

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: P638567

Luminaire Tested: **EPH-VN-07-E-730-U-33-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638567
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-730-U-33-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 3 distribution lens and Visor
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51121 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

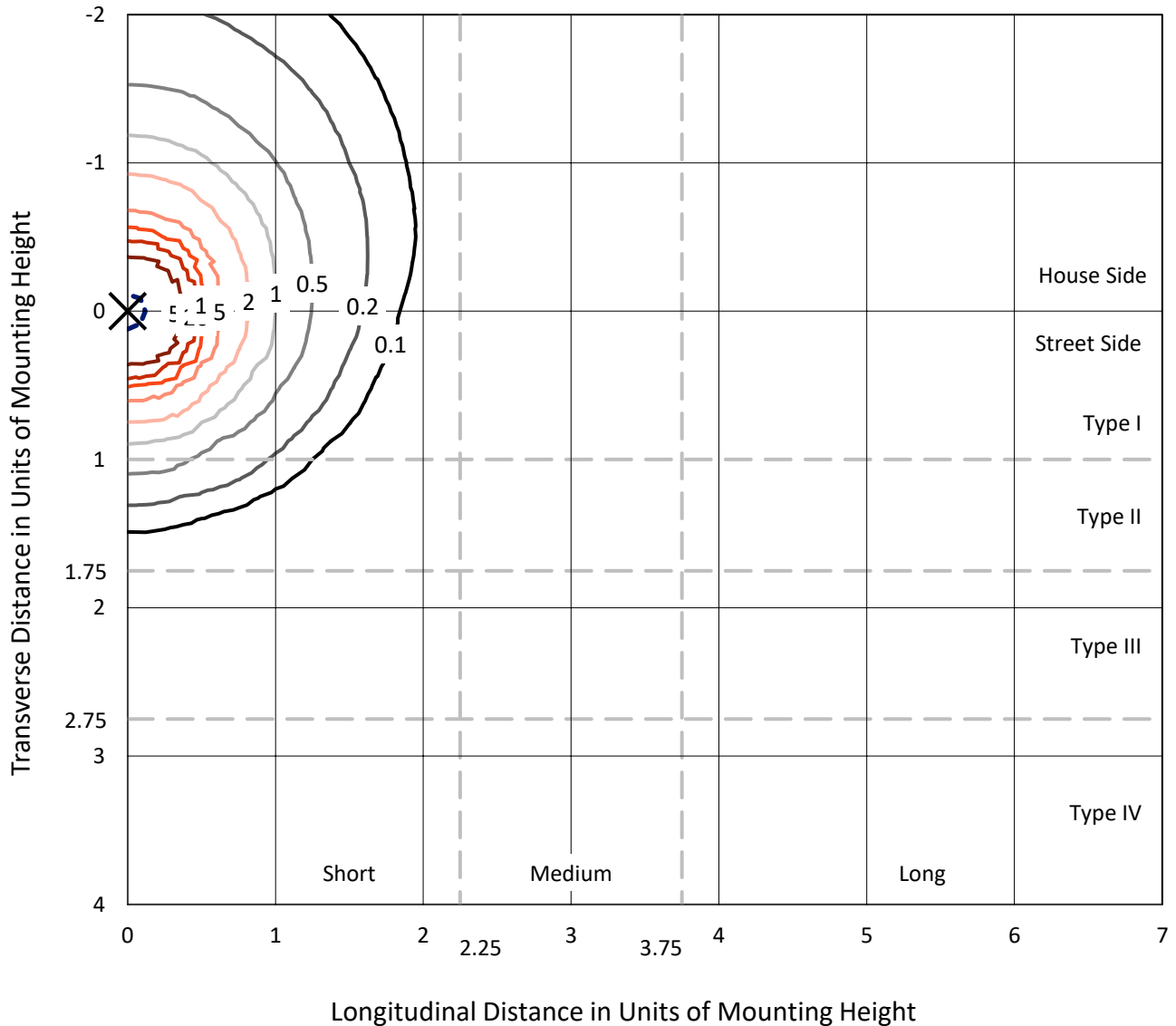
Input Watts (W): 532.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

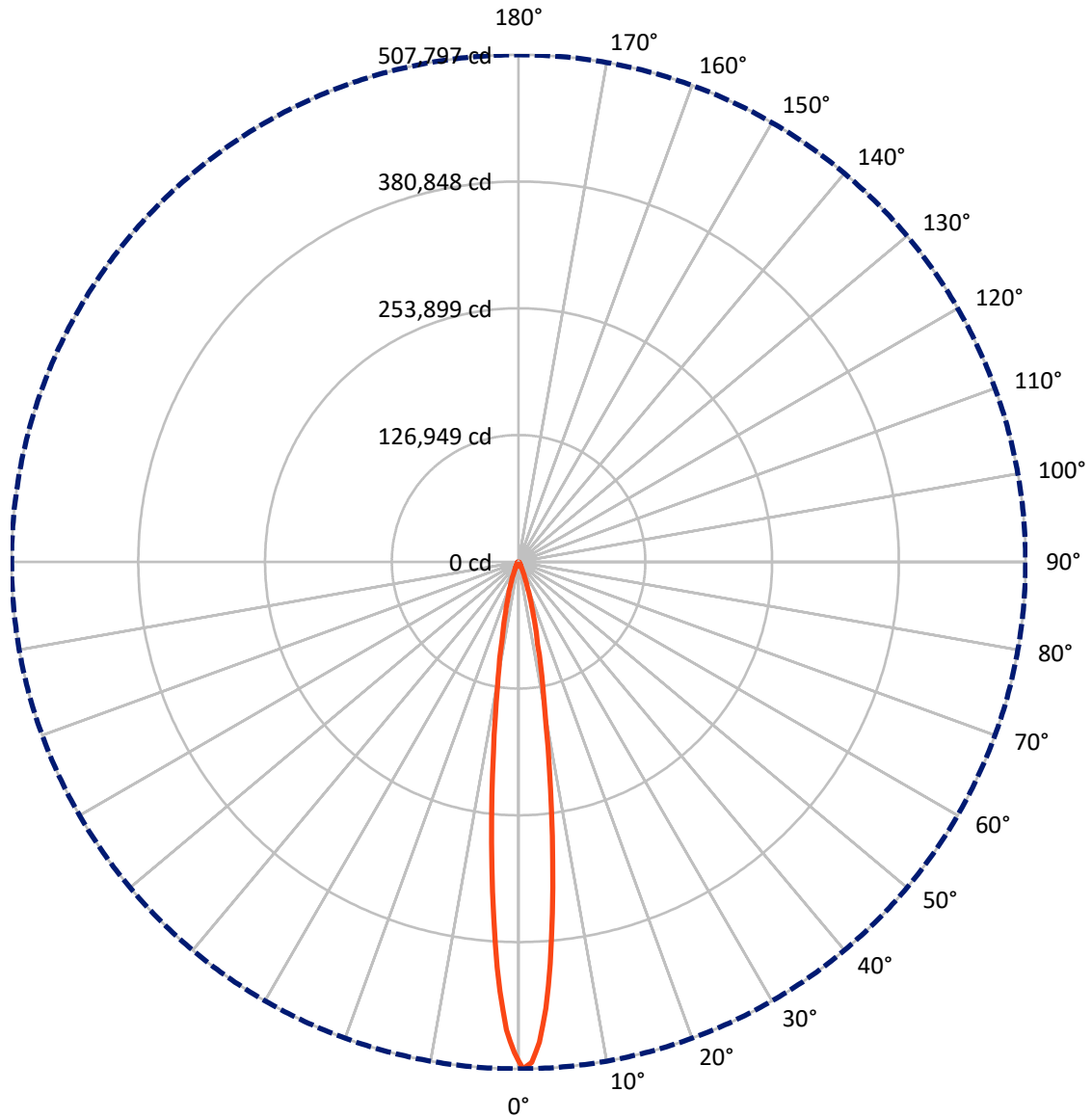
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1269.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

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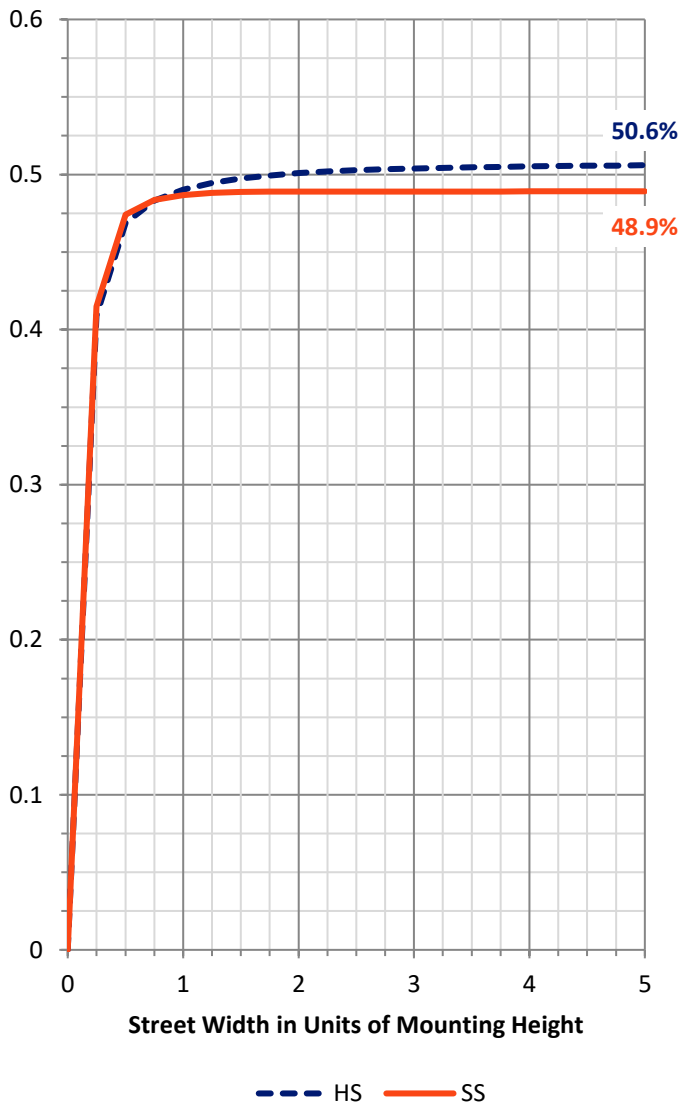
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	26183.2	0.0	26183.2
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	24937.8	0.0	24937.8
	% Fixture	48.8	0.0	48.8
Total	Lumens	51121.0	0.0	51121.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25807.4	50.5
10°-20°	16521.8	32.3
20°-30°	4966.1	9.7
30°-40°	1617.0	3.2
40°-50°	940.8	1.8
50°-60°	624.9	1.2
60°-70°	376.2	0.7
70°-80°	193.3	0.4
80°-90°	73.4	0.1
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°	51121.0	100.0
0°-180°	51121.0	100.0

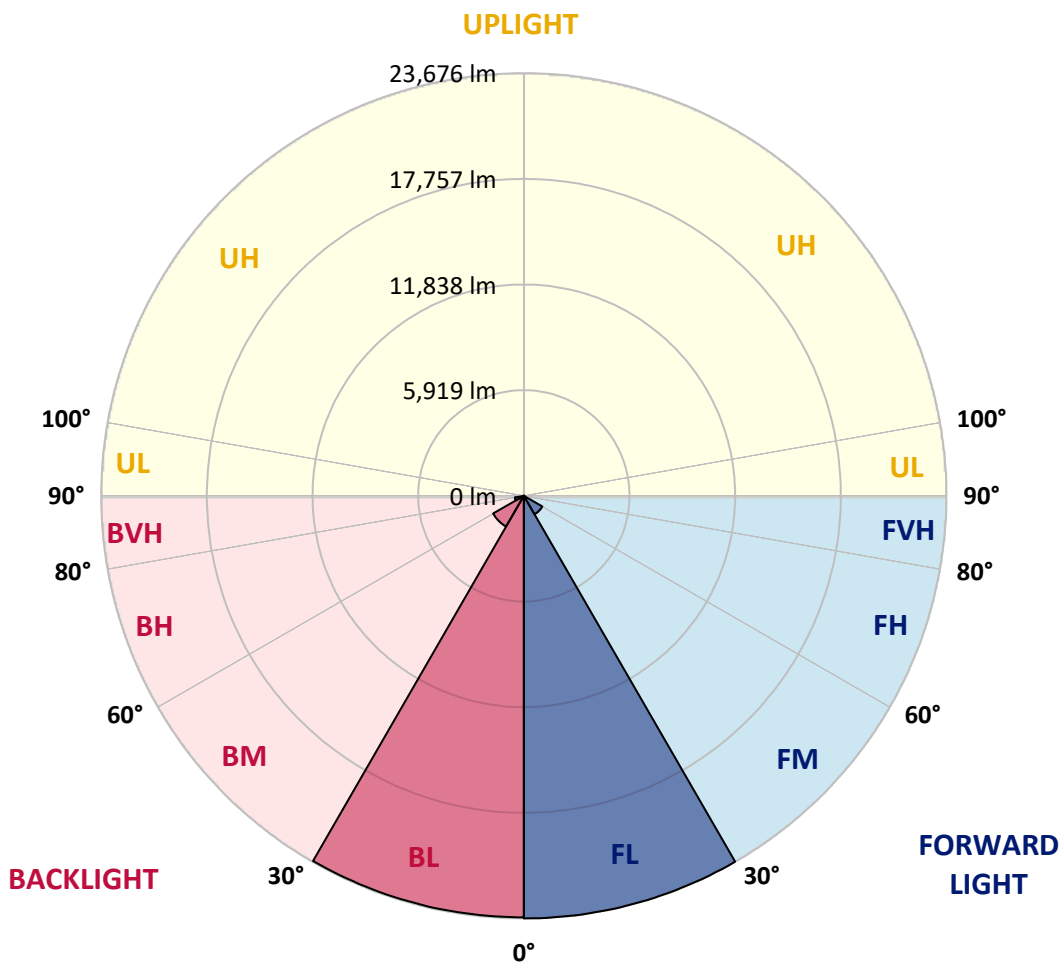


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	23675.7	46.3			
FM (30°-60°)	1194.7	2.3			
FH (60°-80°)	56.2	0.1			G0/660
FVH (80°-90°)	11.1	0.0			G1/100
BL (0°-30°)	23619.6	46.2	B5		
BM (30°-60°)	1988.0	3.9	B2/2500		
BH (60°-80°)	513.3	1.0	B2/1000		G0/660
BVH (80°-90°)	62.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	507797.4	507797.4	507797.4	507797.4	507797.4	507797.4	507797.4	507797.4	507797.4	507797.4
1°	501717.3	500186.1	496232.9	499044.7	501516.8	500798.6	500748.5	500481.2	500108.2	503036.9
2°	481661.7	480670.7	474824.4	477235.3	480748.6	478187.4	479790.9	478382.3	478410.1	481906.7
3°	447853.5	448393.6	439067.4	443449.3	448332.3	442124.1	444050.6	447669.8	443878.0	442736.6
4°	403911.7	399223.5	394128.9	398583.2	399847.1	396233.6	399785.9	404217.9	398950.7	399184.5
5°	353745.0	350281.7	344251.7	347002.2	343867.5	345008.9	350331.8	352158.1	348483.3	343856.4
6°	302164.0	299703.0	292164.1	296128.4	295014.8	294368.9	301089.4	295521.5	297525.9	294725.3
7°	251340.3	246741.2	243038.5	246835.8	247080.8	245137.6	253862.5	252849.2	249202.2	248355.9
8°	208239.2	203651.3	200516.5	203345.0	205193.6	202142.4	206245.9	208940.8	206090.0	206346.1
9°	167955.5	167148.2	162788.5	166485.6	168495.6	165227.2	169770.6	170745.0	168078.0	169375.3
10°	137905.6	136964.6	133484.7	134982.4	138312.0	134414.5	138774.2	139091.5	136964.6	137571.5
12.5°	85222.2	84843.6	84748.9	84966.1	84921.5	85611.9	86725.5	85456.0	85289.0	83189.9
15°	55083.2	55645.5	55066.5	56180.0	56341.5	56993.0	56313.7	55289.2	53334.8	52366.0
17.5°	34376.2	35094.4	36085.5	37716.9	39348.3	39537.6	38635.6	37432.9	36486.4	35450.8
20°	19777.2	20127.9	19977.6	21931.9	26152.4	27299.4	26135.7	24871.8	23730.4	22683.6
22.5°	12288.3	12160.3	12394.1	13051.1	14426.4	17973.2	17021.0	15757.1	14927.5	14064.5
25°	7533.4	7672.6	7583.5	7945.4	8563.4	10066.8	10283.9	9738.2	9315.1	8869.7
27.5°	4849.6	4849.6	4888.6	5089.1	5512.2	5462.1	6620.2	6197.1	5968.8	5751.6
30°	3368.6	3379.7	3379.7	3496.6	3591.3	3424.3	3724.9	4270.6	4164.8	3997.7
32.5°	2500.0	2533.4	2561.2	2622.5	2544.5	2366.4	2438.7	3073.5	3012.2	2951.0
35°	1904.2	1932.1	1998.9	2032.3	1920.9	1809.6	1742.8	2260.6	2288.4	2271.7
37.5°	1386.4	1403.1	1525.6	1653.7	1525.6	1425.4	1386.4	1737.2	1870.8	1854.1
40°	1063.5	1069.0	1091.3	1236.1	1236.1	1158.1	1169.3	1297.3	1531.2	1531.2
42.5°	913.1	913.1	935.4	913.1	918.7	1002.2	1030.1	1046.8	1297.3	1297.3
45°	790.6	790.6	801.8	746.1	690.4	863.0	885.3	890.9	1091.3	1119.1
47.5°	662.6	662.6	684.9	612.5	584.6	684.9	746.1	762.8	941.0	963.2
50°	490.0	495.5	562.4	501.1	517.8	528.9	645.9	657.0	796.2	846.3
52.5°	328.5	328.5	339.6	389.8	451.0	434.3	523.4	562.4	634.7	701.6
55°	267.3	267.3	261.7	250.6	334.1	361.9	384.2	467.7	517.8	601.3
57.5°	183.7	194.9	178.2	206.0	217.1	272.8	289.5	367.5	395.3	506.7
60°	22.3	27.8	39.0	150.3	144.8	183.7	217.1	289.5	322.9	389.8
62.5°	5.6	5.6	11.1	27.8	100.2	122.5	172.6	200.4	233.9	300.7
65°	0.0	0.0	5.6	11.1	22.3	66.8	89.1	116.9	167.0	211.6
67.5°	0.0	0.0	5.6	11.1	11.1	27.8	44.5	72.4	89.1	155.9
70°	0.0	0.0	5.6	11.1	11.1	22.3	27.8	33.4	61.2	83.5
72.5°	0.0	0.0	5.6	11.1	16.7	22.3	27.8	27.8	27.8	55.7
75°	0.0	0.0	5.6	11.1	16.7	22.3	27.8	27.8	22.3	22.3
77.5°	0.0	0.0	5.6	11.1	22.3	27.8	33.4	27.8	16.7	16.7
80°	0.0	0.0	5.6	16.7	27.8	39.0	44.5	33.4	16.7	11.1
82.5°	0.0	0.0	11.1	22.3	33.4	44.5	61.2	50.1	22.3	11.1
85°	0.0	0.0	5.6	16.7	33.4	44.5	89.1	61.2	27.8	5.6
87.5°	0.0	0.0	0.0	5.6	5.6	11.1	33.4	22.3	11.1	5.6
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°
507797.4	0°	507797.4	507797.4	507797.4	507797.4	507797.4	507797.4	507797.4	507797.4
499657.2	1°	503148.2	503499.0	502352.0	504128.2	503504.6	499852.0	498643.8	497212.9
479852.2	2°	478382.3	480169.5	480258.6	482229.7	482201.8	477942.4	476622.8	479056.0
445052.8	3°	443705.4	445787.8	443911.4	447413.6	446361.3	441194.3	439852.4	442614.1
401033.1	4°	399836.0	399440.7	398794.8	396801.5	399256.9	395732.4	393076.6	396823.8
349992.2	5°	349290.6	348410.9	347152.6	346562.4	348388.6	346133.7	340671.5	346144.8
299792.1	6°	300159.6	296373.4	296189.6	295861.1	296044.9	289730.9	290109.5	294185.2
245443.9	7°	248038.5	248734.5	247314.7	249592.0	247854.8	243578.6	241930.5	246223.4
207470.8	8°	206023.2	205143.5	204057.7	207459.7	204447.5	201641.3	199720.3	203111.2
169586.9	9°	169269.5	167749.5	166647.0	166474.4	166942.1	161674.9	162744.0	165310.8
137905.6	10°	137955.7	135461.3	136068.2	136229.6	135717.4	132265.3	132298.7	133184.0
84581.9	12.5°	84281.2	83056.3	83362.5	83529.5	84570.7	83356.9	81642.0	80405.9
53329.3	15°	52972.9	52093.2	53891.6	55099.9	54854.9	53774.7	52967.4	51848.2
35450.8	17.5°	35122.3	36274.8	36280.4	37382.8	37494.2	36414.0	35790.4	34782.6
23056.6	20°	22973.1	23452.0	24448.6	25228.1	25679.1	24855.1	24109.0	23418.6
14376.3	22.5°	14376.3	15211.5	15835.1	16848.4	17260.5	16659.1	16130.2	15567.8
8975.4	25°	8825.1	9420.9	9938.7	10818.4	11380.8	11091.2	10606.8	10211.5
5796.2	27.5°	5885.3	6135.8	6391.9	6998.8	7583.5	7422.0	7227.1	6987.7
4086.8	30°	4148.1	4170.4	4443.2	4782.8	5172.6	5272.8	5183.7	5061.2
3001.1	32.5°	3056.8	3145.9	3273.9	3485.5	3747.2	3986.6	3942.1	3886.4
2294.0	35°	2360.8	2494.4	2600.2	2761.7	2900.9	3129.2	3168.1	3151.4
1887.5	37.5°	1926.5	2043.4	2149.2	2243.9	2360.8	2516.7	2639.2	2644.7
1559.0	40°	1598.0	1703.8	1843.0	1915.4	1998.9	2115.8	2266.1	2277.3
1319.6	42.5°	1347.4	1447.7	1586.8	1675.9	1737.2	1848.5	1998.9	2021.1
1130.3	45°	1158.1	1219.4	1364.1	1469.9	1531.2	1603.6	1765.0	1787.3
974.4	47.5°	1007.8	1069.0	1158.1	1308.5	1364.1	1430.9	1559.0	1598.0
863.0	50°	885.3	946.5	1024.5	1158.1	1241.6	1297.3	1403.1	1458.8
751.7	52.5°	785.1	846.3	929.8	1035.6	1130.3	1180.4	1280.6	1353.0
612.5	55°	657.0	762.8	824.0	918.7	1046.8	1091.3	1169.3	1263.9
534.5	57.5°	573.5	662.6	751.7	829.6	957.7	1013.4	1091.3	1180.4
423.2	60°	484.4	567.9	673.7	740.5	863.0	935.4	1018.9	1102.4
322.9	62.5°	384.2	495.5	567.9	662.6	779.5	874.2	941.0	1024.5
250.6	65°	284.0	406.5	490.0	590.2	701.6	801.8	857.5	946.5
178.2	67.5°	206.0	317.4	417.6	512.2	618.0	718.3	773.9	851.9
111.4	70°	161.5	233.9	345.2	428.7	540.1	623.6	684.9	735.0
72.4	72.5°	94.7	178.2	278.4	373.0	473.3	528.9	573.5	618.0
33.4	75°	61.2	139.2	228.3	311.8	384.2	434.3	473.3	512.2
16.7	77.5°	39.0	100.2	183.7	261.7	295.1	356.3	389.8	412.0
11.1	80°	22.3	78.0	161.5	211.6	239.4	278.4	311.8	339.6
11.1	82.5°	16.7	66.8	133.6	178.2	178.2	222.7	239.4	239.4
5.6	85°	11.1	55.7	105.8	167.0	133.6	167.0	155.9	155.9
5.6	87.5°	11.1	39.0	50.1	72.4	61.2	72.4	72.4	83.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
507797.4
491544.8
468749.8
430348.0
383260.4
331723.9
282370.1
234547.5
193428.6
157293.0
127159.5
79654.3
51274.7
34532.1
23179.1
15267.2
9983.2
6848.5
4977.7
3841.8
3095.7
2605.8
2260.6
2004.4
1781.7
1603.6
1464.4
1353.0
1269.5
1186.0
1124.7
1063.5
963.2
857.5
751.7
629.2
512.2
400.9
306.2
222.7
150.3
83.5
0.0

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