

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: P638846

Luminaire Tested: **EPH-VN-03-E-740-U-LAM-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638846
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-03-E-740-U-LAM-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (48) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19880.3 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

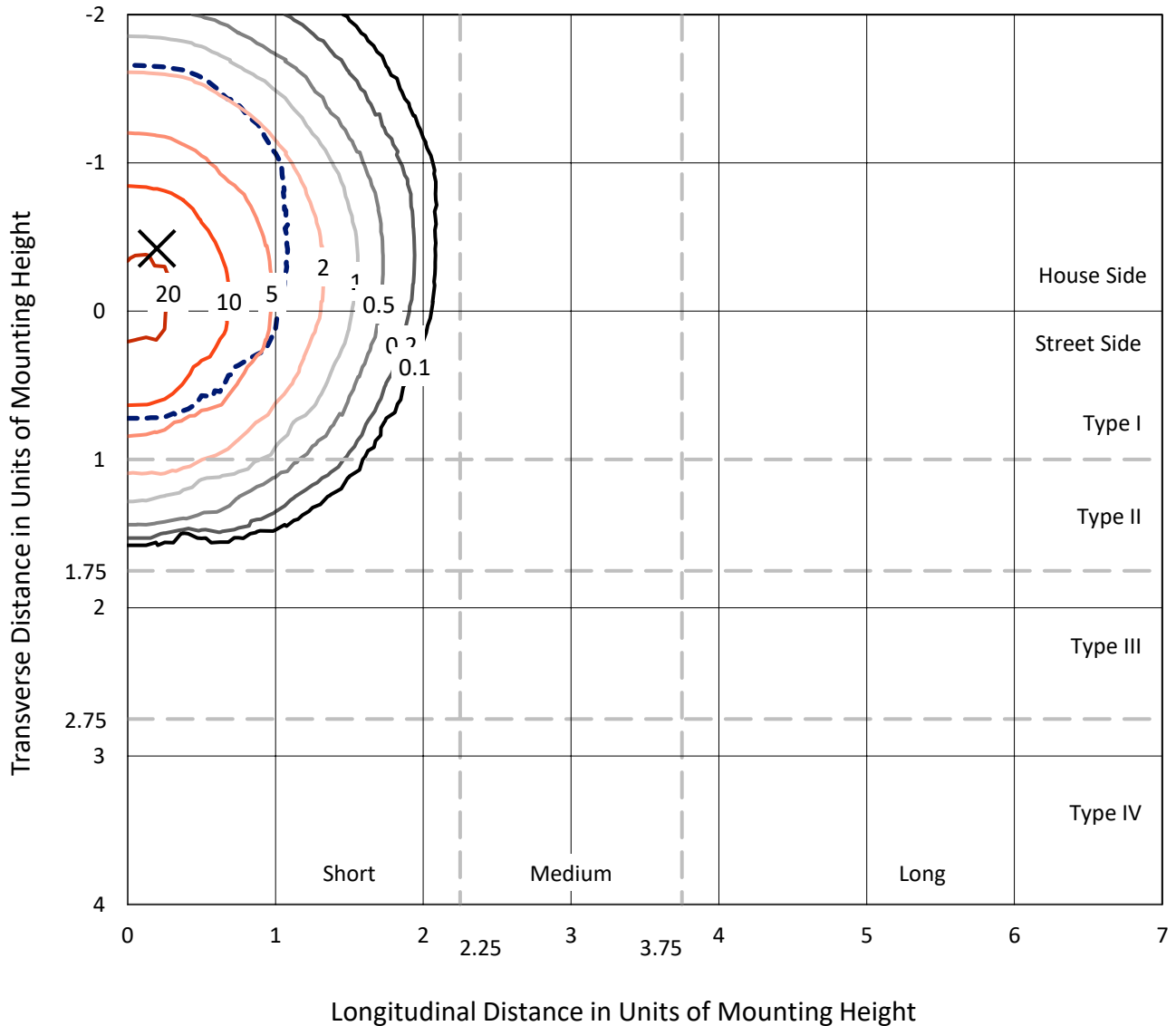
Input Watts (W): 232.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

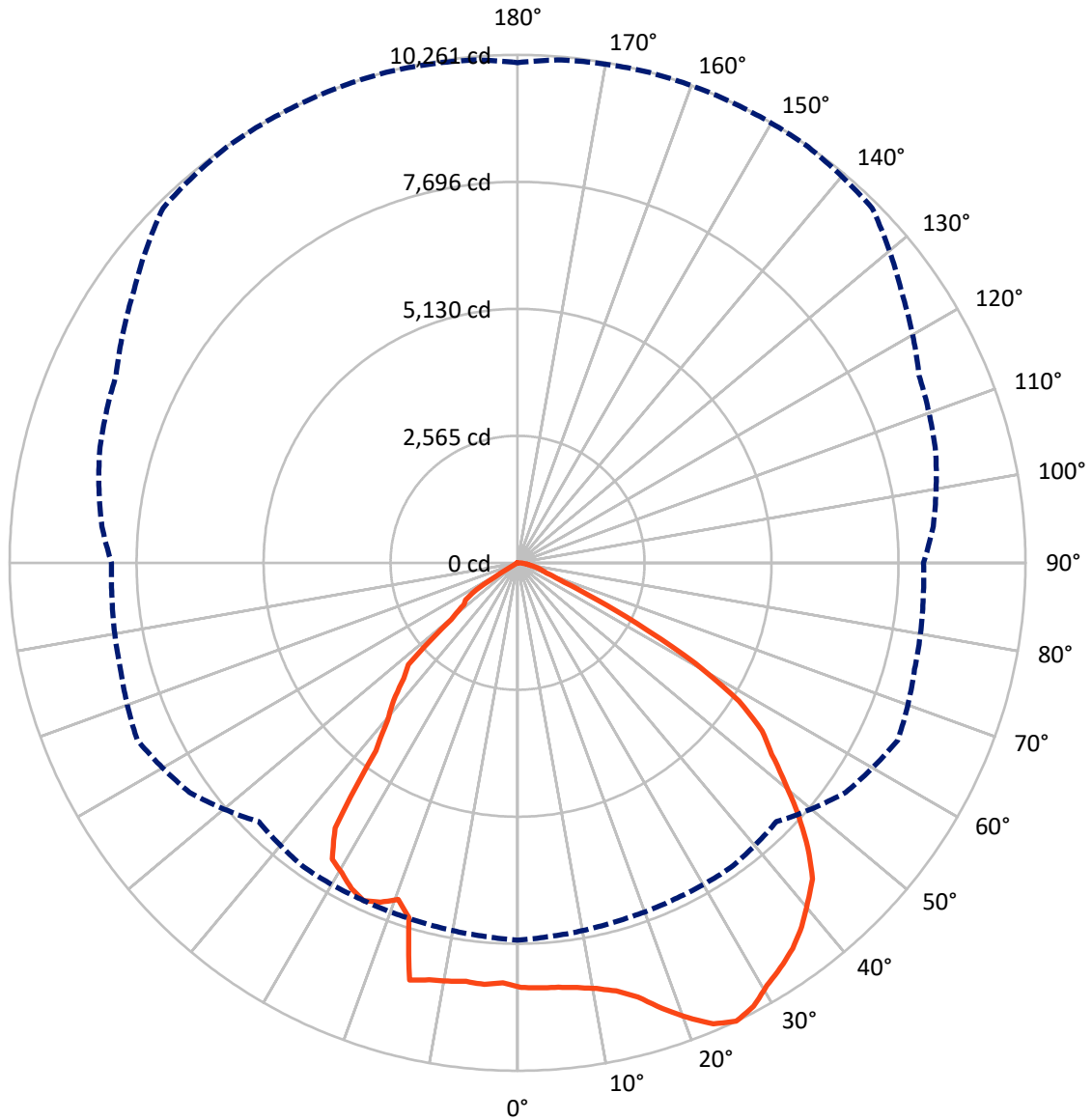
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 21.4 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	12308.0	0.0	12308.0
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	7572.4	0.0	7572.4
	% Fixture	38.1	0.0	38.1
Total	Lumens	19880.3	0.0	19880.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	822.9	4.1
10°-20°	2512.8	12.6
20°-30°	3972.6	20.0
30°-40°	4487.4	22.6
40°-50°	4202.6	21.1
50°-60°	2897.4	14.6
60°-70°	778.4	3.9
70°-80°	162.2	0.8
80°-90°	43.9	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°	19880.3	100.0
0°-180°	19880.3	100.0

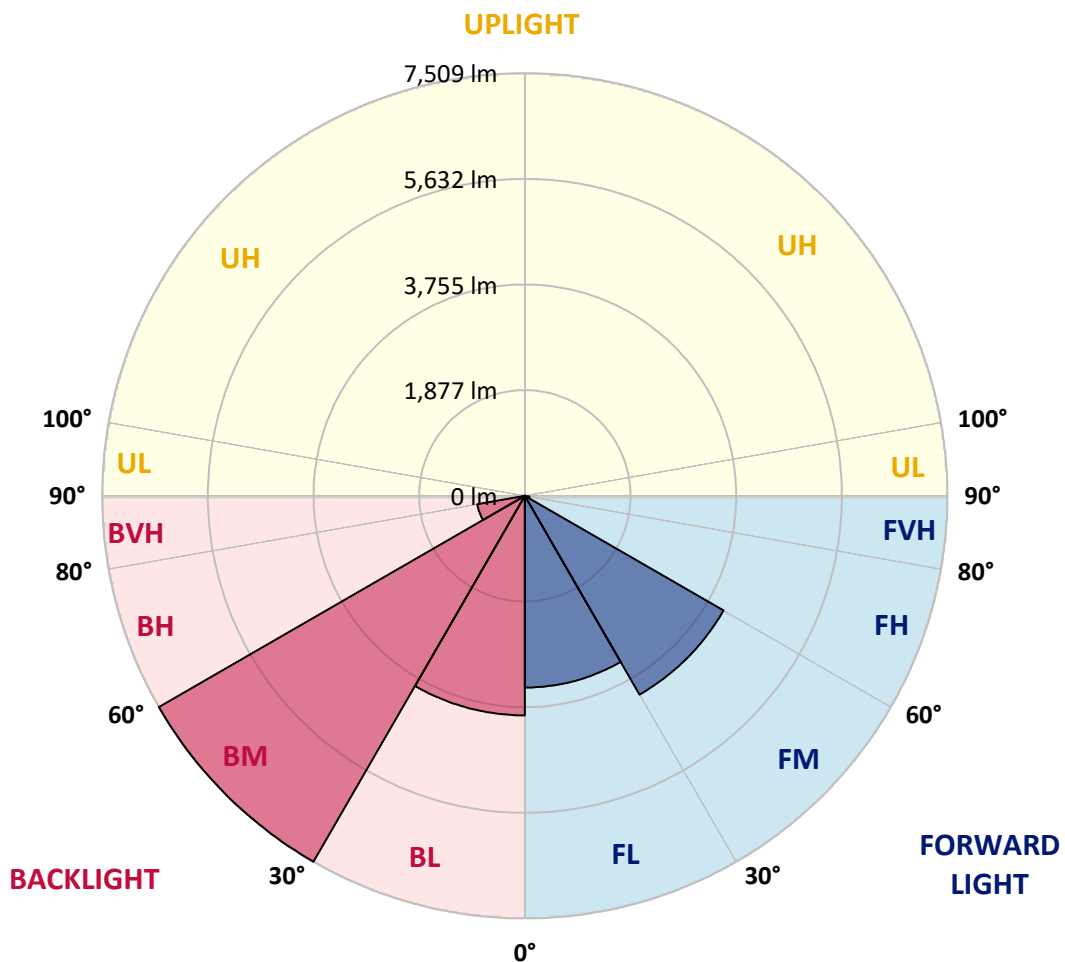


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3406.9	17.1			
FM (30°-60°)	4077.9	20.5			
FH (60°-80°)	81.7	0.4			G0/660
FVH (80°-90°)	5.9	0.0			G0/10
BL (0°-30°)	3901.6	19.6	B4/5000		
BM (30°-60°)	7509.5	37.8	B4/8500		
BH (60°-80°)	858.9	4.3	B2/1000		G2/1000
BVH (80°-90°)	38.0	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°	8578.0	8578.0	8578.0	8578.0	8578.0	8578.0	8578.0	8578.0	8578.0	8578.0
2.5°	8616.0	8560.5	8507.9	8490.4	8563.4	8642.3	8592.6	8595.5	8578.0	8610.2
5°	8680.3	8604.3	8569.2	8543.0	8554.6	8636.4	8566.3	8592.6	8563.4	8601.4
7.5°	8656.9	8604.3	8569.2	8519.6	8557.6	8654.0	8586.8	8589.7	8575.1	8610.2
10°	8642.3	8604.3	8560.5	8566.3	8610.2	8692.0	8639.4	8668.6	8648.1	8668.6
12.5°	8677.4	8636.4	8613.1	8613.1	8651.1	8744.5	8718.3	8744.5	8735.8	8753.3
15°	8347.2	8385.2	8607.2	8706.6	8782.5	8876.0	8864.3	8890.6	8896.5	8922.8
17.5°	7041.2	7003.2	6985.7	7497.0	8855.6	9144.8	9136.1	9133.1	9103.9	9083.5
20°	7213.6	7199.0	7178.5	7216.5	7368.4	9285.1	9343.5	8984.1	8878.9	8870.2
22.5°	7488.2	7464.9	7388.9	7391.8	7438.6	8072.6	9054.2	8727.0	8692.0	8671.5
25°	7622.6	7575.9	7514.5	7497.0	7511.6	7394.7	8087.2	8475.8	8303.4	8224.5
27.5°	7386.0	7388.9	7339.2	7386.0	7330.5	6804.6	6509.5	7984.9	7979.1	7944.0
30°	7207.8	7199.0	7140.6	7199.0	6816.2	6229.0	6103.4	7447.3	7386.0	7339.2
32.5°	6661.4	6667.2	6836.7	7064.6	6436.4	5971.9	5592.1	6652.6	7234.0	7207.8
35°	4765.2	4776.9	5378.8	6503.6	5860.9	5460.6	5431.4	5749.8	6994.5	7006.2
37.5°	4587.0	4587.0	4572.4	4756.5	5408.0	5253.2	5311.6	5279.5	6407.2	6436.4
40°	4458.5	4432.2	4411.7	4122.5	3760.2	5107.1	5148.0	5001.9	6056.6	6062.5
42.5°	4303.6	4274.4	4280.2	3745.6	3365.8	4744.8	4630.8	4435.1	5472.3	5478.1
45°	4020.2	4069.9	4104.9	3278.1	3248.9	3389.1	4271.5	4148.8	5077.9	5186.0
47.5°	2045.2	2089.0	3205.1	3015.2	3082.4	3012.2	3608.3	3611.2	4224.7	4584.1
50°	1855.3	1843.6	1846.5	1758.8	2845.7	2436.7	2609.0	3310.2	3383.3	3897.5
52.5°	1729.6	1726.7	1548.5	1376.1	1788.1	2144.5	1893.2	2395.8	2515.6	3301.5
55°	1279.7	1373.2	1221.3	1294.3	1119.0	1717.9	1709.2	2162.0	2202.9	2647.0
57.5°	11.7	14.6	35.1	984.6	774.2	859.0	1180.4	1475.4	1548.5	2062.7
60°	2.9	5.8	14.6	29.2	502.5	528.8	788.9	853.1	961.2	1230.0
62.5°	0.0	0.0	5.8	14.6	26.3	216.2	251.3	274.6	423.6	628.2
65°	0.0	0.0	2.9	8.8	14.6	35.1	61.4	128.6	184.1	227.9
67.5°	0.0	0.0	2.9	5.8	11.7	17.5	35.1	49.7	78.9	134.4
70°	0.0	0.0	2.9	5.8	8.8	14.6	23.4	35.1	46.7	67.2
72.5°	0.0	0.0	2.9	5.8	5.8	17.5	17.5	26.3	35.1	43.8
75°	0.0	0.0	2.9	2.9	5.8	11.7	17.5	20.5	23.4	35.1
77.5°	0.0	0.0	2.9	5.8	8.8	11.7	14.6	23.4	20.5	20.5
80°	0.0	0.0	2.9	8.8	8.8	14.6	17.5	23.4	14.6	14.6
82.5°	0.0	0.0	2.9	11.7	8.8	29.2	29.2	32.1	11.7	11.7
85°	0.0	0.0	8.8	5.8	17.5	29.2	26.3	17.5	14.6	8.8
87.5°	0.0	0.0	2.9	2.9	5.8	8.8	20.5	17.5	5.8	5.8
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°
8578.0	0°	8578.0	8578.0	8578.0	8578.0	8578.0	8578.0	8578.0	8578.0	8578.0
8525.4	2.5°	8642.3	8604.3	8683.2	8674.4	8636.4	8618.9	8598.5	8580.9	8452.4
8531.3	5°	8645.2	8586.8	8683.2	8665.7	8659.8	8630.6	8613.1	8639.4	8522.5
8554.6	7.5°	8645.2	8586.8	8692.0	8697.8	8689.0	8665.7	8662.7	8680.3	8583.9
8595.5	10°	8703.6	8680.3	8767.9	8776.7	8765.0	8759.2	8744.5	8732.9	8630.6
8735.8	12.5°	8826.4	8779.6	8878.9	8905.2	8896.5	8911.1	8876.0	8893.6	8788.4
8878.9	15°	8975.4	8978.3	9054.2	9112.7	9106.8	9153.6	9101.0	9147.7	9071.8
9042.6	17.5°	9203.3	9235.4	9343.5	9431.1	9463.3	9498.3	9463.3	9477.9	9369.8
8861.4	20°	8963.7	9083.5	9603.5	9764.2	9831.4	9863.5	9805.1	9822.6	9714.5
8639.4	22.5°	8747.5	8902.3	9363.9	9866.5	10073.9	10138.2	10117.7	10114.8	10073.9
8201.1	25°	8429.0	8741.6	8949.1	9480.8	10132.3	10249.2	10260.9	10258.0	10196.6
7932.3	27.5°	8037.5	8107.6	8645.2	8969.5	9723.3	10167.4	10149.9	10065.1	9983.3
7374.3	30°	7537.9	7856.4	8098.9	8616.0	9194.5	9916.1	9916.1	9851.9	9767.1
7175.6	32.5°	7283.7	7695.7	7920.6	8107.6	8601.4	9635.7	9752.5	9685.3	9618.1
7020.8	35°	7149.3	7210.7	7736.6	7906.0	8323.8	9095.1	9568.5	9501.3	9451.6
6608.8	37.5°	6854.2	6997.4	7242.8	7695.7	7824.2	8654.0	9323.0	9288.0	9229.5
6074.1	40°	6196.9	6579.6	6956.5	7386.0	7520.4	8087.2	9025.0	9039.6	8960.8
5504.4	42.5°	5808.3	6068.3	6658.5	6947.7	7310.0	7722.0	8735.8	8759.2	8703.6
5215.2	45°	5352.5	5641.7	6056.6	6582.5	7076.3	7219.4	8224.5	8469.9	8423.2
4639.6	47.5°	4934.7	5168.4	5676.8	6208.5	6754.9	6734.4	7637.2	8098.9	8034.6
4198.4	50°	4341.6	4750.6	4990.2	5478.1	6293.3	6348.8	7012.0	7663.5	7610.9
3567.4	52.5°	3660.8	4175.1	4633.8	5080.8	5825.8	5957.3	6430.6	7219.4	7184.4
2725.9	55°	3199.2	3573.2	4090.3	4449.7	5259.0	5609.6	5995.3	6795.8	6778.3
2240.9	57.5°	2276.0	2997.6	3424.2	3926.7	4353.3	4987.3	5273.6	5933.9	5770.3
1241.7	60°	1542.6	1881.6	2401.6	2942.1	3228.4	3862.4	4128.3	4657.1	4613.3
742.1	62.5°	815.1	1127.8	1498.8	1770.5	1978.0	2594.4	2705.5	3275.2	3260.6
298.0	65°	359.4	476.2	812.2	952.5	1165.7	1452.1	1548.5	1753.0	1703.3
146.1	67.5°	187.0	283.4	458.7	563.9	710.0	818.1	897.0	961.2	1002.1
96.4	70°	113.9	207.4	283.4	391.5	487.9	575.6	636.9	724.6	777.2
49.7	72.5°	84.7	131.5	195.8	300.9	353.5	455.8	517.1	581.4	628.2
40.9	75°	46.7	87.7	157.8	236.7	283.4	371.1	426.6	470.4	485.0
23.4	77.5°	29.2	67.2	131.5	184.1	222.0	300.9	286.3	327.2	362.3
17.5	80°	20.5	49.7	102.3	151.9	154.8	192.8	227.9	263.0	286.3
11.7	82.5°	14.6	40.9	76.0	116.9	102.3	149.0	178.2	204.5	149.0
8.8	85°	11.7	29.2	38.0	70.1	58.4	105.2	90.6	87.7	58.4
5.8	87.5°	8.8	14.6	26.3	32.1	23.4	23.4	29.2	35.1	29.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
8578.0
8364.7
8423.2
8472.8
8545.9
8694.9
8946.1
9276.3
9638.6
9942.4
10103.1
9919.1
9735.0
9562.6
9381.5
9171.1
8943.2
8697.8
8429.0
8081.3
7619.7
7207.8
6798.7
5752.8
4616.2
3263.5
1682.9
1002.1
780.1
636.9
476.2
368.1
289.2
108.1
58.4
29.2
0.0

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