

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: P638866

Luminaire Tested: **EPH-VN-06-E-930-U-LAM-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638866
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-06-E-930-U-LAM-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (96) 3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24959.2 lumens
Efficiency: N/A
Efficacy: 53.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

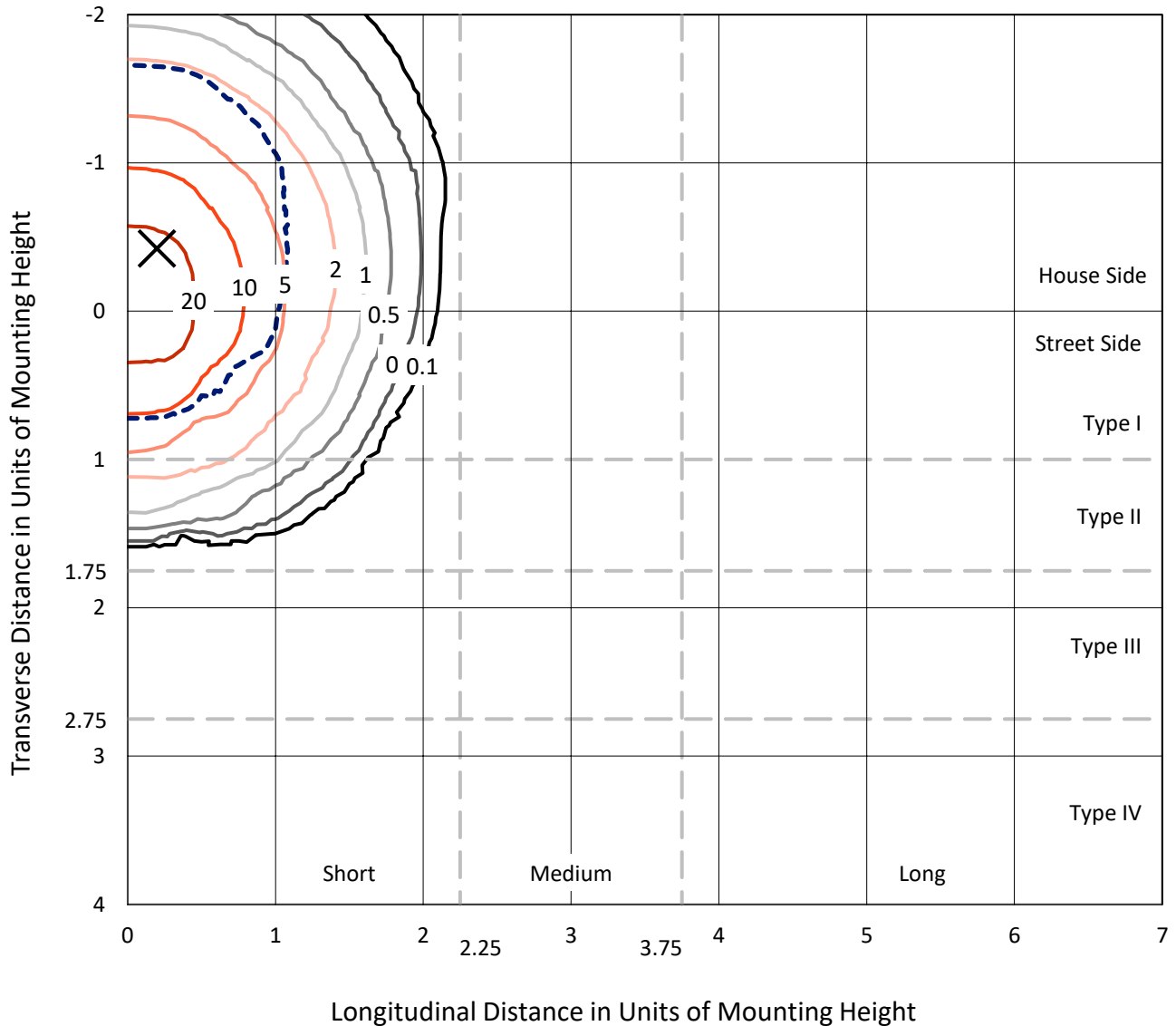
Input Watts (W): 464.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

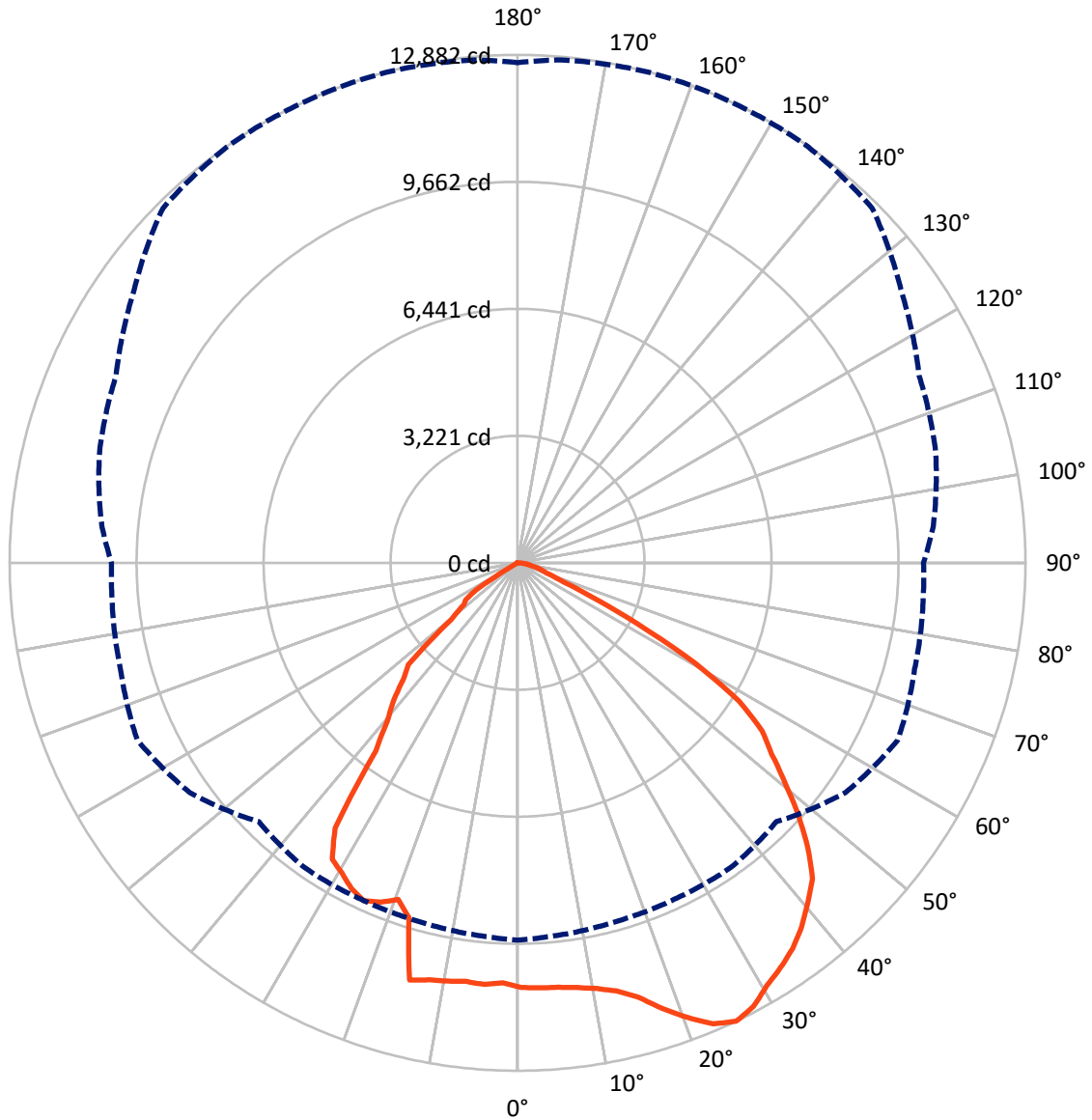
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 26.9 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 25-Deg Vertical

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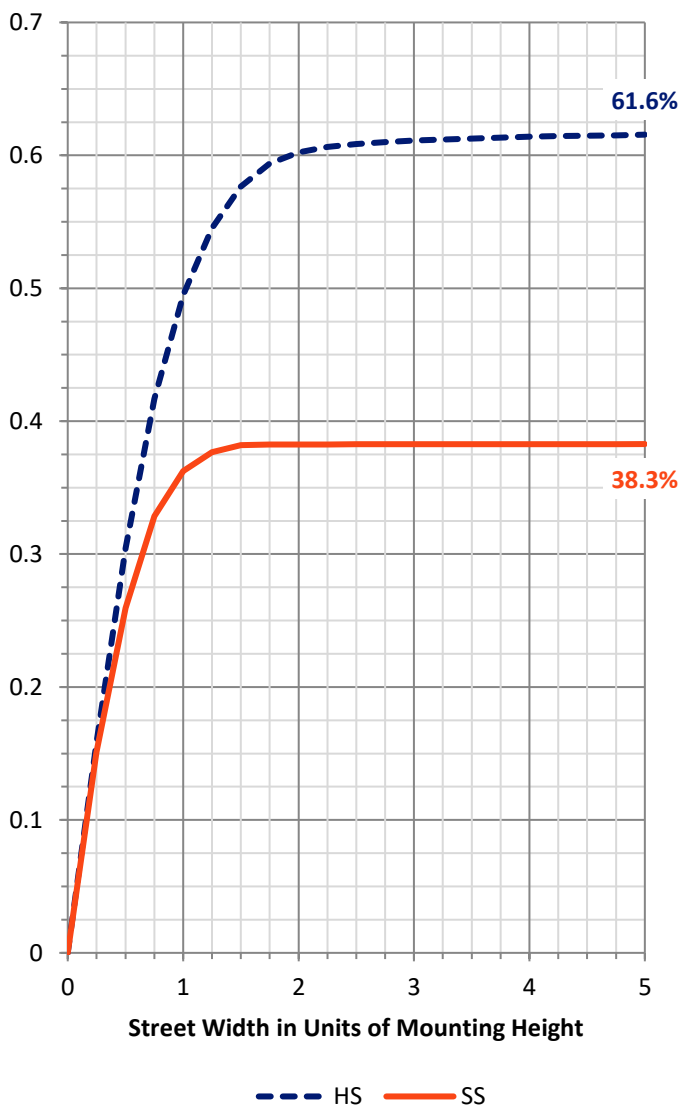
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15452.3	0.0	15452.3
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	9506.9	0.0	9506.9
	% Fixture	38.1	0.0	38.1
Total	Lumens	24959.2	0.0	24959.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1033.2	4.1
10°-20°	3154.8	12.6
20°-30°	4987.5	20.0
30°-40°	5633.9	22.6
40°-50°	5276.2	21.1
50°-60°	3637.6	14.6
60°-70°	977.3	3.9
70°-80°	203.7	0.8
80°-90°	55.1	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°	24959.2	100.0
0°-180°	24959.2	100.0

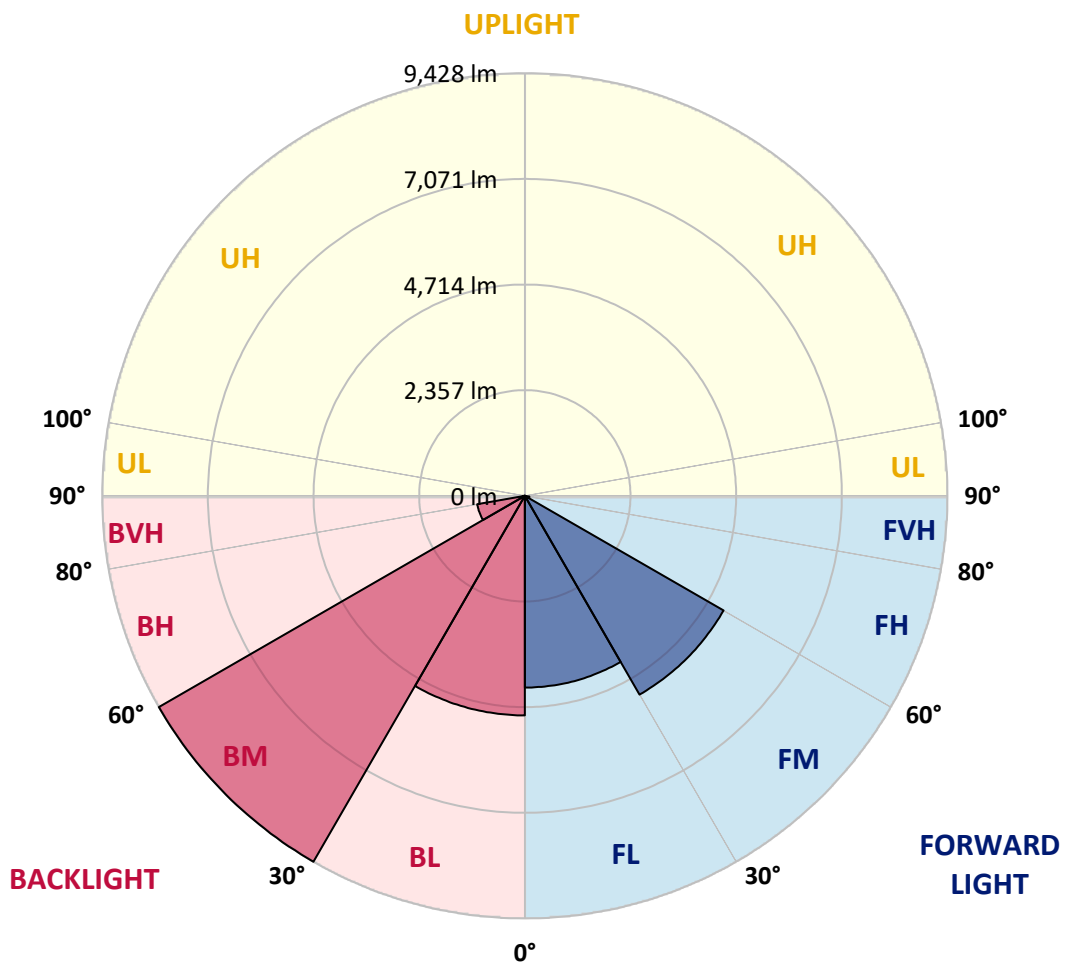


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4277.2	17.1			
FM (30°-60°)	5119.7	20.5			
FH (60°-80°)	102.6	0.4			G0/660
FVH (80°-90°)	7.4	0.0			G0/10
BL (0°-30°)	4898.3	19.6	B4/5000		
BM (30°-60°)	9428.0	37.8	B5		
BH (60°-80°)	1078.4	4.3	B3/2500		G3/2500
BVH (80°-90°)	47.7	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-G3
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10769.5	10769.5	10769.5	10769.5	10769.5	10769.5	10769.5	10769.5	10769.5	10769.5
2.5°	10817.1	10747.5	10681.4	10659.4	10751.1	10850.2	10787.8	10791.5	10769.5	10809.8
5°	10897.8	10802.5	10758.5	10725.4	10740.1	10842.8	10754.8	10787.8	10751.1	10798.8
7.5°	10868.5	10802.5	10758.5	10696.1	10743.8	10864.8	10780.5	10784.1	10765.8	10809.8
10°	10850.2	10802.5	10747.5	10754.8	10809.8	10912.5	10846.5	10883.2	10857.5	10883.2
12.5°	10894.2	10842.8	10813.5	10813.5	10861.2	10978.5	10945.5	10978.5	10967.5	10989.5
15°	10479.7	10527.4	10806.1	10930.9	11026.2	11143.6	11128.9	11161.9	11169.3	11202.3
17.5°	8840.1	8792.4	8770.4	9412.3	11117.9	11481.1	11470.1	11466.4	11429.7	11404.0
20°	9056.5	9038.1	9012.5	9060.1	9250.9	11657.1	11730.5	11279.3	11147.3	11136.3
22.5°	9401.3	9371.9	9276.6	9280.2	9338.9	10134.9	11367.4	10956.5	10912.5	10886.8
25°	9570.0	9511.3	9434.3	9412.3	9430.6	9283.9	10153.2	10641.1	10424.7	10325.6
27.5°	9272.9	9276.6	9214.2	9272.9	9203.2	8542.9	8172.5	10024.8	10017.5	9973.5
30°	9049.1	9038.1	8964.8	9038.1	8557.6	7820.3	7662.6	9349.9	9272.9	9214.2
32.5°	8363.2	8370.5	8583.3	8869.4	8080.8	7497.5	7020.7	8352.2	9082.1	9049.1
35°	5982.6	5997.3	6752.9	8165.1	7358.2	6855.6	6818.9	7218.8	8781.4	8796.0
37.5°	5758.9	5758.9	5740.5	5971.6	6789.6	6595.2	6668.6	6628.2	8044.1	8080.8
40°	5597.5	5564.5	5538.8	5175.7	4720.8	6411.8	6463.1	6279.7	7603.9	7611.3
42.5°	5403.1	5366.4	5373.7	4702.5	4225.6	5957.0	5813.9	5568.1	6870.3	6877.6
45°	5047.3	5109.6	5153.6	4115.6	4078.9	4255.0	5362.7	5208.7	6375.1	6510.8
47.5°	2567.7	2622.7	4023.9	3785.5	3869.8	3781.8	4530.1	4533.7	5304.0	5755.2
50°	2329.2	2314.6	2318.2	2208.2	3572.7	3059.2	3275.6	4155.9	4247.6	4893.2
52.5°	2171.5	2167.8	1944.1	1727.7	2244.9	2692.4	2376.9	3007.8	3158.2	4144.9
55°	1606.6	1724.0	1533.3	1625.0	1404.9	2156.8	2145.8	2714.4	2765.7	3323.3
57.5°	14.7	18.3	44.0	1236.1	972.0	1078.4	1481.9	1852.4	1944.1	2589.7
60°	3.7	7.3	18.3	36.7	630.9	663.9	990.4	1071.1	1206.8	1544.3
62.5°	0.0	0.0	7.3	18.3	33.0	271.4	315.5	344.8	531.9	788.6
65°	0.0	0.0	3.7	11.0	18.3	44.0	77.0	161.4	231.1	286.1
67.5°	0.0	0.0	3.7	7.3	14.7	22.0	44.0	62.4	99.0	168.7
70°	0.0	0.0	3.7	7.3	11.0	18.3	29.3	44.0	58.7	84.4
72.5°	0.0	0.0	3.7	7.3	7.3	22.0	22.0	33.0	44.0	55.0
75°	0.0	0.0	3.7	3.7	7.3	14.7	22.0	25.7	29.3	44.0
77.5°	0.0	0.0	3.7	7.3	11.0	14.7	18.3	29.3	25.7	25.7
80°	0.0	0.0	3.7	11.0	11.0	18.3	22.0	29.3	18.3	18.3
82.5°	0.0	0.0	3.7	14.7	11.0	36.7	36.7	40.3	14.7	14.7
85°	0.0	0.0	11.0	7.3	22.0	36.7	33.0	22.0	18.3	11.0
87.5°	0.0	0.0	3.7	3.7	7.3	11.0	25.7	22.0	7.3	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°
10769.5	0°	10769.5	10769.5	10769.5	10769.5	10769.5	10769.5	10769.5	10769.5	10769.5
10703.4	2.5°	10850.2	10802.5	10901.5	10890.5	10842.8	10820.8	10795.1	10773.1	10611.7
10710.8	5°	10853.8	10780.5	10901.5	10879.5	10872.2	10835.5	10813.5	10846.5	10699.8
10740.1	7.5°	10853.8	10780.5	10912.5	10919.9	10908.9	10879.5	10875.8	10897.8	10776.8
10791.5	10°	10927.2	10897.8	11007.9	11018.9	11004.2	10996.9	10978.5	10963.9	10835.5
10967.5	12.5°	11081.2	11022.6	11147.3	11180.3	11169.3	11187.6	11143.6	11165.6	11033.6
11147.3	15°	11268.3	11272.0	11367.4	11440.7	11433.4	11492.1	11426.0	11484.7	11389.4
11352.7	17.5°	11554.4	11594.8	11730.5	11840.5	11880.9	11924.9	11880.9	11899.2	11763.5
11125.3	20°	11253.6	11404.0	12057.0	12258.7	12343.1	12383.4	12310.1	12332.1	12196.3
10846.5	22.5°	10982.2	11176.6	11756.2	12387.1	12647.5	12728.2	12702.5	12698.9	12647.5
10296.3	25°	10582.4	10974.9	11235.3	11902.9	12720.9	12867.6	12882.3	12878.6	12801.6
9958.8	27.5°	10090.9	10178.9	10853.8	11261.0	12207.3	12764.9	12742.9	12636.5	12533.8
9258.2	30°	9463.6	9863.4	10167.9	10817.1	11543.4	12449.4	12449.4	12368.7	12262.4
9008.8	32.5°	9144.5	9661.7	9944.1	10178.9	10798.8	12097.3	12244.0	12159.7	12075.3
8814.4	35°	8975.8	9052.8	9713.1	9925.8	10450.3	11418.7	12012.9	11928.6	11866.2
8297.2	37.5°	8605.3	8785.0	9093.2	9661.7	9823.1	10864.8	11704.8	11660.8	11587.4
7625.9	40°	7780.0	8260.5	8733.7	9272.9	9441.6	10153.2	11330.7	11349.0	11250.0
6910.7	42.5°	7292.1	7618.6	8359.5	8722.7	9177.5	9694.7	10967.5	10996.9	10927.2
6547.5	45°	6719.9	7083.0	7603.9	8264.2	8884.1	9063.8	10325.6	10633.7	10575.1
5824.9	47.5°	6195.4	6488.8	7127.1	7794.7	8480.6	8454.9	9588.3	10167.9	10087.2
5271.0	50°	5450.8	5964.3	6265.1	6877.6	7901.0	7970.7	8803.4	9621.4	9555.3
4478.7	52.5°	4596.1	5241.7	5817.6	6378.8	7314.1	7479.2	8073.4	9063.8	9019.8
3422.3	55°	4016.5	4486.1	5135.3	5586.5	6602.5	7042.7	7526.9	8531.9	8509.9
2813.4	57.5°	2857.4	3763.4	4299.0	4929.9	5465.4	6261.4	6620.9	7449.9	7244.4
1558.9	60°	1936.7	2362.2	3015.2	3693.7	4053.2	4849.2	5183.0	5846.9	5791.9
931.7	62.5°	1023.4	1415.9	1881.7	2222.9	2483.3	3257.2	3396.6	4111.9	4093.6
374.1	65°	451.2	597.9	1019.7	1195.8	1463.6	1823.0	1944.1	2200.8	2138.5
183.4	67.5°	234.8	355.8	575.9	707.9	891.3	1027.1	1126.1	1206.8	1258.1
121.0	70°	143.1	260.4	355.8	491.5	612.6	722.6	799.6	909.7	975.7
62.4	72.5°	106.4	165.1	245.8	377.8	443.8	572.2	649.2	729.9	788.6
51.4	75°	58.7	110.0	198.1	297.1	355.8	465.8	535.5	590.6	608.9
29.3	77.5°	36.7	84.4	165.1	231.1	278.8	377.8	359.5	410.8	454.8
22.0	80°	25.7	62.4	128.4	190.7	194.4	242.1	286.1	330.1	359.5
14.7	82.5°	18.3	51.4	95.4	146.7	128.4	187.1	223.8	256.8	187.1
11.0	85°	14.7	36.7	47.7	88.0	73.4	132.1	113.7	110.0	73.4
7.3	87.5°	11.0	18.3	33.0	40.3	29.3	29.3	36.7	44.0	36.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
10769.5
10501.7
10575.1
10637.4
10729.1
10916.2
11231.6
11646.1
12101.0
12482.5
12684.2
12453.1
12222.0
12005.6
11778.2
11514.1
11228.0
10919.9
10582.4
10145.9
9566.3
9049.1
8535.6
7222.4
5795.6
4097.2
2112.8
1258.1
979.4
799.6
597.9
462.2
363.1
135.7
73.4
36.7
0.0

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