

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: P638625

Luminaire Tested: **EPH-VN-04-E-735-U-44-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638625
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-735-U-44-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 4 distribution lens and Visor
Light Source: (64) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33270.3 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

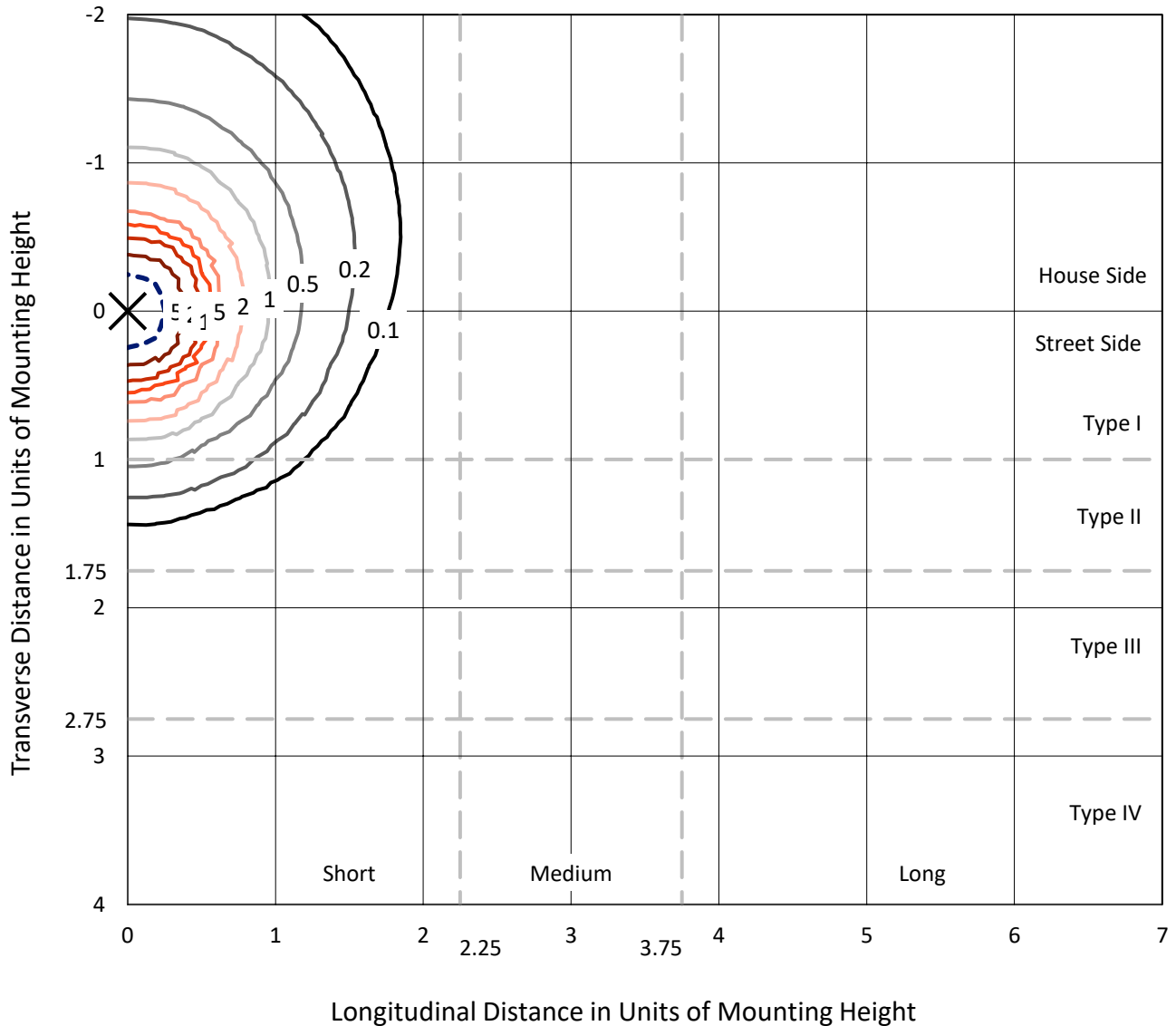
Input Watts (W): 303.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

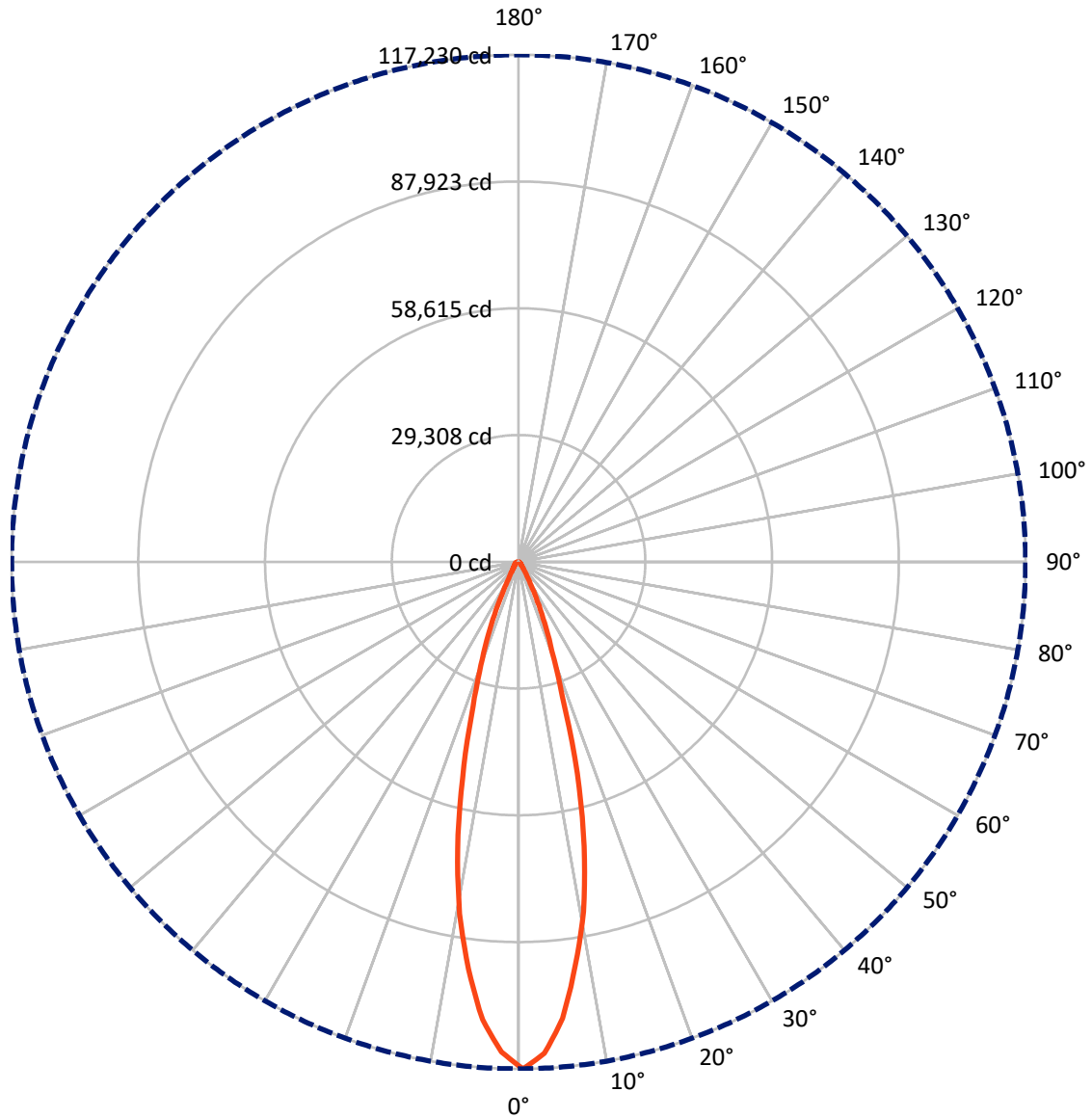
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 293.1 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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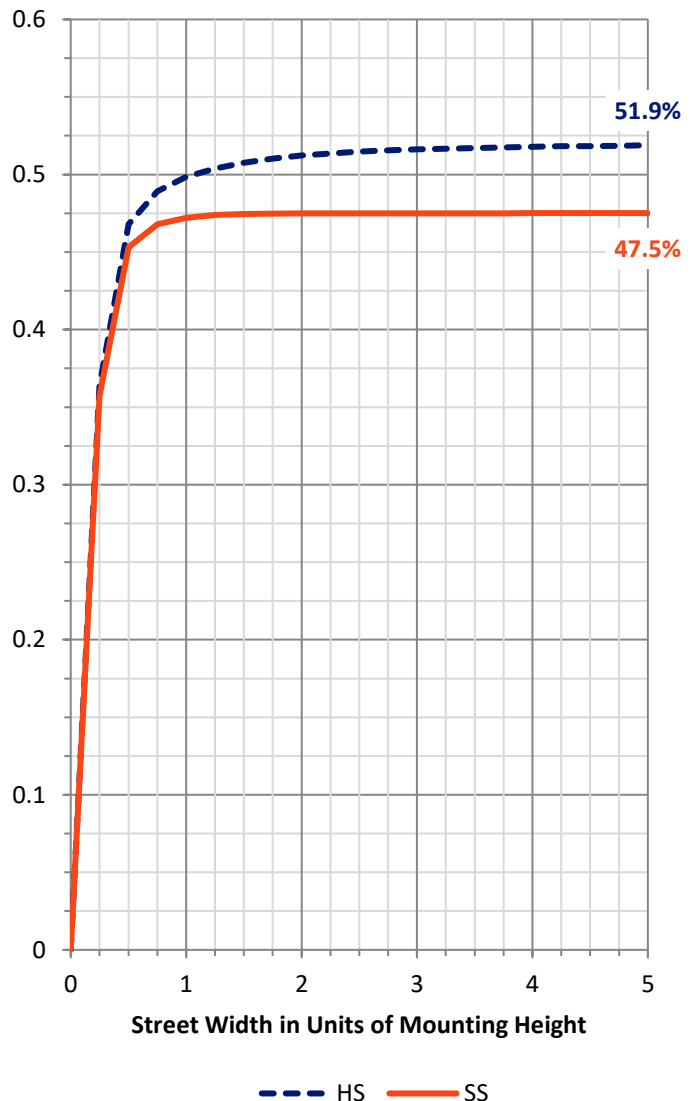
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17542.4	0.0	17542.4
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	15728.0	0.0	15728.0
	% Fixture	47.3	0.0	47.3
Total	Lumens	33270.3	0.0	33270.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9461.5	28.4
10°-20°	14329.4	43.1
20°-30°	6047.1	18.2
30°-40°	1577.1	4.7
40°-50°	797.7	2.4
50°-60°	521.4	1.6
60°-70°	312.4	0.9
70°-80°	164.3	0.5
80°-90°	59.4	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°	33270.3	100.0
0°-180°	33270.3	100.0

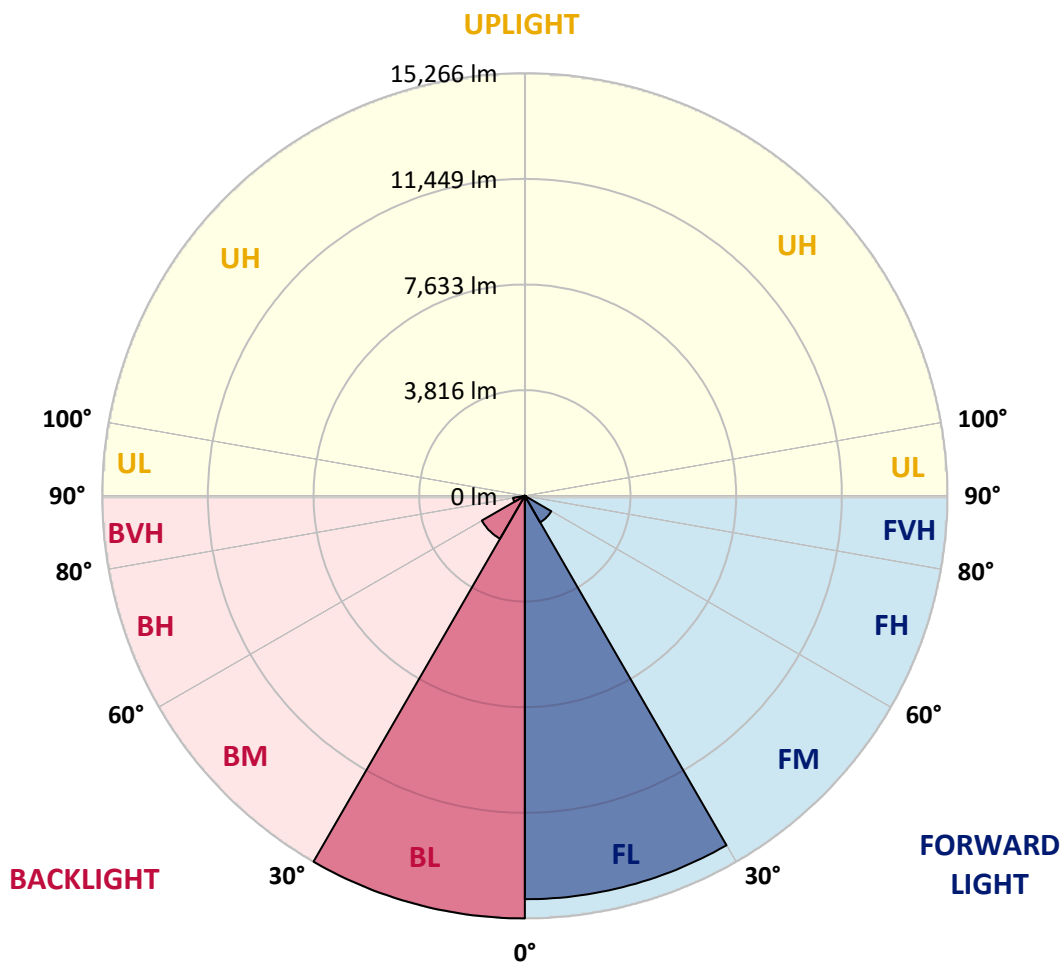


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	14572.2	43.8			
FM (30°-60°)	1103.6	3.3			
FH (60°-80°)	45.0	0.1			G0/660
FVH (80°-90°)	7.2	0.0			G0/10
BL (0°-30°)	15265.8	45.9	B5		
BM (30°-60°)	1792.6	5.4	B2/2500		
BH (60°-80°)	431.7	1.3	B1/500		G0/660
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-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	117230.3	117230.3	117230.3	117230.3	117230.3	117230.3	117230.3	117230.3	117230.3	117230.3
2.5°	113815.3	113878.8	113643.4	114151.6	113755.5	114816.6	114289.8	115111.8	114835.3	115294.9
5°	106043.8	105939.2	105871.9	106660.3	106432.4	107571.9	106843.4	106604.2	107344.0	107209.5
7.5°	94308.1	94584.5	94427.6	94633.1	94748.9	96049.2	96460.2	96138.8	96150.1	96336.9
10°	82277.2	81869.9	81290.8	81675.6	82490.1	83058.0	82830.1	83300.9	83196.3	83640.9
12.5°	67473.9	67795.2	67470.2	67126.4	68550.0	68393.1	68789.1	69046.9	68400.5	69839.0
15°	50824.9	50993.1	51389.1	51363.0	52457.7	52678.2	52625.8	52898.6	52394.2	52633.3
17.5°	32651.6	33219.5	34284.3	36085.2	38110.3	38345.7	38285.9	38061.7	37818.9	37549.9
20°	21932.1	21872.3	22257.2	22784.0	26976.1	28085.8	28052.2	27349.7	26333.5	26139.2
22.5°	15363.7	15475.8	15423.5	15946.5	16813.4	19873.4	19496.0	18782.4	18449.9	18233.2
25°	10106.7	10065.6	10327.1	10484.1	11227.6	11601.2	12923.9	12658.6	12146.7	12202.8
27.5°	6161.2	6213.5	6310.6	6445.1	6971.9	6852.4	7607.1	7708.0	7543.6	7368.0
30°	3781.1	3818.5	3897.0	3994.1	4177.2	4046.4	4255.7	4618.1	4558.3	4435.0
32.5°	2566.8	2570.6	2626.6	2664.0	2641.6	2518.3	2585.5	2929.3	2936.7	2925.5
35°	1845.7	1845.7	1898.0	1927.9	1864.4	1763.5	1774.7	1987.7	2081.1	2099.8
37.5°	1274.1	1277.8	1367.5	1457.2	1386.2	1360.0	1315.2	1457.2	1606.6	1629.0
40°	967.7	964.0	1008.8	1076.1	1083.5	1035.0	1049.9	1139.6	1292.8	1311.4
42.5°	784.6	788.4	810.8	803.3	807.0	870.6	893.0	934.1	1076.1	1109.7
45°	661.3	665.1	676.3	638.9	624.0	721.1	751.0	773.4	893.0	934.1
47.5°	545.5	553.0	564.2	523.1	515.6	579.1	631.4	653.9	758.5	803.3
50°	392.3	399.8	440.9	418.5	440.9	455.8	526.8	560.4	631.4	691.2
52.5°	284.0	291.4	302.6	306.4	362.4	369.9	422.2	474.5	508.1	575.4
55°	224.2	231.7	224.2	216.7	265.3	306.4	325.1	381.1	407.3	485.7
57.5°	127.0	134.5	145.7	168.1	175.6	235.4	254.1	302.6	325.1	399.8
60°	22.4	26.2	41.1	100.9	123.3	149.5	190.6	231.7	261.5	313.8
62.5°	3.7	3.7	7.5	22.4	71.0	104.6	138.2	164.4	190.6	239.1
65°	0.0	0.0	3.7	7.5	18.7	59.8	74.7	97.1	130.8	171.9
67.5°	0.0	0.0	3.7	7.5	11.2	22.4	33.6	59.8	74.7	115.8
70°	0.0	0.0	3.7	7.5	11.2	14.9	18.7	26.2	44.8	71.0
72.5°	0.0	0.0	3.7	7.5	11.2	14.9	18.7	22.4	22.4	44.8
75°	0.0	0.0	3.7	7.5	11.2	18.7	22.4	22.4	18.7	18.7
77.5°	0.0	0.0	3.7	7.5	14.9	22.4	26.2	22.4	14.9	14.9
80°	0.0	0.0	7.5	11.2	18.7	26.2	33.6	26.2	14.9	7.5
82.5°	0.0	0.0	7.5	14.9	18.7	29.9	41.1	33.6	14.9	7.5
85°	0.0	0.0	3.7	11.2	22.4	29.9	41.1	29.9	14.9	3.7
87.5°	0.0	0.0	3.7	3.7	7.5	11.2	22.4	18.7	7.5	3.7
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°
117230.3	0°	117230.3	117230.3	117230.3	117230.3	117230.3	117230.3	117230.3	117230.3	117230.3
114424.3	2.5°	115081.9	115679.7	115803.0	115638.6	115877.7	115448.1	115119.3	114267.4	113755.5
107168.4	5°	107859.6	107770.0	108393.9	108599.4	108573.3	108244.5	107784.9	107269.3	106768.6
95974.4	7.5°	96572.3	96688.1	97256.0	97618.4	97435.3	97024.4	96706.8	96318.2	95981.9
83801.6	10°	84567.5	83771.7	84477.8	84477.8	84967.3	83805.3	83913.7	82934.7	82979.6
69812.8	12.5°	70052.0	70339.7	70455.5	70788.0	70216.4	69599.9	68845.1	68695.7	68228.7
52177.5	15°	52928.5	53750.5	53044.3	54251.1	53668.3	53025.6	52909.8	51751.6	52117.7
37845.0	17.5°	37658.2	38566.1	38850.1	39541.3	39010.8	38629.7	38147.7	37796.5	37770.3
26494.1	20°	26703.4	27615.0	27824.3	28653.7	28593.9	28474.4	28067.1	27622.5	27140.5
18035.1	22.5°	18307.9	19051.4	19746.4	20863.5	20844.8	20493.6	20452.5	19824.8	19836.0
12184.1	25°	12311.1	12852.9	13017.3	14160.6	14287.6	14250.3	14037.3	13454.4	13674.9
7442.7	27.5°	7450.2	7924.7	8481.4	8884.9	9266.0	9206.3	8993.3	8668.2	8526.2
4472.4	30°	4591.9	4804.9	5010.4	5496.1	5724.0	5843.6	5742.7	5440.1	5462.5
2944.2	32.5°	3007.7	3187.1	3336.5	3642.9	3762.5	3982.9	3941.8	3878.3	3803.6
2118.5	35°	2193.2	2324.0	2424.9	2566.8	2720.0	2906.8	2936.7	2910.6	2880.7
1636.5	37.5°	1673.9	1808.4	1924.2	1984.0	2103.5	2249.3	2331.5	2327.7	2305.3
1333.9	40°	1360.0	1460.9	1565.5	1644.0	1726.2	1834.5	1935.4	1946.6	1946.6
1120.9	42.5°	1135.8	1221.8	1326.4	1408.6	1468.4	1569.2	1673.9	1681.3	1673.9
949.0	45°	971.4	1046.2	1147.0	1244.2	1292.8	1367.5	1468.4	1490.8	1475.8
814.5	47.5°	844.4	911.7	997.6	1102.2	1154.5	1221.8	1315.2	1341.3	1337.6
702.4	50°	724.8	803.3	889.2	975.2	1042.4	1105.9	1195.6	1225.5	1214.3
597.8	52.5°	638.9	709.9	784.6	878.0	956.5	1012.5	1083.5	1135.8	1120.9
504.4	55°	534.3	620.2	698.7	777.2	874.3	934.1	1001.3	1064.8	1049.9
425.9	57.5°	463.3	534.3	624.0	695.0	792.1	863.1	930.3	997.6	993.9
347.5	60°	388.6	463.3	549.2	624.0	713.6	792.1	859.3	934.1	941.5
261.5	62.5°	306.4	396.0	470.8	556.7	646.4	732.3	792.1	866.8	878.0
198.0	65°	231.7	325.1	407.3	489.5	579.1	672.5	724.8	788.4	799.6
145.7	67.5°	171.9	250.3	347.5	422.2	515.6	605.3	653.9	706.2	724.8
89.7	70°	130.8	190.6	291.4	362.4	459.6	530.6	582.9	627.7	642.6
59.8	72.5°	82.2	149.5	235.4	310.1	396.0	459.6	496.9	523.1	545.5
33.6	75°	56.0	115.8	190.6	265.3	328.8	377.4	411.0	433.4	452.1
14.9	77.5°	33.6	89.7	156.9	220.4	261.5	298.9	332.5	347.5	358.7
11.2	80°	18.7	67.3	130.8	179.3	205.5	231.7	257.8	276.5	284.0
7.5	82.5°	11.2	52.3	104.6	138.2	149.5	175.6	201.8	213.0	213.0
3.7	85°	7.5	37.4	71.0	100.9	108.4	127.0	134.5	142.0	149.5
3.7	87.5°	7.5	22.4	44.8	56.0	59.8	67.3	71.0	78.5	85.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
117230.3
113378.2
106208.2
94842.3
82542.4
67802.7
51751.6
37075.3
26931.3
19619.3
13327.4
8402.9
5365.3
3777.4
2869.5
2294.1
1924.2
1666.4
1475.8
1330.1
1206.8
1117.2
1057.4
997.6
945.3
885.5
810.8
732.3
650.1
541.8
448.4
354.9
276.5
209.2
145.7
82.2
0.0

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