

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: P638785

Luminaire Tested: **EPH-VN-08-E-730-U-77-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638785
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-730-U-77-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 7 distribution lens and Visor
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47954.7 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

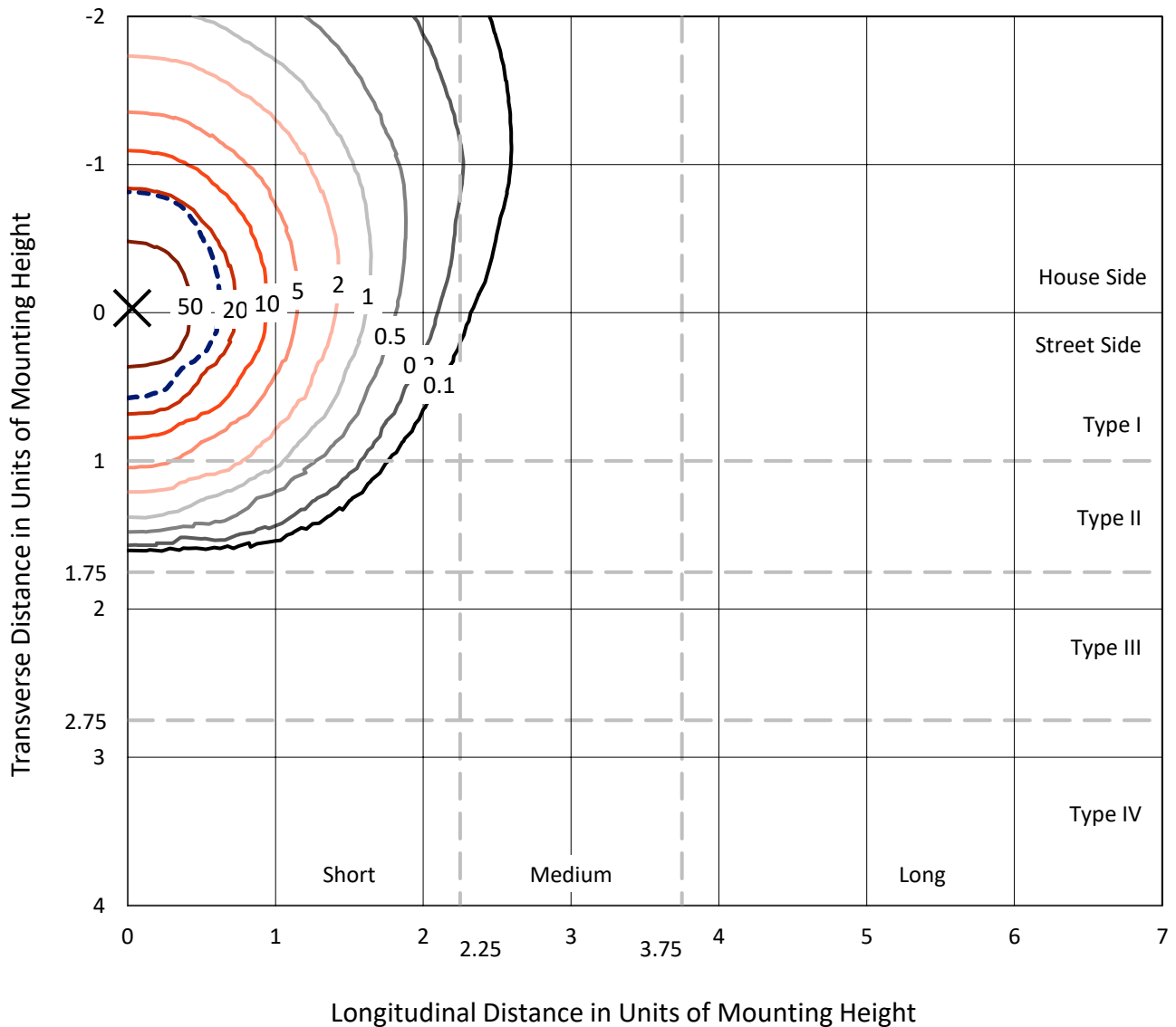
Input Watts (W): 626.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

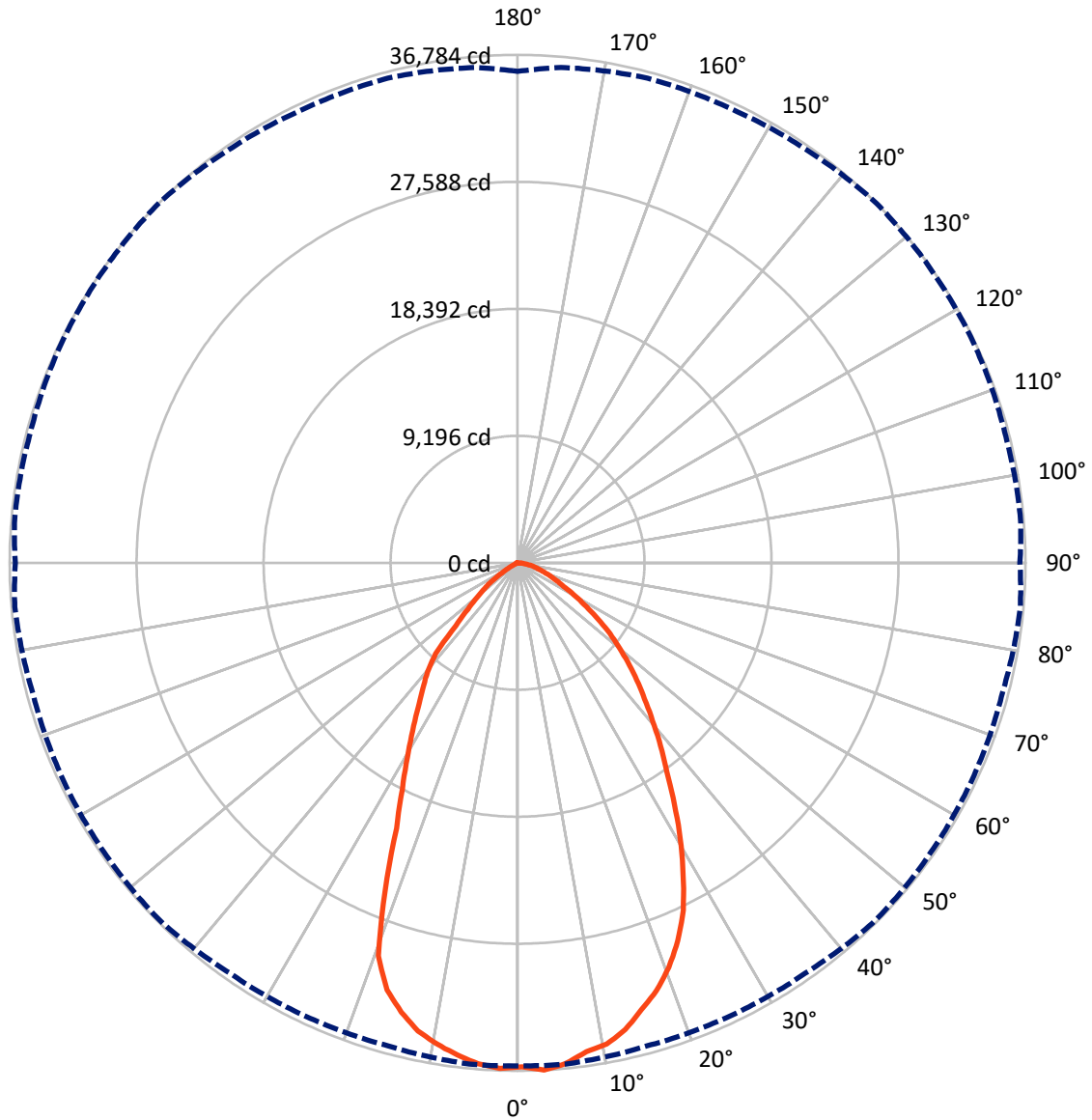
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 91.2 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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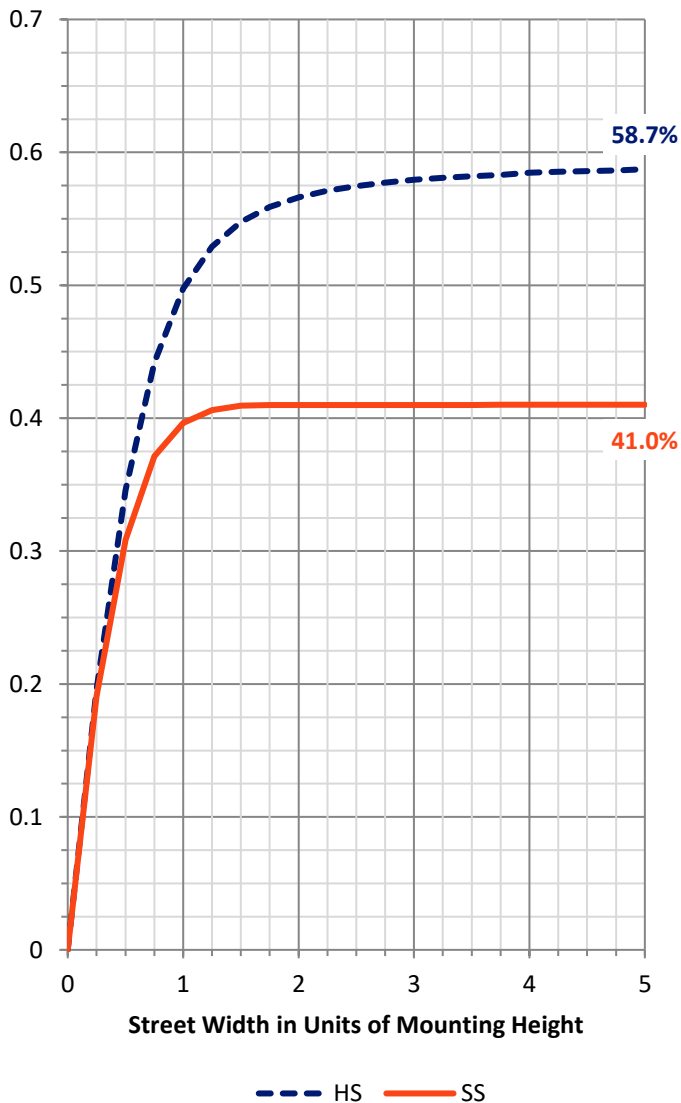
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	28401.2	0.0	28401.2
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	19553.5	0.0	19553.5
	% Fixture	40.8	0.0	40.8
Total	Lumens	47954.7	0.0	47954.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3422.5	7.1
10°-20°	9177.6	19.1
20°-30°	11192.6	23.3
30°-40°	10218.8	21.3
40°-50°	7384.9	15.4
50°-60°	4032.2	8.4
60°-70°	1667.2	3.5
70°-80°	675.2	1.4
80°-90°	183.7	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°	47954.7	100.0
0°-180°	47954.7	100.0

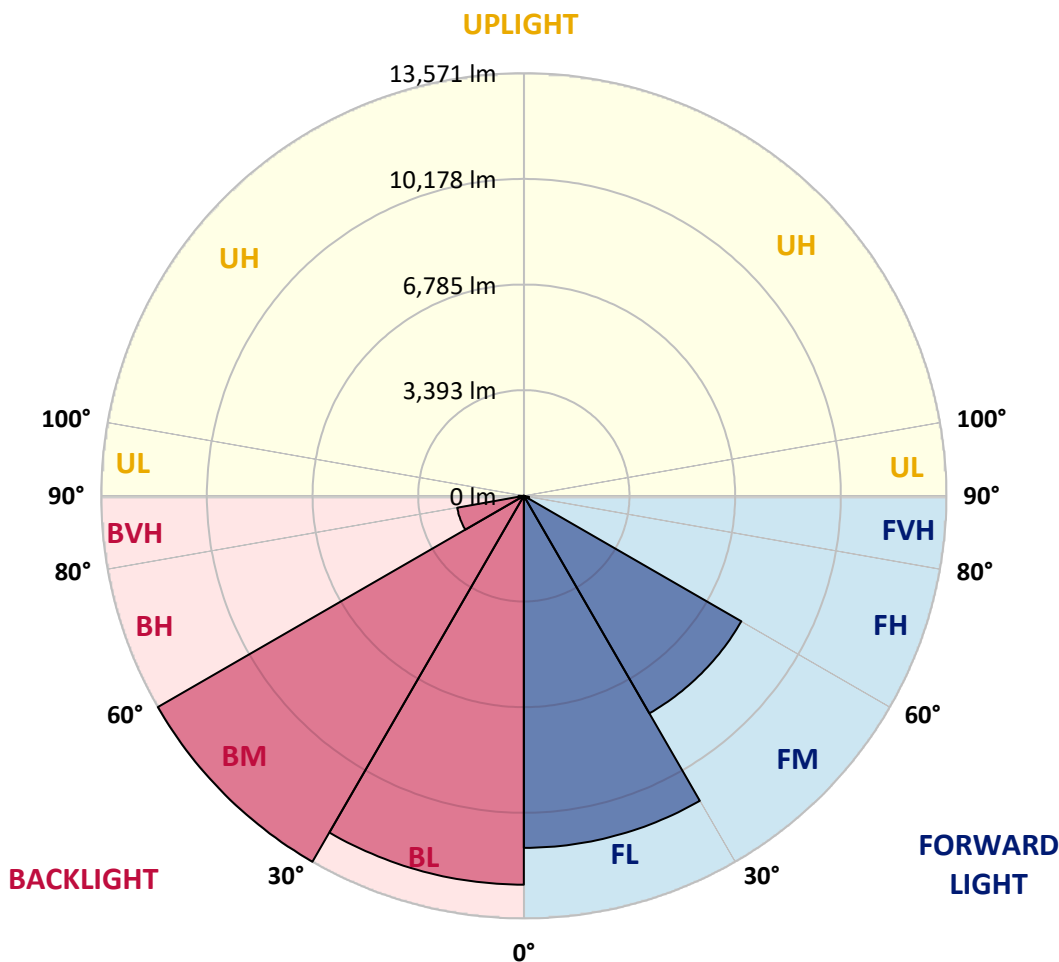


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	11304.7	23.6			
FM (30°-60°)	8065.1	16.8			
FH (60°-80°)	169.0	0.4			G0/660
FVH (80°-90°)	14.7	0.0			G1/100
BL (0°-30°)	12488.1	26.0	B5		
BM (30°-60°)	13570.8	28.3	B5		
BH (60°-80°)	2173.4	4.5	B3/2500		G3/2500
BVH (80°-90°)	169.0	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°	36493.3	36493.3	36493.3	36493.3	36493.3	36493.3	36493.3	36493.3	36493.3	36493.3
2.5°	36425.8	36473.1	36216.5	36243.5	36290.7	36635.1	36547.4	36466.3	36351.5	36547.4
5°	36378.5	36405.5	36135.4	36040.9	36081.4	36392.0	36108.4	36108.4	36081.4	36047.6
7.5°	36013.9	36027.4	35818.0	35649.2	35757.3	35899.1	35689.7	35791.0	35642.4	35757.3
10°	35466.9	35379.1	35129.2	35081.9	35203.5	35338.6	35196.8	35291.3	35156.2	35244.0
12.5°	34663.3	34528.2	34325.6	34264.8	34474.2	34656.5	34541.7	34487.7	34312.1	34528.2
15°	31563.6	31462.3	31921.5	32725.1	33447.7	33603.0	33481.5	33535.5	33170.8	33231.6
17.5°	25978.9	25789.8	26282.8	28187.1	30901.8	32333.5	32225.4	31874.3	31334.0	31455.6
20°	23608.6	23554.5	23500.5	23953.0	25850.6	30192.8	30341.3	29449.9	28680.1	28511.3
22.5°	22271.5	22251.2	22197.2	22298.5	22798.2	25587.2	27289.0	26465.1	25951.9	25904.6
25°	21049.2	21015.4	20853.3	20981.6	20981.6	21143.7	23324.9	23824.7	23372.2	23318.2
27.5°	19806.6	19745.8	19718.8	19779.6	19469.0	18375.0	18928.7	21366.6	21130.2	21143.7
30°	18462.8	18442.5	18368.2	18496.5	17537.6	16180.2	15829.1	19138.1	19185.3	19171.8
32.5°	16463.9	16551.7	16889.3	17031.1	15450.9	14329.9	13742.4	16558.4	17524.1	17503.8
35°	11959.6	11959.6	13060.3	15106.5	13539.8	12695.7	12378.3	14039.5	15883.1	15950.6
37.5°	9832.4	9866.2	10082.3	11014.2	11682.7	11385.6	11291.1	11817.8	13776.2	13884.2
40°	8846.5	8846.5	8846.5	8461.5	8441.3	10257.8	10203.8	10035.0	11898.8	12135.2
42.5°	7948.3	7968.6	7982.1	7009.6	6469.4	8866.7	8745.2	8488.5	10217.3	10494.2
45°	7023.1	7056.9	7097.4	5861.6	5625.3	6381.6	7401.3	7117.7	8556.1	8914.0
47.5°	4288.2	4342.2	5260.6	4970.2	4997.2	4923.0	6037.2	5989.9	7016.4	7522.9
50°	2897.0	2917.3	3005.1	3153.7	4288.2	3869.5	4274.7	4956.7	5328.1	6098.0
52.5°	2431.1	2464.9	2248.8	2046.2	2816.0	3025.4	2984.8	3680.4	3829.0	4781.1
55°	1708.5	1816.6	1715.3	1695.0	1600.5	2350.1	2262.3	2829.5	2924.1	3633.1
57.5°	175.6	202.6	351.2	1262.8	1046.7	1330.3	1614.0	2073.2	2167.7	2680.9
60°	13.5	13.5	33.8	175.6	763.1	796.9	1114.2	1276.3	1458.7	1870.6
62.5°	0.0	6.8	13.5	27.0	121.6	425.4	560.5	668.5	877.9	1208.8
65°	0.0	0.0	6.8	20.3	27.0	162.1	216.1	351.2	479.5	749.6
67.5°	0.0	0.0	6.8	13.5	20.3	40.5	74.3	128.3	256.6	425.4
70°	0.0	0.0	6.8	13.5	20.3	33.8	54.0	81.0	114.8	229.6
72.5°	0.0	0.0	6.8	6.8	13.5	33.8	40.5	54.0	81.0	114.8
75°	0.0	0.0	6.8	6.8	20.3	40.5	33.8	40.5	54.0	74.3
77.5°	0.0	0.0	6.8	13.5	20.3	40.5	33.8	40.5	40.5	47.3
80°	0.0	0.0	6.8	13.5	27.0	47.3	40.5	40.5	33.8	33.8
82.5°	0.0	0.0	6.8	20.3	27.0	60.8	60.8	54.0	27.0	20.3
85°	0.0	0.0	13.5	27.0	40.5	67.5	67.5	54.0	20.3	13.5
87.5°	0.0	0.0	13.5	20.3	33.8	47.3	67.5	54.0	20.3	6.8
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°
36493.3	0°	36493.3	36493.3	36493.3	36493.3	36493.3	36493.3	36493.3	36493.3	36493.3
36378.5	2.5°	36560.9	36520.3	36655.4	36709.4	36783.7	36500.1	36324.5	36331.3	36007.1
35966.6	5°	36182.7	36189.4	36365.0	36351.5	36425.8	36270.5	36203.0	36088.1	35804.5
35446.6	7.5°	35703.2	35642.4	35811.3	35939.6	35750.5	35858.5	35703.2	35757.3	35588.4
34987.4	10°	35331.8	35190.0	35345.3	35433.1	35439.9	35331.8	35183.2	35041.4	34980.7
34271.6	12.5°	34507.9	34325.6	34589.0	34710.5	34690.3	34480.9	34312.1	34345.9	34150.0
33015.5	15°	33373.4	33380.2	33569.3	33684.1	33576.0	33528.8	33542.3	33461.2	33292.4
31280.0	17.5°	31637.9	31739.2	32238.9	32515.8	32576.6	32482.0	32434.8	32340.2	32171.4
28511.3	20°	28747.6	29355.4	30246.8	31104.4	31273.2	31246.2	31077.4	31036.9	30942.3
25769.5	22.5°	26208.5	26660.9	27694.1	29031.2	29720.0	29787.6	29585.0	29524.2	29422.9
23318.2	25°	23581.6	24067.8	24999.7	26451.6	27876.5	28166.9	28133.1	27950.8	27842.7
21143.7	27.5°	21366.6	21852.8	22696.9	24007.0	25533.2	26465.1	26552.9	26262.5	26255.7
19205.6	30°	19367.7	20036.2	20677.8	21744.7	23223.6	24621.5	24770.1	24567.5	24587.8
17429.5	32.5°	17801.0	18354.7	18901.7	19617.5	20846.6	22474.1	23054.8	22865.7	22791.4
15950.6	35°	16200.5	16578.7	17139.2	17794.2	18631.6	20245.6	21251.8	21109.9	21035.7
13951.7	37.5°	14377.2	15025.5	15430.7	16166.7	16821.8	18104.9	19523.0	19502.7	19347.4
12250.0	40°	12506.6	13188.7	13803.2	14546.0	15052.5	16072.2	17645.6	17638.9	17659.2
10487.4	42.5°	10811.6	11439.6	12182.5	12992.8	13479.0	14221.9	15910.1	16004.7	16119.5
9035.5	45°	9278.7	9845.9	10534.7	11520.7	12108.2	12533.6	14032.8	14465.0	14458.2
7739.0	47.5°	7901.0	8434.5	9015.3	9974.2	10723.8	11108.7	12351.3	12965.8	12925.3
6347.8	50°	6631.5	7104.2	7712.0	8407.5	9413.7	9751.4	10676.5	11486.9	11426.1
5058.0	52.5°	5334.9	5989.9	6503.2	7137.9	8198.2	8529.1	9244.9	10035.0	9987.7
3795.2	55°	4159.9	4794.6	5415.9	5962.9	6854.3	7347.3	7860.5	8670.9	8657.4
2971.3	57.5°	3146.9	3842.5	4430.0	4950.0	5659.0	6266.8	6678.7	7414.8	7509.4
2032.7	60°	2329.8	2863.3	3498.1	4078.8	4639.3	5267.4	5544.2	6266.8	6307.3
1391.1	62.5°	1587.0	2174.5	2795.8	3322.5	3741.2	4389.5	4639.3	5233.6	5307.9
891.4	65°	1100.7	1478.9	2188.0	2566.1	3079.4	3633.1	3883.0	4355.7	4504.3
513.2	67.5°	729.3	1053.5	1708.5	2052.9	2559.4	2937.6	3255.0	3639.9	3802.0
324.1	70°	398.4	776.6	1222.3	1620.7	2059.7	2424.3	2735.0	3045.6	3187.4
148.6	72.5°	270.1	520.0	850.9	1283.1	1661.2	2019.2	2296.0	2525.6	2532.4
87.8	75°	135.1	351.2	648.3	992.7	1296.6	1647.7	1897.6	2032.7	1870.6
54.0	77.5°	81.0	256.6	526.7	796.9	1053.5	1330.3	1472.2	1546.4	1283.1
40.5	80°	47.3	182.3	411.9	634.8	729.3	979.2	1114.2	1134.5	857.6
27.0	82.5°	33.8	135.1	324.1	466.0	445.7	688.8	837.4	810.4	547.0
20.3	85°	20.3	94.5	202.6	290.4	270.1	452.5	486.2	499.7	317.4
13.5	87.5°	13.5	54.0	108.0	155.3	128.3	195.8	195.8	236.4	155.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
36493.3
35588.4
35737.0
35304.8
34710.5
33981.2
33123.6
32097.1
30726.2
29395.9
27727.9
26242.2
24486.5
22798.2
20934.4
19475.7
17659.2
16058.7
14471.7
12938.8
11480.1
10089.0
8691.1
7468.8
6368.1
5321.4
4470.5
3781.7
3133.4
2471.6
1749.0
1235.8
803.6
506.5
290.4
135.1
0.0

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