

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: P638839

Luminaire Tested: **EPH-VN-08-E-730-U-LAM-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638839
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-08-E-730-U-LAM-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45950.4 lumens
Efficiency: N/A
Efficacy: 73.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

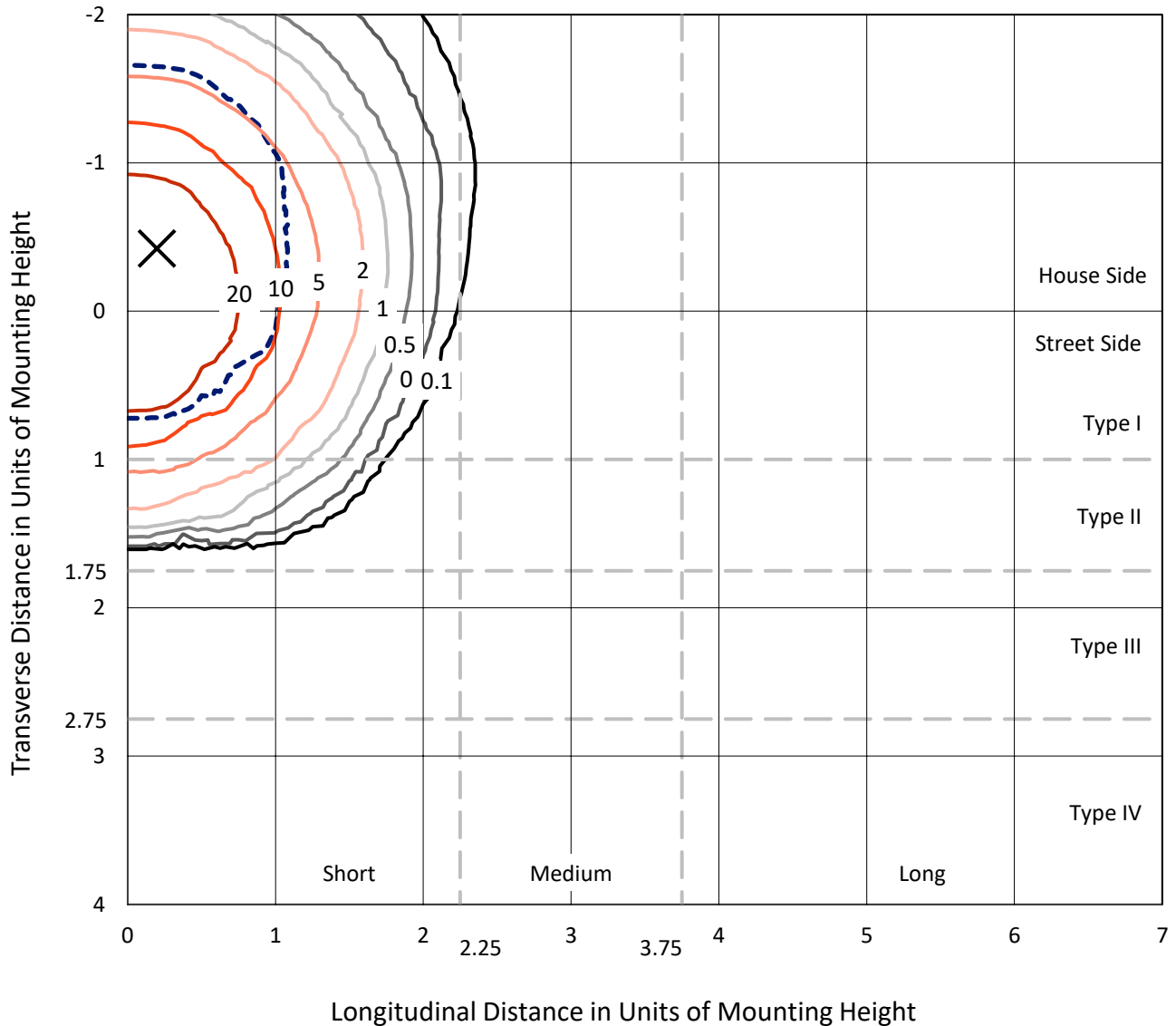
Input Watts (W): 626.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

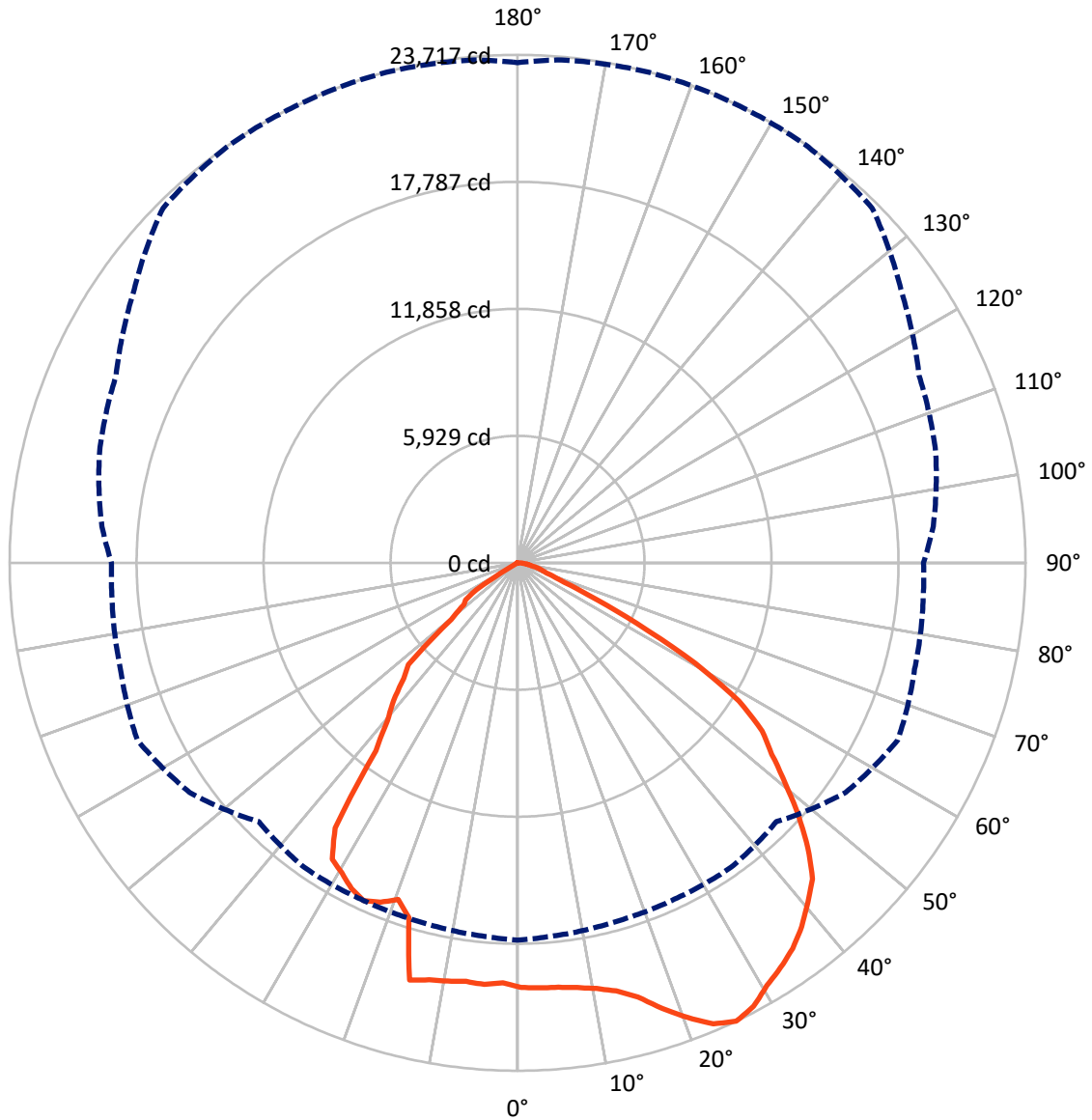
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 49.6 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	28448.0	0.0	28448.0
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	17502.4	0.0	17502.4
	% Fixture	38.1	0.0	38.1
Total	Lumens	45950.4	0.0	45950.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1902.1	4.1
10°-20°	5808.0	12.6
20°-30°	9182.1	20.0
30°-40°	10372.0	22.6
40°-50°	9713.6	21.1
50°-60°	6696.8	14.6
60°-70°	1799.2	3.9
70°-80°	374.9	0.8
80°-90°	101.4	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°	45950.4	100.0
0°-180°	45950.4	100.0

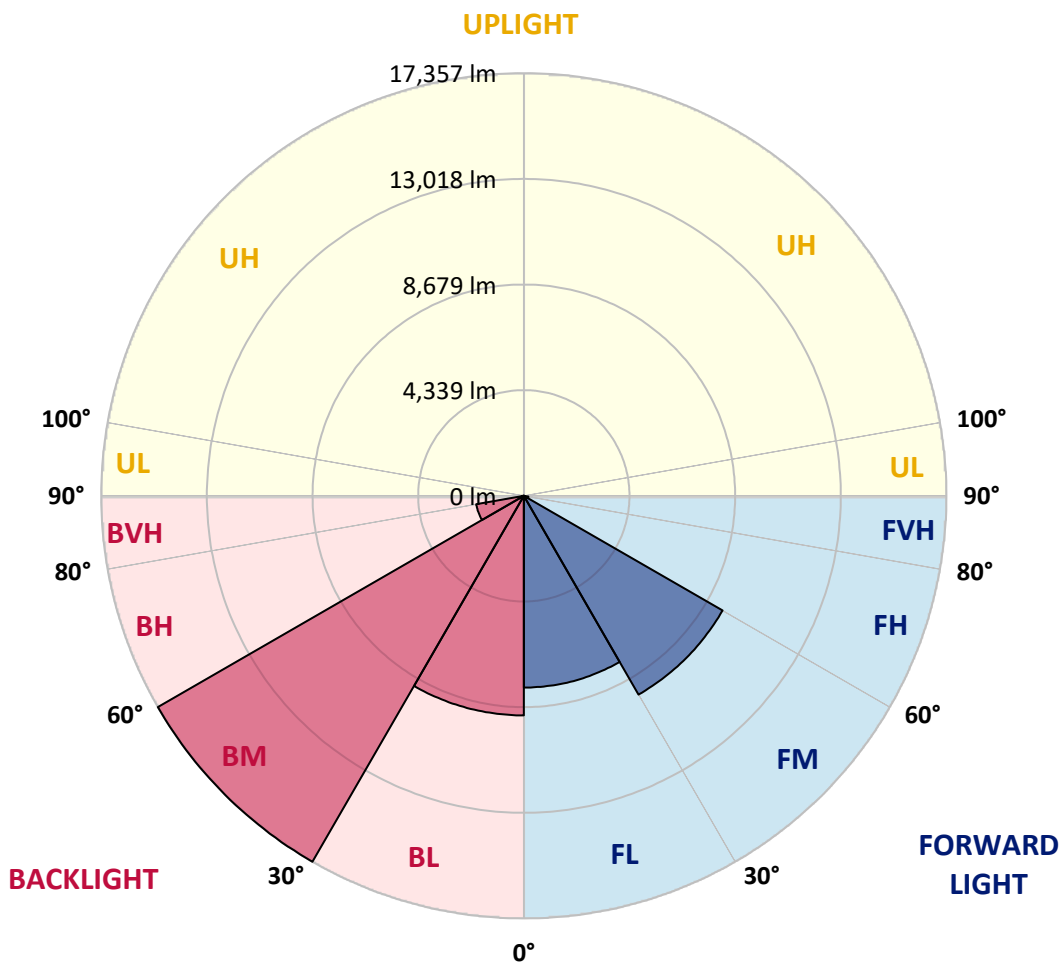


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7874.4	17.1			
FM (30°-60°)	9425.5	20.5			
FH (60°-80°)	188.9	0.4			G0/660
FVH (80°-90°)	13.6	0.0			G1/100
BL (0°-30°)	9017.8	19.6	B5		
BM (30°-60°)	17357.1	37.8	B5		
BH (60°-80°)	1985.3	4.3	B3/2500		G3/2500
BVH (80°-90°)	87.8	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°	19826.8	19826.8	19826.8	19826.8	19826.8	19826.8	19826.8	19826.8	19826.8	19826.8
2.5°	19914.6	19786.3	19664.7	19624.2	19793.0	19975.3	19860.5	19867.3	19826.8	19901.1
5°	20063.1	19887.6	19806.5	19745.7	19772.8	19961.8	19799.8	19860.5	19793.0	19880.8
7.5°	20009.1	19887.6	19806.5	19691.7	19779.5	20002.4	19847.0	19853.8	19820.0	19901.1
10°	19975.3	19887.6	19786.3	19799.8	19901.1	20090.1	19968.6	20036.1	19988.8	20036.1
12.5°	20056.4	19961.8	19907.8	19907.8	19995.6	20211.7	20150.9	20211.7	20191.4	20232.0
15°	19293.3	19381.1	19894.3	20123.9	20299.5	20515.6	20488.6	20549.3	20562.9	20623.6
17.5°	16274.7	16186.9	16146.4	17328.2	20468.3	21136.9	21116.6	21109.8	21042.3	20995.0
20°	16673.1	16639.4	16592.1	16679.9	17031.0	21461.0	21596.1	20765.4	20522.3	20502.1
22.5°	17307.9	17253.9	17078.3	17085.1	17193.1	18658.5	20927.5	20171.2	20090.1	20042.9
25°	17618.5	17510.5	17368.7	17328.2	17361.9	17091.8	18692.3	19590.4	19192.0	19009.7
27.5°	17071.6	17078.3	16963.5	17071.6	16943.3	15727.7	15045.7	18455.9	18442.4	18361.4
30°	16659.6	16639.4	16504.3	16639.4	15754.7	14397.4	14107.0	17213.4	17071.6	16963.5
32.5°	15396.8	15410.3	15802.0	16328.7	14876.8	13803.1	12925.2	15376.6	16720.4	16659.6
35°	11014.1	11041.1	12432.3	15032.2	13546.5	12621.3	12553.8	13289.9	16166.7	16193.7
37.5°	10602.2	10602.2	10568.4	10993.9	12499.8	12141.9	12276.9	12202.7	14809.3	14876.8
40°	10305.1	10244.3	10197.0	9528.5	8691.1	11804.2	11898.8	11561.1	13998.9	14012.5
42.5°	9947.2	9879.6	9893.1	8657.3	7779.4	10966.9	10703.5	10251.0	12648.3	12661.9
45°	9292.1	9406.9	9488.0	7576.9	7509.3	7833.5	9872.9	9589.2	11736.7	11986.6
47.5°	4727.1	4828.4	7408.0	6969.1	7124.4	6962.3	8339.9	8346.7	9764.8	10595.4
50°	4288.1	4261.1	4267.9	4065.3	6577.4	5632.0	6030.4	7651.1	7820.0	9008.5
52.5°	3997.8	3991.0	3579.1	3180.7	4132.8	4956.7	4375.9	5537.5	5814.3	7630.9
55°	2957.8	3173.9	2822.7	2991.6	2586.4	3970.8	3950.5	4997.2	5091.8	6118.2
57.5°	27.0	33.8	81.0	2275.8	1789.5	1985.4	2728.2	3410.3	3579.1	4767.6
60°	6.8	13.5	33.8	67.5	1161.5	1222.3	1823.3	1971.9	2221.7	2843.0
62.5°	0.0	0.0	13.5	33.8	60.8	499.7	580.8	634.8	979.2	1451.9
65°	0.0	0.0	6.8	20.3	33.8	81.0	141.8	297.1	425.4	526.7
67.5°	0.0	0.0	6.8	13.5	27.0	40.5	81.0	114.8	182.3	310.6
70°	0.0	0.0	6.8	13.5	20.3	33.8	54.0	81.0	108.0	155.3
72.5°	0.0	0.0	6.8	13.5	13.5	40.5	40.5	60.8	81.0	101.3
75°	0.0	0.0	6.8	6.8	13.5	27.0	40.5	47.3	54.0	81.0
77.5°	0.0	0.0	6.8	13.5	20.3	27.0	33.8	54.0	47.3	47.3
80°	0.0	0.0	6.8	20.3	20.3	33.8	40.5	54.0	33.8	33.8
82.5°	0.0	0.0	6.8	27.0	20.3	67.5	67.5	74.3	27.0	27.0
85°	0.0	0.0	20.3	13.5	40.5	67.5	60.8	40.5	33.8	20.3
87.5°	0.0	0.0	6.8	6.8	13.5	20.3	47.3	40.5	13.5	13.5
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°
19826.8	0°	19826.8	19826.8	19826.8	19826.8	19826.8	19826.8	19826.8	19826.8	19826.8
19705.2	2.5°	19975.3	19887.6	20069.9	20049.6	19961.8	19921.3	19874.0	19833.5	19536.4
19718.7	5°	19982.1	19847.0	20069.9	20029.4	20015.9	19948.3	19907.8	19968.6	19698.5
19772.8	7.5°	19982.1	19847.0	20090.1	20103.6	20083.4	20029.4	20022.6	20063.1	19840.3
19867.3	10°	20117.2	20063.1	20265.7	20286.0	20259.0	20245.5	20211.7	20184.7	19948.3
20191.4	12.5°	20400.8	20292.7	20522.3	20583.1	20562.9	20596.6	20515.6	20556.1	20313.0
20522.3	15°	20745.2	20751.9	20927.5	21062.6	21049.1	21157.1	21035.6	21143.6	20968.0
20900.5	17.5°	21271.9	21346.2	21596.1	21798.7	21872.9	21954.0	21872.9	21906.7	21656.8
20481.8	20°	20718.2	20995.0	22197.1	22568.5	22723.8	22798.1	22663.0	22703.6	22453.7
19968.6	22.5°	20218.5	20576.4	21643.3	22804.8	23284.3	23432.9	23385.6	23378.8	23284.3
18955.6	25°	19482.4	20204.9	20684.4	21913.5	23419.4	23689.5	23716.5	23709.7	23567.9
18334.4	27.5°	18577.5	18739.5	19982.1	20731.7	22473.9	23500.4	23459.9	23264.0	23075.0
17044.5	30°	17422.7	18158.8	18719.3	19914.6	21251.7	22919.6	22919.6	22771.1	22575.2
16585.3	32.5°	16835.2	17787.4	18307.4	18739.5	19880.8	22271.4	22541.5	22386.2	22230.8
16227.4	35°	16524.6	16666.4	17881.9	18273.6	19239.3	21022.1	22116.0	21960.7	21845.9
15275.3	37.5°	15842.5	16173.4	16740.7	17787.4	18084.5	20002.4	21548.8	21467.8	21332.7
14039.5	40°	14323.1	15207.7	16078.9	17071.6	17382.2	18692.3	20860.0	20893.7	20711.4
12722.6	42.5°	13424.9	14026.0	15390.1	16058.6	16896.0	17848.2	20191.4	20245.5	20117.2
12054.1	45°	12371.5	13040.0	13998.9	15214.5	16355.7	16686.6	19009.7	19576.9	19468.9
10723.7	47.5°	11405.8	11946.0	13121.1	14350.1	15612.9	15565.6	17652.3	18719.3	18570.7
9704.0	50°	10034.9	10980.4	11534.1	12661.9	14545.9	14674.2	16207.2	17713.1	17591.5
8245.4	52.5°	8461.5	9650.0	10710.2	11743.4	13465.5	13769.3	14863.3	16686.6	16605.6
6300.5	55°	7394.5	8258.9	9454.2	10284.8	12155.4	12965.7	13857.1	15707.5	15666.9
5179.5	57.5°	5260.6	6928.6	7914.5	9076.0	10062.0	11527.4	12189.1	13715.3	13337.2
2870.0	60°	3565.6	4348.9	5551.0	6800.3	7462.1	8927.5	9542.0	10764.3	10663.0
1715.3	62.5°	1884.1	2606.7	3464.3	4092.3	4571.8	5996.7	6253.3	7570.1	7536.3
688.8	65°	830.6	1100.7	1877.3	2201.5	2694.4	3356.2	3579.1	4051.8	3937.0
337.6	67.5°	432.2	655.0	1060.2	1303.3	1641.0	1890.8	2073.2	2221.7	2316.3
222.8	70°	263.4	479.5	655.0	904.9	1127.7	1330.3	1472.2	1674.7	1796.3
114.8	72.5°	195.8	303.9	452.5	695.6	817.1	1053.5	1195.3	1343.8	1451.9
94.5	75°	108.0	202.6	364.7	547.0	655.0	857.6	985.9	1087.2	1121.0
54.0	77.5°	67.5	155.3	303.9	425.4	513.2	695.6	661.8	756.3	837.4
40.5	80°	47.3	114.8	236.4	351.2	357.9	445.7	526.7	607.8	661.8
27.0	82.5°	33.8	94.5	175.6	270.1	236.4	344.4	411.9	472.7	344.4
20.3	85°	27.0	67.5	87.8	162.1	135.1	243.1	209.3	202.6	135.1
13.5	87.5°	20.3	33.8	60.8	74.3	54.0	54.0	67.5	81.0	67.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
19826.8
19333.8
19468.9
19583.7
19752.5
20096.9
20677.7
21440.7
22278.1
22980.4
23351.8
22926.4
22501.0
22102.5
21683.8
21197.6
20670.9
20103.6
19482.4
18678.8
17611.8
16659.6
15714.2
13296.6
10669.7
7543.1
3889.7
2316.3
1803.0
1472.2
1100.7
850.9
668.5
249.9
135.1
67.5
0.0

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