

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: P638874

Luminaire Tested: **EPH-VN-08-D-935-U-LAM-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638874
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-08-D-935-U-LAM-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (128) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27282.5 lumens
Efficiency: N/A
Efficacy: 55.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

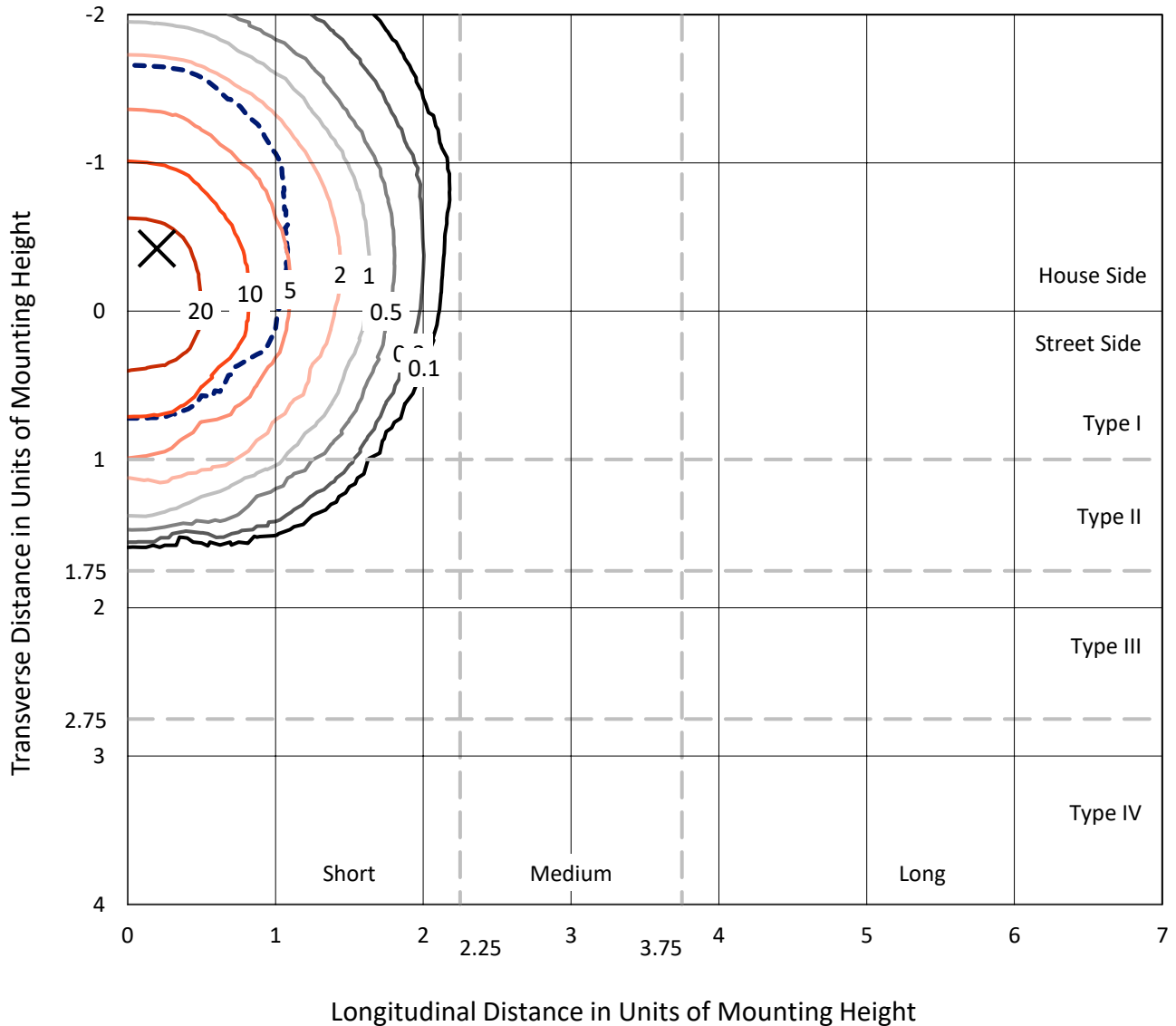
Input Watts (W): 488.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

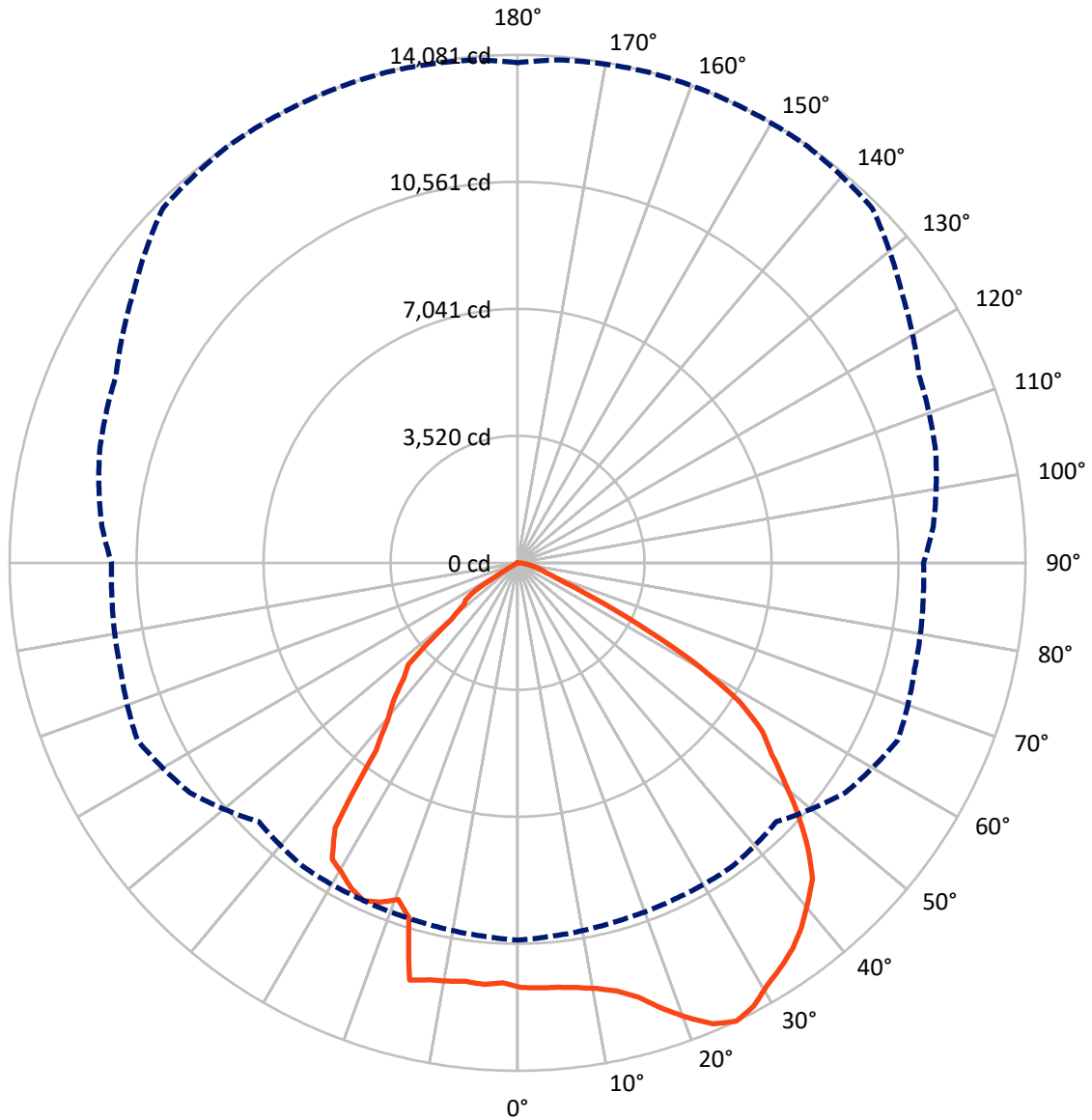
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 29.4 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	16890.6	0.0	16890.6
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	10391.8	0.0	10391.8
	% Fixture	38.1	0.0	38.1
Total	Lumens	27282.5	0.0	27282.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1129.4	4.1
10°-20°	3448.4	12.6
20°-30°	5451.8	20.0
30°-40°	6158.3	22.6
40°-50°	5767.3	21.1
50°-60°	3976.2	14.6
60°-70°	1068.3	3.9
70°-80°	222.6	0.8
80°-90°	60.2	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°	27282.5	100.0
0°-180°	27282.5	100.0

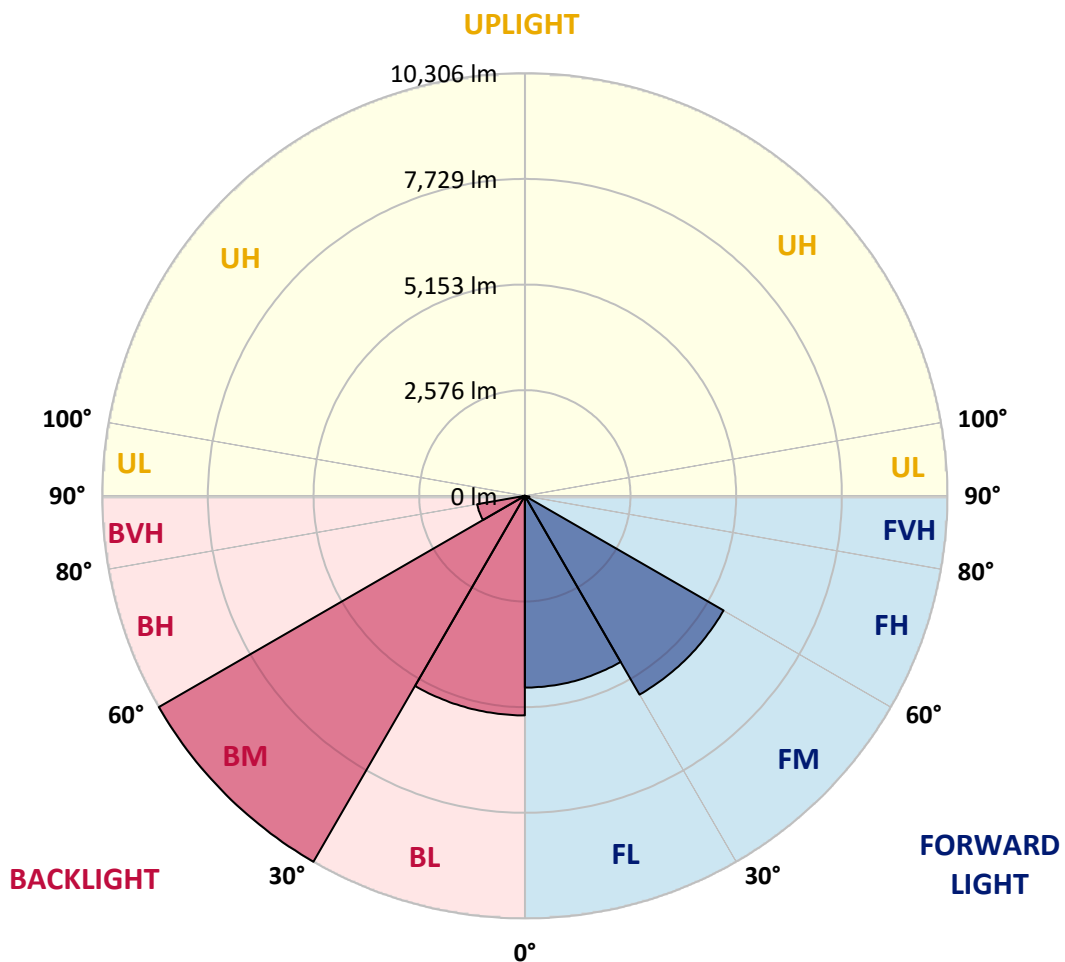


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4675.3	17.1			
FM (30°-60°)	5596.2	20.5			
FH (60°-80°)	112.1	0.4			G0/660
FVH (80°-90°)	8.1	0.0			G0/10
BL (0°-30°)	5354.2	19.6	B5		
BM (30°-60°)	10305.5	37.8	B5		
BH (60°-80°)	1178.7	4.3	B3/2500		G3/2500
BVH (80°-90°)	52.1	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°	11771.9	11771.9	11771.9	11771.9	11771.9	11771.9	11771.9	11771.9	11771.9	11771.9
2.5°	11824.0	11747.8	11675.7	11651.6	11751.9	11860.1	11791.9	11796.0	11771.9	11816.0
5°	11912.2	11808.0	11759.9	11723.8	11739.8	11852.1	11755.9	11791.9	11751.9	11804.0
7.5°	11880.2	11808.0	11759.9	11691.7	11743.8	11876.1	11783.9	11787.9	11767.9	11816.0
10°	11860.1	11808.0	11747.8	11755.9	11816.0	11928.3	11856.1	11896.2	11868.1	11896.2
12.5°	11908.2	11852.1	11820.0	11820.0	11872.1	12000.4	11964.4	12000.4	11988.4	12012.5
15°	11455.1	11507.3	11812.0	11948.3	12052.6	12180.9	12164.8	12200.9	12208.9	12245.0
17.5°	9662.9	9610.8	9586.7	10288.4	12152.8	12549.7	12537.7	12533.7	12493.6	12465.5
20°	9899.5	9879.4	9851.3	9903.5	10112.0	12742.2	12822.4	12329.2	12184.9	12172.9
22.5°	10276.4	10244.3	10140.0	10144.0	10208.2	11078.3	12425.4	11976.4	11928.3	11900.2
25°	10460.8	10396.6	10312.4	10288.4	10308.4	10148.1	11098.3	11631.6	11395.0	11286.8
27.5°	10136.0	10140.0	10071.9	10136.0	10059.8	9338.1	8933.2	10958.0	10950.0	10901.8
30°	9891.4	9879.4	9799.2	9879.4	9354.2	8548.3	8375.9	10220.2	10136.0	10071.9
32.5°	9141.7	9149.7	9382.2	9695.0	8832.9	8195.4	7674.2	9129.6	9927.5	9891.4
35°	6539.5	6555.5	7381.5	8925.2	8043.1	7493.8	7453.7	7890.7	9598.7	9614.8
37.5°	6294.9	6294.9	6274.9	6527.5	7421.6	7209.1	7289.3	7245.2	8792.8	8832.9
40°	6118.5	6082.4	6054.3	5657.4	5160.2	7008.6	7064.7	6864.3	8311.7	8319.7
42.5°	5906.0	5865.9	5873.9	5140.2	4618.9	6511.4	6355.1	6086.4	7509.8	7517.8
45°	5517.1	5585.2	5633.4	4498.7	4458.6	4651.0	5861.9	5693.5	6968.5	7116.9
47.5°	2806.7	2866.8	4398.4	4137.8	4230.0	4133.8	4951.7	4955.7	5797.7	6290.9
50°	2546.0	2530.0	2534.0	2413.7	3905.3	3343.9	3580.5	4542.8	4643.0	5348.7
52.5°	2373.6	2369.6	2125.0	1888.5	2453.8	2943.0	2598.2	3287.8	3452.2	4530.7
55°	1756.2	1884.5	1676.0	1776.2	1535.6	2357.6	2345.6	2967.0	3023.2	3632.6
57.5°	16.0	20.0	48.1	1351.2	1062.5	1178.8	1619.8	2024.8	2125.0	2830.7
60°	4.0	8.0	20.0	40.1	689.6	725.7	1082.6	1170.8	1319.1	1688.0
62.5°	0.0	0.0	8.0	20.0	36.1	296.7	344.8	376.9	581.4	862.0
65°	0.0	0.0	4.0	12.0	20.0	48.1	84.2	176.4	252.6	312.7
67.5°	0.0	0.0	4.0	8.0	16.0	24.1	48.1	68.2	108.3	184.4
70°	0.0	0.0	4.0	8.0	12.0	20.0	32.1	48.1	64.2	92.2
72.5°	0.0	0.0	4.0	8.0	8.0	24.1	24.1	36.1	48.1	60.1
75°	0.0	0.0	4.0	4.0	8.0	16.0	24.1	28.1	32.1	48.1
77.5°	0.0	0.0	4.0	8.0	12.0	16.0	20.0	32.1	28.1	28.1
80°	0.0	0.0	4.0	12.0	12.0	20.0	24.1	32.1	20.0	20.0
82.5°	0.0	0.0	4.0	16.0	12.0	40.1	40.1	44.1	16.0	16.0
85°	0.0	0.0	12.0	8.0	24.1	40.1	36.1	24.1	20.0	12.0
87.5°	0.0	0.0	4.0	4.0	8.0	12.0	28.1	24.1	8.0	8.0
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°
11771.9	0°	11771.9	11771.9	11771.9	11771.9	11771.9	11771.9	11771.9	11771.9	11771.9
11699.7	2.5°	11860.1	11808.0	11916.2	11904.2	11852.1	11828.0	11800.0	11775.9	11599.5
11707.7	5°	11864.1	11783.9	11916.2	11892.2	11884.2	11844.1	11820.0	11856.1	11695.7
11739.8	7.5°	11864.1	11783.9	11928.3	11936.3	11924.3	11892.2	11888.2	11912.2	11779.9
11796.0	10°	11944.3	11912.2	12032.5	12044.5	12028.5	12020.5	12000.4	11984.4	11844.1
11988.4	12.5°	12112.7	12048.6	12184.9	12221.0	12208.9	12229.0	12180.9	12204.9	12060.6
12184.9	15°	12317.2	12321.2	12425.4	12505.6	12497.6	12561.8	12489.6	12553.8	12449.5
12409.4	17.5°	12629.9	12674.0	12822.4	12942.7	12986.8	13034.9	12986.8	13006.8	12858.5
12160.8	20°	12301.2	12465.5	13179.2	13399.8	13492.0	13536.1	13455.9	13479.9	13331.6
11856.1	22.5°	12004.5	12217.0	12850.5	13540.1	13824.8	13913.0	13884.9	13880.9	13824.8
11254.7	25°	11567.4	11996.4	12281.1	13010.8	13905.0	14065.3	14081.4	14077.4	13993.2
10885.8	27.5°	11030.1	11126.4	11864.1	12309.2	13343.6	13953.1	13929.0	13812.7	13700.5
10120.0	30°	10344.5	10781.6	11114.3	11824.0	12617.9	13608.3	13608.3	13520.0	13403.8
9847.3	32.5°	9995.7	10561.0	10869.8	11126.4	11804.0	13223.3	13383.7	13291.5	13199.3
9634.8	35°	9811.3	9895.5	10617.2	10849.7	11423.1	12481.6	13131.1	13038.9	12970.7
9069.5	37.5°	9406.3	9602.8	9939.6	10561.0	10737.4	11876.1	12794.3	12746.2	12666.0
8335.8	40°	8504.2	9029.4	9546.6	10136.0	10320.5	11098.3	12385.4	12405.4	12297.1
7553.9	42.5°	7970.9	8327.7	9137.7	9534.6	10031.8	10597.1	11988.4	12020.5	11944.3
7157.0	45°	7345.4	7742.3	8311.7	9033.4	9711.0	9907.5	11286.8	11623.5	11559.4
6367.1	47.5°	6772.1	7092.8	7790.5	8520.2	9270.0	9241.9	10480.8	11114.3	11026.1
5761.7	50°	5958.1	6519.5	6848.2	7517.8	8636.5	8712.6	9622.8	10516.9	10444.8
4895.6	52.5°	5023.9	5729.6	6359.1	6972.5	7994.9	8175.4	8824.9	9907.5	9859.4
3740.9	55°	4390.4	4903.6	5613.3	6106.5	7217.1	7698.2	8227.5	9326.1	9302.0
3075.3	57.5°	3123.4	4113.7	4699.1	5388.8	5974.2	6844.2	7237.2	8143.3	7918.8
1704.0	60°	2117.0	2582.1	3295.8	4037.6	4430.5	5300.6	5665.4	6391.1	6331.0
1018.4	62.5°	1118.7	1547.7	2056.9	2429.8	2714.4	3560.4	3712.8	4494.7	4474.6
409.0	65°	493.2	653.5	1114.6	1307.1	1599.8	1992.7	2125.0	2405.7	2337.5
200.5	67.5°	256.6	388.9	629.5	773.8	974.3	1122.7	1230.9	1319.1	1375.3
132.3	70°	156.4	284.7	388.9	537.3	669.6	789.9	874.1	994.4	1066.5
68.2	72.5°	116.3	180.4	268.6	413.0	485.1	625.5	709.7	797.9	862.0
56.1	75°	64.2	120.3	216.5	324.8	388.9	509.2	585.4	645.5	665.6
32.1	77.5°	40.1	92.2	180.4	252.6	304.7	413.0	392.9	449.1	497.2
24.1	80°	28.1	68.2	140.3	208.5	212.5	264.6	312.7	360.9	392.9
16.0	82.5°	20.0	56.1	104.2	160.4	140.3	204.5	244.6	280.7	204.5
12.0	85°	16.0	40.1	52.1	96.2	80.2	144.3	124.3	120.3	80.2
8.0	87.5°	12.0	20.0	36.1	44.1	32.1	32.1	40.1	48.1	40.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
11771.9
11479.2
11559.4
11627.6
11727.8
11932.3
12277.1
12730.2
13227.3
13644.3
13864.9
13612.3
13359.7
13123.1
12874.5
12585.8
12273.1
11936.3
11567.4
11090.3
10456.8
9891.4
9330.1
7894.7
6335.0
4478.6
2309.5
1375.3
1070.5
874.1
653.5
505.2
396.9
148.4
80.2
40.1
0.0

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