

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: P638845

Luminaire Tested: **EPH-VN-08-E-735-U-LAM-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638845
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-735-U-LAM-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49770.3 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

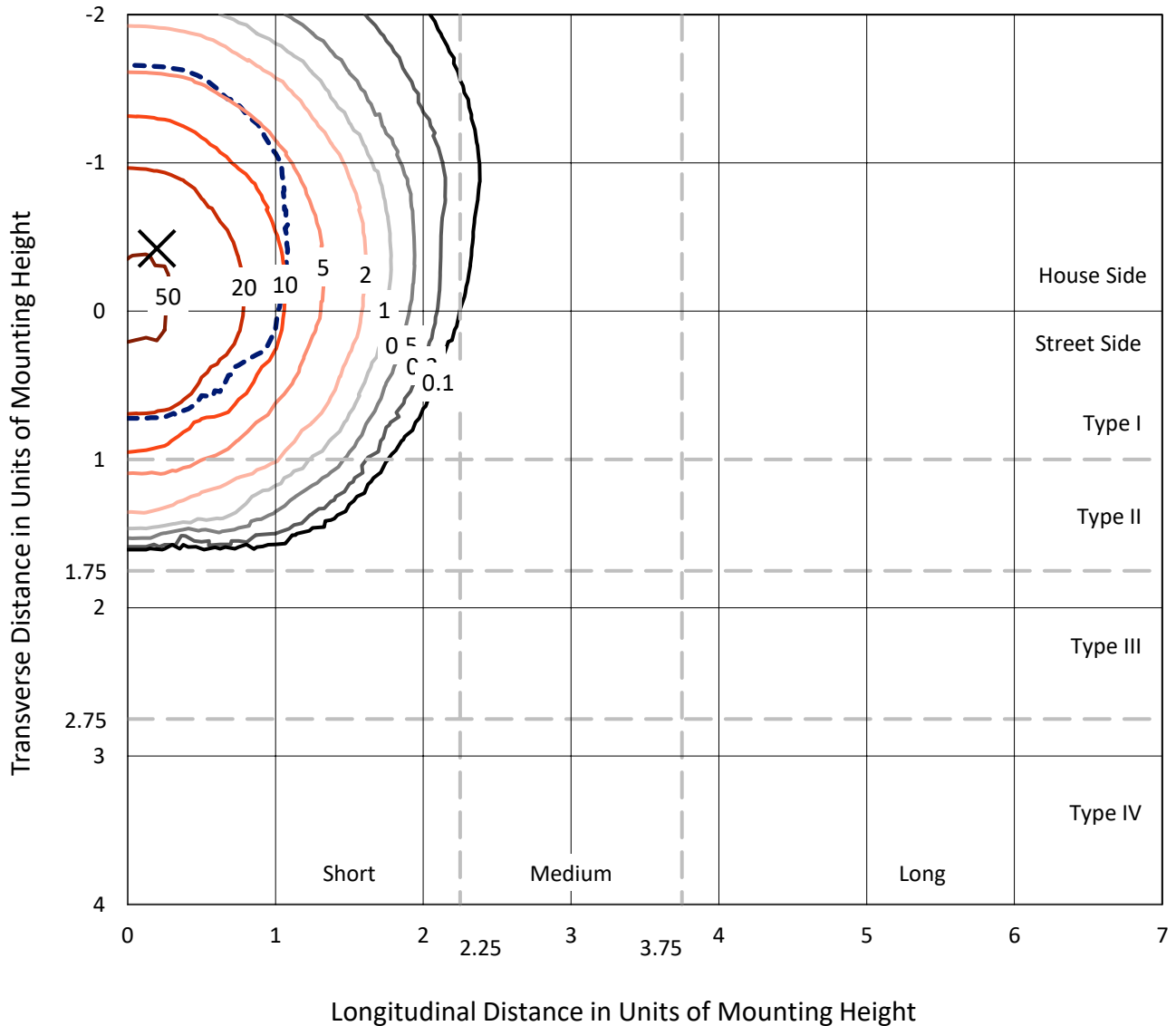
Input Watts (W): 626.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

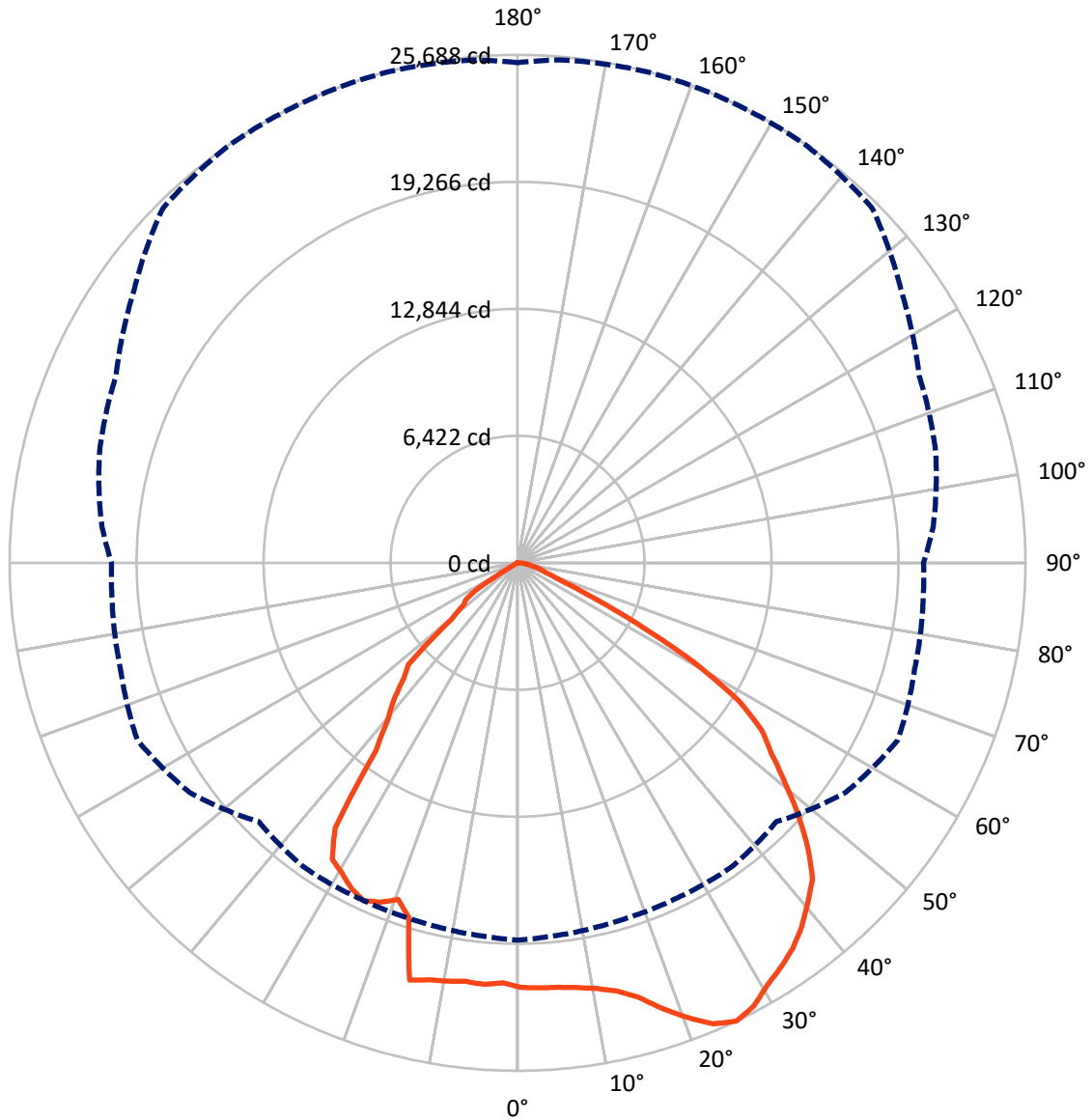
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 53.7 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	30812.9	0.0	30812.9
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	18957.4	0.0	18957.4
	% Fixture	38.1	0.0	38.1
Total	Lumens	49770.3	0.0	49770.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2060.2	4.1
10°-20°	6290.8	12.6
20°-30°	9945.5	20.0
30°-40°	11234.3	22.6
40°-50°	10521.1	21.1
50°-60°	7253.6	14.6
60°-70°	1948.8	3.9
70°-80°	406.1	0.8
80°-90°	109.9	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°	49770.3	100.0
0°-180°	49770.3	100.0

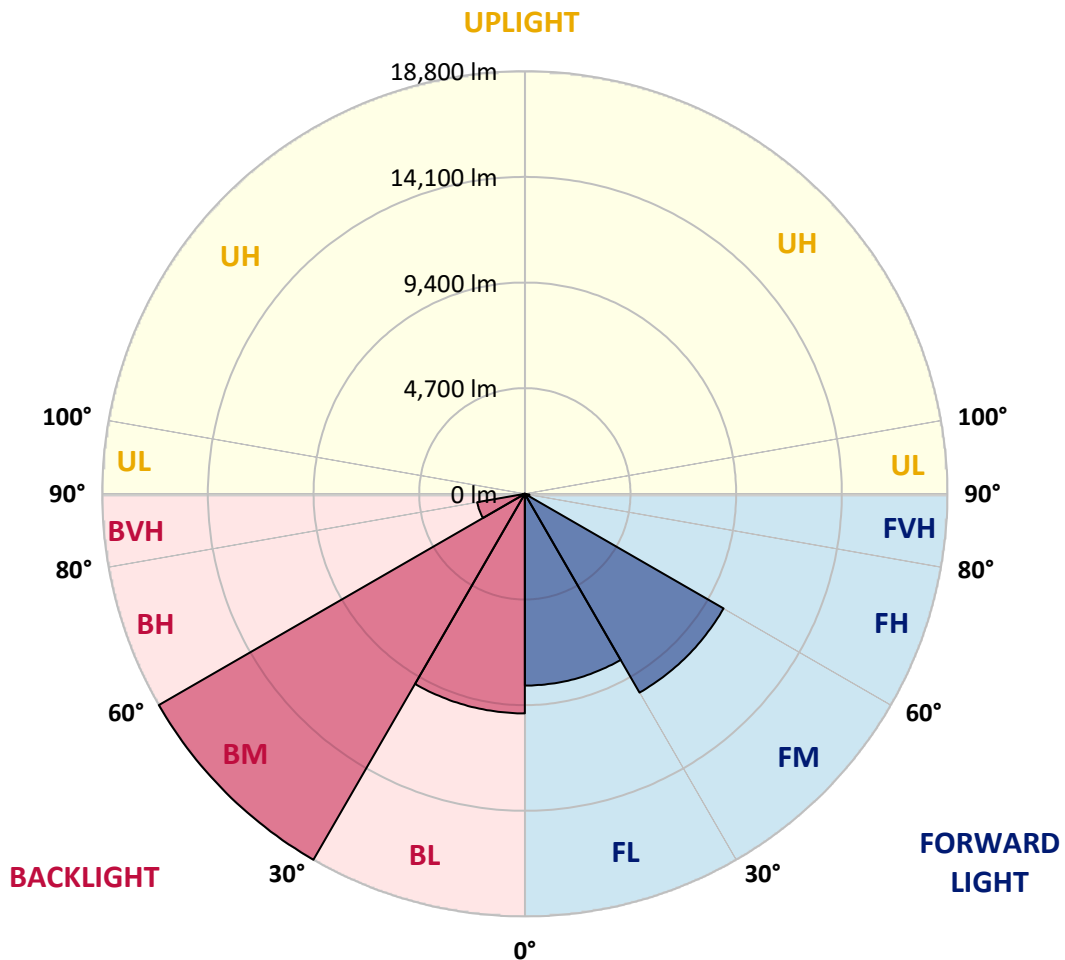


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8529.1	17.1			
FM (30°-60°)	10209.0	20.5			
FH (60°-80°)	204.6	0.4			G0/660
FVH (80°-90°)	14.7	0.0			G1/100
BL (0°-30°)	9767.5	19.6	B5		
BM (30°-60°)	18800.0	37.8	B5		
BH (60°-80°)	2150.3	4.3	B3/2500		G3/2500
BVH (80°-90°)	95.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	21475.0	21475.0	21475.0	21475.0	21475.0	21475.0	21475.0	21475.0	21475.0	21475.0
2.5°	21570.1	21431.1	21299.5	21255.6	21438.4	21635.9	21511.6	21518.9	21475.0	21555.5
5°	21731.0	21540.8	21453.1	21387.2	21416.5	21621.3	21445.8	21511.6	21438.4	21533.5
7.5°	21672.5	21540.8	21453.1	21328.7	21423.8	21665.2	21497.0	21504.3	21467.7	21555.5
10°	21635.9	21540.8	21431.1	21445.8	21555.5	21760.3	21628.6	21701.8	21650.6	21701.8
12.5°	21723.7	21621.3	21562.8	21562.8	21657.9	21891.9	21826.1	21891.9	21870.0	21913.9
15°	20897.2	20992.3	21548.2	21796.8	21987.0	22221.1	22191.8	22257.7	22272.3	22338.1
17.5°	17627.7	17532.6	17488.7	18768.7	22169.9	22894.0	22872.1	22864.7	22791.6	22740.4
20°	18059.2	18022.6	17971.4	18066.5	18446.9	23245.1	23391.4	22491.7	22228.4	22206.5
22.5°	18746.8	18688.2	18498.1	18505.4	18622.4	20209.6	22667.3	21848.1	21760.3	21709.1
25°	19083.2	18966.2	18812.6	18768.7	18805.3	18512.7	20246.2	21219.0	20787.5	20590.0
27.5°	18490.8	18498.1	18373.7	18490.8	18351.8	17035.2	16296.4	19990.2	19975.6	19887.8
30°	18044.6	18022.6	17876.3	18022.6	17064.4	15594.3	15279.7	18644.4	18490.8	18373.7
32.5°	16676.8	16691.4	17115.6	17686.2	16113.6	14950.6	13999.7	16654.8	18110.4	18044.6
35°	11929.8	11959.0	13465.8	16281.8	14672.6	13670.6	13597.4	14394.7	17510.6	17539.9
37.5°	11483.6	11483.6	11447.0	11907.8	13538.9	13151.3	13297.5	13217.1	16040.4	16113.6
40°	11161.7	11095.9	11044.7	10320.6	9413.6	12785.5	12887.9	12522.2	15162.7	15177.3
42.5°	10774.1	10700.9	10715.6	9377.0	8426.2	11878.6	11593.3	11103.2	13699.8	13714.5
45°	10064.6	10188.9	10276.7	8206.7	8133.6	8484.7	10693.6	10386.4	12712.4	12983.0
47.5°	5120.1	5229.8	8023.9	7548.4	7716.7	7541.1	9033.3	9040.6	10576.6	11476.3
50°	4644.6	4615.4	4622.7	4403.3	7124.2	6100.2	6531.7	8287.2	8470.1	9757.4
52.5°	4330.1	4322.8	3876.6	3445.1	4476.4	5368.8	4739.7	5997.8	6297.7	8265.2
55°	3203.7	3437.8	3057.4	3240.3	2801.4	4300.9	4278.9	5412.6	5515.0	6626.8
57.5°	29.3	36.6	87.8	2464.9	1938.3	2150.4	2955.0	3693.8	3876.6	5164.0
60°	7.3	14.6	36.6	73.1	1258.1	1323.9	1974.9	2135.8	2406.4	3079.4
62.5°	0.0	0.0	14.6	36.6	65.8	541.3	629.0	687.6	1060.6	1572.6
65°	0.0	0.0	7.3	21.9	36.6	87.8	153.6	321.8	460.8	570.5
67.5°	0.0	0.0	7.3	14.6	29.3	43.9	87.8	124.3	197.5	336.5
70°	0.0	0.0	7.3	14.6	21.9	36.6	58.5	87.8	117.0	168.2
72.5°	0.0	0.0	7.3	14.6	14.6	43.9	43.9	65.8	87.8	109.7
75°	0.0	0.0	7.3	7.3	14.6	29.3	43.9	51.2	58.5	87.8
77.5°	0.0	0.0	7.3	14.6	21.9	29.3	36.6	58.5	51.2	51.2
80°	0.0	0.0	7.3	21.9	21.9	36.6	43.9	58.5	36.6	36.6
82.5°	0.0	0.0	7.3	29.3	21.9	73.1	73.1	80.5	29.3	29.3
85°	0.0	0.0	21.9	14.6	43.9	73.1	65.8	43.9	36.6	21.9
87.5°	0.0	0.0	7.3	7.3	14.6	21.9	51.2	43.9	14.6	14.6
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°
21475.0	0°	21475.0	21475.0	21475.0	21475.0	21475.0	21475.0	21475.0	21475.0	21475.0
21343.4	2.5°	21635.9	21540.8	21738.3	21716.4	21621.3	21577.4	21526.2	21482.3	21160.5
21358.0	5°	21643.2	21497.0	21738.3	21694.4	21679.8	21606.7	21562.8	21628.6	21336.0
21416.5	7.5°	21643.2	21497.0	21760.3	21774.9	21753.0	21694.4	21687.1	21731.0	21489.6
21518.9	10°	21789.5	21731.0	21950.5	21972.4	21943.1	21928.5	21891.9	21862.7	21606.7
21870.0	12.5°	22096.7	21979.7	22228.4	22294.2	22272.3	22308.9	22221.1	22265.0	22001.7
22228.4	15°	22469.8	22477.1	22667.3	22813.5	22798.9	22915.9	22784.3	22901.3	22711.1
22638.0	17.5°	23040.3	23120.8	23391.4	23610.8	23691.3	23779.0	23691.3	23727.8	23457.2
22184.5	20°	22440.5	22740.4	24042.4	24444.7	24612.9	24693.3	24547.1	24590.9	24320.3
21628.6	22.5°	21899.3	22286.9	23442.6	24700.7	25220.0	25380.9	25329.7	25322.4	25220.0
20531.5	25°	21102.0	21884.6	22403.9	23735.2	25366.3	25658.8	25688.1	25680.8	25527.2
19858.5	27.5°	20121.9	20297.4	21643.2	22455.1	24342.3	25454.0	25410.2	25198.0	24993.2
18461.5	30°	18871.1	19668.4	20275.5	21570.1	23018.4	24825.0	24825.0	24664.1	24452.0
17964.1	32.5°	18234.7	19266.1	19829.3	20297.4	21533.5	24122.8	24415.4	24247.2	24078.9
17576.5	35°	17898.3	18051.9	19368.5	19792.7	20838.7	22769.7	23954.6	23786.4	23662.0
16545.1	37.5°	17159.5	17517.9	18132.3	19266.1	19587.9	21665.2	23340.2	23252.4	23106.1
15206.6	40°	15513.8	16472.0	17415.5	18490.8	18827.2	20246.2	22594.1	22630.7	22433.2
13780.3	42.5°	14541.0	15192.0	16669.5	17393.6	18300.6	19331.9	21870.0	21928.5	21789.5
13056.2	45°	13399.9	14124.1	15162.7	16479.3	17715.4	18073.8	20590.0	21204.4	21087.4
11615.2	47.5°	12354.0	12939.1	14211.8	15543.1	16910.8	16859.6	19119.8	20275.5	20114.5
10510.8	50°	10869.2	11893.2	12493.0	13714.5	15755.2	15894.1	17554.5	19185.6	19054.0
8930.9	52.5°	9164.9	10452.2	11600.6	12719.7	14584.9	14914.0	16098.9	18073.8	17986.1
6824.3	55°	8009.2	8945.5	10240.1	11139.8	13165.9	14043.6	15009.1	17013.2	16969.4
5610.1	57.5°	5697.9	7504.6	8572.5	9830.5	10898.4	12485.6	13202.5	14855.5	14445.9
3108.6	60°	3862.0	4710.5	6012.4	7365.6	8082.4	9669.6	10335.2	11659.1	11549.4
1857.9	62.5°	2040.7	2823.4	3752.3	4432.5	4951.8	6495.2	6773.1	8199.4	8162.8
746.1	65°	899.7	1192.2	2033.4	2384.5	2918.4	3635.2	3876.6	4388.6	4264.3
365.7	67.5°	468.1	709.5	1148.4	1411.7	1777.4	2048.0	2245.5	2406.4	2508.8
241.4	70°	285.3	519.3	709.5	980.1	1221.5	1440.9	1594.5	1814.0	1945.6
124.3	72.5°	212.1	329.1	490.1	753.4	885.0	1141.0	1294.6	1455.6	1572.6
102.4	75°	117.0	219.4	395.0	592.5	709.5	928.9	1067.9	1177.6	1214.2
58.5	77.5°	73.1	168.2	329.1	460.8	555.9	753.4	716.8	819.2	907.0
43.9	80°	51.2	124.3	256.0	380.3	387.7	482.7	570.5	658.3	716.8
29.3	82.5°	36.6	102.4	190.2	292.6	256.0	373.0	446.2	512.0	373.0
21.9	85°	29.3	73.1	95.1	175.5	146.3	263.3	226.7	219.4	146.3
14.6	87.5°	21.9	36.6	65.8	80.5	58.5	58.5	73.1	87.8	73.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
21475.0
20941.1
21087.4
21211.7
21394.6
21767.6
22396.6
23223.2
24130.1
24890.8
25293.1
24832.3
24371.5
23940.0
23486.5
22959.8
22389.3
21774.9
21102.0
20231.6
19075.9
18044.6
17020.6
14402.0
11556.7
8170.2
4213.1
2508.8
1952.9
1594.5
1192.2
921.6
724.1
270.6
146.3
73.1
0.0

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