

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: P638791

Luminaire Tested: **EPH-VN-08-E-735-U-77-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638791
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-735-U-77-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 7 distribution lens and Visor
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51941.2 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

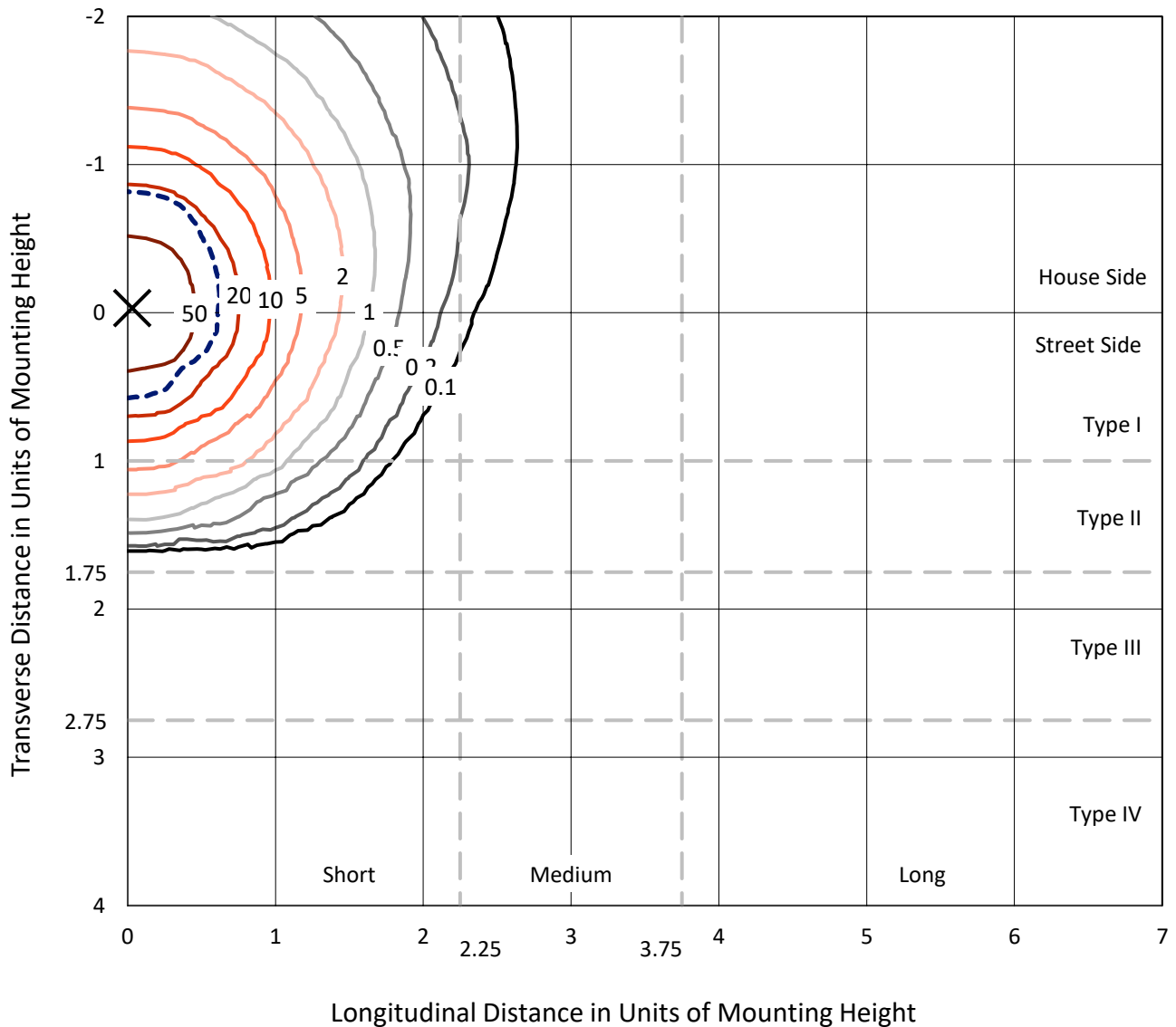
Input Watts (W): 626.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

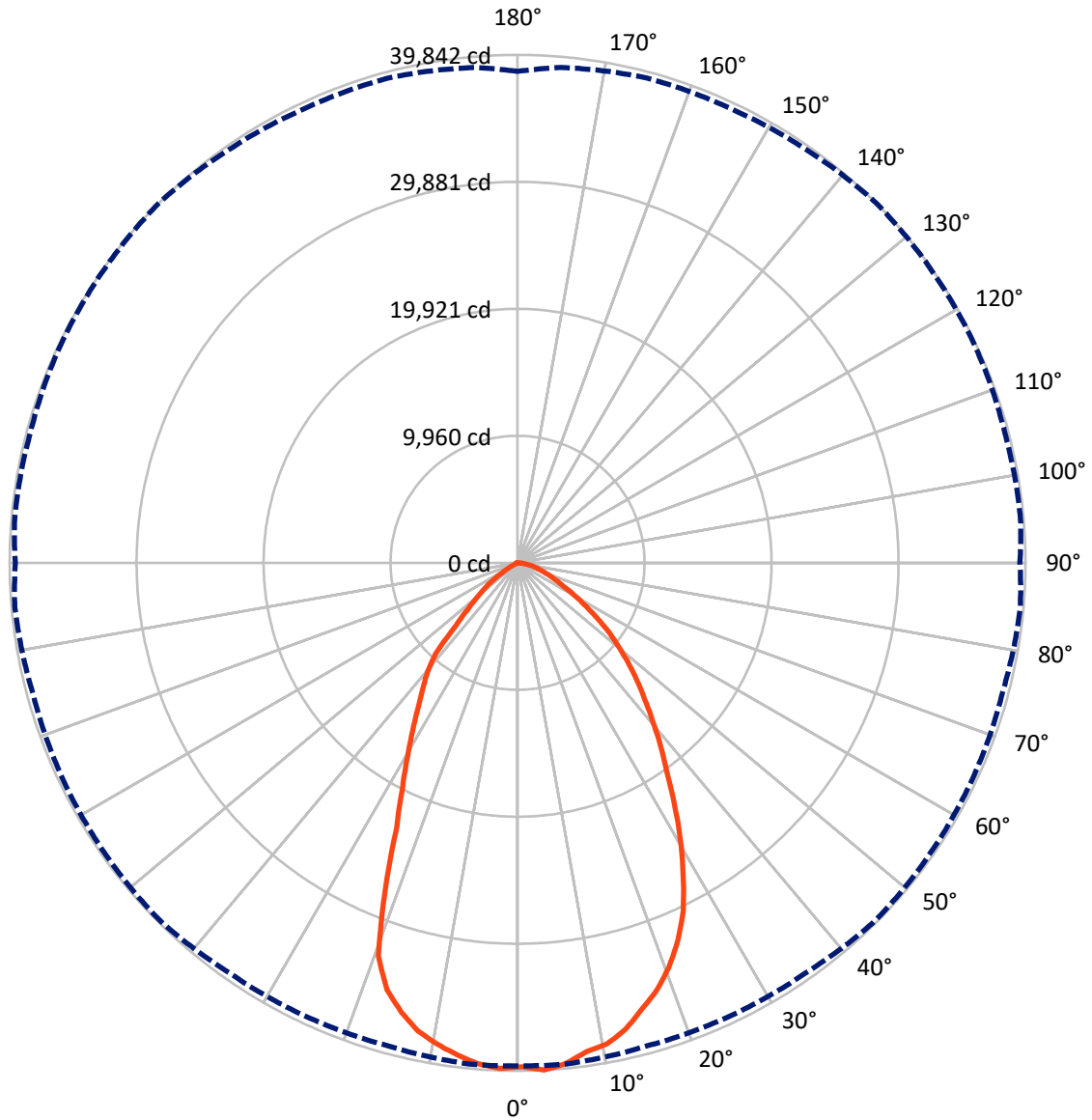
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 98.8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	30762.2	0.0	30762.2
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	21179.0	0.0	21179.0
	% Fixture	40.8	0.0	40.8
Total	Lumens	51941.2	0.0	51941.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3707.0	7.1
10°-20°	9940.6	19.1
20°-30°	12123.1	23.3
30°-40°	11068.3	21.3
40°-50°	7998.8	15.4
50°-60°	4367.4	8.4
60°-70°	1805.8	3.5
70°-80°	731.3	1.4
80°-90°	198.9	0.4
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°	51941.2	100.0
0°-180°	51941.2	100.0

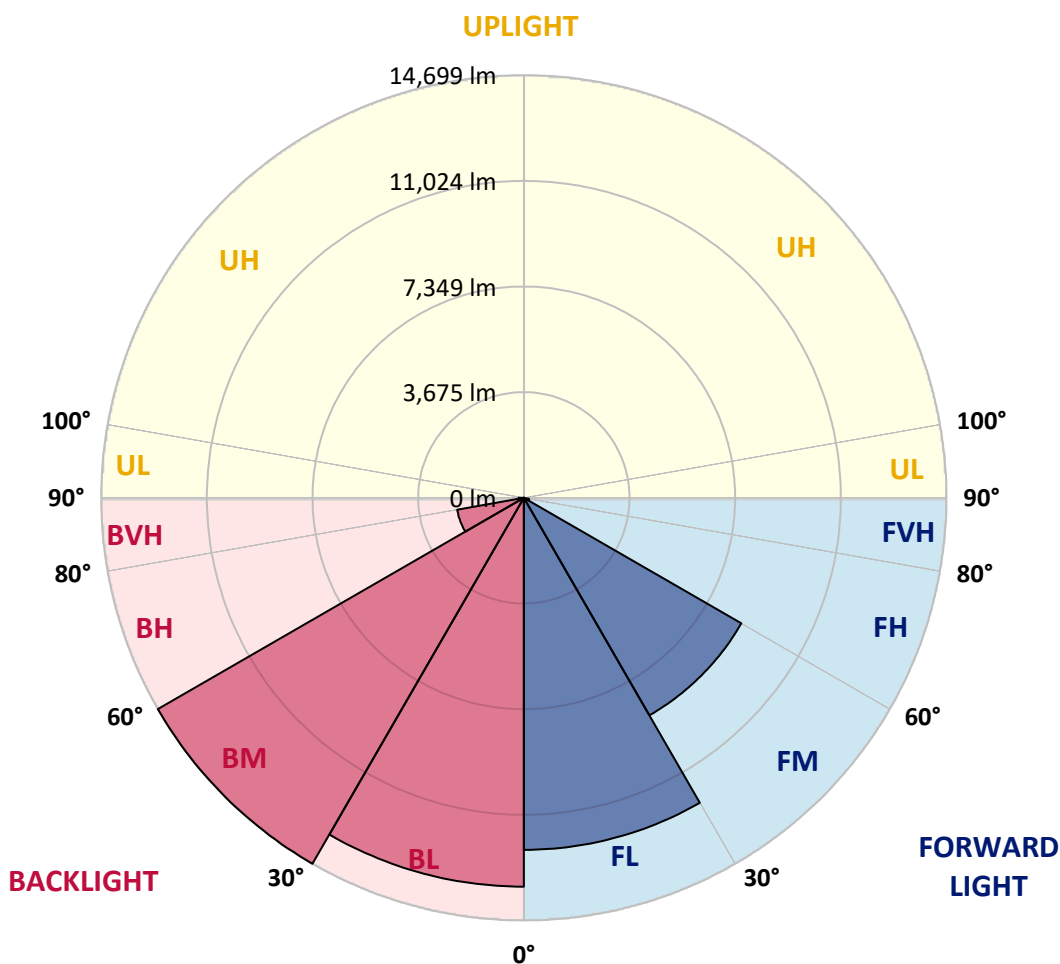


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	12244.5	23.6			
FM (30°-60°)	8735.5	16.8			
FH (60°-80°)	183.0	0.4			G0/660
FVH (80°-90°)	15.9	0.0			G1/100
BL (0°-30°)	13526.2	26.0	B5		
BM (30°-60°)	14698.9	28.3	B5		
BH (60°-80°)	2354.1	4.5	B3/2500		G3/2500
BVH (80°-90°)	183.0	0.4			G2/225
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°	39527.1	39527.1	39527.1	39527.1	39527.1	39527.1	39527.1	39527.1	39527.1	39527.1
2.5°	39453.9	39505.2	39227.2	39256.5	39307.7	39680.7	39585.6	39497.8	39373.5	39585.6
5°	39402.7	39432.0	39139.4	39037.0	39080.9	39417.4	39110.2	39110.2	39080.9	39044.3
7.5°	39007.8	39022.4	38795.7	38612.8	38729.8	38883.4	38656.7	38766.4	38605.5	38729.8
10°	38415.3	38320.2	38049.6	37998.4	38130.0	38276.3	38122.7	38225.1	38078.8	38173.9
12.5°	37544.9	37398.6	37179.2	37113.3	37340.1	37537.6	37413.2	37354.7	37164.5	37398.6
15°	34187.6	34077.9	34575.2	35445.7	36228.3	36396.5	36264.9	36323.4	35928.4	35994.2
17.5°	28138.6	27933.7	28467.7	30530.4	33470.8	35021.4	34904.4	34524.0	33938.9	34070.5
20°	25571.2	25512.7	25454.2	25944.2	27999.6	32702.7	32863.7	31898.2	31064.3	30881.5
22.5°	24122.9	24101.0	24042.5	24152.2	24693.5	27714.3	29557.5	28665.2	28109.3	28058.1
25°	22799.0	22762.5	22586.9	22725.9	22725.9	22901.4	25264.0	25805.3	25315.2	25256.7
27.5°	21453.2	21387.3	21358.1	21423.9	21087.5	19902.5	20502.3	23142.8	22886.8	22901.4
30°	19997.6	19975.7	19895.2	20034.2	18995.5	17525.3	17145.0	20729.0	20780.3	20765.6
32.5°	17832.5	17927.6	18293.3	18447.0	16735.4	15521.2	14884.8	17934.9	18980.9	18959.0
35°	12953.8	12953.8	14146.1	16362.3	14665.4	13751.1	13407.3	15206.7	17203.5	17276.6
37.5°	10649.8	10686.4	10920.4	11929.8	12653.9	12332.1	12229.7	12800.2	14921.4	15038.4
40°	9581.9	9581.9	9581.9	9165.0	9143.0	11110.6	11052.1	10869.2	12888.0	13144.0
42.5°	8609.1	8631.0	8645.6	7592.4	7007.2	9603.8	9472.2	9194.2	11066.7	11366.6
45°	7607.0	7643.6	7687.4	6348.9	6092.9	6912.1	8016.6	7709.4	9267.4	9655.0
47.5°	4644.7	4703.2	5697.9	5383.4	5412.7	5332.2	6539.1	6487.9	7599.7	8148.3
50°	3137.9	3159.8	3254.9	3415.8	4644.7	4191.2	4630.0	5368.8	5771.1	6604.9
52.5°	2633.2	2669.8	2435.7	2216.3	3050.1	3276.9	3233.0	3986.4	4147.3	5178.6
55°	1850.5	1967.6	1857.9	1835.9	1733.5	2545.4	2450.3	3064.7	3167.1	3935.2
57.5°	190.2	219.4	380.3	1367.8	1133.7	1440.9	1748.1	2245.5	2347.9	2903.8
60°	14.6	14.6	36.6	190.2	826.5	863.1	1206.9	1382.4	1579.9	2026.1
62.5°	0.0	7.3	14.6	29.3	131.7	460.8	607.1	724.1	950.9	1309.3
65°	0.0	0.0	7.3	21.9	29.3	175.5	234.1	380.3	519.3	811.9
67.5°	0.0	0.0	7.3	14.6	21.9	43.9	80.5	139.0	277.9	460.8
70°	0.0	0.0	7.3	14.6	21.9	36.6	58.5	87.8	124.3	248.7
72.5°	0.0	0.0	7.3	7.3	14.6	36.6	43.9	58.5	87.8	124.3
75°	0.0	0.0	7.3	7.3	21.9	43.9	36.6	43.9	58.5	80.5
77.5°	0.0	0.0	7.3	14.6	21.9	43.9	36.6	43.9	43.9	51.2
80°	0.0	0.0	7.3	14.6	29.3	51.2	43.9	43.9	36.6	36.6
82.5°	0.0	0.0	7.3	21.9	29.3	65.8	65.8	58.5	29.3	21.9
85°	0.0	0.0	14.6	29.3	43.9	73.1	73.1	58.5	21.9	14.6
87.5°	0.0	0.0	14.6	21.9	36.6	51.2	73.1	58.5	21.9	7.3
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°
39527.1	0°	39527.1	39527.1	39527.1	39527.1	39527.1	39527.1	39527.1	39527.1	39527.1
39402.7	2.5°	39600.2	39556.4	39702.6	39761.2	39841.6	39534.4	39344.2	39351.5	39000.5
38956.6	5°	39190.6	39197.9	39388.1	39373.5	39453.9	39285.7	39212.6	39088.2	38781.0
38393.4	7.5°	38671.3	38605.5	38788.3	38927.3	38722.5	38839.5	38671.3	38729.8	38547.0
37896.0	10°	38269.0	38115.4	38283.6	38378.7	38386.0	38269.0	38108.1	37954.5	37888.7
37120.7	12.5°	37376.7	37179.2	37464.4	37596.1	37574.1	37347.4	37164.5	37201.1	36989.0
35760.2	15°	36147.8	36155.1	36360.0	36484.3	36367.3	36316.1	36330.7	36242.9	36060.1
33880.4	17.5°	34268.0	34377.7	34919.0	35218.9	35284.7	35182.3	35131.1	35028.7	34845.9
30881.5	20°	31137.5	31795.8	32761.3	33690.2	33873.1	33843.8	33660.9	33617.0	33514.6
27911.8	22.5°	28387.2	28877.3	29996.4	31444.7	32190.7	32263.9	32044.4	31978.6	31868.9
25256.7	25°	25541.9	26068.6	27078.0	28650.6	30193.9	30508.4	30471.8	30274.4	30157.3
22901.4	27.5°	23142.8	23669.4	24583.7	26002.7	27655.8	28665.2	28760.3	28445.8	28438.4
20802.2	30°	20977.7	21701.9	22396.7	23552.4	25154.3	26668.4	26829.3	26609.8	26631.8
18878.5	32.5°	19280.8	19880.6	20473.0	21248.4	22579.6	24342.4	24971.4	24766.6	24686.1
17276.6	35°	17547.3	17956.9	18564.0	19273.5	20180.5	21928.6	23018.5	22864.9	22784.4
15111.6	37.5°	15572.4	16274.6	16713.4	17510.7	18220.2	19609.9	21146.0	21124.0	20955.8
13268.3	40°	13546.3	14285.1	14950.7	15755.2	16303.8	17408.3	19112.6	19105.2	19127.2
11359.3	42.5°	11710.4	12390.6	13195.2	14072.9	14599.6	15404.2	17232.8	17335.2	17459.5
9786.7	45°	10050.0	10664.4	11410.5	12478.4	13114.7	13575.6	15199.4	15667.5	15660.2
8382.3	47.5°	8557.9	9135.7	9764.7	10803.4	11615.3	12032.2	13378.1	14043.7	13999.8
6875.5	50°	7182.8	7694.8	8353.1	9106.4	10196.3	10562.0	11564.1	12441.8	12376.0
5478.5	52.5°	5778.4	6487.9	7043.8	7731.3	8879.7	9238.1	10013.4	10869.2	10818.0
4110.7	55°	4505.7	5193.2	5866.2	6458.6	7424.1	7958.1	8514.0	9391.7	9377.1
3218.3	57.5°	3408.5	4161.9	4798.3	5361.5	6129.5	6787.8	7234.0	8031.2	8133.6
2201.6	60°	2523.5	3101.3	3788.9	4417.9	5025.0	5705.2	6005.1	6787.8	6831.7
1506.8	62.5°	1718.9	2355.2	3028.2	3598.7	4052.2	4754.4	5025.0	5668.7	5749.1
965.5	65°	1192.2	1601.9	2369.9	2779.5	3335.4	3935.2	4205.8	4717.8	4878.7
555.9	67.5°	790.0	1141.0	1850.5	2223.6	2772.2	3181.8	3525.5	3942.5	4118.0
351.1	70°	431.6	841.2	1323.9	1755.5	2230.9	2625.9	2962.3	3298.8	3452.4
160.9	72.5°	292.6	563.2	921.6	1389.7	1799.3	2187.0	2486.9	2735.6	2742.9
95.1	75°	146.3	380.3	702.2	1075.2	1404.4	1784.7	2055.4	2201.6	2026.1
58.5	77.5°	87.8	277.9	570.5	863.1	1141.0	1440.9	1594.5	1675.0	1389.7
43.9	80°	51.2	197.5	446.2	687.6	790.0	1060.6	1206.9	1228.8	928.9
29.3	82.5°	36.6	146.3	351.1	504.7	482.8	746.1	907.0	877.7	592.5
21.9	85°	21.9	102.4	219.4	314.5	292.6	490.1	526.6	541.3	343.8
14.6	87.5°	14.6	58.5	117.0	168.2	139.0	212.1	212.1	256.0	168.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
39527.1
38547.0
38707.9
38239.8
37596.1
36806.1
35877.2
34765.4
33280.6
31839.6
30033.0
28423.8
26522.1
24693.5
22674.7
21094.8
19127.2
17393.7
15674.8
14014.4
12434.5
10927.7
9413.7
8089.7
6897.5
5763.8
4842.1
4096.1
3393.9
2677.1
1894.4
1338.5
870.4
548.6
314.5
146.3
0.0

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