

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: P638654

Luminaire Tested: **EPH-VN-03-E-935-U-44-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638654
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-03-E-935-U-44-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 4 distribution lens and Visor
Light Source: (48) 3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17274.2 lumens
Efficiency: N/A
Efficacy: 74.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

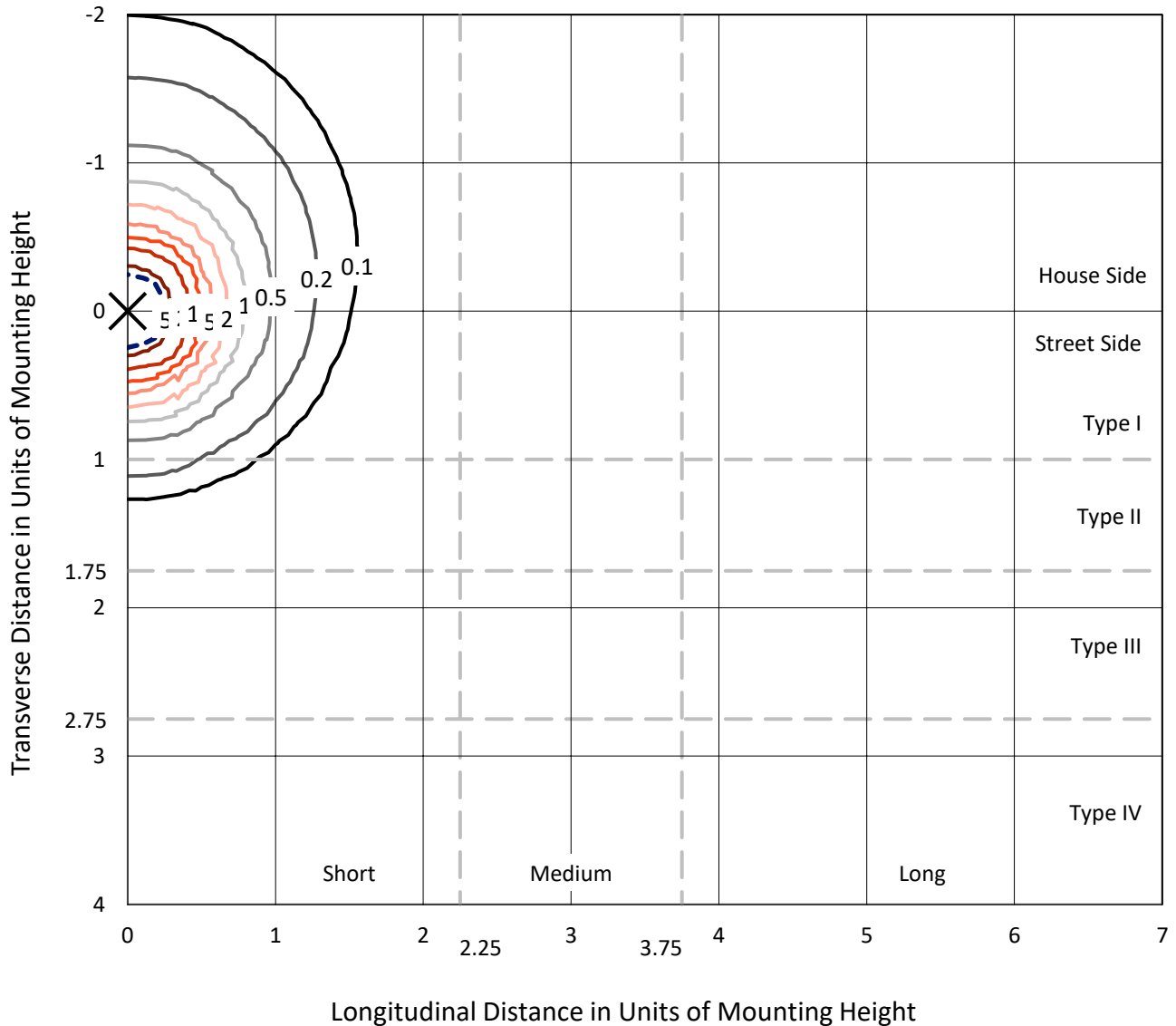
Input Watts (W): 232.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

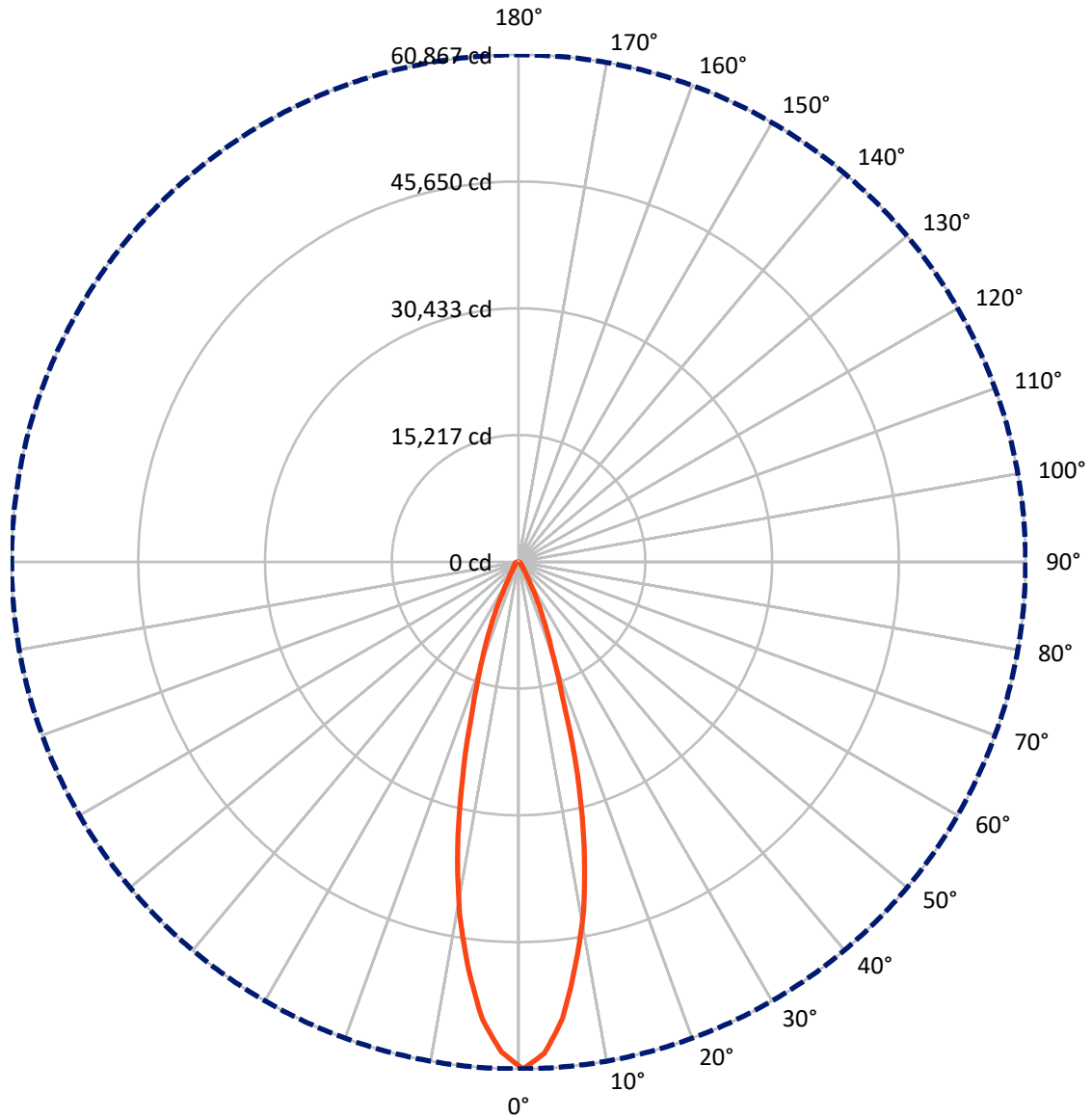
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 152.2 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	9108.1	0.0	9108.1
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	8166.1	0.0	8166.1
	% Fixture	47.3	0.0	47.3
Total	Lumens	17274.2	0.0	17274.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4912.5	28.4
10°-20°	7439.9	43.1
20°-30°	3139.7	18.2
30°-40°	818.9	4.7
40°-50°	414.2	2.4
50°-60°	270.7	1.6
60°-70°	162.2	0.9
70°-80°	85.3	0.5
80°-90°	30.8	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°	17274.2	100.0
0°-180°	17274.2	100.0

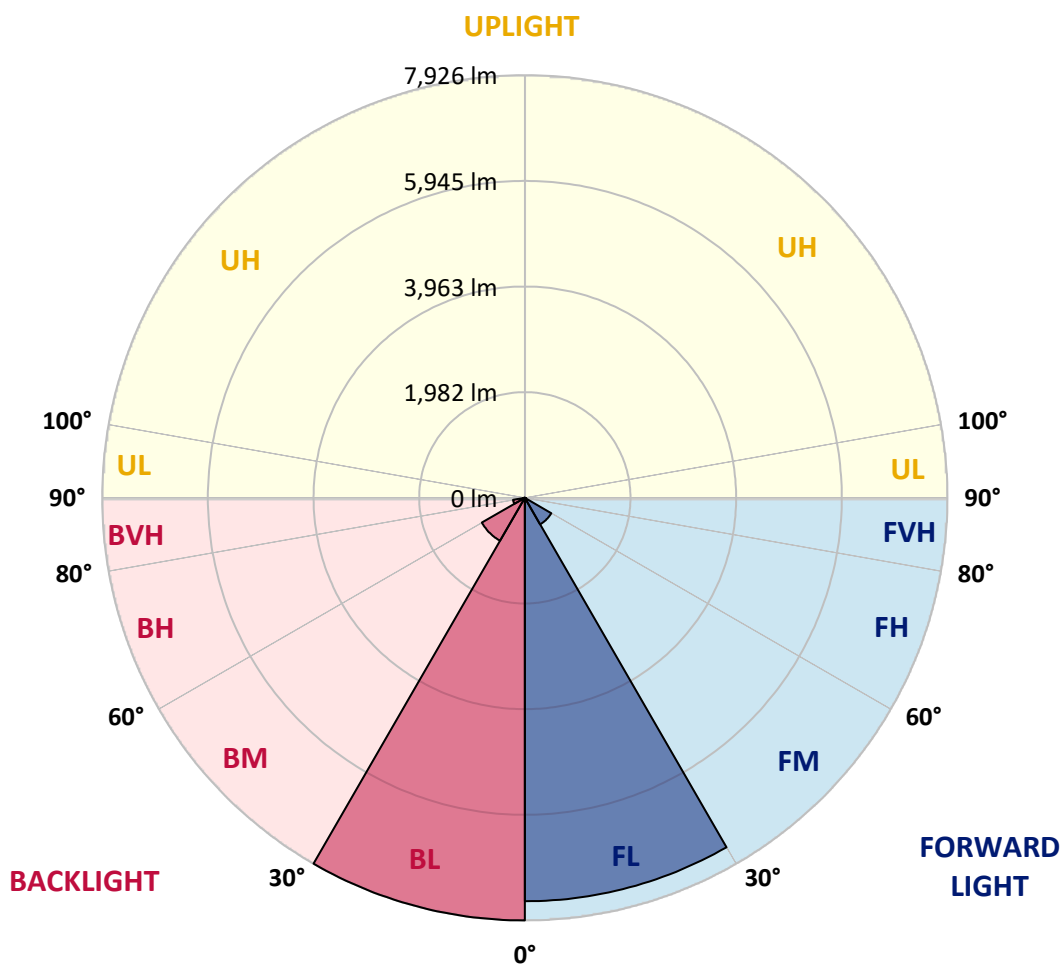


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7566.0	43.8			
FM (30°-60°)	573.0	3.3			
FH (60°-80°)	23.3	0.1			G0/660
FVH (80°-90°)	3.7	0.0			G0/10
BL (0°-30°)	7926.1	45.9	B5		
BM (30°-60°)	930.8	5.4	B1/1000		
BH (60°-80°)	224.2	1.3	B1/500		G0/660
BVH (80°-90°)	27.1	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-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	60866.7	60866.7	60866.7	60866.7	60866.7	60866.7	60866.7	60866.7	60866.7	60866.7
2.5°	59093.7	59126.6	59004.4	59268.3	59062.6	59613.6	59340.0	59766.8	59623.3	59861.9
5°	55058.6	55004.3	54969.4	55378.7	55260.4	55852.1	55473.8	55349.6	55733.7	55663.9
7.5°	48965.4	49108.9	49027.5	49134.1	49194.3	49869.4	50082.8	49915.9	49921.8	50018.7
10°	42718.9	42507.4	42206.7	42406.5	42829.4	43124.3	43006.0	43250.4	43196.1	43426.9
12.5°	35032.9	35199.7	35031.0	34852.5	35591.6	35510.1	35715.8	35849.6	35514.0	36260.9
15°	26388.7	26475.9	26681.6	26668.0	27236.4	27350.8	27323.7	27465.3	27203.4	27327.6
17.5°	16952.9	17247.8	17800.7	18735.7	19787.1	19909.3	19878.3	19761.9	19635.8	19496.1
20°	11387.3	11356.3	11556.1	11829.6	14006.2	14582.3	14564.9	14200.2	13672.5	13571.6
22.5°	7976.9	8035.1	8008.0	8279.6	8729.6	10318.4	10122.5	9751.9	9579.3	9466.8
25°	5247.5	5226.1	5361.9	5443.4	5829.4	6023.4	6710.2	6572.4	6306.7	6335.8
27.5°	3198.9	3226.1	3276.5	3346.4	3619.9	3557.8	3949.7	4002.0	3916.7	3825.5
30°	1963.2	1982.6	2023.3	2073.8	2168.8	2100.9	2209.6	2397.7	2366.7	2302.7
32.5°	1332.7	1334.7	1363.8	1383.2	1371.5	1307.5	1342.4	1520.9	1524.8	1519.0
35°	958.3	958.3	985.5	1001.0	968.0	915.6	921.5	1032.0	1080.5	1090.2
37.5°	661.5	663.5	710.0	756.6	719.7	706.1	682.8	756.6	834.2	845.8
40°	502.4	500.5	523.8	558.7	562.6	537.4	545.1	591.7	671.2	680.9
42.5°	407.4	409.3	421.0	417.1	419.0	452.0	463.6	485.0	558.7	576.2
45°	343.4	345.3	351.1	331.7	324.0	374.4	389.9	401.6	463.6	485.0
47.5°	283.2	287.1	292.9	271.6	267.7	300.7	327.8	339.5	393.8	417.1
50°	203.7	207.6	228.9	217.3	228.9	236.7	273.5	291.0	327.8	358.9
52.5°	147.4	151.3	157.1	159.1	188.2	192.1	219.2	246.4	263.8	298.7
55°	116.4	120.3	116.4	112.5	137.7	159.1	168.8	197.9	211.5	252.2
57.5°	66.0	69.8	75.7	87.3	91.2	122.2	131.9	157.1	168.8	207.6
60°	11.6	13.6	21.3	52.4	64.0	77.6	98.9	120.3	135.8	163.0
62.5°	1.9	1.9	3.9	11.6	36.9	54.3	71.8	85.4	98.9	124.2
65°	0.0	0.0	1.9	3.9	9.7	31.0	38.8	50.4	67.9	89.2
67.5°	0.0	0.0	1.9	3.9	5.8	11.6	17.5	31.0	38.8	60.1
70°	0.0	0.0	1.9	3.9	5.8	7.8	9.7	13.6	23.3	36.9
72.5°	0.0	0.0	1.9	3.9	5.8	7.8	9.7	11.6	11.6	23.3
75°	0.0	0.0	1.9	3.9	5.8	9.7	11.6	11.6	9.7	9.7
77.5°	0.0	0.0	1.9	3.9	7.8	11.6	13.6	11.6	7.8	7.8
80°	0.0	0.0	3.9	5.8	9.7	13.6	17.5	13.6	7.8	3.9
82.5°	0.0	0.0	3.9	7.8	9.7	15.5	21.3	17.5	7.8	3.9
85°	0.0	0.0	1.9	5.8	11.6	15.5	21.3	15.5	7.8	1.9
87.5°	0.0	0.0	1.9	1.9	3.9	5.8	11.6	9.7	3.9	1.9
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°
60866.7	0°	60866.7	60866.7	60866.7	60866.7	60866.7	60866.7	60866.7	60866.7	60866.7
59409.9	2.5°	59751.3	60061.7	60125.7	60040.3	60164.5	59941.4	59770.7	59328.4	59062.6
55642.6	5°	56001.4	55954.9	56278.9	56385.5	56372.0	56201.3	55962.6	55694.9	55435.0
49830.6	7.5°	50141.0	50201.1	50496.0	50684.1	50589.1	50375.7	50210.8	50009.0	49834.5
43510.3	10°	43908.0	43494.8	43861.5	43861.5	44115.6	43512.3	43568.5	43060.3	43083.6
36247.3	12.5°	36371.5	36520.8	36581.0	36753.6	36456.8	36136.7	35744.9	35667.3	35424.8
27090.9	15°	27480.8	27907.6	27541.0	28167.6	27864.9	27531.3	27471.1	26869.8	27059.9
19649.4	17.5°	19552.4	20023.8	20171.2	20530.1	20254.6	20056.8	19806.5	19624.2	19610.6
13755.9	20°	13864.6	14337.9	14446.5	14877.2	14846.2	14784.1	14572.6	14341.8	14091.5
9364.0	22.5°	9505.6	9891.6	10252.4	10832.5	10822.8	10640.4	10619.1	10293.2	10299.0
6326.1	25°	6392.0	6673.3	6758.7	7352.3	7418.2	7398.8	7288.3	6985.6	7100.1
3864.3	27.5°	3868.2	4114.6	4403.6	4613.1	4811.0	4779.9	4669.4	4500.6	4426.9
2322.1	30°	2384.2	2494.7	2601.4	2853.6	2971.9	3034.0	2981.6	2824.5	2836.2
1528.7	32.5°	1561.6	1654.7	1732.3	1891.4	1953.5	2067.9	2046.6	2013.6	1974.8
1099.9	35°	1138.7	1206.6	1259.0	1332.7	1412.3	1509.3	1524.8	1511.2	1495.7
849.7	37.5°	869.1	938.9	999.1	1030.1	1092.2	1167.8	1210.5	1208.6	1196.9
692.5	40°	706.1	758.5	812.8	853.6	896.2	952.5	1004.9	1010.7	1010.7
582.0	42.5°	589.7	634.4	688.7	731.3	762.4	814.8	869.1	873.0	869.1
492.7	45°	504.4	543.2	595.6	646.0	671.2	710.0	762.4	774.0	766.3
422.9	47.5°	438.4	473.3	518.0	572.3	599.4	634.4	682.8	696.4	694.5
364.7	50°	376.3	417.1	461.7	506.3	541.2	574.2	620.8	636.3	630.5
310.4	52.5°	331.7	368.6	407.4	455.9	496.6	525.7	562.6	589.7	582.0
261.9	55°	277.4	322.0	362.8	403.5	453.9	485.0	519.9	552.9	545.1
221.2	57.5°	240.5	277.4	324.0	360.8	411.3	448.1	483.0	518.0	516.0
180.4	60°	201.8	240.5	285.2	324.0	370.5	411.3	446.2	485.0	488.9
135.8	62.5°	159.1	205.6	244.4	289.0	335.6	380.2	411.3	450.1	455.9
102.8	65°	120.3	168.8	211.5	254.1	300.7	349.2	376.3	409.3	415.1
75.7	67.5°	89.2	130.0	180.4	219.2	267.7	314.3	339.5	366.6	376.3
46.6	70°	67.9	98.9	151.3	188.2	238.6	275.5	302.6	325.9	333.7
31.0	72.5°	42.7	77.6	122.2	161.0	205.6	238.6	258.0	271.6	283.2
17.5	75°	29.1	60.1	98.9	137.7	170.7	195.9	213.4	225.0	234.7
7.8	77.5°	17.5	46.6	81.5	114.5	135.8	155.2	172.7	180.4	186.2
5.8	80°	9.7	34.9	67.9	93.1	106.7	120.3	133.9	143.6	147.4
3.9	82.5°	5.8	27.2	54.3	71.8	77.6	91.2	104.8	110.6	110.6
1.9	85°	3.9	19.4	36.9	52.4	56.3	66.0	69.8	73.7	77.6
1.9	87.5°	3.9	11.6	23.3	29.1	31.0	34.9	36.9	40.7	44.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
<u>60866.7</u>
58866.7
55144.0
49242.8
42856.6
35203.6
26869.8
19249.8
13982.9
10186.5
6919.7
4362.9
2785.7
1961.3
1489.9
1191.1
999.1
865.2
766.3
690.6
626.6
580.0
549.0
518.0
490.8
459.8
421.0
380.2
337.5
281.3
232.8
184.3
143.6
108.6
75.7
42.7
0.0

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