

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: P638740

Luminaire Tested: **EPH-VN-06-E-740-U-66-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638740
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-740-U-66-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 6 distribution lens and Visor
Light Source: (96) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44616.9 lumens
Efficiency: N/A
Efficacy: 96.1 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



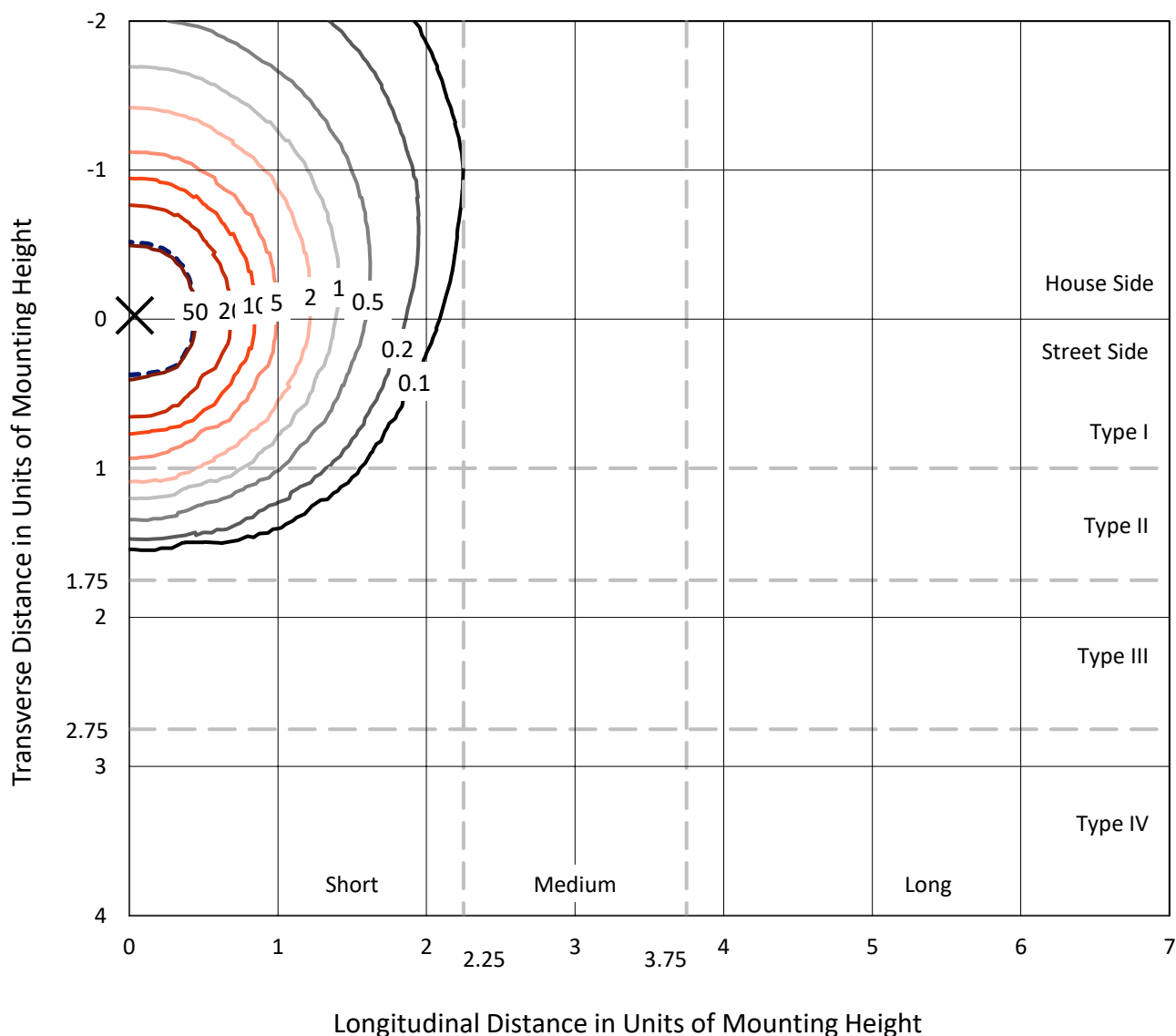
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

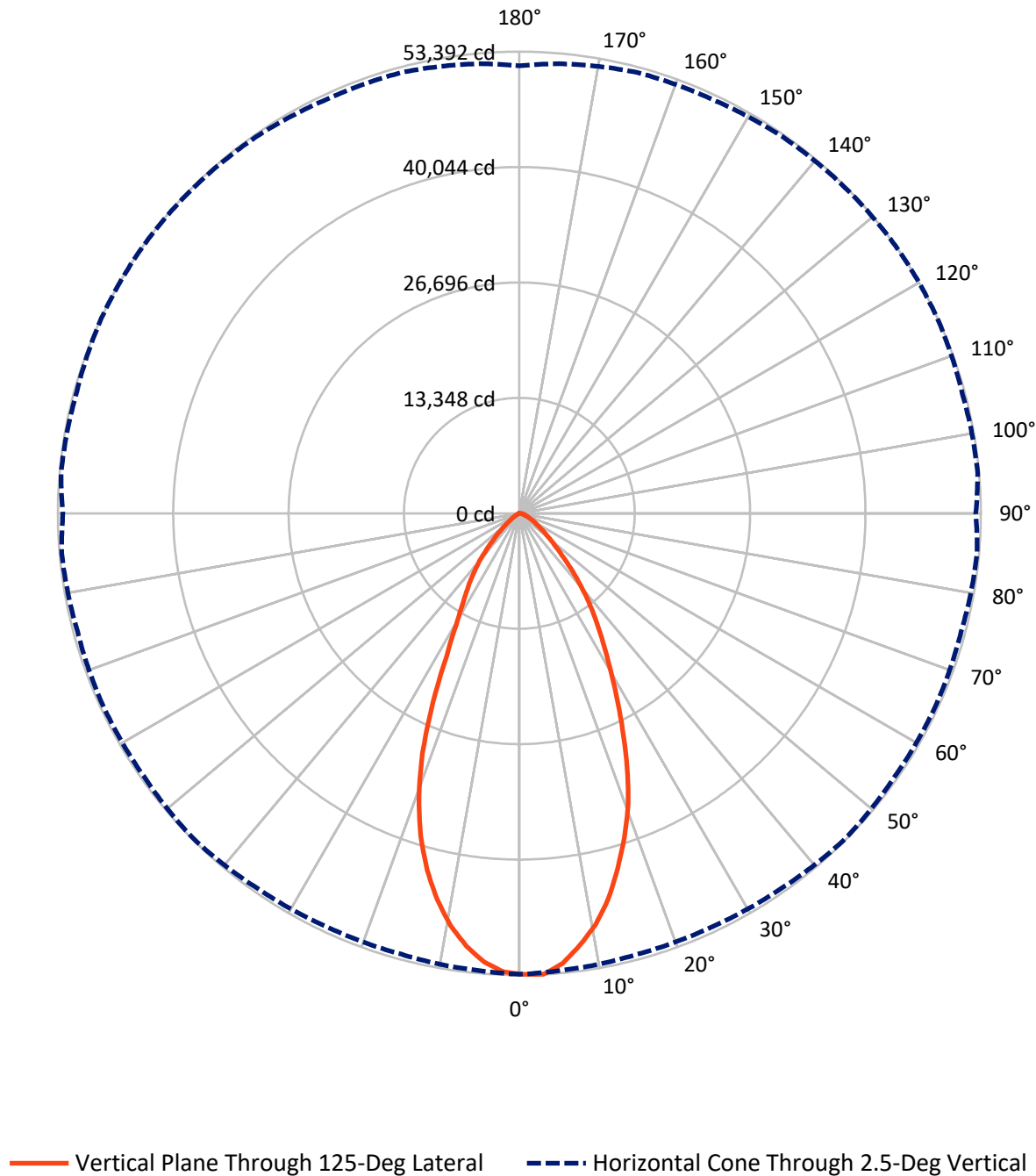


Based on 20 foot mounting height. Maximum calculated value = 133.3 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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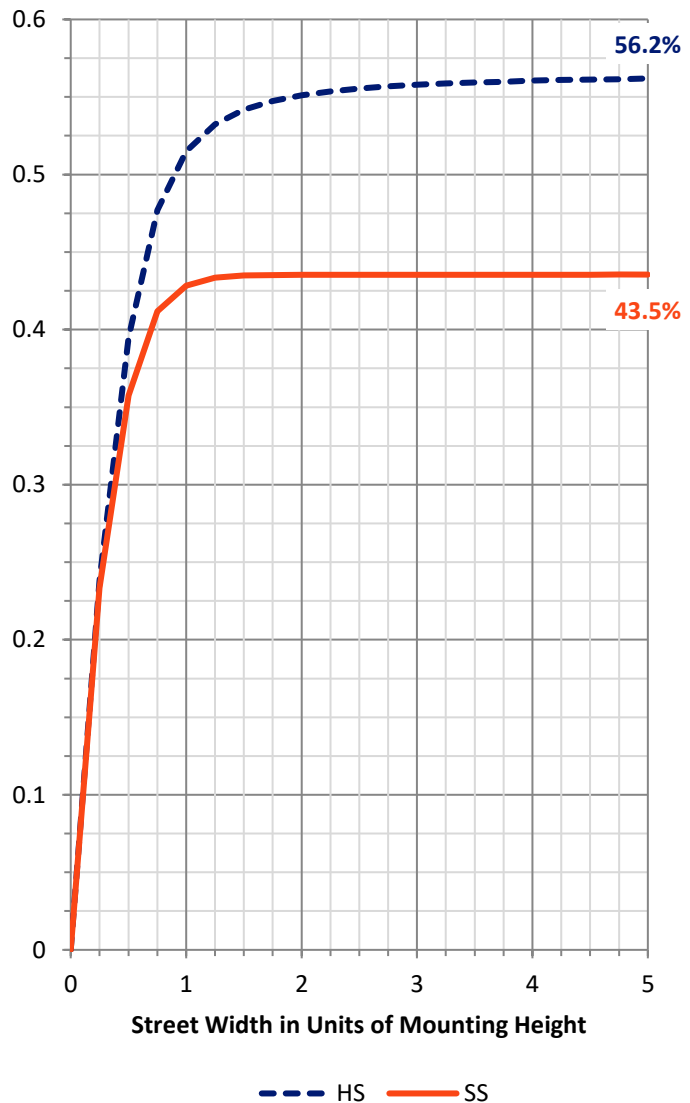
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25317.4	0.0	25317.4
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	19299.5	0.0	19299.5
	% Fixture	43.3	0.0	43.3
Total	Lumens	44616.9	0.0	44616.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4840.4	10.8
10°-20°	11538.5	25.9
20°-30°	11751.7	26.3
30°-40°	8763.2	19.6
40°-50°	4578.1	10.3
50°-60°	1925.6	4.3
60°-70°	786.4	1.8
70°-80°	331.0	0.7
80°-90°	102.0	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°	44616.9	100.0
0°-180°	44616.9	100.0

Coefficient of Utilization



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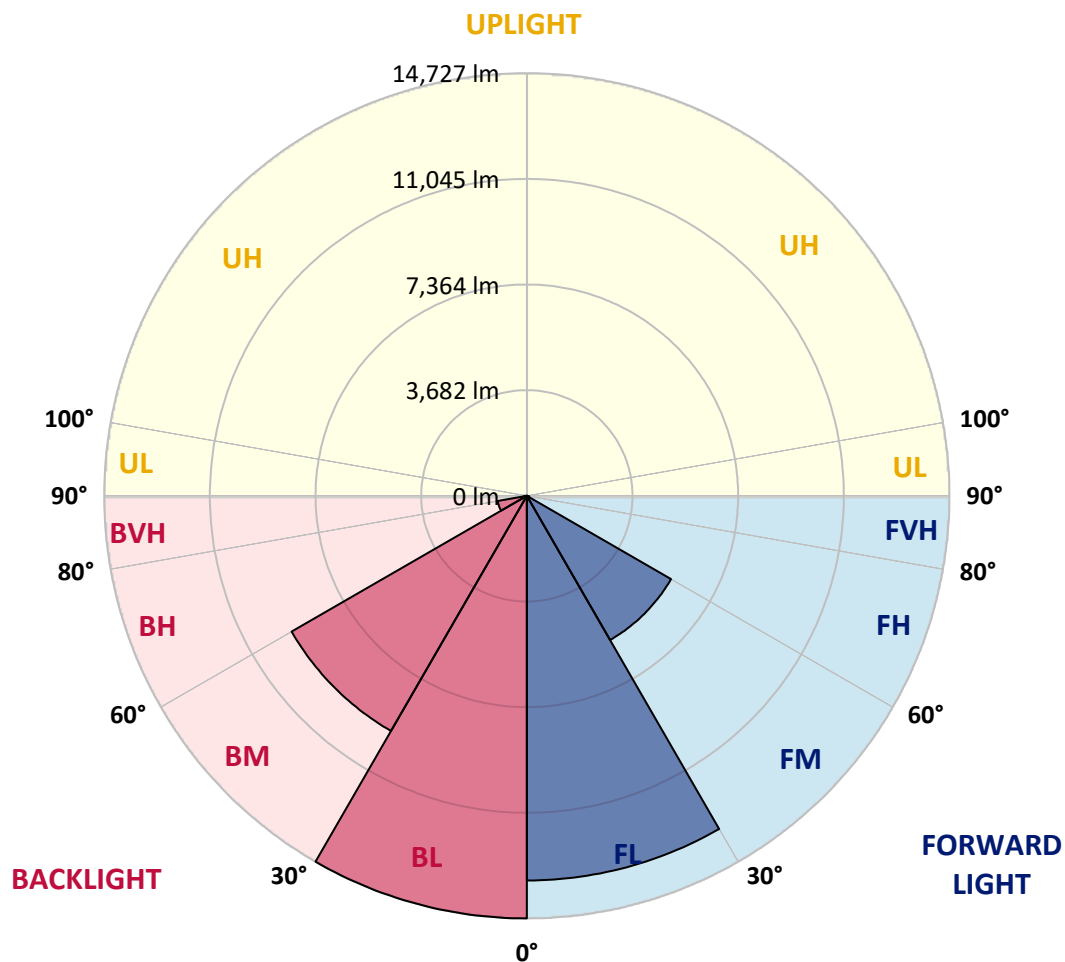
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	13403.5	30.0			
FM	(30°-60°)	5802.6	13.0			
FH	(60°-80°)	84.0	0.2			G0/660
FVH	(80°-90°)	9.5	0.0			G0/10
BL	(0°-30°)	14727.1	33.0	B5		
BM	(30°-60°)	9464.3	21.2	B5		
BH	(60°-80°)	1033.4	2.3	B3/2500		G3/2500
BVH	(80°-90°)	92.5	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°	53306.4	53306.4	53306.4	53306.4	53306.4	53306.4	53306.4	53306.4	53306.4	53306.4
2.5°	53312.1	53094.3	52784.8	52756.2	52916.6	53266.2	53042.7	53054.2	52916.6	53151.6
5°	52475.3	52269.0	52056.9	51776.1	52011.1	52160.1	52045.5	51919.4	51741.7	51971.0
7.5°	50893.5	50778.9	50463.7	50337.6	50480.9	50647.1	50400.6	50366.2	50119.8	50417.8
10°	48474.9	48429.1	48119.6	48045.1	48171.2	48423.3	48314.4	48291.5	48136.8	48108.1
12.5°	45964.6	45787.0	45403.0	45380.0	45569.2	45947.4	45655.1	45374.3	45460.3	45534.8
15°	39499.8	39310.6	40262.0	41757.9	42543.1	42514.4	42600.4	42262.2	42159.1	42193.5
17.5°	31401.5	31080.6	31424.4	33739.9	37470.9	39637.3	39041.3	38313.4	37923.7	37665.8
20°	27103.1	27120.3	27057.2	27653.3	29980.2	34920.5	34777.2	33373.1	32863.0	32650.9
22.5°	24489.6	24392.2	24254.7	24443.8	25068.5	27968.5	29911.4	28621.9	28444.2	28209.2
25°	21927.8	21927.8	21761.6	21950.7	22128.4	22168.5	24117.1	24644.4	24300.5	24300.5
27.5°	19709.8	19595.1	19520.6	19606.6	19371.6	18242.6	18489.0	21188.4	20953.5	20810.2
30°	17509.0	17474.6	17348.5	17463.1	16592.0	15319.6	14803.8	17881.5	18127.9	18076.4
32.5°	14454.2	14591.8	15153.4	15331.1	13841.0	12815.1	12322.2	14843.9	15829.7	15789.6
35°	9823.4	9938.0	10579.9	12700.5	11474.0	10740.4	10597.1	11806.4	13428.3	13583.1
37.5°	7823.2	7806.0	7989.4	8367.6	9221.6	9043.9	9003.8	9319.0	10952.4	11021.2
40°	6447.7	6424.7	6419.0	6109.5	5897.5	7519.4	7410.5	7221.4	8637.0	8774.5
42.5°	5198.2	5221.2	5238.4	4562.1	4252.6	5800.0	5737.0	5542.1	6774.3	6934.8
45°	4080.7	4074.9	4109.3	3398.6	3312.7	3708.1	4287.0	4132.2	5112.3	5284.2
47.5°	2114.8	2189.3	2653.6	2630.6	2670.8	2630.6	3243.9	3203.8	3845.7	4120.8
50°	1421.4	1444.3	1484.4	1490.1	2103.4	1937.2	2200.8	2493.1	2693.7	3117.8
52.5°	1100.4	1117.6	1014.4	951.4	1289.5	1432.8	1444.3	1725.1	1879.9	2309.7
55°	613.2	687.8	739.3	745.1	710.7	1060.3	1054.6	1278.1	1398.4	1685.0
57.5°	80.2	97.4	149.0	481.4	475.7	590.3	739.3	928.5	997.2	1232.2
60°	5.7	11.5	17.2	74.5	315.2	343.9	504.4	578.9	693.5	865.4
62.5°	0.0	0.0	5.7	17.2	63.0	200.6	263.6	303.8	406.9	567.4
65°	0.0	0.0	5.7	11.5	22.9	74.5	103.2	166.2	240.7	349.6
67.5°	0.0	0.0	5.7	11.5	17.2	28.7	45.9	74.5	126.1	212.1
70°	0.0	0.0	5.7	11.5	17.2	22.9	34.4	45.9	68.8	114.6
72.5°	0.0	0.0	5.7	5.7	11.5	28.7	28.7	34.4	45.9	63.0
75°	0.0	0.0	5.7	11.5	17.2	28.7	28.7	28.7	34.4	40.1
77.5°	0.0	0.0	5.7	11.5	17.2	28.7	22.9	28.7	28.7	28.7
80°	0.0	0.0	5.7	11.5	17.2	28.7	34.4	28.7	22.9	22.9
82.5°	0.0	0.0	5.7	17.2	17.2	40.1	40.1	40.1	17.2	17.2
85°	0.0	0.0	11.5	17.2	28.7	45.9	45.9	34.4	17.2	11.5
87.5°	0.0	0.0	5.7	11.5	11.5	22.9	34.4	28.7	11.5	5.7
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°
53306.4	0°	53306.4	53306.4	53306.4	53306.4	53306.4	53306.4	53306.4	53306.4	53306.4
52807.7	2.5°	53231.9	53088.6	53357.9	53392.3	53277.7	53134.4	52802.0	52773.4	52194.5
51638.6	5°	52223.2	51988.2	52160.1	52274.7	52234.6	52079.9	51942.3	51816.2	51294.7
49741.5	7.5°	50343.3	50257.3	50337.6	50423.5	50589.7	50423.5	50366.2	50234.4	49718.6
47873.1	10°	48257.1	48096.7	48400.4	48360.3	48314.4	48268.6	48027.9	48050.8	47443.3
45328.5	12.5°	45695.3	45425.9	45718.2	45752.6	45718.2	45557.7	45288.3	45403.0	44847.0
41889.7	15°	42250.8	42222.1	42434.2	42571.7	42669.2	42497.2	42405.5	42462.8	42130.4
37465.2	17.5°	38021.1	38393.6	39087.1	39322.1	39327.8	39505.5	39453.9	39385.2	39138.7
32565.0	20°	33046.4	33762.8	34828.8	35923.5	36238.7	36089.7	36020.9	36147.0	35780.2
27962.8	22.5°	28455.7	29068.9	30306.9	31905.9	32828.6	32920.3	32903.1	32794.2	32650.9
24277.6	25°	24558.4	25102.9	26289.2	27750.7	29521.7	29785.3	29796.8	29762.4	29636.3
20936.3	27.5°	21268.7	21927.8	22581.1	23887.9	25773.4	26862.4	26724.8	26684.7	26638.9
18116.5	30°	18288.4	19119.5	19732.7	20546.5	22237.3	23710.2	23853.5	23784.7	23675.8
15783.9	32.5°	15927.1	16420.0	17199.5	17749.7	18964.7	20632.5	21182.7	21131.1	21033.7
13680.5	35°	13875.4	14070.2	14683.5	15296.7	16104.8	17721.0	18534.9	18420.2	18403.0
11147.3	37.5°	11428.1	12081.5	12419.6	13038.6	13606.0	14861.1	15984.5	15932.9	15938.6
8963.7	40°	9227.3	9605.6	10276.1	10797.7	11319.2	12236.2	13485.6	13520.0	13508.6
6940.5	42.5°	7083.8	7450.6	8155.6	8723.0	9187.2	9754.6	10946.7	10986.8	11038.4
5404.6	45°	5530.7	5765.6	6281.5	6871.8	7364.7	7708.5	8614.1	8872.0	8877.7
4189.5	47.5°	4292.7	4562.1	4928.9	5496.3	5977.7	6224.1	6883.2	7232.8	7215.6
3215.2	50°	3370.0	3616.4	3914.4	4361.5	4883.0	5077.9	5565.0	5908.9	5891.7
2424.3	52.5°	2579.1	2894.3	3157.9	3501.8	4011.9	4178.1	4527.7	4923.1	4865.8
1776.7	55°	1954.4	2275.3	2521.8	2808.3	3272.5	3484.6	3725.3	4040.5	4052.0
1375.5	57.5°	1472.9	1805.3	2028.9	2321.2	2670.8	2905.7	3089.1	3427.3	3421.6
939.9	60°	1054.6	1341.1	1610.5	1914.2	2183.6	2453.0	2579.1	2900.0	2911.5
664.8	62.5°	762.3	1031.6	1289.5	1553.2	1793.9	2057.5	2172.1	2424.3	2458.7
435.6	65°	533.0	722.1	1020.2	1220.8	1490.1	1685.0	1834.0	2051.8	2091.9
257.9	67.5°	343.9	521.5	808.1	985.8	1232.2	1398.4	1553.2	1725.1	1776.7
166.2	70°	206.3	395.5	601.8	790.9	1014.4	1163.4	1312.5	1461.5	1490.1
80.2	72.5°	131.8	275.1	435.6	641.9	813.8	974.3	1106.1	1215.0	1129.1
51.6	75°	74.5	189.1	343.9	504.4	659.1	813.8	922.7	980.0	785.2
34.4	77.5°	45.9	137.6	280.8	406.9	510.1	653.4	722.1	756.5	561.7
22.9	80°	28.7	103.2	235.0	332.4	332.4	481.4	561.7	590.3	406.9
17.2	82.5°	22.9	74.5	183.4	252.2	223.5	361.1	441.3	447.0	286.6
11.5	85°	17.2	57.3	114.6	166.2	154.7	252.2	257.9	286.6	189.1
11.5	87.5°	11.5	34.4	68.8	97.4	86.0	120.4	137.6	154.7	103.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
53306.4
51741.7
50876.3
49609.7
47237.0
44686.6
41729.2
38771.9
35516.6
32375.8
29212.2
26369.5
23538.2
20775.8
18213.9
15755.2
13308.0
10866.5
8728.7
7152.6
5891.7
4871.6
4052.0
3410.1
2882.8
2447.2
2080.4
1771.0
1467.2
1048.8
745.1
527.3
378.3
263.6
171.9
91.7
0.0

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