

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: P638649

Luminaire Tested: **EPH-VN-04-E-930-U-44-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638649
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-04-E-930-U-44-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 4 distribution lens and Visor
Light Source: (64) 3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21588.8 lumens
Efficiency: N/A
Efficacy: 71.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

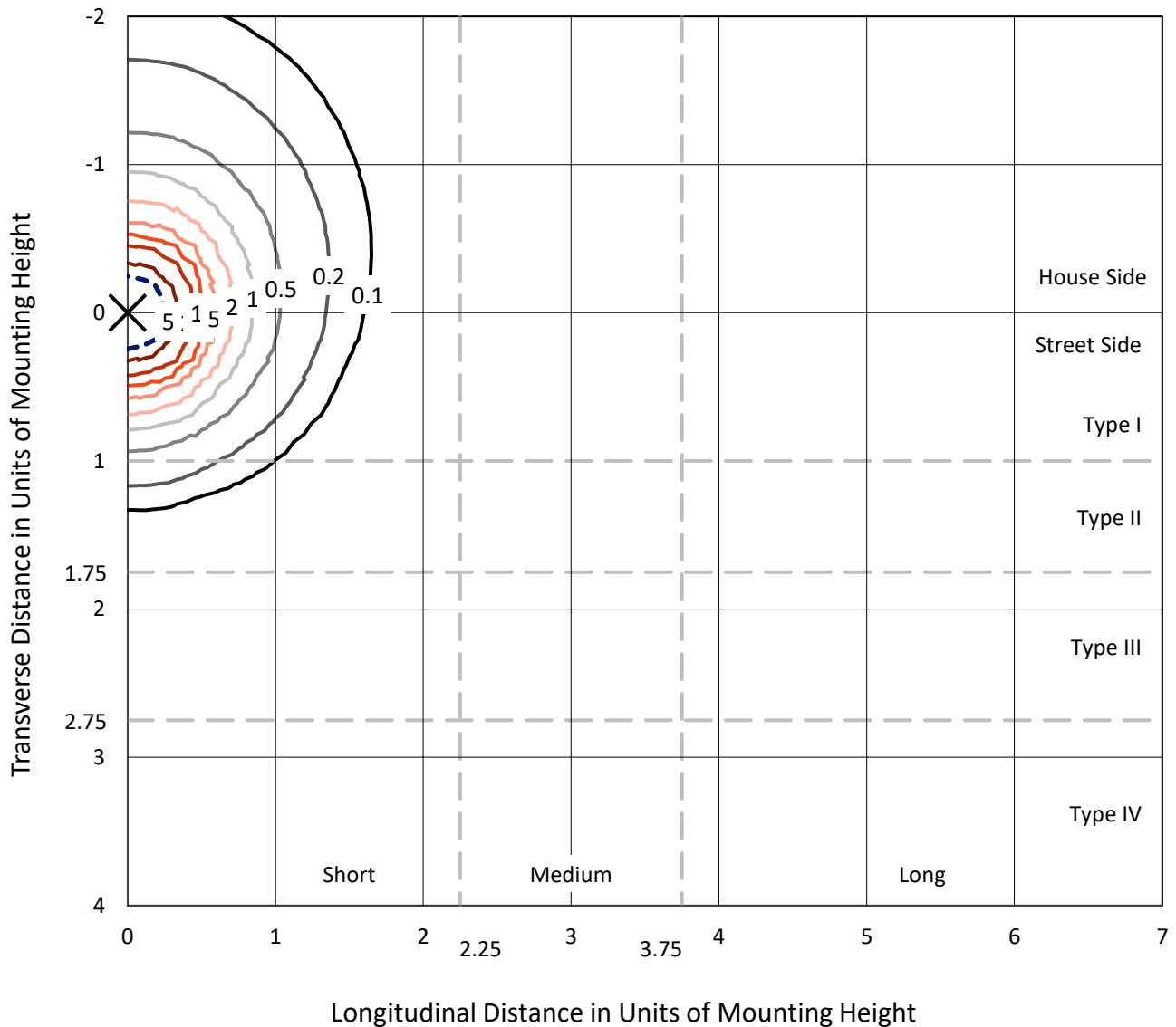
Input Watts (W): 303.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P638649
 CATALOG NUMBER: EPH-VN-04-E-930-U-44-VI

Iso-Footcandle Lines of Horizontal Illumination

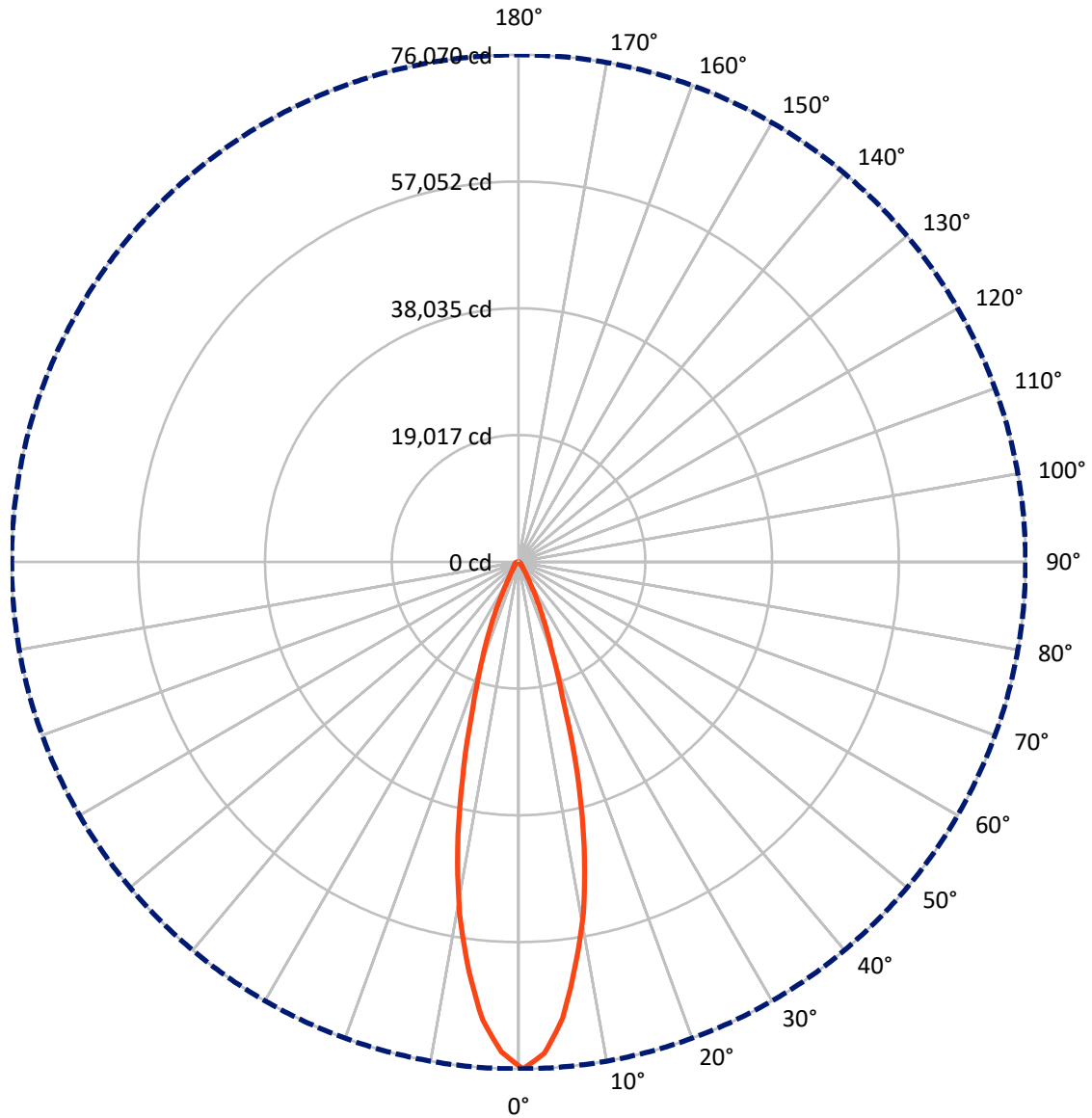
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 190.2 fc
 Type V - Short - N/A

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CATALOG NUMBER: EPH-VN-04-E-930-U-44-VI

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	11383.1	0.0	11383.1
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	10205.7	0.0	10205.7
	% Fixture	47.3	0.0	47.3
Total	Lumens	21588.8	0.0	21588.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6139.5	28.4
10°-20°	9298.2	43.1
20°-30°	3923.9	18.2
30°-40°	1023.4	4.7
40°-50°	517.6	2.4
50°-60°	338.3	1.6
60°-70°	202.7	0.9
70°-80°	106.6	0.5
80°-90°	38.5	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°	21588.8	100.0
0°-180°	21588.8	100.0

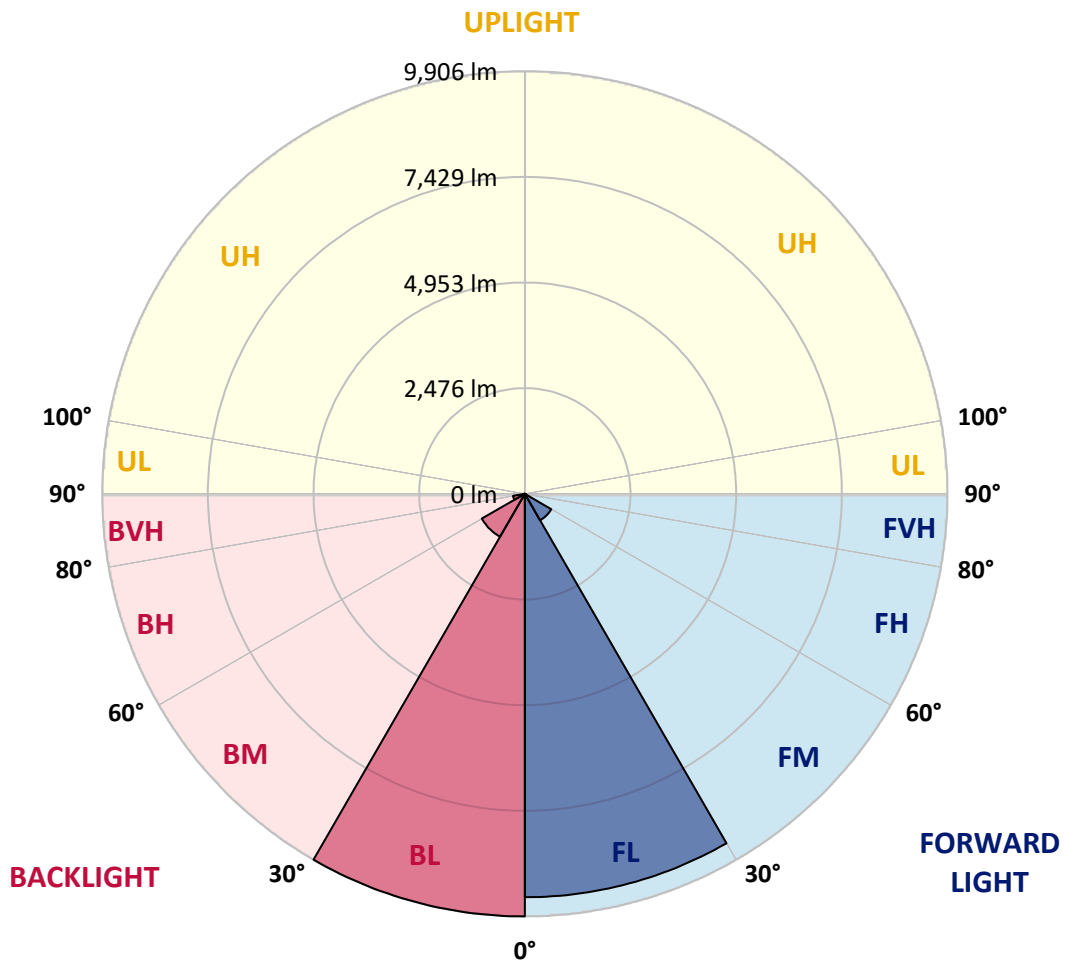


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9455.7	43.8			
FM (30°-60°)	716.1	3.3			
FH (60°-80°)	29.2	0.1			G0/660
FVH (80°-90°)	4.7	0.0			G0/10
BL (0°-30°)	9905.8	45.9	B5		
BM (30°-60°)	1163.2	5.4	B2/2500		
BH (60°-80°)	280.2	1.3	B1/500		G0/660
BVH (80°-90°)	33.8	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-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	76069.5	76069.5	76069.5	76069.5	76069.5	76069.5	76069.5	76069.5	76069.5	76069.5
2.5°	73853.6	73894.8	73742.1	74071.8	73814.8	74503.3	74161.5	74694.9	74515.5	74813.7
5°	68810.7	68742.8	68699.2	69210.8	69062.9	69802.3	69329.6	69174.4	69654.4	69567.2
7.5°	61195.5	61374.9	61273.1	61406.5	61481.6	62325.3	62592.0	62383.5	62390.8	62512.0
10°	53388.8	53124.5	52748.8	52998.5	53527.0	53895.5	53747.6	54053.1	53985.2	54273.7
12.5°	43783.1	43991.6	43780.7	43557.7	44481.4	44379.6	44636.5	44803.8	44384.4	45317.8
15°	32979.8	33088.9	33345.9	33328.9	34039.3	34182.3	34148.4	34325.4	33998.1	34153.2
17.5°	21187.3	21555.8	22246.8	23415.3	24729.4	24882.1	24843.3	24697.9	24540.3	24365.7
20°	14231.5	14192.7	14442.4	14784.3	17504.5	18224.6	18202.8	17747.0	17087.5	16961.5
22.5°	9969.3	10042.1	10008.1	10347.6	10910.0	12895.6	12650.8	12187.7	11971.9	11831.3
25°	6558.1	6531.5	6701.2	6803.0	7285.5	7527.9	8386.2	8214.0	7881.9	7918.3
27.5°	3997.9	4031.9	4094.9	4182.2	4524.0	4446.4	4936.2	5001.6	4895.0	4781.0
30°	2453.5	2477.8	2528.7	2591.7	2710.5	2625.7	2761.4	2996.6	2957.8	2877.8
32.5°	1665.6	1668.0	1704.4	1728.6	1714.1	1634.1	1677.7	1900.8	1905.6	1898.3
35°	1197.7	1197.7	1231.6	1251.0	1209.8	1144.3	1151.6	1289.8	1350.4	1362.5
37.5°	826.7	829.2	887.3	945.5	899.5	882.5	853.4	945.5	1042.5	1057.1
40°	627.9	625.5	654.6	698.2	703.1	671.6	681.3	739.5	838.9	851.0
42.5°	509.1	511.6	526.1	521.3	523.7	564.9	579.4	606.1	698.2	720.1
45°	429.1	431.6	438.8	414.6	404.9	467.9	487.3	501.9	579.4	606.1
47.5°	354.0	358.8	366.1	339.4	334.6	375.8	409.7	424.3	492.2	521.3
50°	254.6	259.4	286.1	271.5	286.1	295.8	341.8	363.7	409.7	448.5
52.5°	184.3	189.1	196.4	198.8	235.2	240.0	274.0	307.9	329.7	373.4
55°	145.5	150.3	145.5	140.6	172.1	198.8	210.9	247.3	264.3	315.2
57.5°	82.4	87.3	94.6	109.1	113.9	152.7	164.9	196.4	210.9	259.4
60°	14.5	17.0	26.7	65.5	80.0	97.0	123.6	150.3	169.7	203.7
62.5°	2.4	2.4	4.8	14.5	46.1	67.9	89.7	106.7	123.6	155.2
65°	0.0	0.0	2.4	4.8	12.1	38.8	48.5	63.0	84.9	111.5
67.5°	0.0	0.0	2.4	4.8	7.3	14.5	21.8	38.8	48.5	75.2
70°	0.0	0.0	2.4	4.8	7.3	9.7	12.1	17.0	29.1	46.1
72.5°	0.0	0.0	2.4	4.8	7.3	9.7	12.1	14.5	14.5	29.1
75°	0.0	0.0	2.4	4.8	7.3	12.1	14.5	14.5	12.1	12.1
77.5°	0.0	0.0	2.4	4.8	9.7	14.5	17.0	14.5	9.7	9.7
80°	0.0	0.0	4.8	7.3	12.1	17.0	21.8	17.0	9.7	4.8
82.5°	0.0	0.0	4.8	9.7	12.1	19.4	26.7	21.8	9.7	4.8
85°	0.0	0.0	2.4	7.3	14.5	19.4	26.7	19.4	9.7	2.4
87.5°	0.0	0.0	2.4	2.4	4.8	7.3	14.5	12.1	4.8	2.4
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°
76069.5	0°	76069.5	76069.5	76069.5	76069.5	76069.5	76069.5	76069.5	76069.5	76069.5
74248.8	2.5°	74675.5	75063.4	75143.4	75036.7	75191.9	74913.1	74699.7	74146.9	73814.8
69540.5	5°	69989.0	69930.8	70335.7	70469.1	70452.1	70238.7	69940.5	69606.0	69281.1
62276.8	7.5°	62664.8	62739.9	63108.4	63343.6	63224.8	62958.1	62752.0	62499.9	62281.7
54378.0	10°	54875.0	54358.6	54816.8	54816.8	55134.4	54380.4	54450.7	53815.5	53844.6
45300.8	12.5°	45456.0	45642.7	45717.8	45933.6	45562.7	45162.6	44672.9	44575.9	44272.9
33857.4	15°	34344.8	34878.1	34419.9	35203.0	34824.8	34407.8	34332.6	33581.1	33818.6
24557.3	17.5°	24436.0	25025.2	25209.4	25658.0	25313.7	25066.4	24753.6	24525.7	24508.8
17191.8	20°	17327.5	17919.1	18054.9	18593.1	18554.3	18476.7	18212.5	17924.0	17611.2
11702.8	22.5°	11879.8	12362.3	12813.2	13538.1	13526.0	13298.1	13271.4	12864.1	12871.4
7906.1	25°	7988.6	8340.1	8446.8	9188.7	9271.1	9246.9	9108.7	8730.4	8873.5
4829.5	27.5°	4834.4	5142.3	5503.5	5765.3	6012.6	5973.8	5835.7	5624.7	5532.6
2902.1	30°	2979.6	3117.8	3251.2	3566.4	3714.3	3791.8	3726.4	3530.0	3544.5
1910.5	32.5°	1951.7	2068.1	2165.0	2363.8	2441.4	2584.5	2557.8	2516.6	2468.1
1374.7	35°	1423.2	1508.0	1573.5	1665.6	1765.0	1886.2	1905.6	1888.6	1869.3
1061.9	37.5°	1086.2	1173.4	1248.6	1287.4	1365.0	1459.5	1512.9	1510.4	1495.9
865.5	40°	882.5	948.0	1015.8	1066.8	1120.1	1190.4	1255.9	1263.1	1263.1
727.3	42.5°	737.0	792.8	860.7	914.0	952.8	1018.3	1086.2	1091.0	1086.2
615.8	45°	630.4	678.8	744.3	807.3	838.9	887.3	952.8	967.4	957.7
528.5	47.5°	547.9	591.6	647.3	715.2	749.2	792.8	853.4	870.4	868.0
455.8	50°	470.3	521.3	577.0	632.8	676.4	717.6	775.8	795.2	787.9
387.9	52.5°	414.6	460.6	509.1	569.7	620.7	657.0	703.1	737.0	727.3
327.3	55°	346.7	402.5	453.4	504.3	567.3	606.1	649.8	691.0	681.3
276.4	57.5°	300.6	346.7	404.9	450.9	514.0	560.0	603.7	647.3	644.9
225.5	60°	252.1	300.6	356.4	404.9	463.1	514.0	557.6	606.1	611.0
169.7	62.5°	198.8	257.0	305.5	361.2	419.4	475.2	514.0	562.5	569.7
128.5	65°	150.3	210.9	264.3	317.6	375.8	436.4	470.3	511.6	518.8
94.6	67.5°	111.5	162.4	225.5	274.0	334.6	392.8	424.3	458.2	470.3
58.2	70°	84.9	123.6	189.1	235.2	298.2	344.3	378.2	407.3	417.0
38.8	72.5°	53.3	97.0	152.7	201.2	257.0	298.2	322.5	339.4	354.0
21.8	75°	36.4	75.2	123.6	172.1	213.4	244.9	266.7	281.2	293.4
9.7	77.5°	21.8	58.2	101.8	143.0	169.7	194.0	215.8	225.5	232.7
7.3	80°	12.1	43.6	84.9	116.4	133.3	150.3	167.3	179.4	184.3
4.8	82.5°	7.3	33.9	67.9	89.7	97.0	113.9	130.9	138.2	138.2
2.4	85°	4.8	24.2	46.1	65.5	70.3	82.4	87.3	92.1	97.0
2.4	87.5°	4.8	14.5	29.1	36.4	38.8	43.6	46.1	50.9	55.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
76069.5
73569.9
68917.4
61542.2
53560.9
43996.5
33581.1
24057.8
17475.4
12730.8
8648.0
5452.6
3481.5
2451.1
1862.0
1488.6
1248.6
1081.3
957.7
863.1
783.1
724.9
686.1
647.3
613.4
574.6
526.1
475.2
421.9
351.5
290.9
230.3
179.4
135.8
94.6
53.3
0.0

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