

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: P638854

Luminaire Tested: **EPH-VN-06-E-750-U-LAM-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638854
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-06-E-750-U-LAM-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (96) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39891.9 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

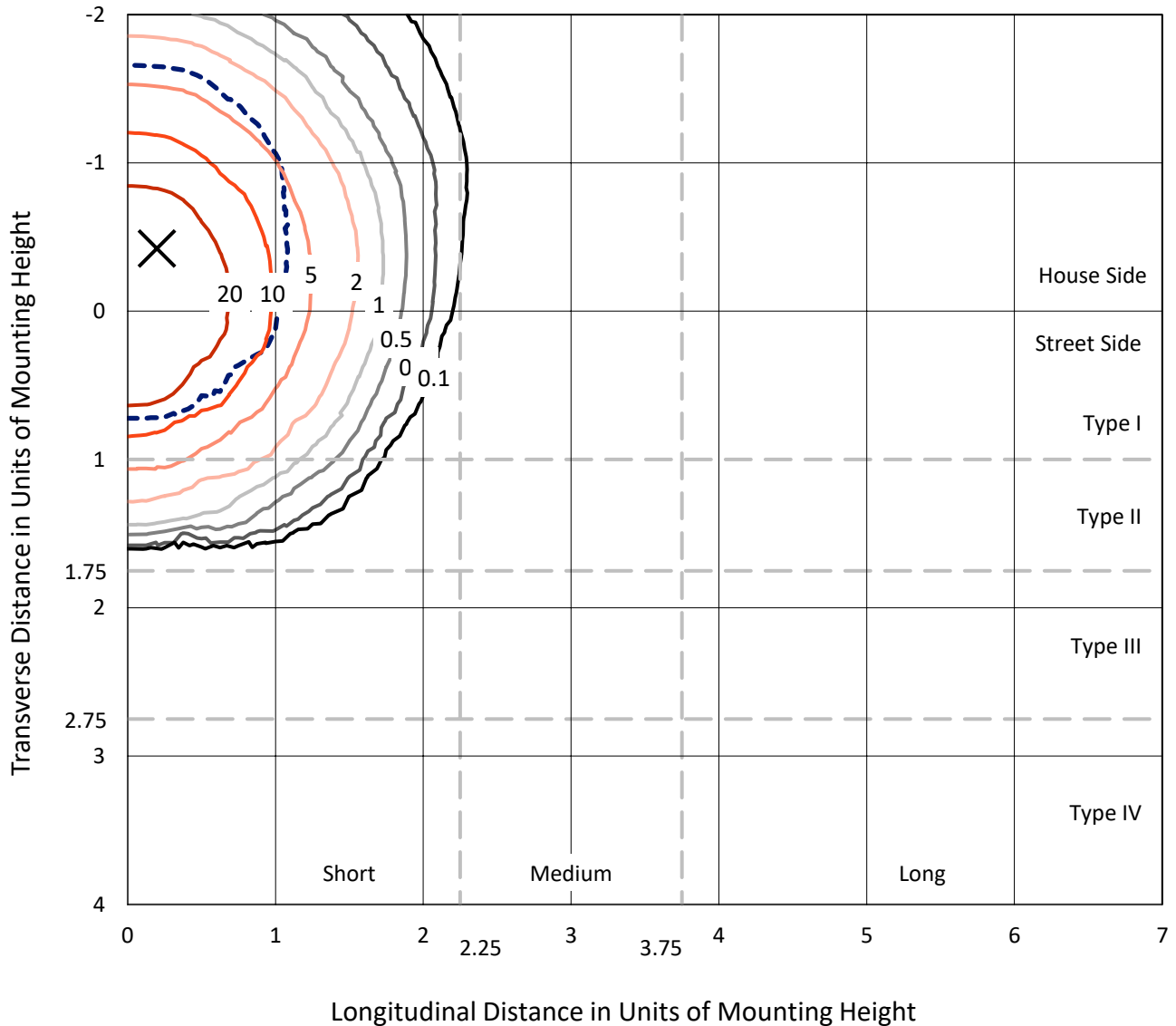
Input Watts (W): 464.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

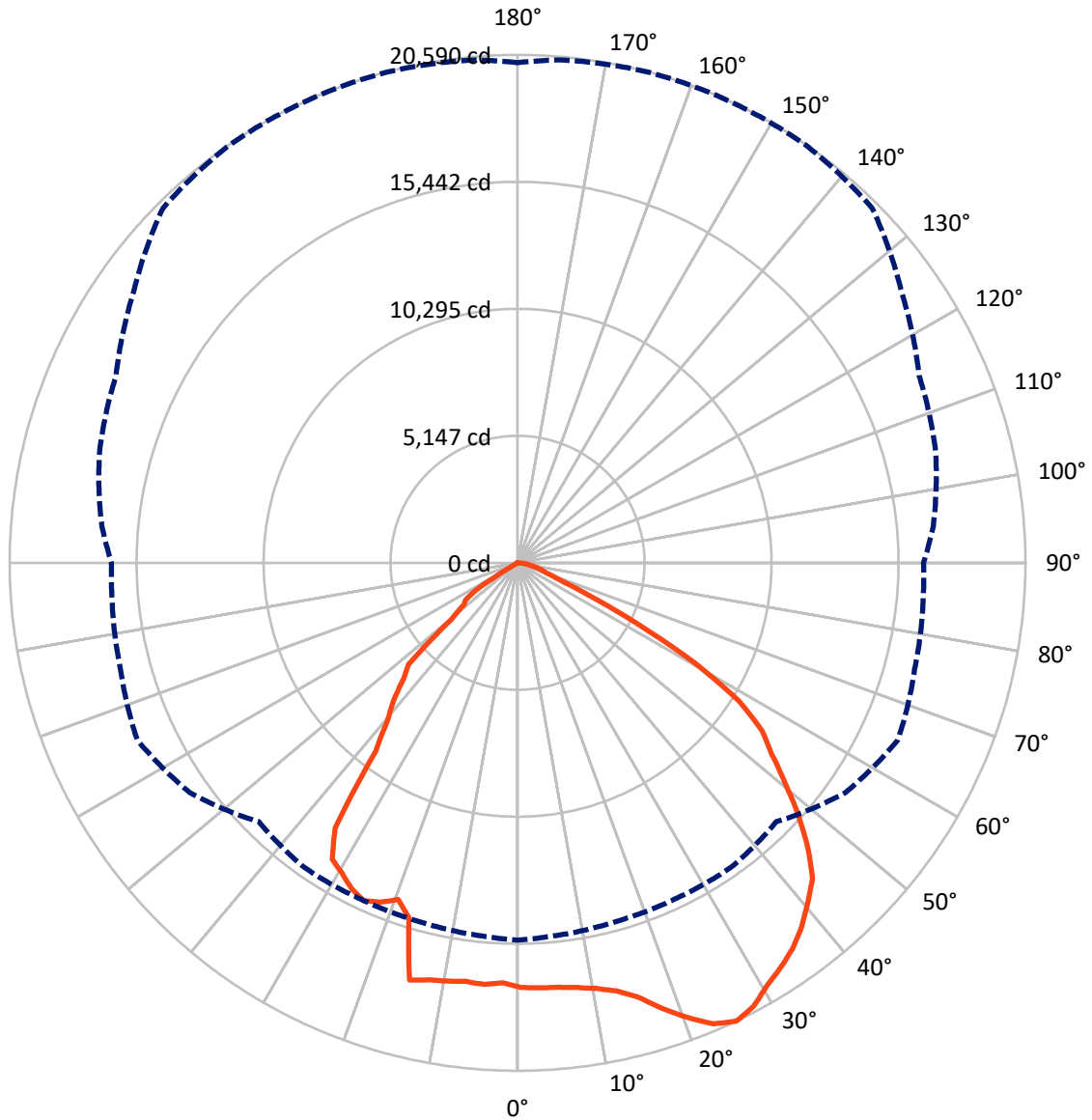
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 43 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	24697.2	0.0	24697.2
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	15194.7	0.0	15194.7
	% Fixture	38.1	0.0	38.1
Total	Lumens	39891.9	0.0	39891.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1651.3	4.1
10°-20°	5042.2	12.6
20°-30°	7971.5	20.0
30°-40°	9004.5	22.6
40°-50°	8432.9	21.1
50°-60°	5813.9	14.6
60°-70°	1562.0	3.9
70°-80°	325.5	0.8
80°-90°	88.1	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°	39891.9	100.0
0°-180°	39891.9	100.0



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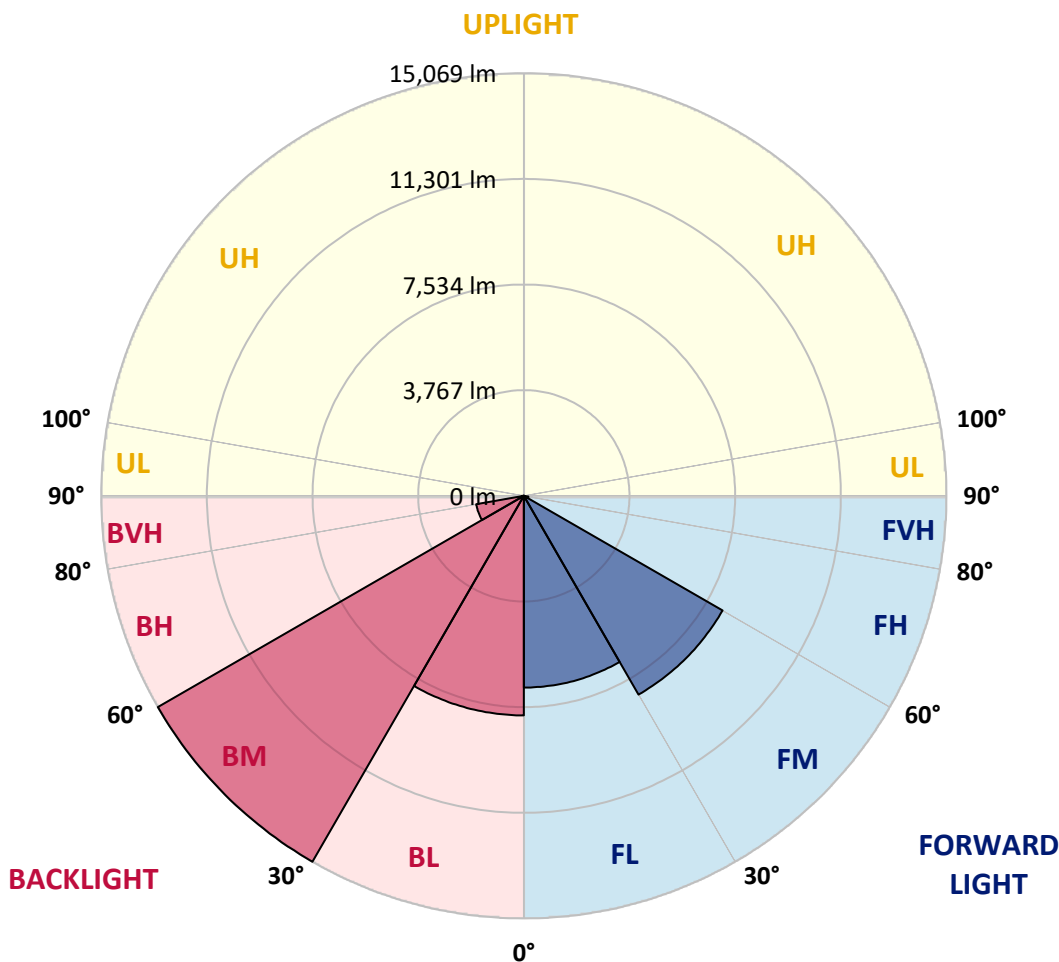
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6836.2	17.1			
FM (30°-60°)	8182.7	20.5			
FH (60°-80°)	164.0	0.4			G0/660
FVH (80°-90°)	11.8	0.0			G1/100
BL (0°-30°)	7828.8	19.6	B5		
BM (30°-60°)	15068.5	37.8	B5		
BH (60°-80°)	1723.5	4.3	B3/2500		G3/2500
BVH (80°-90°)	76.2	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°	17212.6	17212.6	17212.6	17212.6	17212.6	17212.6	17212.6	17212.6	17212.6	17212.6
2.5°	17288.8	17177.5	17071.9	17036.8	17183.3	17341.6	17241.9	17247.8	17212.6	17277.1
5°	17417.8	17265.4	17195.0	17142.3	17165.7	17329.9	17189.2	17241.9	17183.3	17259.5
7.5°	17370.9	17265.4	17195.0	17095.4	17171.6	17365.1	17230.2	17236.1	17206.8	17277.1
10°	17341.6	17265.4	17177.5	17189.2	17277.1	17441.3	17335.7	17394.4	17353.3	17394.4
12.5°	17412.0	17329.9	17283.0	17283.0	17359.2	17546.8	17494.0	17546.8	17529.2	17564.4
15°	16749.5	16825.7	17271.3	17470.6	17623.0	17810.6	17787.2	17839.9	17851.7	17904.4
17.5°	14128.9	14052.7	14017.5	15043.5	17769.6	18350.0	18332.4	18326.5	18267.9	18226.9
20°	14474.8	14445.5	14404.4	14480.7	14785.5	18631.4	18748.6	18027.5	17816.5	17798.9
22.5°	15025.9	14979.0	14826.5	14832.4	14926.2	16198.4	18168.2	17511.6	17441.3	17400.2
25°	15295.6	15201.8	15078.6	15043.5	15072.8	14838.3	16227.7	17007.4	16661.5	16503.3
27.5°	14820.7	14826.5	14726.9	14820.7	14709.3	13654.0	13061.9	16022.5	16010.8	15940.4
30°	14463.1	14445.5	14328.2	14445.5	13677.5	12499.1	12247.0	14943.8	14820.7	14726.9
32.5°	13366.8	13378.5	13718.5	14175.8	12915.3	11983.2	11221.0	13349.2	14515.8	14463.1
35°	9561.9	9585.4	10793.1	13050.2	11760.4	10957.2	10898.6	11537.6	14035.1	14058.5
37.5°	9204.3	9204.3	9175.0	9544.3	10851.7	10541.0	10658.2	10593.7	12856.7	12915.3
40°	8946.3	8893.6	8852.5	8272.1	7545.2	10247.8	10329.9	10036.8	12153.2	12164.9
42.5°	8635.6	8577.0	8588.7	7515.9	6753.7	9520.9	9292.2	8899.4	10980.7	10992.4
45°	8067.0	8166.6	8237.0	6577.9	6519.2	6800.6	8571.1	8324.9	10189.2	10406.1
47.5°	4103.8	4191.8	6431.3	6050.2	6185.1	6044.4	7240.3	7246.2	8477.3	9198.4
50°	3722.8	3699.3	3705.2	3529.3	5710.2	4889.4	5235.3	6642.3	6788.9	7820.7
52.5°	3470.7	3464.8	3107.2	2761.3	3587.9	4303.2	3799.0	4807.3	5047.7	6624.8
55°	2567.8	2755.4	2450.6	2597.1	2245.4	3447.2	3429.6	4338.3	4420.4	5311.5
57.5°	23.5	29.3	70.4	1975.7	1553.6	1723.6	2368.5	2960.6	3107.2	4139.0
60°	5.9	11.7	29.3	58.6	1008.4	1061.1	1582.9	1711.9	1928.8	2468.2
62.5°	0.0	0.0	11.7	29.3	52.8	433.8	504.2	551.1	850.1	1260.5
65°	0.0	0.0	5.9	17.6	29.3	70.4	123.1	258.0	369.3	457.3
67.5°	0.0	0.0	5.9	11.7	23.5	35.2	70.4	99.7	158.3	269.7
70°	0.0	0.0	5.9	11.7	17.6	29.3	46.9	70.4	93.8	134.8
72.5°	0.0	0.0	5.9	11.7	11.7	35.2	35.2	52.8	70.4	87.9
75°	0.0	0.0	5.9	5.9	11.7	23.5	35.2	41.0	46.9	70.4
77.5°	0.0	0.0	5.9	11.7	17.6	23.5	29.3	46.9	41.0	41.0
80°	0.0	0.0	5.9	17.6	17.6	29.3	35.2	46.9	29.3	29.3
82.5°	0.0	0.0	5.9	23.5	17.6	58.6	58.6	64.5	23.5	23.5
85°	0.0	0.0	17.6	11.7	35.2	58.6	52.8	35.2	29.3	17.6
87.5°	0.0	0.0	5.9	5.9	11.7	17.6	41.0	35.2	11.7	11.7
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°
17212.6	0°	17212.6	17212.6	17212.6	17212.6	17212.6	17212.6	17212.6	17212.6	17212.6
17107.1	2.5°	17341.6	17265.4	17423.7	17406.1	17329.9	17294.7	17253.7	17218.5	16960.5
17118.8	5°	17347.5	17230.2	17423.7	17388.5	17376.8	17318.2	17283.0	17335.7	17101.2
17165.7	7.5°	17347.5	17230.2	17441.3	17453.0	17435.4	17388.5	17382.6	17417.8	17224.4
17247.8	10°	17464.7	17417.8	17593.7	17611.3	17587.8	17576.1	17546.8	17523.3	17318.2
17529.2	12.5°	17711.0	17617.2	17816.5	17869.2	17851.7	17881.0	17810.6	17845.8	17634.7
17816.5	15°	18009.9	18015.8	18168.2	18285.5	18273.8	18367.6	18262.0	18355.8	18203.4
18144.8	17.5°	18467.2	18531.7	18748.6	18924.5	18989.0	19059.4	18989.0	19018.3	18801.4
17781.3	20°	17986.5	18226.9	19270.4	19592.9	19727.7	19792.2	19674.9	19710.1	19493.2
17335.7	22.5°	17552.7	17863.4	18789.7	19798.0	20214.3	20343.3	20302.2	20296.4	20214.3
16456.4	25°	16913.6	17540.9	17957.2	19024.2	20331.5	20566.0	20589.5	20583.6	20460.5
15917.0	27.5°	16128.0	16268.8	17347.5	17998.2	19510.8	20401.9	20366.7	20196.7	20032.5
14797.2	30°	15125.5	15764.6	16251.2	17288.8	18449.6	19897.7	19897.7	19768.7	19598.7
14398.6	32.5°	14615.5	15442.1	15893.5	16268.8	17259.5	19334.9	19569.4	19434.6	19299.7
14087.9	35°	14345.8	14468.9	15524.2	15864.2	16702.6	18250.3	19200.1	19065.2	18965.6
13261.2	37.5°	13753.7	14041.0	14533.4	15442.1	15700.1	17365.1	18707.6	18637.2	18520.0
12188.4	40°	12434.6	13202.6	13958.9	14820.7	15090.4	16227.7	18109.6	18138.9	17980.6
11045.2	42.5°	11654.9	12176.6	13360.9	13941.3	14668.3	15494.9	17529.2	17576.1	17464.7
10464.8	45°	10740.3	11320.7	12153.2	13208.5	14199.2	14486.5	16503.3	16995.7	16901.9
9309.8	47.5°	9902.0	10371.0	11391.1	12458.1	13554.4	13513.3	15324.9	16251.2	16122.2
8424.6	50°	8711.8	9532.6	10013.3	10992.4	12628.1	12739.5	14070.3	15377.6	15272.1
7158.3	52.5°	7345.9	8377.7	9298.1	10195.1	11690.1	11953.9	12903.6	14486.5	14416.2
5469.8	55°	6419.6	7170.0	8207.7	8928.8	10552.7	11256.2	12030.1	13636.4	13601.3
4496.6	57.5°	4567.0	6015.0	6871.0	7879.4	8735.3	10007.5	10582.0	11907.0	11578.7
2491.6	60°	3095.5	3775.5	4819.1	5903.7	6478.2	7750.4	8283.9	9345.0	9257.1
1489.1	62.5°	1635.7	2263.0	3007.5	3552.7	3969.0	5206.0	5428.8	6572.0	6542.7
598.0	65°	721.1	955.6	1629.8	1911.2	2339.2	2913.7	3107.2	3517.6	3417.9
293.1	67.5°	375.2	568.7	920.4	1131.5	1424.6	1641.5	1799.8	1928.8	2010.9
193.5	70°	228.6	416.2	568.7	785.6	979.1	1154.9	1278.0	1453.9	1559.5
99.7	72.5°	170.0	263.8	392.8	603.8	709.4	914.6	1037.7	1166.7	1260.5
82.1	75°	93.8	175.9	316.6	474.9	568.7	744.6	855.9	943.9	973.2
46.9	77.5°	58.6	134.8	263.8	369.3	445.6	603.8	574.5	656.6	727.0
35.2	80°	41.0	99.7	205.2	304.9	310.7	386.9	457.3	527.6	574.5
23.5	82.5°	29.3	82.1	152.4	234.5	205.2	299.0	357.6	410.4	299.0
17.6	85°	23.5	58.6	76.2	140.7	117.3	211.1	181.7	175.9	117.3
11.7	87.5°	17.6	29.3	52.8	64.5	46.9	46.9	58.6	70.4	58.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
17212.6
16784.7
16901.9
17001.6
17148.1
17447.1
17951.3
18613.8
19340.8
19950.5
20272.9
19903.6
19534.2
19188.3
18824.9
18402.7
17945.5
17453.0
16913.6
16216.0
15289.7
14463.1
13642.3
11543.5
9262.9
6548.5
3376.9
2010.9
1565.3
1278.0
955.6
738.7
580.4
216.9
117.3
58.6
0.0

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