	10214.5	10324.9	10293.8	10324.9	10314.5	10335.2
15°	9855.7	9900.5	10162.7	10280.0	10369.7	10480.1	10466.3	10497.3	10504.2	10535.3
17.5°	8313.7	8268.9	8248.2	8851.8	10455.9	10797.5	10787.1	10783.7	10749.2	10725.0
20°	8517.2	8500.0	8475.8	8520.7	8700.1	10963.0	11032.0	10607.7	10483.5	10473.2
22.5°	8841.5	8813.9	8724.2	8727.7	8782.9	9531.4	10690.5	10304.2	10262.8	10238.6
25°	9000.2	8945.0	8872.5	8851.8	8869.1	8731.1	9548.7	10007.5	9804.0	9710.8
27.5°	8720.8	8724.2	8665.6	8720.8	8655.2	8034.3	7685.9	9427.9	9421.0	9379.6
30°	8510.3	8500.0	8431.0	8500.0	8048.1	7354.7	7206.4	8793.2	8720.8	8665.6
32.5°	7865.2	7872.1	8072.2	8341.3	7599.6	7051.1	6602.7	7854.9	8541.4	8510.3
35°	5626.4	5640.2	6350.8	7679.0	6920.0	6447.4	6412.9	6788.9	8258.5	8272.3
37.5°	5416.0	5416.0	5398.7	5616.1	6385.3	6202.5	6271.5	6233.5	7565.1	7599.6
40°	5264.2	5233.1	5209.0	4867.5	4439.7	6030.0	6078.3	5905.8	7151.2	7158.1
42.5°	5081.4	5046.9	5053.8	4422.5	3974.0	5602.3	5467.7	5236.6	6461.2	6468.1
45°	4746.7	4805.4	4846.8	3870.5	3836.0	4001.6	5043.4	4898.5	5995.5	6123.2
47.5°	2414.8	2466.5	3784.3	3560.1	3639.4	3556.6	4260.3	4263.8	4988.2	5412.5
50°	2190.5	2176.7	2180.2	2076.7	3360.0	2877.0	3080.6	3908.5	3994.7	4601.9
52.5°	2042.2	2038.8	1828.3	1624.8	2111.2	2532.1	2235.4	2828.7	2970.2	3898.1
55°	1511.0	1621.3	1442.0	1528.2	1321.2	2028.4	2018.1	2552.8	2601.0	3125.4
57.5°	13.8	17.2	41.4	1162.5	914.2	1014.2	1393.7	1742.1	1828.3	2435.5
60°	3.4	6.9	17.2	34.5	593.3	624.4	931.4	1007.3	1134.9	1452.3
62.5°	0.0	0.0	6.9	17.2	31.0	255.3	296.7	324.3	500.2	741.7
65°	0.0	0.0	3.4	10.3	17.2	41.4	72.4	151.8	217.3	269.1
67.5°	0.0	0.0	3.4	6.9	13.8	20.7	41.4	58.6	93.1	158.7
70°	0.0	0.0	3.4	6.9	10.3	17.2	27.6	41.4	55.2	79.3
72.5°	0.0	0.0	3.4	6.9	6.9	20.7	20.7	31.0	41.4	51.7
75°	0.0	0.0	3.4	3.4	6.9	13.8	20.7	24.1	27.6	41.4
77.5°	0.0	0.0	3.4	6.9	10.3	13.8	17.2	27.6	24.1	24.1
80°	0.0	0.0	3.4	10.3	10.3	17.2	20.7	27.6	17.2	17.2
82.5°	0.0	0.0	3.4	13.8	10.3	34.5	34.5	37.9	13.8	13.8
85°	0.0	0.0	10.3	6.9	20.7	34.5	31.0	20.7	17.2	10.3
87.5°	0.0	0.0	3.4	3.4	6.9	10.3	24.1	20.7	6.9	6.9
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°
10128.2	0°	10128.2	10128.2	10128.2	10128.2	10128.2	10128.2	10128.2	10128.2	10128.2
10066.1	2.5°	10204.1	10159.3	10252.4	10242.1	10197.2	10176.5	10152.4	10131.7	9979.9
10073.0	5°	10207.6	10138.6	10252.4	10231.7	10224.8	10190.3	10169.6	10200.7	10062.7
10100.6	7.5°	10207.6	10138.6	10262.8	10269.7	10259.3	10231.7	10228.3	10249.0	10135.1
10148.9	10°	10276.6	10249.0	10352.4	10362.8	10349.0	10342.1	10324.9	10311.1	10190.3
10314.5	12.5°	10421.4	10366.2	10483.5	10514.6	10504.2	10521.5	10480.1	10500.8	10376.6
10483.5	15°	10597.4	10600.8	10690.5	10759.5	10752.6	10807.8	10745.7	10800.9	10711.2
10676.7	17.5°	10866.4	10904.4	11032.0	11135.5	11173.5	11214.9	11173.5	11190.7	11063.1
10462.8	20°	10583.6	10725.0	11339.1	11528.8	11608.1	11646.1	11577.1	11597.8	11470.1
10200.7	22.5°	10328.3	10511.1	11056.2	11649.5	11894.5	11970.3	11946.2	11942.7	11894.5
9683.2	25°	9952.3	10321.4	10566.3	11194.2	11963.4	12101.4	12115.2	12111.8	12039.3
9365.8	27.5°	9490.0	9572.8	10207.6	10590.5	11480.5	12004.8	11984.1	11884.1	11787.5
8707.0	30°	8900.1	9276.2	9562.5	10173.1	10856.1	11708.2	11708.2	11632.3	11532.2
8472.4	32.5°	8600.0	9086.4	9352.0	9572.8	10155.8	11377.0	11515.0	11435.6	11356.3
8289.5	35°	8441.3	8513.8	9134.7	9334.8	9828.1	10738.8	11297.7	11218.3	11159.7
7803.1	37.5°	8092.9	8262.0	8551.7	9086.4	9238.2	10217.9	11007.9	10966.5	10897.5
7171.9	40°	7316.7	7768.6	8213.7	8720.8	8879.4	9548.7	10656.0	10673.3	10580.1
6499.2	42.5°	6857.9	7165.0	7861.8	8203.3	8631.1	9117.5	10314.5	10342.1	10276.6
6157.7	45°	6319.8	6661.3	7151.2	7772.1	8355.1	8524.1	9710.8	10000.6	9945.4
5478.1	47.5°	5826.5	6102.5	6702.7	7330.5	7975.6	7951.5	9017.4	9562.5	9486.6
4957.2	50°	5126.2	5609.2	5892.0	6468.1	7430.6	7496.1	8279.2	9048.5	8986.4
4212.0	52.5°	4322.4	4929.6	5471.2	5999.0	6878.6	7033.9	7592.7	8524.1	8482.7
3218.5	55°	3777.4	4218.9	4829.5	5253.8	6209.4	6623.4	7078.7	8023.9	8003.2
2645.9	57.5°	2687.3	3539.4	4043.0	4636.4	5140.0	5888.6	6226.6	7006.3	6813.1
1466.1	60°	1821.4	2221.6	2835.6	3473.8	3811.9	4560.5	4874.4	5498.8	5447.0
876.2	62.5°	962.5	1331.6	1769.7	2090.5	2335.4	3063.3	3194.4	3867.1	3849.8
351.9	65°	424.3	562.3	959.0	1124.6	1376.4	1714.5	1828.3	2069.8	2011.2
172.5	67.5°	220.8	334.6	541.6	665.8	838.3	965.9	1059.0	1134.9	1183.2
113.8	70°	134.5	244.9	334.6	462.3	576.1	679.6	752.0	855.5	917.6
58.6	72.5°	100.0	155.2	231.1	355.3	417.4	538.1	610.6	686.5	741.7
48.3	75°	55.2	103.5	186.3	279.4	334.6	438.1	503.7	555.4	572.6
27.6	77.5°	34.5	79.3	155.2	217.3	262.2	355.3	338.1	386.4	427.8
20.7	80°	24.1	58.6	120.7	179.4	182.8	227.7	269.1	310.5	338.1
13.8	82.5°	17.2	48.3	89.7	138.0	120.7	175.9	210.4	241.5	175.9
10.3	85°	13.8	34.5	44.8	82.8	69.0	124.2	106.9	103.5	69.0
6.9	87.5°	10.3	17.2	31.0	37.9	27.6	27.6	34.5	41.4	34.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
10128.2
9876.4
9945.4
10004.0
10090.3
10266.2
10562.9
10952.7
11380.5
11739.2
11928.9
11711.6
11494.3
11290.8
11076.9
10828.5
10559.4
10269.7
9952.3
9541.8
8996.7
8510.3
8027.4
6792.4
5450.5
3853.3
1987.0
1183.2
921.1
752.0
562.3
434.7
341.5
127.6
69.0
34.5
0.0

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