

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: P638811

Luminaire Tested: **EPH-VN-04-E-930-U-77-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638811
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-77-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 7 distribution lens and Visor
Light Source: (64) 3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17217.2 lumens
Efficiency: N/A
Efficacy: 56.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

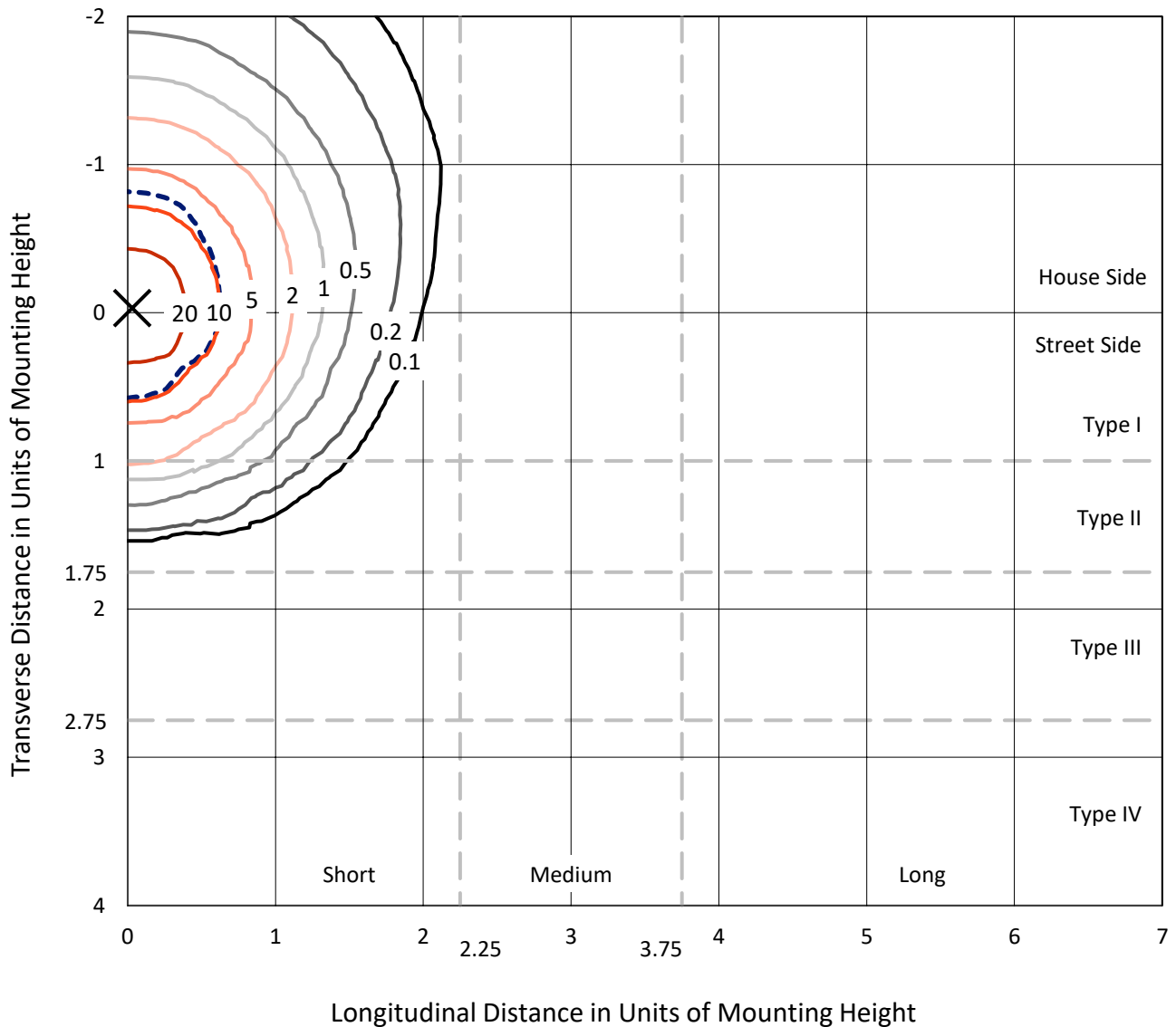
Input Watts (W): 303.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

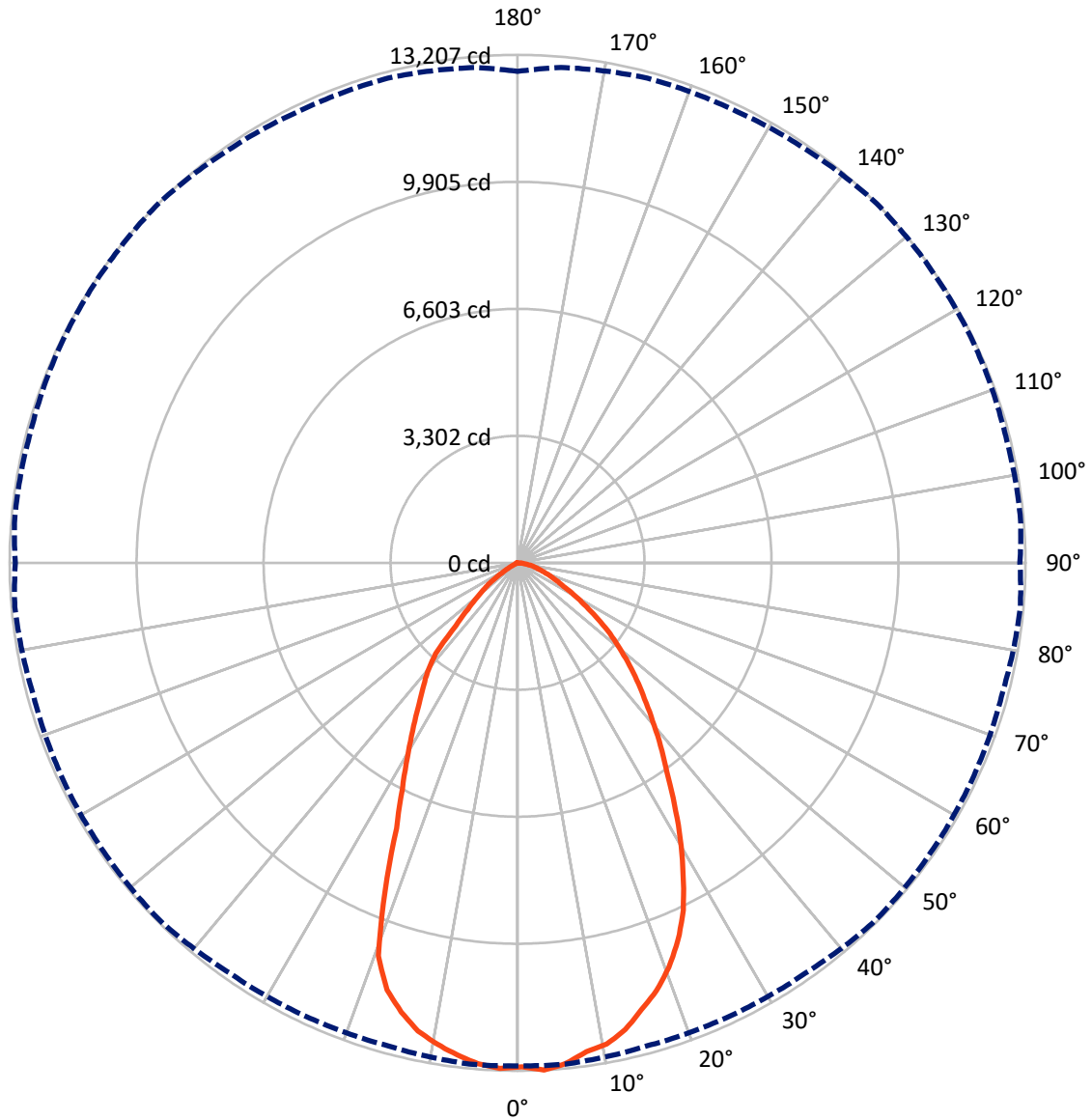
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 32.8 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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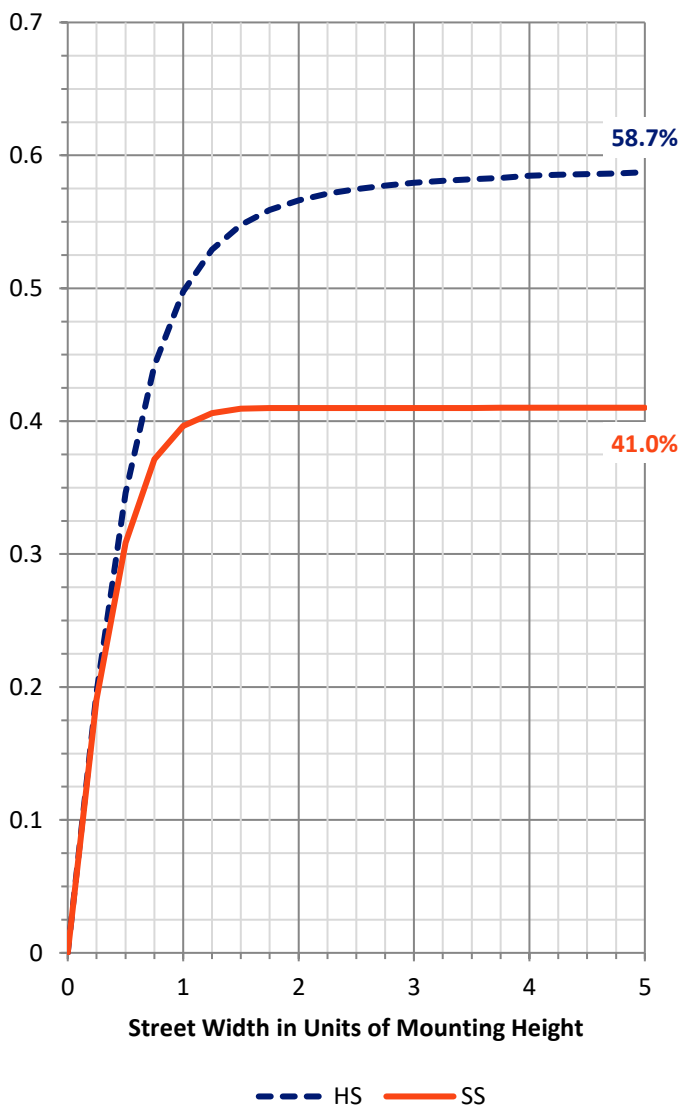
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10196.9	0.0	10196.9
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	7020.3	0.0	7020.3
	% Fixture	40.8	0.0	40.8
Total	Lumens	17217.2	0.0	17217.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1228.8	7.1
10°-20°	3295.1	19.1
20°-30°	4018.5	23.3
30°-40°	3668.9	21.3
40°-50°	2651.4	15.4
50°-60°	1447.7	8.4
60°-70°	598.6	3.5
70°-80°	242.4	1.4
80°-90°	65.9	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°	17217.2	100.0
0°-180°	17217.2	100.0

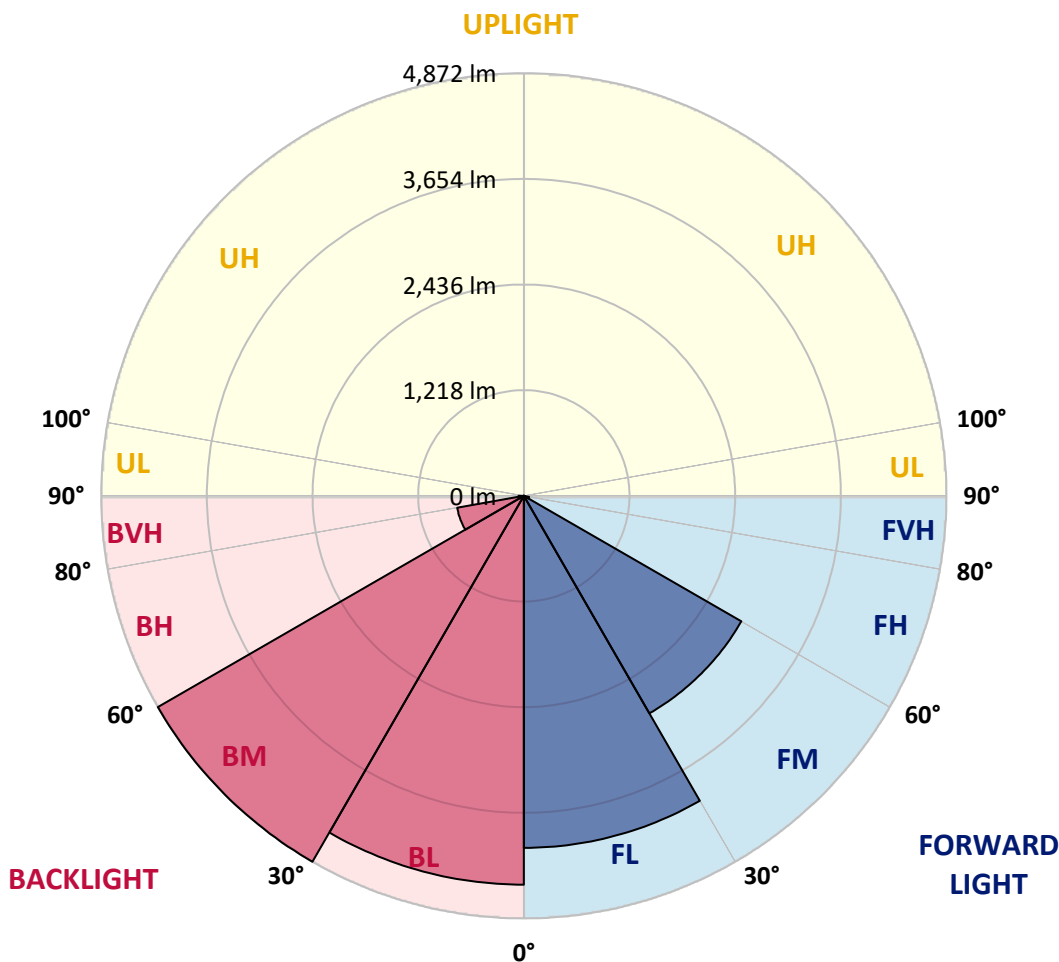


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4058.7	23.6			
FM (30°-60°)	2895.6	16.8			
FH (60°-80°)	60.7	0.4			G0/660
FVH (80°-90°)	5.3	0.0			G0/10
BL (0°-30°)	4483.6	26.0	B4/5000		
BM (30°-60°)	4872.3	28.3	B3/5000		
BH (60°-80°)	780.3	4.5	B2/1000		G2/1000
BVH (80°-90°)	60.7	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13102.3	13102.3	13102.3	13102.3	13102.3	13102.3	13102.3	13102.3	13102.3	13102.3
2.5°	13078.0	13095.0	13002.9	13012.6	13029.5	13153.2	13121.7	13092.6	13051.4	13121.7
5°	13061.1	13070.8	12973.8	12939.8	12954.4	13065.9	12964.1	12964.1	12954.4	12942.3
7.5°	12930.1	12935.0	12859.8	12799.2	12838.0	12888.9	12813.8	12850.1	12796.8	12838.0
10°	12733.7	12702.2	12612.5	12595.5	12639.2	12687.7	12636.8	12670.7	12622.2	12653.7
12.5°	12445.2	12396.7	12324.0	12302.2	12377.3	12442.8	12401.6	12382.2	12319.1	12396.7
15°	11332.4	11296.0	11460.9	11749.4	12008.8	12064.6	12020.9	12040.3	11909.4	11931.2
17.5°	9327.3	9259.4	9436.4	10120.1	11094.8	11608.8	11570.0	11443.9	11249.9	11293.6
20°	8476.2	8456.8	8437.4	8599.9	9281.2	10840.2	10893.5	10573.5	10297.1	10236.5
22.5°	7996.2	7988.9	7969.5	8005.9	8185.3	9186.6	9797.6	9501.8	9317.6	9300.6
25°	7557.3	7545.2	7487.0	7533.1	7533.1	7591.3	8374.4	8553.8	8391.4	8372.0
27.5°	7111.2	7089.4	7079.7	7101.5	6990.0	6597.2	6796.0	7671.3	7586.4	7591.3
30°	6628.7	6621.5	6594.8	6640.8	6296.6	5809.2	5683.2	6871.2	6888.2	6883.3
32.5°	5911.1	5942.6	6063.8	6114.7	5547.4	5144.9	4934.0	5945.0	6291.7	6284.4
35°	4293.9	4293.9	4689.1	5423.7	4861.2	4558.2	4444.2	5040.6	5702.5	5726.8
37.5°	3530.1	3542.3	3619.9	3954.4	4194.5	4087.8	4053.9	4243.0	4946.1	4984.9
40°	3176.2	3176.2	3176.2	3038.0	3030.7	3682.9	3663.5	3602.9	4272.1	4356.9
42.5°	2853.7	2861.0	2865.8	2516.7	2322.7	3183.4	3139.8	3047.7	3668.3	3767.8
45°	2521.5	2533.7	2548.2	2104.5	2019.7	2291.2	2657.3	2555.5	3071.9	3200.4
47.5°	1539.6	1559.0	1888.7	1784.5	1794.2	1767.5	2167.5	2150.6	2519.1	2701.0
50°	1040.1	1047.4	1078.9	1132.3	1539.6	1389.3	1534.7	1779.6	1913.0	2189.4
52.5°	872.8	885.0	807.4	734.6	1011.0	1086.2	1071.7	1321.4	1374.7	1716.6
55°	613.4	652.2	615.8	608.6	574.6	843.7	812.2	1015.9	1049.8	1304.4
57.5°	63.0	72.7	126.1	453.4	375.8	477.6	579.5	744.3	778.3	962.5
60°	4.8	4.8	12.1	63.0	274.0	286.1	400.1	458.2	523.7	671.6
62.5°	0.0	2.4	4.8	9.7	43.6	152.7	201.2	240.0	315.2	434.0
65°	0.0	0.0	2.4	7.3	9.7	58.2	77.6	126.1	172.1	269.1
67.5°	0.0	0.0	2.4	4.8	7.3	14.5	26.7	46.1	92.1	152.7
70°	0.0	0.0	2.4	4.8	7.3	12.1	19.4	29.1	41.2	82.4
72.5°	0.0	0.0	2.4	2.4	4.8	12.1	14.5	19.4	29.1	41.2
75°	0.0	0.0	2.4	2.4	7.3	14.5	12.1	14.5	19.4	26.7
77.5°	0.0	0.0	2.4	4.8	7.3	14.5	12.1	14.5	14.5	17.0
80°	0.0	0.0	2.4	4.8	9.7	17.0	14.5	14.5	12.1	12.1
82.5°	0.0	0.0	2.4	7.3	9.7	21.8	21.8	19.4	9.7	7.3
85°	0.0	0.0	4.8	9.7	14.5	24.2	24.2	19.4	7.3	4.8
87.5°	0.0	0.0	4.8	7.3	12.1	17.0	24.2	19.4	7.3	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°
13102.3	0°	13102.3	13102.3	13102.3	13102.3	13102.3	13102.3	13102.3	13102.3	13102.3
13061.1	2.5°	13126.5	13112.0	13160.5	13179.9	13206.5	13104.7	13041.7	13044.1	12927.7
12913.2	5°	12990.8	12993.2	13056.2	13051.4	13078.0	13022.3	12998.0	12956.8	12855.0
12726.5	7.5°	12818.6	12796.8	12857.4	12903.5	12835.6	12874.4	12818.6	12838.0	12777.4
12561.6	10°	12685.3	12634.3	12690.1	12721.6	12724.0	12685.3	12631.9	12581.0	12559.2
12304.6	12.5°	12389.5	12324.0	12418.6	12462.2	12454.9	12379.8	12319.1	12331.3	12261.0
11853.6	15°	11982.1	11984.6	12052.4	12093.7	12054.9	12037.9	12042.8	12013.7	11953.0
11230.5	17.5°	11359.0	11395.4	11574.8	11674.2	11696.0	11662.1	11645.1	11611.2	11550.6
10236.5	20°	10321.3	10539.5	10859.6	11167.5	11228.1	11218.4	11157.8	11143.2	11109.3
9252.1	22.5°	9409.7	9572.1	9943.1	10423.1	10670.5	10694.7	10622.0	10600.1	10563.8
8372.0	25°	8466.5	8641.1	8975.7	9497.0	10008.6	10112.8	10100.7	10035.2	9996.4
7591.3	27.5°	7671.3	7845.9	8148.9	8619.3	9167.2	9501.8	9533.3	9429.1	9426.7
6895.4	30°	6953.6	7193.6	7424.0	7807.1	8338.0	8839.9	8893.3	8820.5	8827.8
6257.8	32.5°	6391.1	6589.9	6786.3	7043.3	7484.6	8068.9	8277.4	8209.5	8182.9
5726.8	35°	5816.5	5952.3	6153.5	6388.7	6689.3	7268.8	7630.1	7579.2	7552.5
5009.1	37.5°	5161.9	5394.6	5540.1	5804.4	6039.6	6500.2	7009.4	7002.1	6946.3
4398.1	40°	4490.3	4735.2	4955.8	5222.5	5404.3	5770.4	6335.4	6332.9	6340.2
3765.3	42.5°	3881.7	4107.2	4373.9	4664.8	4839.4	5106.1	5712.2	5746.2	5787.4
3244.1	45°	3331.3	3535.0	3782.3	4136.3	4347.2	4500.0	5038.2	5193.4	5191.0
2778.5	47.5°	2836.7	3028.3	3236.8	3581.1	3850.2	3988.4	4434.5	4655.1	4640.6
2279.1	50°	2380.9	2550.6	2768.8	3018.6	3379.8	3501.1	3833.2	4124.2	4102.3
1816.0	52.5°	1915.4	2150.6	2334.8	2562.8	2943.4	3062.2	3319.2	3602.9	3585.9
1362.6	55°	1493.5	1721.4	1944.5	2140.9	2460.9	2637.9	2822.2	3113.1	3108.3
1066.8	57.5°	1129.8	1379.6	1590.5	1777.2	2031.8	2250.0	2397.9	2662.2	2696.1
729.8	60°	836.5	1028.0	1255.9	1464.4	1665.7	1891.2	1990.6	2250.0	2264.5
499.5	62.5°	569.8	780.7	1003.8	1192.9	1343.2	1576.0	1665.7	1879.0	1905.7
320.0	65°	395.2	531.0	785.6	921.3	1105.6	1304.4	1394.1	1563.8	1617.2
184.3	67.5°	261.9	378.2	613.4	737.1	918.9	1054.7	1168.6	1306.8	1365.0
116.4	70°	143.0	278.8	438.8	581.9	739.5	870.4	981.9	1093.5	1144.4
53.3	72.5°	97.0	186.7	305.5	460.7	596.4	724.9	824.3	906.8	909.2
31.5	75°	48.5	126.1	232.8	356.4	465.5	591.6	681.3	729.8	671.6
19.4	77.5°	29.1	92.1	189.1	286.1	378.2	477.6	528.6	555.2	460.7
14.5	80°	17.0	65.5	147.9	227.9	261.9	351.6	400.1	407.3	307.9
9.7	82.5°	12.1	48.5	116.4	167.3	160.0	247.3	300.6	290.9	196.4
7.3	85°	7.3	33.9	72.7	104.3	97.0	162.4	174.6	179.4	114.0
4.8	87.5°	4.8	19.4	38.8	55.8	46.1	70.3	70.3	84.9	55.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
13102.3
12777.4
12830.7
12675.6
12462.2
12200.3
11892.4
11523.9
11031.7
10554.1
9955.2
9421.8
8791.4
8185.3
7516.1
6992.4
6340.2
5765.6
5195.8
4645.4
4121.7
3622.3
3120.4
2681.6
2286.4
1910.5
1605.1
1357.7
1125.0
887.4
628.0
443.7
288.5
181.8
104.3
48.5
0.0

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