

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: P638767

Luminaire Tested: **EPH-VN-08-E-935-U-66-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638767
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-935-U-66-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 6 distribution lens and Visor
Light Source: (128) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38333.4 lumens
Efficiency: N/A
Efficacy: 61.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

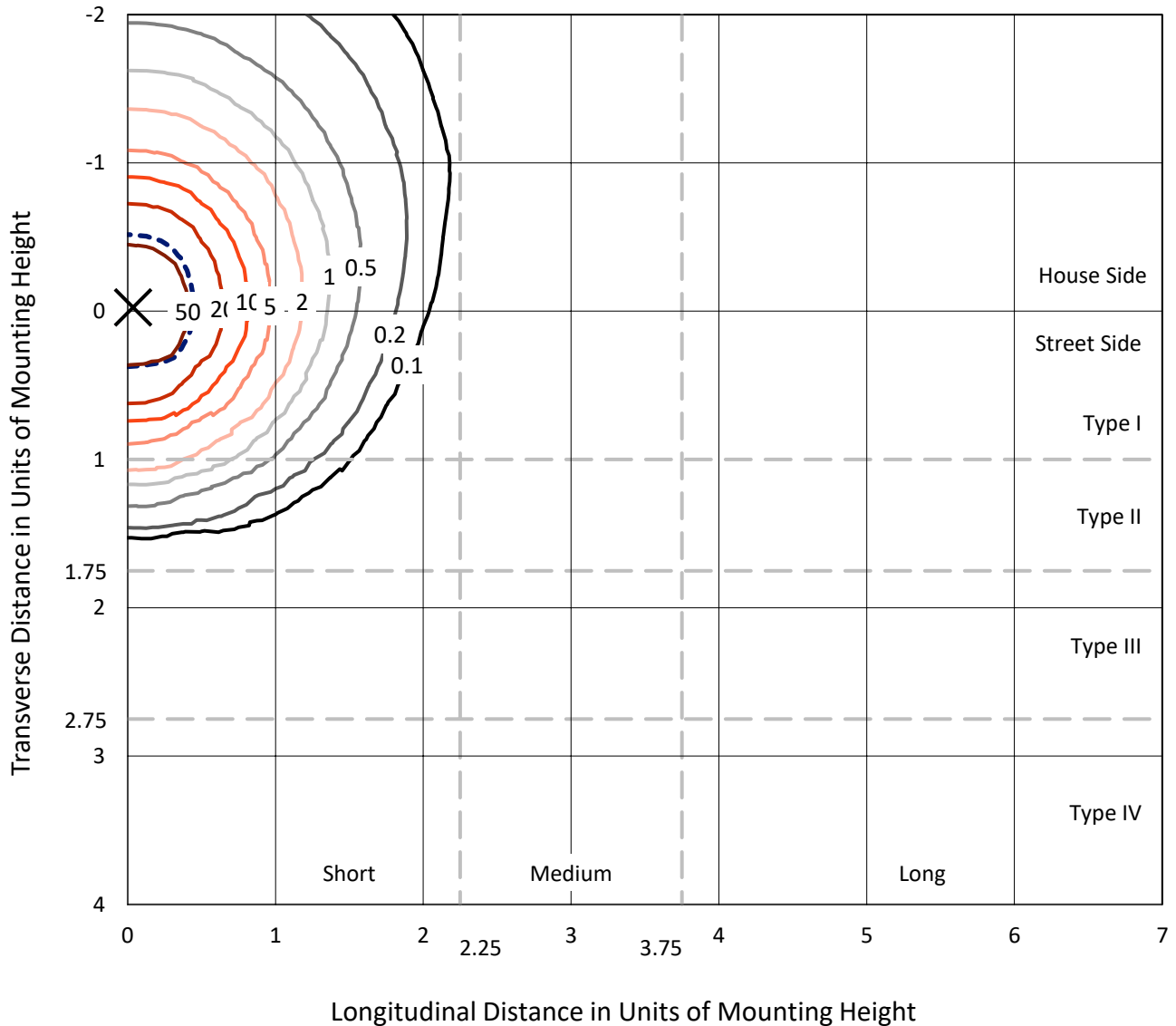
Input Watts (W): 626.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

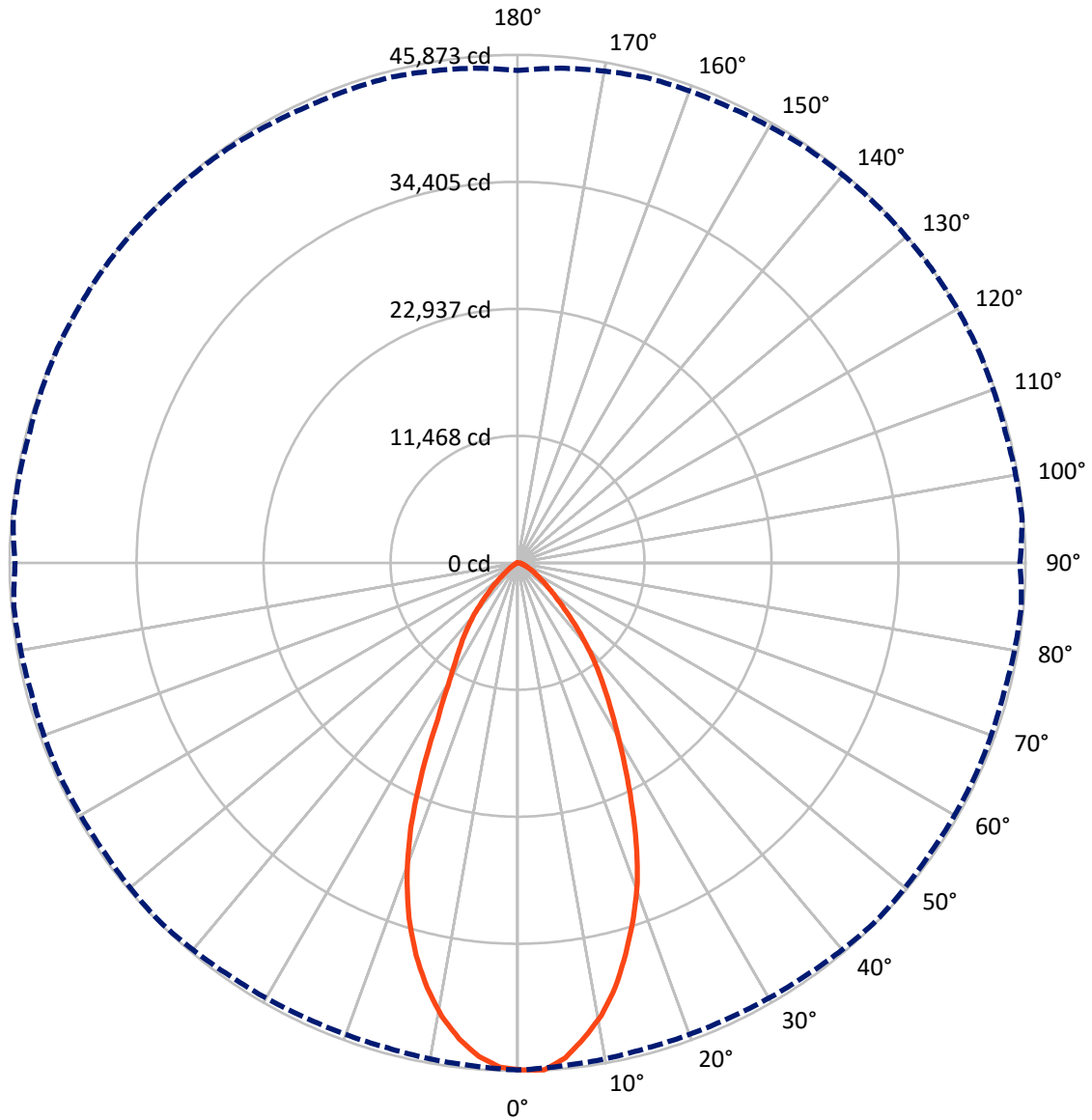
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 114.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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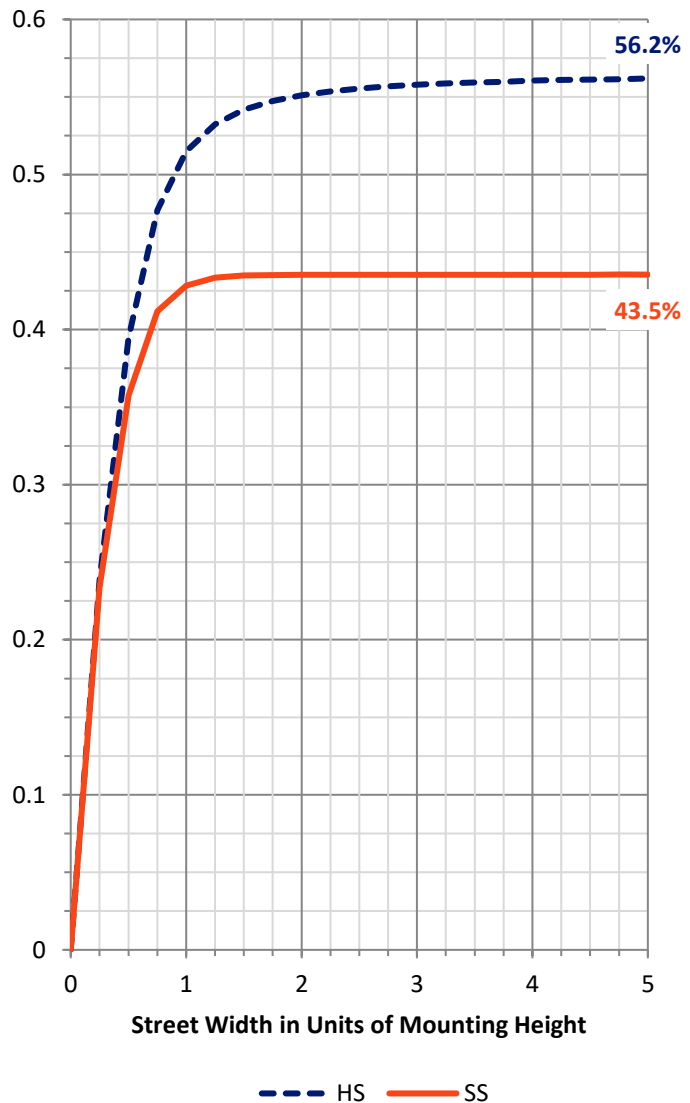
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21751.9	0.0	21751.9
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	16581.5	0.0	16581.5
	% Fixture	43.3	0.0	43.3
Total	Lumens	38333.4	0.0	38333.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4158.7	10.8
10°-20°	9913.5	25.9
20°-30°	10096.7	26.3
30°-40°	7529.1	19.6
40°-50°	3933.4	10.3
50°-60°	1654.4	4.3
60°-70°	675.7	1.8
70°-80°	284.3	0.7
80°-90°	87.6	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°	38333.4	100.0
0°-180°	38333.4	100.0

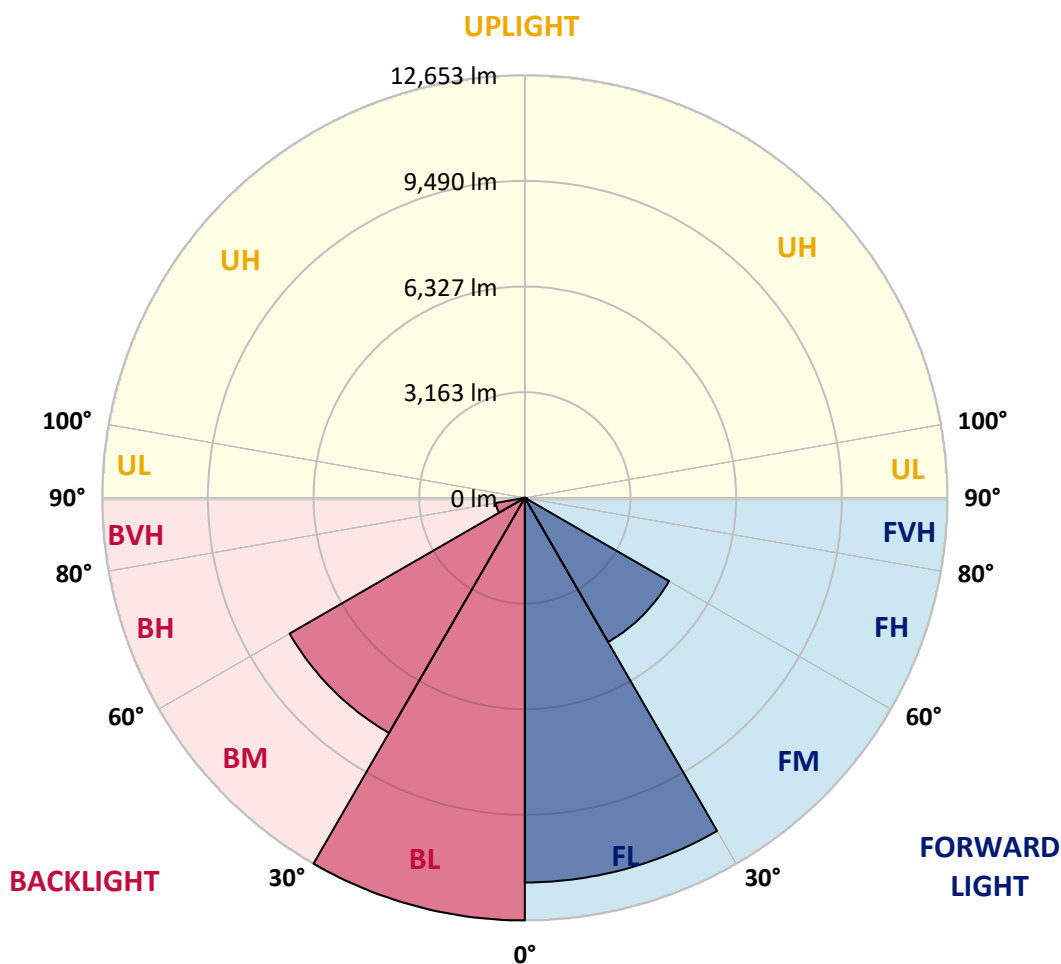


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	11515.8	30.0			
FM (30°-60°)	4985.4	13.0			
FH (60°-80°)	72.1	0.2			G0/660
FVH (80°-90°)	8.1	0.0			G0/10
BL (0°-30°)	12653.1	33.0	B5		
BM (30°-60°)	8131.5	21.2	B4/8500		
BH (60°-80°)	887.9	2.3	B2/1000		G2/1000
BVH (80°-90°)	79.5	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-G2
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	45799.2	45799.2	45799.2	45799.2	45799.2	45799.2	45799.2	45799.2	45799.2	45799.2
2.5°	45804.1	45617.0	45351.1	45326.4	45464.3	45764.7	45572.6	45582.5	45464.3	45666.2
5°	45085.2	44907.9	44725.7	44484.4	44686.3	44814.3	44715.9	44607.5	44454.9	44651.8
7.5°	43726.1	43627.6	43356.8	43248.5	43371.6	43514.4	43302.6	43273.1	43061.3	43317.4
10°	41648.1	41608.7	41342.8	41278.8	41387.2	41603.8	41510.3	41490.6	41357.6	41333.0
12.5°	39491.4	39338.7	39008.8	38989.1	39151.6	39476.6	39225.5	38984.2	39058.0	39122.1
15°	33937.0	33774.5	34591.9	35877.1	36551.7	36527.1	36600.9	36310.4	36221.8	36251.3
17.5°	26979.2	26703.5	26998.9	28988.2	32193.8	34055.2	33543.0	32917.7	32582.8	32361.3
20°	23286.1	23300.9	23246.7	23758.8	25758.0	30002.6	29879.5	28673.1	28234.9	28052.7
22.5°	21040.7	20957.0	20838.8	21001.3	21538.1	24029.7	25698.9	24591.0	24438.4	24236.5
25°	18839.6	18839.6	18696.8	18859.3	19012.0	19046.5	20720.7	21173.7	20878.2	20878.2
27.5°	16934.0	16835.5	16771.5	16845.4	16643.5	15673.4	15885.2	18204.4	18002.5	17879.4
30°	15043.2	15013.6	14905.3	15003.8	14255.3	13162.1	12719.0	15363.2	15575.0	15530.6
32.5°	12418.6	12536.8	13019.3	13172.0	11891.7	11010.3	10586.8	12753.4	13600.4	13565.9
35°	8439.9	8538.4	9089.9	10911.8	9858.1	9227.8	9104.7	10143.7	11537.2	11670.1
37.5°	6721.4	6706.6	6864.2	7189.2	7922.9	7770.2	7735.8	8006.6	9410.0	9469.1
40°	5539.6	5519.9	5515.0	5249.1	5066.9	6460.4	6366.9	6204.4	7420.6	7538.8
42.5°	4466.2	4485.9	4500.6	3919.6	3653.7	4983.2	4929.0	4761.6	5820.3	5958.2
45°	3506.0	3501.0	3530.6	2920.0	2846.1	3185.9	3683.2	3550.3	4392.3	4540.0
47.5°	1817.0	1881.0	2279.9	2260.2	2294.6	2260.2	2787.0	2752.6	3304.1	3540.4
50°	1221.2	1240.9	1275.3	1280.3	1807.1	1664.3	1890.9	2142.0	2314.3	2678.7
52.5°	945.4	960.2	871.6	817.4	1107.9	1231.0	1240.9	1482.2	1615.1	1984.4
55°	526.9	590.9	635.2	640.1	610.6	911.0	906.0	1098.1	1201.5	1447.7
57.5°	68.9	83.7	128.0	413.6	408.7	507.2	635.2	797.7	856.8	1058.7
60°	4.9	9.8	14.8	64.0	270.8	295.4	433.3	497.3	595.8	743.5
62.5°	0.0	0.0	4.9	14.8	54.2	172.3	226.5	261.0	349.6	487.5
65°	0.0	0.0	4.9	9.8	19.7	64.0	88.6	142.8	206.8	300.4
67.5°	0.0	0.0	4.9	9.8	14.8	24.6	39.4	64.0	108.3	182.2
70°	0.0	0.0	4.9	9.8	14.8	19.7	29.5	39.4	59.1	98.5
72.5°	0.0	0.0	4.9	4.9	9.8	24.6	24.6	29.5	39.4	54.2
75°	0.0	0.0	4.9	9.8	14.8	24.6	24.6	24.6	29.5	34.5
77.5°	0.0	0.0	4.9	9.8	14.8	24.6	19.7	24.6	24.6	24.6
80°	0.0	0.0	4.9	9.8	14.8	24.6	29.5	24.6	19.7	19.7
82.5°	0.0	0.0	4.9	14.8	14.8	34.5	34.5	34.5	14.8	14.8
85°	0.0	0.0	9.8	14.8	24.6	39.4	39.4	29.5	14.8	9.8
87.5°	0.0	0.0	4.9	9.8	9.8	19.7	29.5	24.6	9.8	4.9
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°
45799.2	0°	45799.2	45799.2	45799.2	45799.2	45799.2	45799.2	45799.2	45799.2	45799.2
45370.8	2.5°	45735.1	45612.0	45843.5	45873.0	45774.5	45651.4	45365.8	45341.2	44843.9
44366.2	5°	44868.5	44666.6	44814.3	44912.8	44878.3	44745.4	44627.2	44518.9	44070.8
42736.4	7.5°	43253.4	43179.5	43248.5	43322.3	43465.1	43322.3	43273.1	43159.8	42716.7
41131.1	10°	41461.0	41323.1	41584.1	41549.6	41510.3	41470.9	41264.0	41283.7	40761.8
38944.8	12.5°	39259.9	39028.5	39279.6	39309.2	39279.6	39141.8	38910.3	39008.8	38531.2
35990.3	15°	36300.5	36275.9	36458.1	36576.3	36660.0	36512.3	36433.5	36482.7	36197.1
32188.9	17.5°	32666.6	32986.6	33582.4	33784.3	33789.2	33941.9	33897.6	33838.5	33626.8
27978.8	20°	28392.4	29007.9	29923.8	30864.3	31135.2	31007.1	30948.0	31056.4	30741.2
24024.7	22.5°	24448.2	24975.1	26038.7	27412.5	28205.3	28284.1	28269.3	28175.8	28052.7
20858.5	25°	21099.8	21567.6	22586.9	23842.5	25364.1	25590.6	25600.5	25570.9	25462.6
17987.8	27.5°	18273.4	18839.6	19401.0	20523.7	22143.7	23079.3	22961.1	22926.7	22887.3
15565.1	30°	15712.8	16426.8	16953.7	17652.9	19105.6	20371.0	20494.1	20435.1	20341.5
13561.0	32.5°	13684.1	14107.6	14777.3	15250.0	16293.9	17726.8	18199.5	18155.2	18071.5
11753.9	35°	11921.3	12088.7	12615.6	13142.5	13836.8	15225.4	15924.6	15826.1	15811.3
9577.4	37.5°	9818.7	10380.0	10670.5	11202.4	11689.8	12768.2	13733.3	13689.0	13694.0
7701.3	40°	7927.8	8252.8	8828.9	9277.0	9725.1	10513.0	11586.4	11616.0	11606.1
5963.1	42.5°	6086.2	6401.3	7007.0	7494.5	7893.3	8380.8	9405.1	9439.5	9483.8
4643.4	45°	4751.8	4953.7	5396.8	5904.0	6327.5	6622.9	7400.9	7622.5	7627.4
3599.5	47.5°	3688.2	3919.6	4234.7	4722.2	5135.8	5347.6	5913.9	6214.2	6199.5
2762.4	50°	2895.4	3107.1	3363.2	3747.2	4195.3	4362.8	4781.3	5076.8	5062.0
2082.9	52.5°	2215.8	2486.7	2713.2	3008.6	3446.9	3589.7	3890.0	4229.8	4180.6
1526.5	55°	1679.1	1954.9	2166.6	2412.8	2811.7	2993.9	3200.7	3471.5	3481.3
1181.8	57.5°	1265.5	1551.1	1743.1	1994.3	2294.6	2496.5	2654.1	2944.6	2939.7
807.6	60°	906.0	1152.2	1383.7	1644.7	1876.1	2107.5	2215.8	2491.6	2501.4
571.2	62.5°	654.9	886.3	1107.9	1334.4	1541.2	1767.8	1866.2	2082.9	2112.4
374.2	65°	457.9	620.4	876.5	1048.8	1280.3	1447.7	1575.7	1762.8	1797.3
221.6	67.5°	295.4	448.1	694.3	846.9	1058.7	1201.5	1334.4	1482.2	1526.5
142.8	70°	177.3	339.8	517.0	679.5	871.6	999.6	1127.6	1255.6	1280.3
68.9	72.5°	113.3	236.4	374.2	551.5	699.2	837.1	950.4	1043.9	970.0
44.3	75°	64.0	162.5	295.4	433.3	566.3	699.2	792.8	842.0	674.6
29.5	77.5°	39.4	118.2	241.3	349.6	438.2	561.3	620.4	650.0	482.6
19.7	80°	24.6	88.6	201.9	285.6	285.6	413.6	482.6	507.2	349.6
14.8	82.5°	19.7	64.0	157.6	216.7	192.0	310.2	379.2	384.1	246.2
9.8	85°	14.8	49.2	98.5	142.8	133.0	216.7	221.6	246.2	162.5
9.8	87.5°	9.8	29.5	59.1	83.7	73.9	103.4	118.2	133.0	88.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
45799.2
44454.9
43711.3
42623.1
40584.5
38393.3
35852.5
33311.6
30514.7
27816.3
25098.2
22655.8
20223.3
17849.9
15648.8
13536.4
11433.8
9336.1
7499.4
6145.3
5062.0
4185.5
3481.3
2929.8
2476.8
2102.6
1787.5
1521.6
1260.6
901.1
640.1
453.0
325.0
226.5
147.7
78.8
0.0

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