

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: P638741

Luminaire Tested: **EPH-VN-07-E-740-U-66-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638741
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-07-E-740-U-66-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 6 distribution lens and Visor
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47600.5 lumens
Efficiency: N/A
Efficacy: 89.4 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): 532.7
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



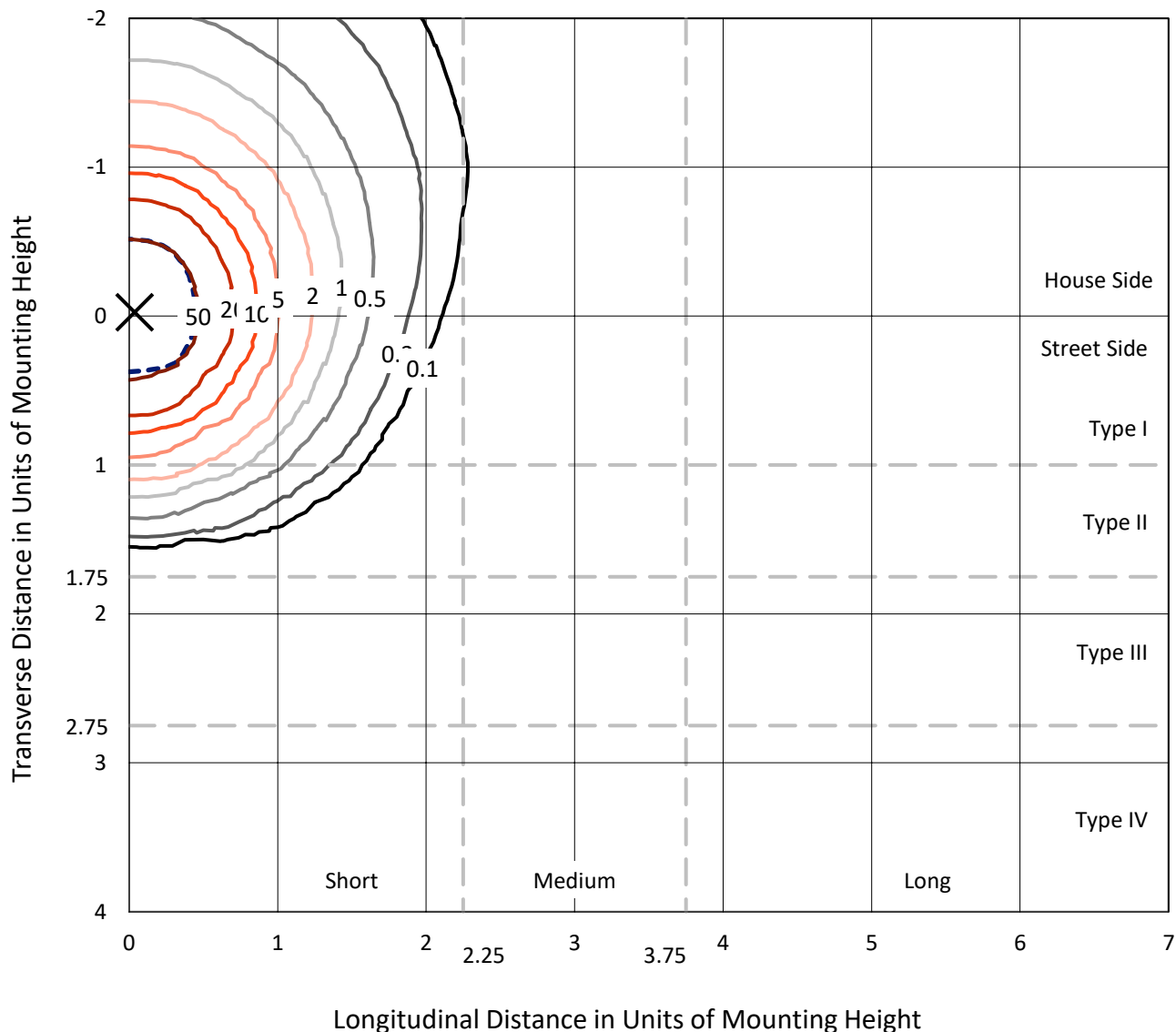
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

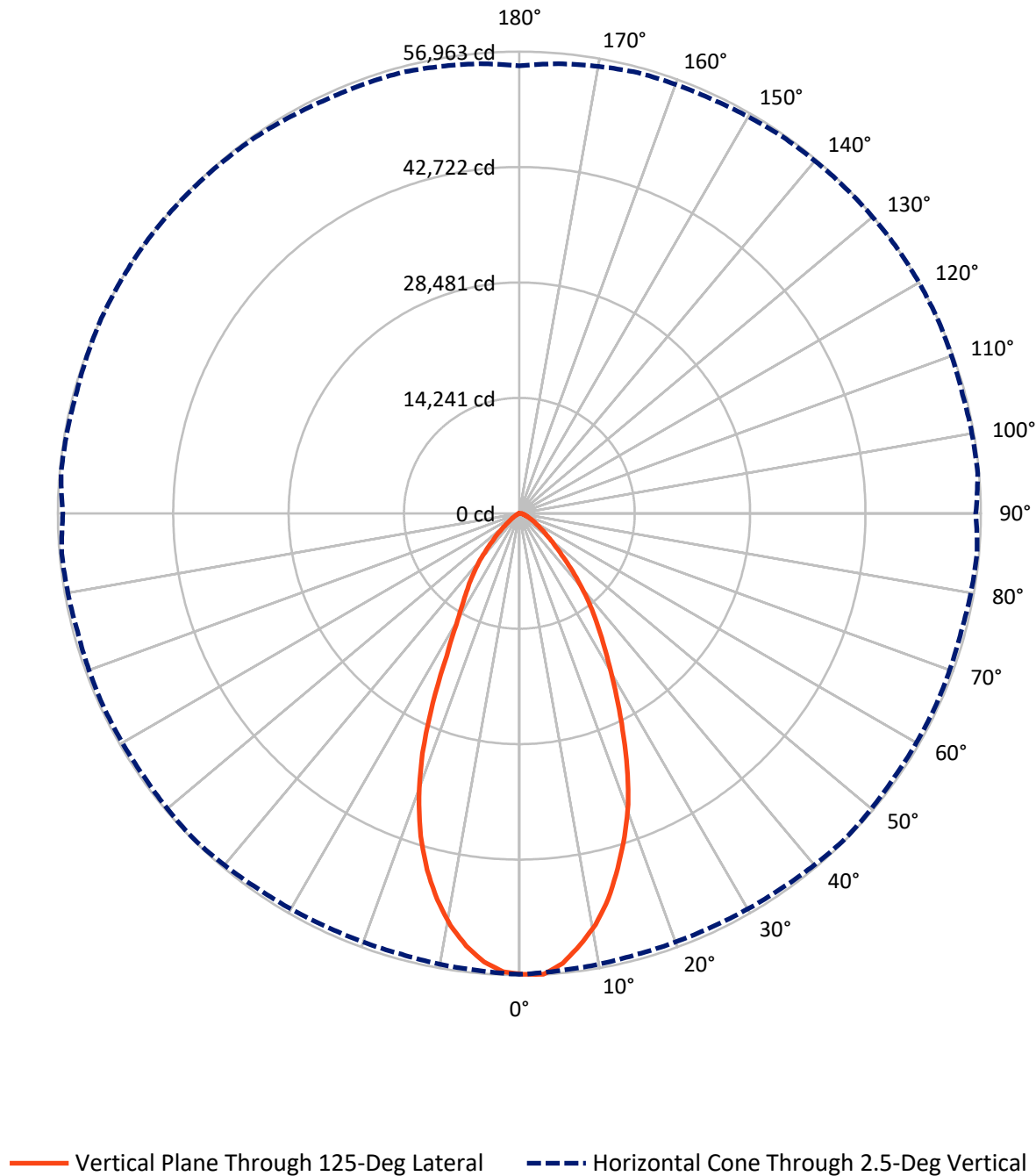


Based on 20 foot mounting height. Maximum calculated value = 142.2 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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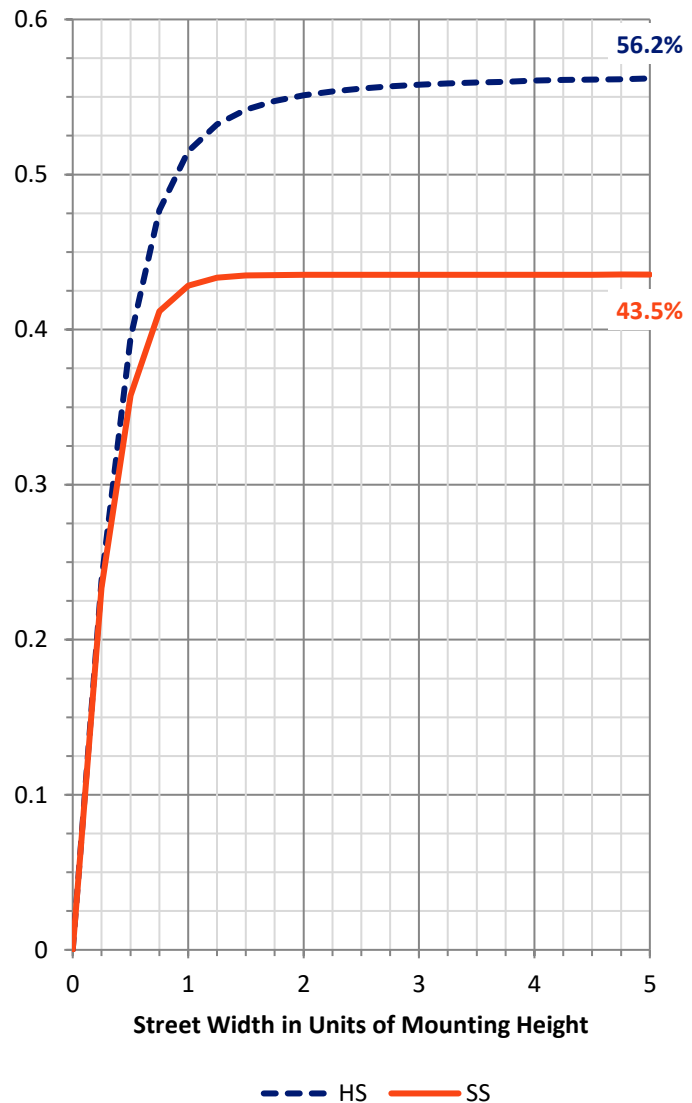
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	27010.4	0.0	27010.4
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	20590.1	0.0	20590.1
	% Fixture	43.3	0.0	43.3
Total	Lumens	47600.5	0.0	47600.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5164.1	10.8
10°-20°	12310.1	25.9
20°-30°	12537.6	26.3
30°-40°	9349.2	19.6
40°-50°	4884.3	10.3
50°-60°	2054.4	4.3
60°-70°	839.0	1.8
70°-80°	353.1	0.7
80°-90°	108.8	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°	47600.5	100.0
0°-180°	47600.5	100.0

Coefficient of Utilization



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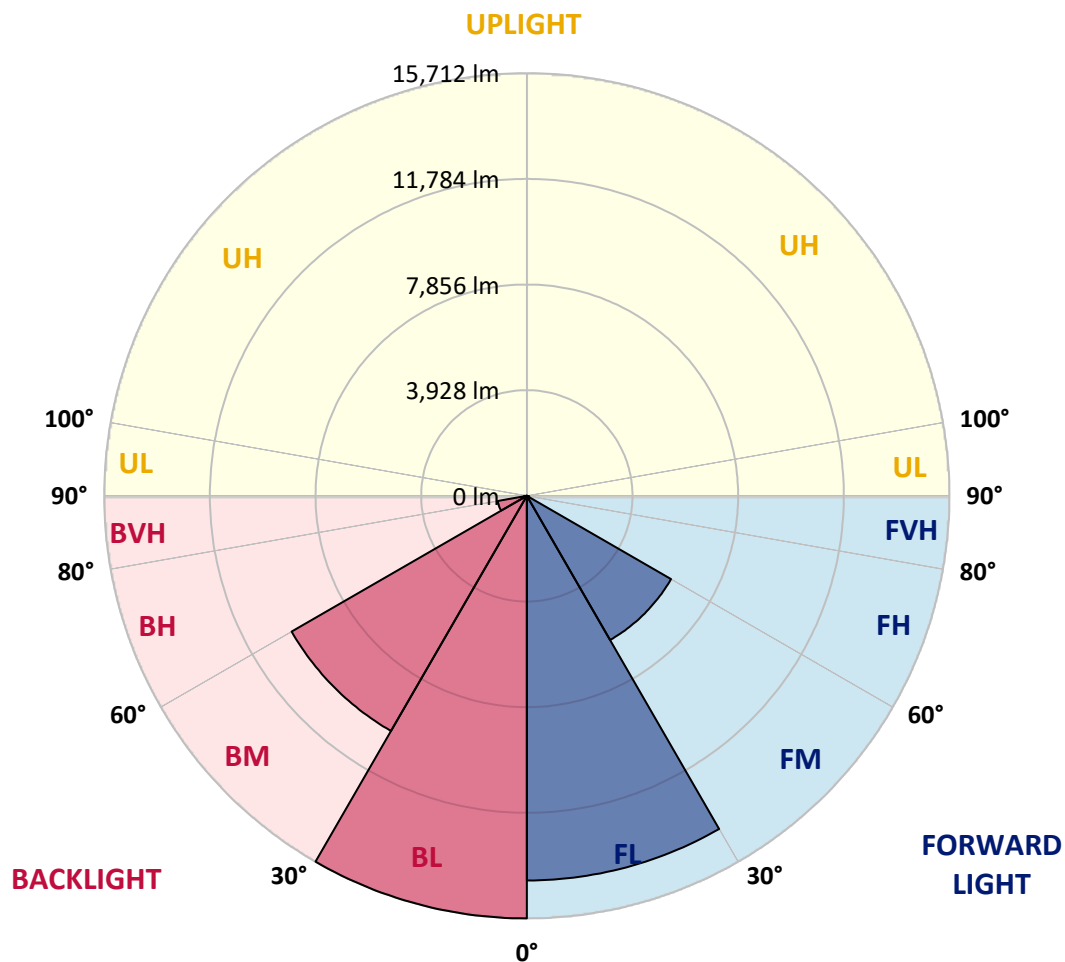
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	14299.8	30.0			
FM	(30°-60°)	6190.6	13.0			
FH	(60°-80°)	89.6	0.2			G0/660
FVH	(80°-90°)	10.1	0.0			G1/100
BL	(0°-30°)	15712.0	33.0	B5		
BM	(30°-60°)	10097.2	21.2	B5		
BH	(60°-80°)	1102.5	2.3	B3/2500		G3/2500
BVH	(80°-90°)	98.7	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°	56871.1	56871.1	56871.1	56871.1	56871.1	56871.1	56871.1	56871.1	56871.1	56871.1
2.5°	56877.2	56644.9	56314.7	56284.1	56455.3	56828.3	56589.9	56602.1	56455.3	56706.0
5°	55984.5	55764.4	55538.2	55238.6	55489.2	55648.2	55525.9	55391.4	55201.9	55446.4
7.5°	54296.9	54174.6	53838.3	53703.8	53856.7	54034.0	53771.1	53734.4	53471.5	53789.4
10°	51716.6	51667.7	51337.5	51258.0	51392.5	51661.6	51545.4	51520.9	51355.8	51325.3
12.5°	49038.4	48848.9	48439.2	48414.8	48616.5	49020.1	48708.2	48408.6	48500.4	48579.8
15°	42141.3	41939.5	42954.5	44550.4	45388.1	45357.5	45449.2	45088.5	44978.4	45015.1
17.5°	33501.4	33159.0	33525.9	35996.2	39976.7	42288.0	41652.1	40875.5	40459.8	40184.6
20°	28915.6	28933.9	28866.6	29502.5	31985.0	37255.8	37102.9	35604.8	35060.6	34834.4
22.5°	26127.3	26023.4	25876.6	26078.4	26744.9	29838.8	31911.7	30535.9	30346.4	30095.7
25°	23394.1	23394.1	23216.8	23418.6	23608.2	23651.0	25729.9	26292.4	25925.6	25925.6
27.5°	21027.8	20905.5	20826.0	20917.8	20667.1	19462.5	19725.4	22605.4	22354.7	22201.8
30°	18679.9	18643.2	18508.6	18630.9	17701.5	16344.1	15793.8	19077.3	19340.2	19285.2
32.5°	15420.8	15567.6	16166.8	16356.3	14766.6	13672.1	13146.2	15836.6	16888.3	16845.5
35°	10480.3	10602.6	11287.4	13549.8	12241.3	11458.6	11305.7	12595.9	14326.3	14491.4
37.5°	8346.3	8328.0	8523.6	8927.2	9838.3	9648.7	9605.9	9942.2	11684.8	11758.2
40°	6878.8	6854.4	6848.3	6518.1	6291.8	8022.2	7906.1	7704.3	9214.6	9361.3
42.5°	5545.9	5570.3	5588.7	4867.2	4537.0	6187.9	6120.6	5912.7	7227.4	7398.6
45°	4353.5	4347.4	4384.1	3625.9	3534.2	3956.1	4573.7	4408.6	5454.1	5637.6
47.5°	2256.3	2335.7	2831.0	2806.6	2849.4	2806.6	3460.8	3418.0	4102.8	4396.3
50°	1516.4	1540.9	1583.7	1589.8	2244.0	2066.7	2348.0	2659.8	2873.8	3326.3
52.5°	1174.0	1192.3	1082.3	1015.0	1375.8	1528.6	1540.9	1840.5	2005.6	2464.2
55°	654.3	733.7	788.8	794.9	758.2	1131.2	1125.1	1363.5	1491.9	1797.7
57.5°	85.6	103.9	159.0	513.6	507.5	629.8	788.8	990.6	1063.9	1314.6
60°	6.1	12.2	18.3	79.5	336.3	366.9	538.1	617.6	739.9	923.3
62.5°	0.0	0.0	6.1	18.3	67.3	214.0	281.3	324.1	434.1	605.3
65°	0.0	0.0	6.1	12.2	24.5	79.5	110.1	177.3	256.8	373.0
67.5°	0.0	0.0	6.1	12.2	18.3	30.6	48.9	79.5	134.5	226.2
70°	0.0	0.0	6.1	12.2	18.3	24.5	36.7	48.9	73.4	122.3
72.5°	0.0	0.0	6.1	6.1	12.2	30.6	30.6	36.7	48.9	67.3
75°	0.0	0.0	6.1	12.2	18.3	30.6	30.6	30.6	36.7	42.8
77.5°	0.0	0.0	6.1	12.2	18.3	30.6	24.5	30.6	30.6	30.6
80°	0.0	0.0	6.1	12.2	18.3	30.6	36.7	30.6	24.5	24.5
82.5°	0.0	0.0	6.1	18.3	18.3	42.8	42.8	42.8	18.3	18.3
85°	0.0	0.0	12.2	18.3	30.6	48.9	48.9	36.7	18.3	12.2
87.5°	0.0	0.0	6.1	12.2	12.2	24.5	36.7	30.6	12.2	6.1
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°
56871.1	0°	56871.1	56871.1	56871.1	56871.1	56871.1	56871.1	56871.1	56871.1	56871.1
56339.2	2.5°	56791.6	56638.8	56926.2	56962.8	56840.6	56687.7	56333.1	56302.5	55684.9
55091.8	5°	55715.5	55464.8	55648.2	55770.5	55727.7	55562.6	55415.9	55281.4	54724.9
53067.9	7.5°	53709.9	53618.2	53703.8	53795.5	53972.8	53795.5	53734.4	53593.7	53043.4
51074.6	10°	51484.2	51313.0	51637.1	51594.3	51545.4	51496.5	51239.7	51264.1	50616.0
48359.7	12.5°	48751.0	48463.7	48775.5	48812.2	48775.5	48604.3	48316.9	48439.2	47846.1
44691.0	15°	45076.2	45045.7	45271.9	45418.6	45522.6	45339.1	45241.3	45302.5	44947.8
39970.6	17.5°	40563.7	40961.2	41701.0	41951.7	41957.8	42147.4	42092.3	42019.0	41756.0
34742.7	20°	35256.3	36020.6	37157.9	38325.8	38662.1	38503.1	38429.7	38564.3	38172.9
29832.7	22.5°	30358.6	31012.8	32333.6	34039.5	35024.0	35121.8	35103.4	34987.3	34834.4
25901.1	25°	26200.7	26781.6	28047.3	29606.5	31495.9	31777.1	31789.4	31752.7	31618.2
22336.3	27.5°	22691.0	23394.1	24091.2	25485.3	27497.0	28658.7	28512.0	28469.2	28420.3
19328.0	30°	19511.4	20398.0	21052.3	21920.5	23724.3	25295.8	25448.6	25375.2	25259.1
16839.4	32.5°	16992.2	17518.1	18349.7	18936.7	20232.9	22012.3	22599.3	22544.2	22440.3
14595.4	35°	14803.2	15011.1	15665.4	16319.6	17181.8	18906.1	19774.3	19652.1	19633.7
11892.7	37.5°	12192.3	12889.4	13250.2	13910.5	14515.9	15854.9	17053.4	16998.4	17004.5
9563.1	40°	9844.4	10247.9	10963.3	11519.8	12076.2	13054.5	14387.5	14424.1	14411.9
7404.7	42.5°	7557.5	7948.9	8701.0	9306.3	9801.6	10406.9	11678.7	11721.5	11776.6
5766.0	45°	5900.5	6151.2	6701.5	7331.3	7857.2	8224.0	9190.1	9465.3	9471.4
4469.7	47.5°	4579.8	4867.2	5258.5	5863.8	6377.4	6640.4	7343.5	7716.5	7698.2
3430.2	50°	3595.3	3858.3	4176.2	4653.1	5209.6	5417.5	5937.2	6304.1	6285.7
2586.4	52.5°	2751.5	3087.8	3369.1	3736.0	4280.2	4457.5	4830.5	5252.4	5191.2
1895.5	55°	2085.1	2427.5	2690.4	2996.1	3491.4	3717.6	3974.4	4310.7	4323.0
1467.5	57.5°	1571.4	1926.1	2164.5	2476.4	2849.4	3100.1	3295.7	3656.5	3650.4
1002.8	60°	1125.1	1430.8	1718.2	2042.2	2329.6	2617.0	2751.5	3093.9	3106.2
709.3	62.5°	813.2	1100.6	1375.8	1657.0	1913.8	2195.1	2317.4	2586.4	2623.1
464.7	65°	568.7	770.4	1088.4	1302.4	1589.8	1797.7	1956.6	2189.0	2231.8
275.2	67.5°	366.9	556.4	862.1	1051.7	1314.6	1491.9	1657.0	1840.5	1895.5
177.3	70°	220.1	421.9	642.0	843.8	1082.3	1241.2	1400.2	1559.2	1589.8
85.6	72.5°	140.6	293.5	464.7	684.8	868.3	1039.5	1180.1	1296.3	1204.6
55.0	75°	79.5	201.8	366.9	538.1	703.2	868.3	984.4	1045.6	837.7
36.7	77.5°	48.9	146.7	299.6	434.1	544.2	697.1	770.4	807.1	599.2
24.5	80°	30.6	110.1	250.7	354.6	354.6	513.6	599.2	629.8	434.1
18.3	82.5°	24.5	79.5	195.7	269.0	238.5	385.2	470.8	476.9	305.7
12.2	85°	18.3	61.1	122.3	177.3	165.1	269.0	275.2	305.7	201.8
12.2	87.5°	12.2	36.7	73.4	103.9	91.7	128.4	146.7	165.1	110.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
56871.1
55201.9
54278.6
52927.3
50395.9
47674.9
44519.8
41364.7
37891.7
34540.9
31165.7
28132.9
25112.3
22165.1
19431.9
16808.8
14197.9
11593.1
9312.4
7630.9
6285.7
5197.3
4323.0
3638.1
3075.6
2610.9
2219.6
1889.4
1565.3
1119.0
794.9
562.5
403.6
281.3
183.4
97.8
0.0

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