

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: P638635

Luminaire Tested: **EPH-VN-08-E-740-U-44-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638635
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-740-U-44-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 4 distribution lens and Visor
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 66033.9 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

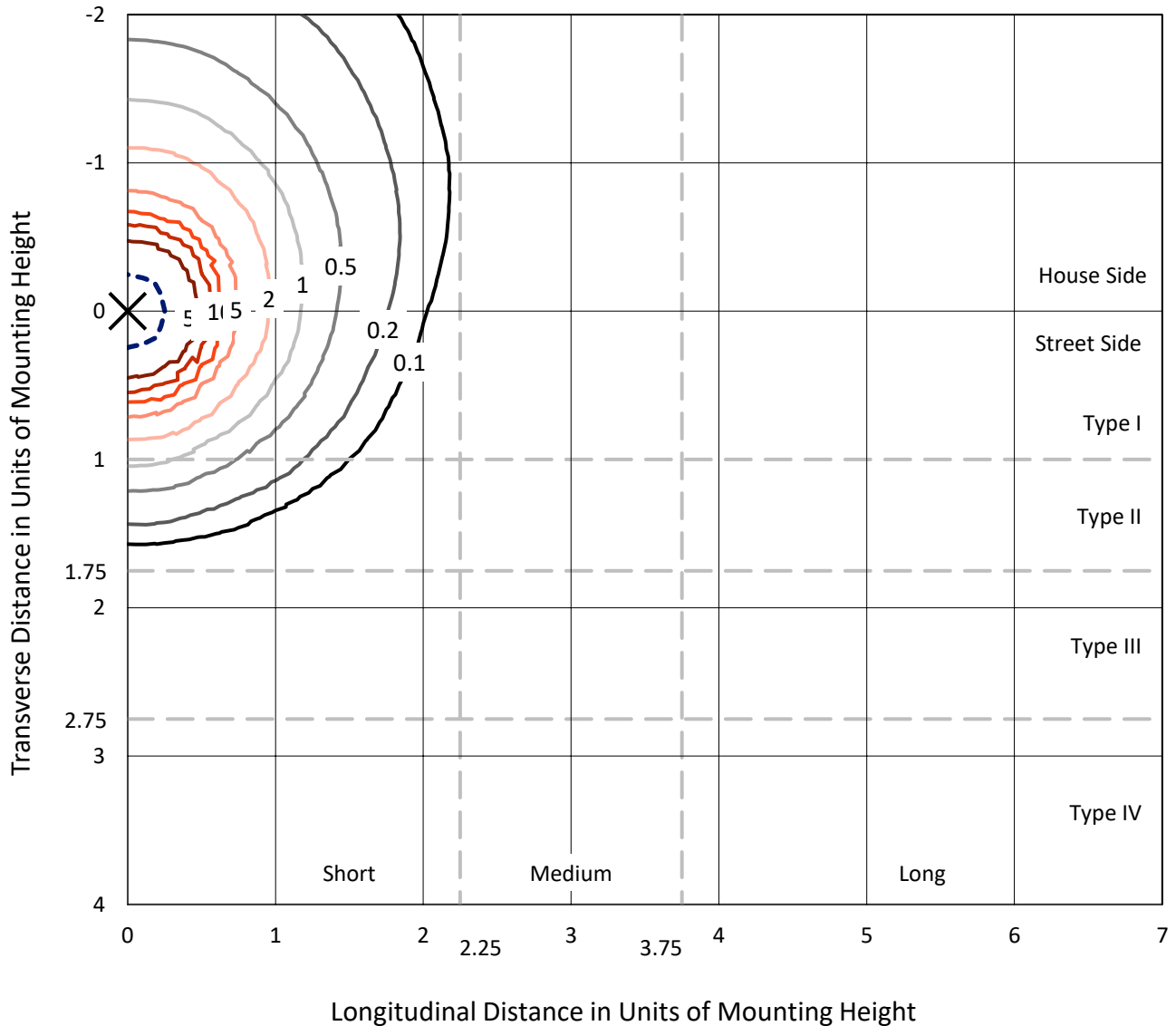
Input Watts (W): 626.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

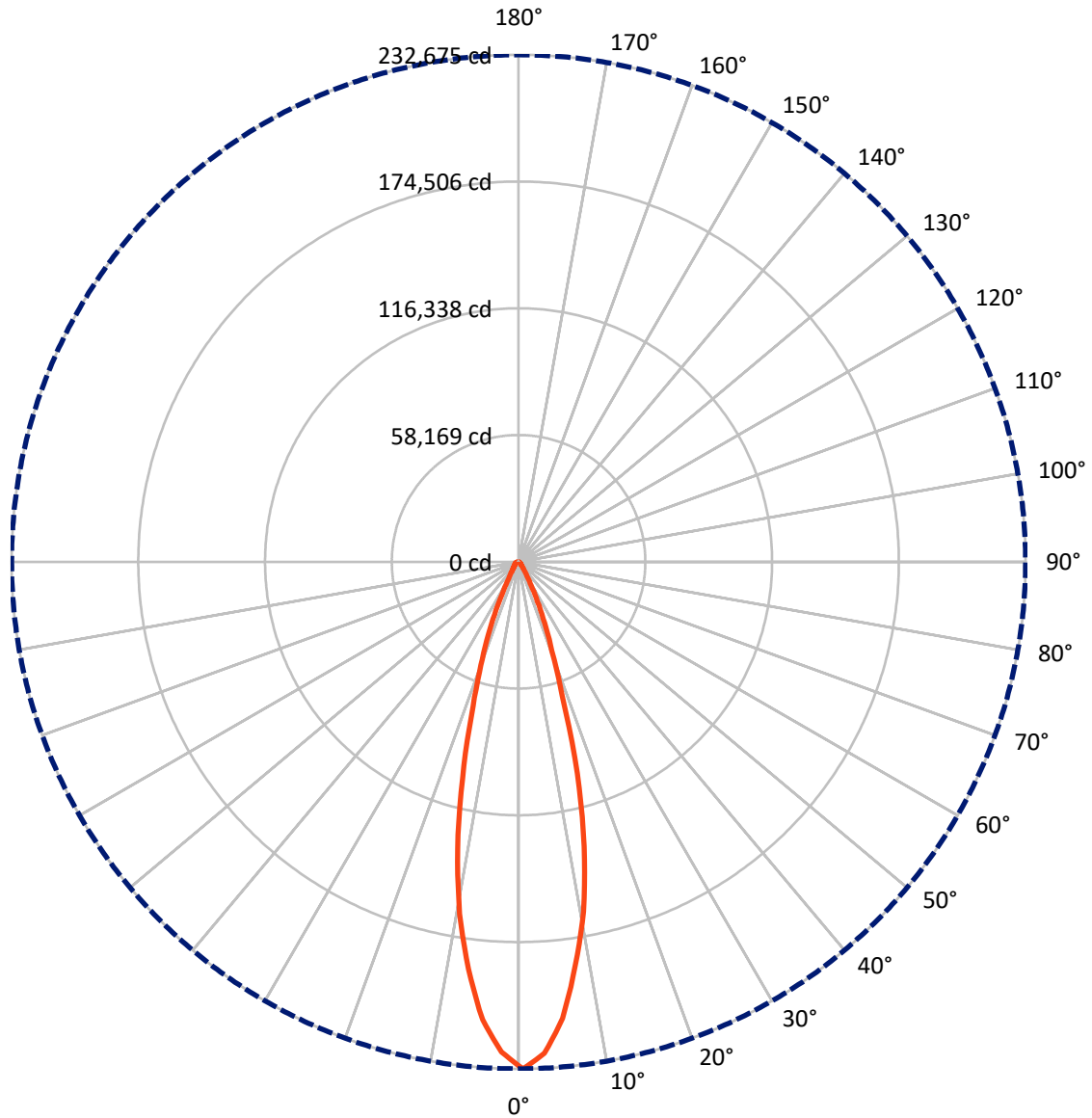
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 581.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	34817.5	0.0	34817.5
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	31216.4	0.0	31216.4
	% Fixture	47.3	0.0	47.3
Total	Lumens	66033.9	0.0	66033.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18779.0	28.4
10°-20°	28440.6	43.1
20°-30°	12002.1	18.2
30°-40°	3130.2	4.7
40°-50°	1583.2	2.4
50°-60°	1034.9	1.6
60°-70°	620.0	0.9
70°-80°	326.2	0.5
80°-90°	117.8	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°	66033.9	100.0
0°-180°	66033.9	100.0

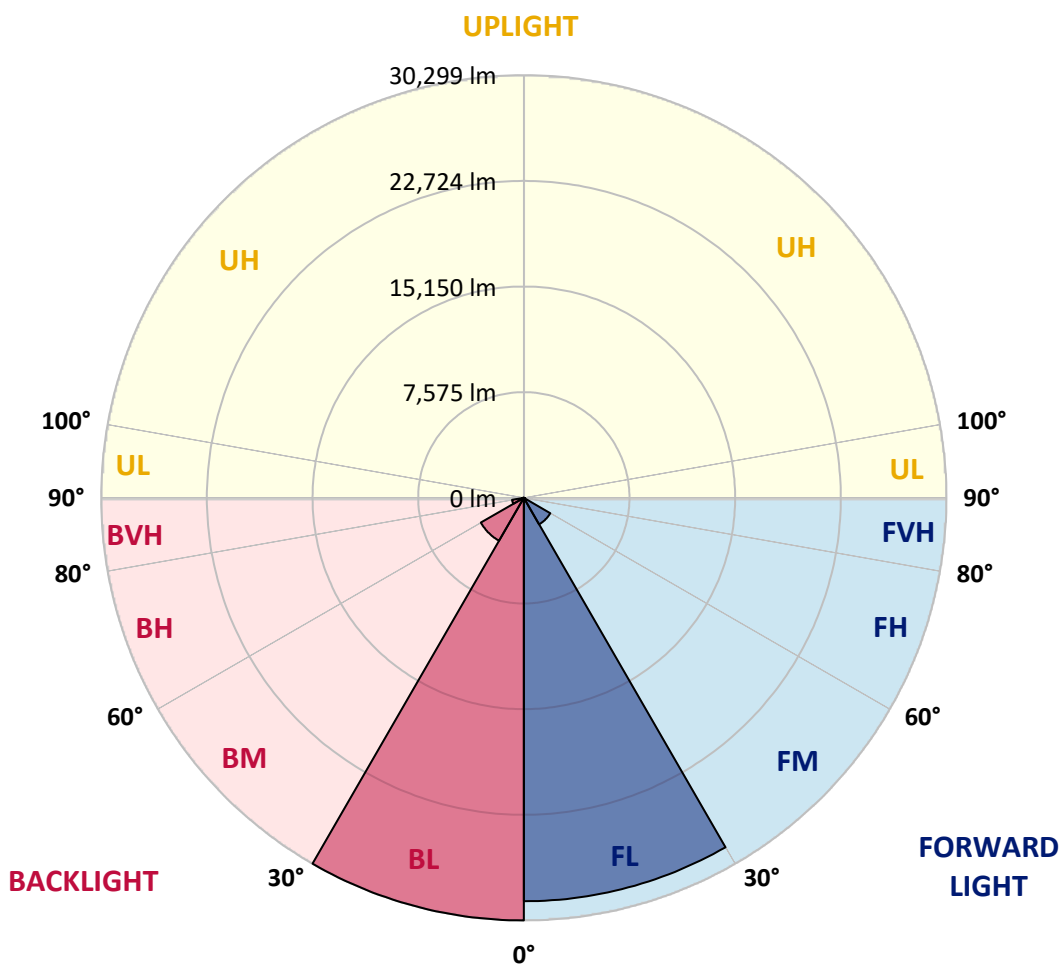


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	28922.4	43.8			
FM (30°-60°)	2190.4	3.3			
FH (60°-80°)	89.3	0.1			G0/660
FVH (80°-90°)	14.3	0.0			G1/100
BL (0°-30°)	30299.2	45.9	B5		
BM (30°-60°)	3558.0	5.4	B3/5000		
BH (60°-80°)	856.9	1.3	B2/1000		G1/1800
BVH (80°-90°)	103.5	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	232675.0	232675.0	232675.0	232675.0	232675.0	232675.0	232675.0	232675.0	232675.0	232675.0
2.5°	225897.1	226023.1	225555.9	226564.5	225778.4	227884.5	226838.9	228470.3	227921.5	228833.7
5°	210472.4	210264.8	210131.3	211696.0	211243.6	213505.4	212059.4	211584.8	213053.1	212786.1
7.5°	187179.7	187728.4	187417.0	187824.9	188054.7	190635.4	191451.1	190813.4	190835.6	191206.4
10°	163301.1	162492.8	161343.4	162107.2	163723.8	164851.0	164398.7	165333.0	165125.4	166007.9
12.5°	133920.1	134557.9	133912.7	133230.5	136055.9	135744.4	136530.5	137042.1	135759.2	138614.3
15°	100875.8	101209.5	101995.5	101943.6	104116.4	104554.0	104450.1	104991.5	103990.4	104465.0
17.5°	64805.8	65933.0	68046.5	71620.8	75640.1	76107.3	75988.7	75543.7	75061.7	74527.8
20°	43530.2	43411.5	44175.3	45220.9	53541.4	55743.8	55677.1	54282.9	52265.9	51880.2
22.5°	30493.4	30715.8	30612.0	31650.2	33370.7	39444.1	38695.1	37278.7	36618.7	36188.6
25°	20059.5	19977.9	20497.0	20808.5	22284.2	23025.7	25650.9	25124.4	24108.4	24219.7
27.5°	12228.5	12332.3	12525.1	12792.1	13837.7	13600.4	15098.4	15298.6	14972.3	14623.8
30°	7504.7	7578.8	7734.6	7927.4	8290.8	8031.2	8446.5	9165.8	9047.2	8802.4
32.5°	5094.6	5102.0	5213.2	5287.4	5242.9	4998.2	5131.7	5813.9	5828.7	5806.5
35°	3663.4	3663.4	3767.2	3826.5	3700.4	3500.2	3522.5	3945.2	4130.5	4167.6
37.5°	2528.8	2536.2	2714.1	2892.1	2751.2	2699.3	2610.3	2892.1	3188.8	3233.2
40°	1920.7	1913.3	2002.2	2135.7	2150.6	2054.1	2083.8	2261.8	2565.8	2602.9
42.5°	1557.3	1564.7	1609.2	1594.4	1601.8	1727.9	1772.4	1853.9	2135.7	2202.5
45°	1312.6	1320.0	1342.2	1268.1	1238.4	1431.2	1490.6	1535.0	1772.4	1853.9
47.5°	1082.7	1097.5	1119.8	1038.2	1023.4	1149.4	1253.3	1297.7	1505.4	1594.4
50°	778.6	793.5	875.1	830.6	875.1	904.7	1045.6	1112.4	1253.3	1371.9
52.5°	563.6	578.4	600.7	608.1	719.3	734.2	838.0	941.8	1008.5	1142.0
55°	444.9	459.8	444.9	430.1	526.5	608.1	645.2	756.4	808.3	964.0
57.5°	252.1	267.0	289.2	333.7	348.5	467.2	504.3	600.7	645.2	793.5
60°	44.5	51.9	81.6	200.2	244.7	296.6	378.2	459.8	519.1	622.9
62.5°	7.4	7.4	14.8	44.5	140.9	207.6	274.4	326.3	378.2	474.6
65°	0.0	0.0	7.4	14.8	37.1	118.7	148.3	192.8	259.5	341.1
67.5°	0.0	0.0	7.4	14.8	22.2	44.5	66.7	118.7	148.3	229.9
70°	0.0	0.0	7.4	14.8	22.2	29.7	37.1	51.9	89.0	140.9
72.5°	0.0	0.0	7.4	14.8	22.2	29.7	37.1	44.5	44.5	89.0
75°	0.0	0.0	7.4	14.8	22.2	37.1	44.5	44.5	37.1	37.1
77.5°	0.0	0.0	7.4	14.8	29.7	44.5	51.9	44.5	29.7	29.7
80°	0.0	0.0	14.8	22.2	37.1	51.9	66.7	51.9	29.7	14.8
82.5°	0.0	0.0	14.8	29.7	37.1	59.3	81.6	66.7	29.7	14.8
85°	0.0	0.0	7.4	22.2	44.5	59.3	81.6	59.3	29.7	7.4
87.5°	0.0	0.0	7.4	7.4	14.8	22.2	44.5	37.1	14.8	7.4
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°
232675.0	0°	232675.0	232675.0	232675.0	232675.0	232675.0	232675.0	232675.0	232675.0	232675.0
227105.8	2.5°	228411.0	229597.5	229842.2	229515.9	229990.5	229137.7	228485.1	226794.4	225778.4
212704.5	5°	214076.4	213898.5	215136.9	215544.7	215492.8	214840.2	213928.1	212904.8	211911.0
190487.1	7.5°	191673.6	191903.5	193030.7	193750.0	193386.6	192570.9	191940.6	191169.3	190501.9
166326.7	10°	167847.0	166267.4	167669.0	167669.0	168640.4	166334.2	166549.2	164606.3	164695.3
138562.4	12.5°	139037.0	139608.0	139837.9	140497.9	139363.3	138139.7	136641.7	136345.1	135418.1
103560.3	15°	105050.8	106682.3	105280.7	107676.0	106519.1	105243.6	105013.7	102714.9	103441.6
75113.6	17.5°	74742.8	76544.9	77108.5	78480.4	77427.3	76670.9	75714.3	75017.2	74965.3
52584.7	20°	53000.0	54809.4	55224.7	56871.0	56752.4	56515.1	55706.7	54824.3	53867.6
35795.6	22.5°	36336.9	37812.7	39192.0	41409.3	41372.2	40675.1	40593.5	39347.7	39370.0
24182.6	25°	24434.7	25510.0	25836.3	28105.5	28357.6	28283.5	27860.8	26703.9	27141.5
14772.1	27.5°	14786.9	15728.7	16833.6	17634.5	18390.9	18272.3	17849.6	17204.4	16922.6
8876.6	30°	9113.9	9536.6	9944.5	10908.5	11360.9	11598.2	11397.9	10797.3	10841.8
5843.6	32.5°	5969.6	6325.6	6622.2	7230.3	7467.6	7905.1	7823.6	7697.5	7549.2
4204.7	35°	4353.0	4612.6	4812.8	5094.6	5398.6	5769.4	5828.7	5776.8	5717.5
3248.1	37.5°	3322.2	3589.2	3819.1	3937.7	4175.0	4464.3	4627.4	4620.0	4575.5
2647.4	40°	2699.3	2899.5	3107.2	3262.9	3426.1	3641.1	3841.3	3863.6	3863.6
2224.7	42.5°	2254.4	2424.9	2632.6	2795.7	2914.4	3114.6	3322.2	3337.1	3322.2
1883.6	45°	1928.1	2076.4	2276.6	2469.4	2565.8	2714.1	2914.4	2958.9	2929.2
1616.6	47.5°	1675.9	1809.4	1980.0	2187.6	2291.5	2424.9	2610.3	2662.2	2654.8
1394.2	50°	1438.6	1594.4	1764.9	1935.5	2069.0	2195.0	2373.0	2432.3	2410.1
1186.5	52.5°	1268.1	1409.0	1557.3	1742.7	1898.4	2009.7	2150.6	2254.4	2224.7
1001.1	55°	1060.4	1231.0	1386.7	1542.5	1735.3	1853.9	1987.4	2113.5	2083.8
845.4	57.5°	919.5	1060.4	1238.4	1379.3	1572.1	1713.0	1846.5	1980.0	1972.6
689.7	60°	771.2	919.5	1090.1	1238.4	1416.4	1572.1	1705.6	1853.9	1868.8
519.1	62.5°	608.1	786.1	934.4	1104.9	1282.9	1453.5	1572.1	1720.4	1742.7
393.0	65°	459.8	645.2	808.3	971.5	1149.4	1334.8	1438.6	1564.7	1587.0
289.2	67.5°	341.1	496.9	689.7	838.0	1023.4	1201.3	1297.7	1401.6	1438.6
178.0	70°	259.5	378.2	578.4	719.3	912.1	1053.0	1156.8	1245.8	1275.5
118.7	72.5°	163.1	296.6	467.2	615.5	786.1	912.1	986.3	1038.2	1082.7
66.7	75°	111.2	229.9	378.2	526.5	652.6	749.0	815.7	860.2	897.3
29.7	77.5°	66.7	178.0	311.5	437.5	519.1	593.3	660.0	689.7	711.9
22.2	80°	37.1	133.5	259.5	356.0	407.9	459.8	511.7	548.8	563.6
14.8	82.5°	22.2	103.8	207.6	274.4	296.6	348.5	400.4	422.7	422.7
7.4	85°	14.8	74.2	140.9	200.2	215.1	252.1	267.0	281.8	296.6
7.4	87.5°	14.8	44.5	89.0	111.2	118.7	133.5	140.9	155.7	170.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
232675.0
225029.4
210798.7
188240.1
163827.6
134572.7
102714.9
73586.0
53452.4
38939.8
26451.8
16677.9
10648.9
7497.3
5695.3
4553.2
3819.1
3307.4
2929.2
2640.0
2395.3
2217.3
2098.6
1980.0
1876.2
1757.5
1609.2
1453.5
1290.3
1075.3
889.9
704.5
548.8
415.3
289.2
163.1
0.0

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