

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: P638742

Luminaire Tested: **EPH-VN-08-D-740-U-66-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638742
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-08-D-740-U-66-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 6 distribution lens and Visor
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47007.1 lumens
Efficiency: N/A
Efficacy: 96.3 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): 488.3
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



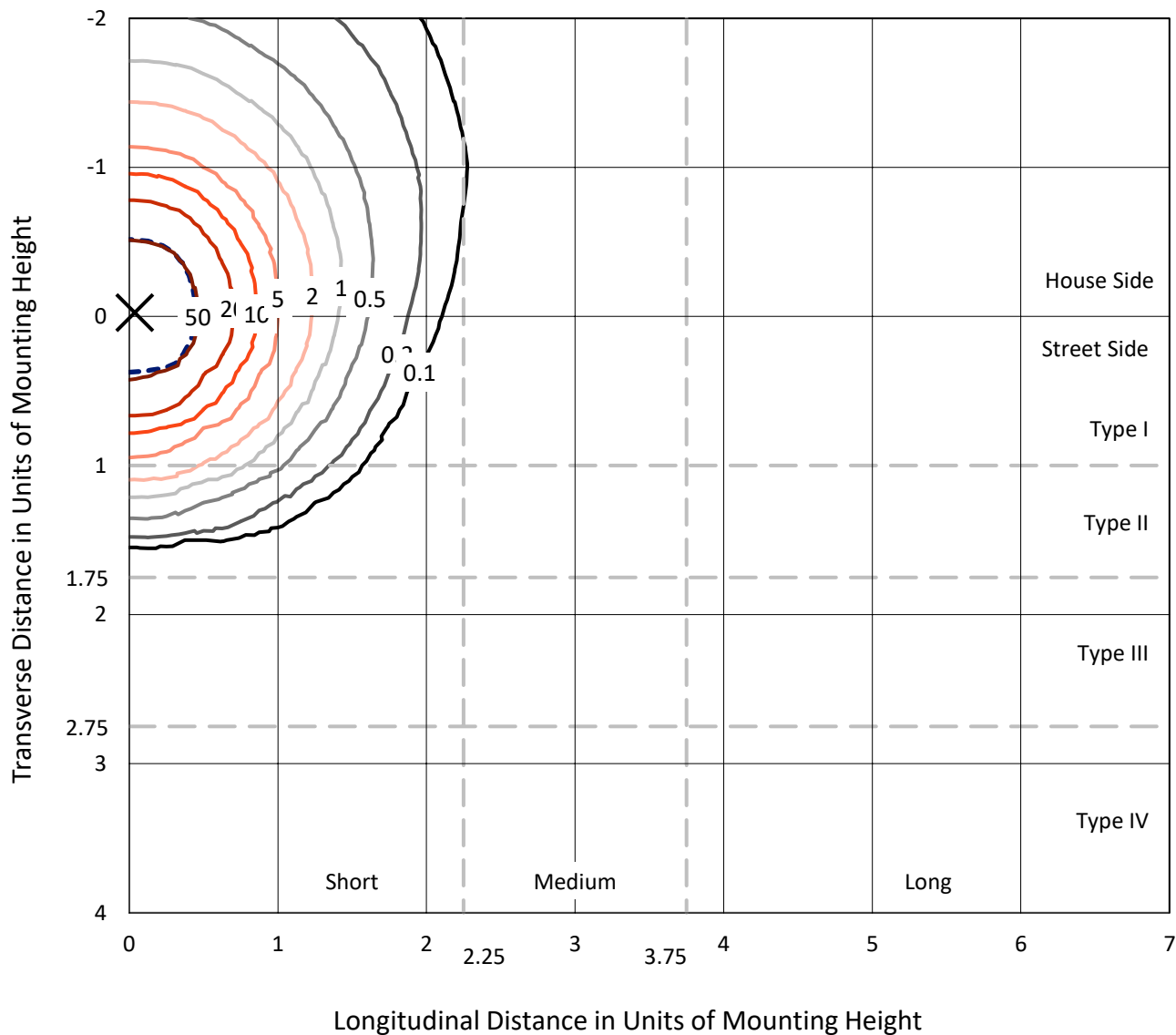
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

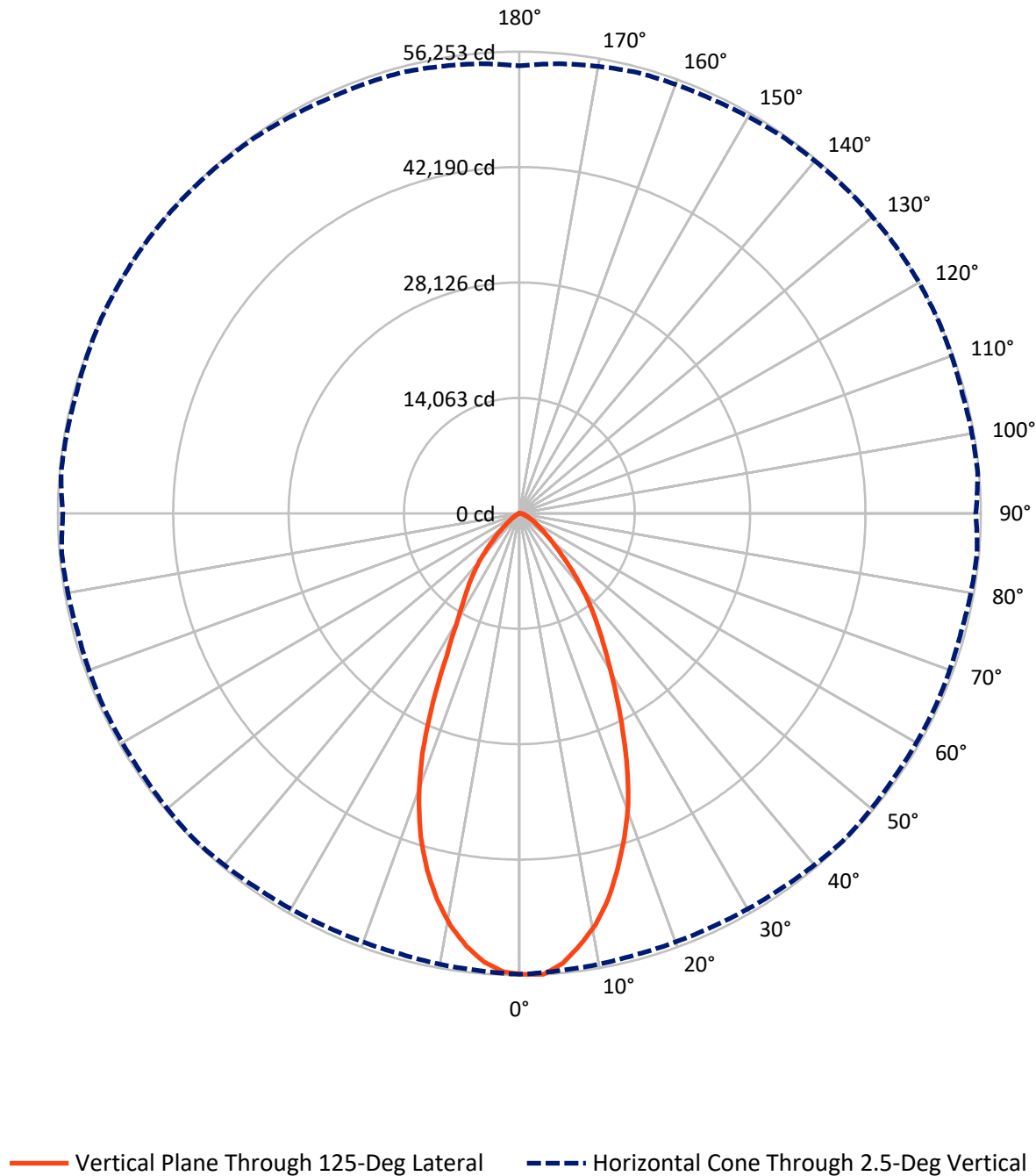


Based on 20 foot mounting height. Maximum calculated value = 140.4 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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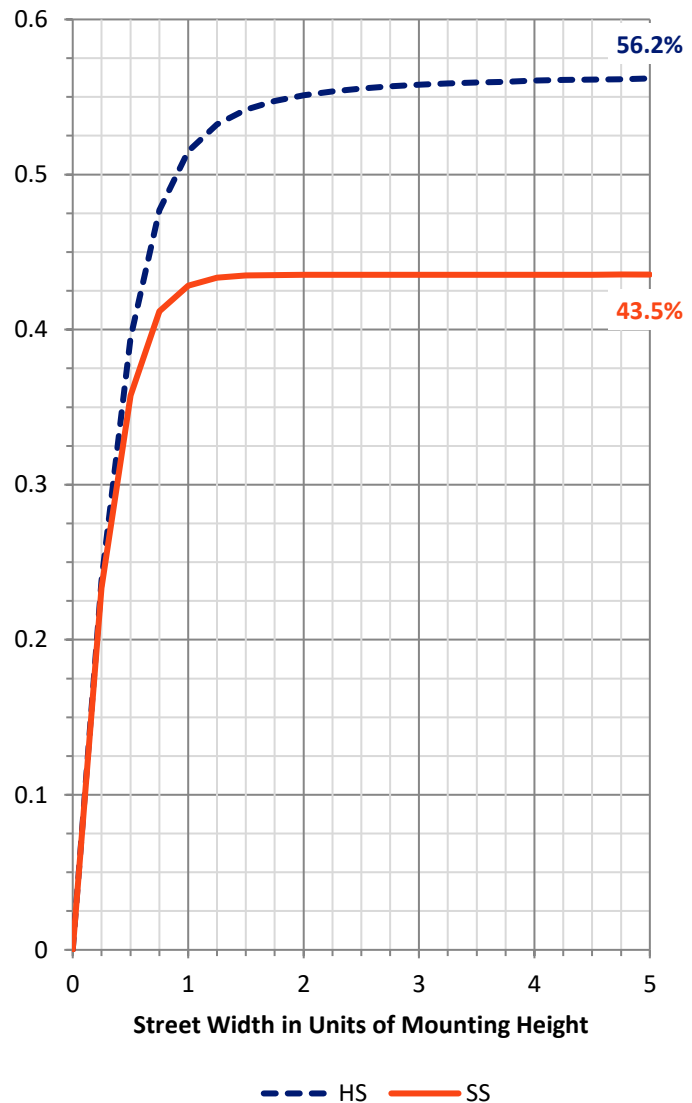
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	26673.7	0.0	26673.7
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	20333.4	0.0	20333.4
	% Fixture	43.3	0.0	43.3
Total	Lumens	47007.1	0.0	47007.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5099.7	10.8
10°-20°	12156.6	25.9
20°-30°	12381.3	26.3
30°-40°	9232.7	19.6
40°-50°	4823.4	10.3
50°-60°	2028.7	4.3
60°-70°	828.5	1.8
70°-80°	348.7	0.7
80°-90°	107.4	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°	47007.1	100.0
0°-180°	47007.1	100.0

Coefficient of Utilization



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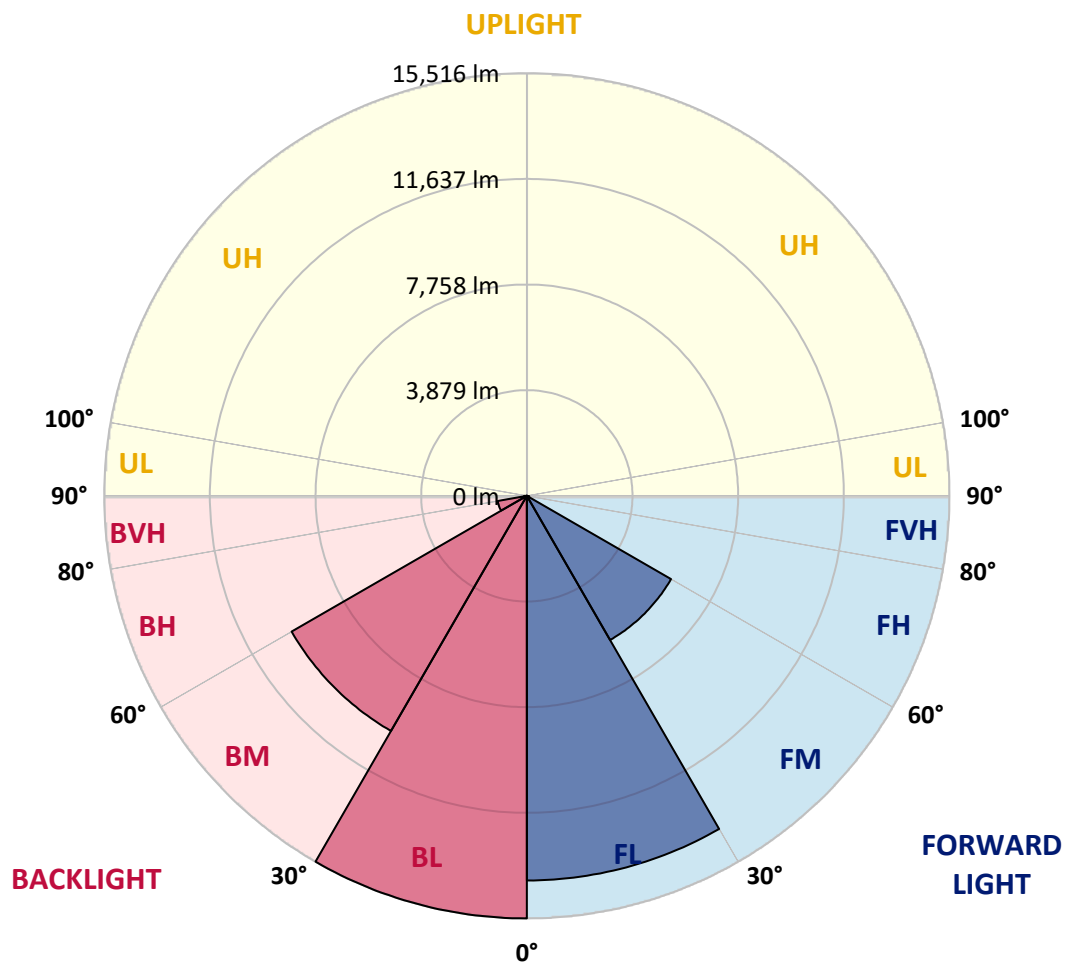
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	14121.5	30.0			
FM	(30°-60°)	6113.5	13.0			
FH	(60°-80°)	88.5	0.2			G0/660
FVH	(80°-90°)	10.0	0.0			G0/10
BL	(0°-30°)	15516.1	33.0	B5		
BM	(30°-60°)	9971.4	21.2	B5		
BH	(60°-80°)	1088.8	2.3	B3/2500		G3/2500
BVH	(80°-90°)	97.4	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°	56162.1	56162.1	56162.1	56162.1	56162.1	56162.1	56162.1	56162.1	56162.1	56162.1
2.5°	56168.1	55938.7	55612.6	55582.4	55751.5	56119.8	55884.3	55896.4	55751.5	55999.1
5°	55286.6	55069.2	54845.8	54549.9	54797.5	54954.4	54833.7	54700.8	54513.7	54755.2
7.5°	53620.0	53499.2	53167.1	53034.3	53185.2	53360.3	53100.7	53064.5	52804.8	53118.8
10°	51071.8	51023.5	50697.5	50619.0	50751.8	51017.5	50902.8	50878.6	50715.6	50685.4
12.5°	48427.1	48239.9	47835.3	47811.2	48010.4	48408.9	48101.0	47805.1	47895.7	47974.2
15°	41615.9	41416.6	42419.0	43995.0	44822.2	44792.0	44882.6	44526.3	44417.6	44453.9
17.5°	33083.8	32745.6	33107.9	35547.4	39478.3	41760.8	41132.8	40365.9	39955.3	39683.6
20°	28555.1	28573.2	28506.8	29134.7	31586.3	36791.3	36640.3	35160.9	34623.5	34400.1
22.5°	25801.6	25698.9	25554.0	25753.3	26411.5	29466.8	31513.8	30155.2	29968.0	29720.4
25°	23102.5	23102.5	22927.4	23126.6	23313.8	23356.1	25409.1	25964.6	25602.3	25602.3
27.5°	20765.7	20644.9	20566.4	20657.0	20409.4	19219.9	19479.5	22323.5	22076.0	21925.0
30°	18447.0	18410.7	18277.9	18398.7	17480.8	16140.3	15596.9	18839.5	19099.1	19044.8
32.5°	15228.6	15373.5	15965.2	16152.4	14582.5	13501.6	12982.3	15639.2	16677.7	16635.5
35°	10349.6	10470.4	11146.7	13380.8	12088.7	11315.7	11164.8	12438.9	14147.7	14310.7
37.5°	8242.3	8224.1	8417.4	8815.9	9715.6	9528.4	9486.1	9818.3	11539.2	11611.6
40°	6793.1	6768.9	6762.9	6436.8	6213.4	7922.2	7807.5	7608.2	9099.7	9244.6
42.5°	5476.7	5500.9	5519.0	4806.5	4480.4	6110.7	6044.3	5839.0	7137.3	7306.3
45°	4299.3	4293.2	4329.5	3580.7	3490.1	3906.8	4516.6	4353.6	5386.2	5567.3
47.5°	2228.1	2306.6	2795.7	2771.6	2813.8	2771.6	3417.7	3375.4	4051.7	4341.5
50°	1497.5	1521.6	1563.9	1570.0	2216.1	2040.9	2318.7	2626.7	2838.0	3284.8
52.5°	1159.4	1177.5	1068.8	1002.4	1358.6	1509.6	1521.6	1817.5	1980.6	2433.4
55°	646.1	724.6	778.9	785.0	748.7	1117.1	1111.0	1346.5	1473.3	1775.3
57.5°	84.5	102.7	157.0	507.2	501.2	621.9	778.9	978.2	1050.7	1298.2
60°	6.0	12.1	18.1	78.5	332.1	362.3	531.4	609.9	730.6	911.8
62.5°	0.0	0.0	6.0	18.1	66.4	211.3	277.8	320.0	428.7	597.8
65°	0.0	0.0	6.0	12.1	24.2	78.5	108.7	175.1	253.6	368.3
67.5°	0.0	0.0	6.0	12.1	18.1	30.2	48.3	78.5	132.8	223.4
70°	0.0	0.0	6.0	12.1	18.1	24.2	36.2	48.3	72.5	120.8
72.5°	0.0	0.0	6.0	6.0	12.1	30.2	30.2	36.2	48.3	66.4
75°	0.0	0.0	6.0	12.1	18.1	30.2	30.2	30.2	36.2	42.3
77.5°	0.0	0.0	6.0	12.1	18.1	30.2	24.2	30.2	30.2	30.2
80°	0.0	0.0	6.0	12.1	18.1	30.2	36.2	30.2	24.2	24.2
82.5°	0.0	0.0	6.0	18.1	18.1	42.3	42.3	42.3	18.1	18.1
85°	0.0	0.0	12.1	18.1	30.2	48.3	48.3	36.2	18.1	12.1
87.5°	0.0	0.0	6.0	12.1	12.1	24.2	36.2	30.2	12.1	6.0
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°
56162.1	0°	56162.1	56162.1	56162.1	56162.1	56162.1	56162.1	56162.1	56162.1	56162.1
55636.8	2.5°	56083.6	55932.7	56216.5	56252.7	56131.9	55981.0	55630.7	55600.5	54990.7
54405.0	5°	55020.9	54773.3	54954.4	55075.2	55032.9	54869.9	54725.0	54592.2	54042.7
52406.3	7.5°	53040.3	52949.7	53034.3	53124.8	53300.0	53124.8	53064.5	52925.6	52382.1
50437.8	10°	50842.4	50673.3	50993.3	50951.1	50902.8	50854.5	50600.8	50625.0	49984.9
47756.8	12.5°	48143.3	47859.5	48167.4	48203.6	48167.4	47998.3	47714.5	47835.3	47249.6
44133.8	15°	44514.3	44484.1	44707.5	44852.4	44955.0	44773.9	44677.3	44737.7	44387.4
39472.3	17.5°	40058.0	40450.5	41181.1	41428.7	41434.7	41621.9	41567.6	41495.1	41235.5
34309.5	20°	34816.8	35571.5	36694.7	37848.0	38180.1	38023.1	37950.6	38083.5	37697.0
29460.8	22.5°	29980.1	30626.2	31930.5	33615.1	34587.3	34683.9	34665.8	34551.1	34400.1
25578.2	25°	25874.1	26447.7	27697.6	29237.4	31103.2	31381.0	31393.1	31356.8	31224.0
22057.9	27.5°	22408.1	23102.5	23790.9	25167.6	27154.2	28301.5	28156.5	28114.3	28066.0
19087.0	30°	19268.2	20143.7	20789.8	21647.3	23428.6	24980.4	25131.4	25058.9	24944.2
16629.4	32.5°	16780.4	17299.7	18120.9	18700.6	19980.7	21737.8	22317.5	22263.2	22160.5
14413.4	35°	14618.7	14824.0	15470.1	16116.2	16967.6	18670.4	19527.8	19407.1	19388.9
11744.5	37.5°	12040.3	12728.7	13085.0	13737.1	14334.9	15657.3	16840.8	16786.4	16792.5
9443.9	40°	9721.6	10120.2	10826.6	11376.1	11925.6	12891.7	14208.1	14244.3	14232.2
7312.4	42.5°	7463.3	7849.8	8592.5	9190.3	9679.4	10277.2	11533.1	11575.4	11629.7
5694.1	45°	5826.9	6074.5	6618.0	7239.9	7759.2	8121.5	9075.5	9347.3	9353.3
4414.0	47.5°	4522.7	4806.5	5192.9	5790.7	6297.9	6557.6	7252.0	7620.3	7602.2
3387.5	50°	3550.5	3810.2	4124.2	4595.1	5144.6	5349.9	5863.2	6225.5	6207.4
2554.2	52.5°	2717.2	3049.3	3327.1	3689.4	4226.8	4401.9	4770.2	5186.9	5126.5
1871.9	55°	2059.1	2397.2	2656.8	2958.8	3447.9	3671.3	3924.9	4257.0	4269.1
1449.2	57.5°	1551.8	1902.1	2137.6	2445.5	2813.8	3061.4	3254.6	3610.9	3604.9
990.3	60°	1111.0	1413.0	1696.8	2016.8	2300.6	2584.4	2717.2	3055.4	3067.4
700.4	62.5°	803.1	1086.9	1358.6	1636.4	1890.0	2167.7	2288.5	2554.2	2590.4
458.9	65°	561.6	760.8	1074.8	1286.2	1570.0	1775.3	1932.3	2161.7	2204.0
271.7	67.5°	362.3	549.5	851.4	1038.6	1298.2	1473.3	1636.4	1817.5	1871.9
175.1	70°	217.4	416.6	634.0	833.3	1068.8	1225.8	1382.8	1539.8	1570.0
84.5	72.5°	138.9	289.8	458.9	676.3	857.4	1026.5	1165.4	1280.1	1189.5
54.3	75°	78.5	199.3	362.3	531.4	694.4	857.4	972.2	1032.5	827.2
36.2	77.5°	48.3	144.9	295.9	428.7	537.4	688.4	760.8	797.1	591.8
24.2	80°	30.2	108.7	247.6	350.2	350.2	507.2	591.8	621.9	428.7
18.1	82.5°	24.2	78.5	193.2	265.7	235.5	380.4	464.9	471.0	301.9
12.1	85°	18.1	60.4	120.8	175.1	163.0	265.7	271.7	301.9	199.3
12.1	87.5°	12.1	36.2	72.5	102.7	90.6	126.8	144.9	163.0	108.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
56162.1
54513.7
53601.9
52267.4
49767.6
47080.5
43964.8
40849.0
37419.3
34110.3
30777.1
27782.2
24799.2
21888.8
19189.7
16599.3
14020.9
11448.6
9196.3
7535.8
6207.4
5132.5
4269.1
3592.8
3037.3
2578.3
2191.9
1865.8
1545.8
1105.0
785.0
555.5
398.5
277.8
181.1
96.6
0.0

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