

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: P638600

Luminaire Tested: **EPH-VN-03-E-935-U-33-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638600
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-03-E-935-U-33-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 3 distribution lens and Visor
Light Source: (48) 3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17811.5 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

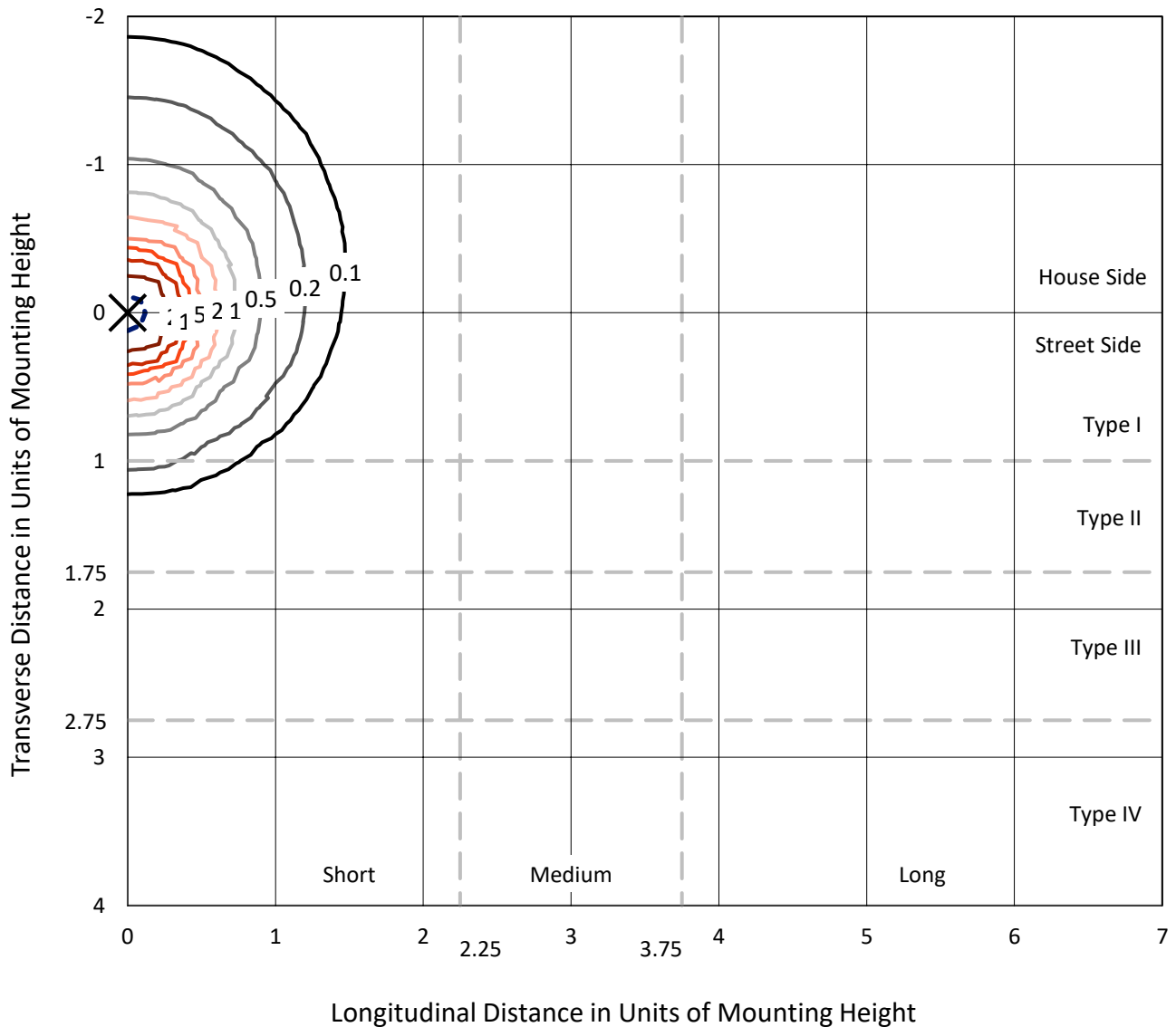
Input Watts (W): 232.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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 CATALOG NUMBER: EPH-VN-03-E-935-U-33-VI

Iso-Footcandle Lines of Horizontal Illumination

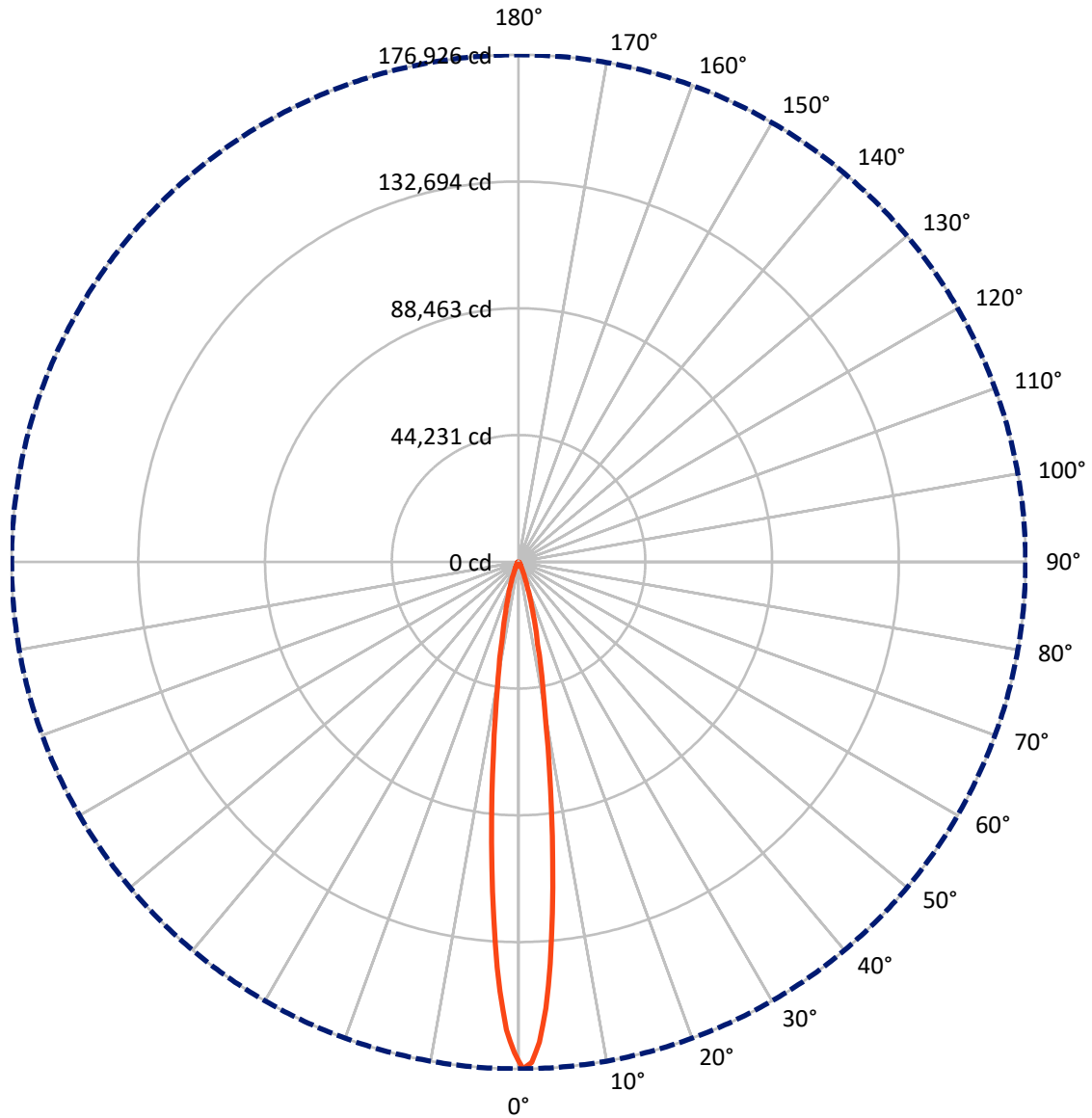
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 442.3 fc
 Type V - Short - N/A

REPORT NUMBER: P638600
CATALOG NUMBER: EPH-VN-03-E-935-U-33-VI

Luminous Intensity Polar Plot



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

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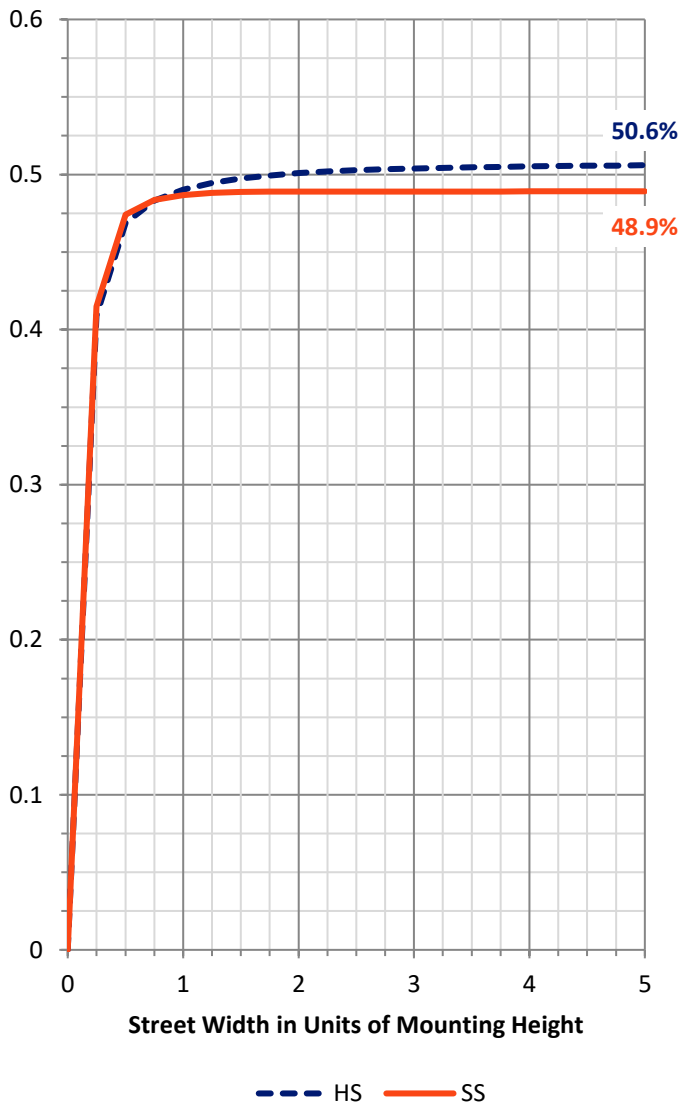
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9122.7	0.0	9122.7
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	8688.8	0.0	8688.8
	% Fixture	48.8	0.0	48.8
Total	Lumens	17811.5	0.0	17811.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8991.8	50.5
10°-20°	5756.5	32.3
20°-30°	1730.3	9.7
30°-40°	563.4	3.2
40°-50°	327.8	1.8
50°-60°	217.7	1.2
60°-70°	131.1	0.7
70°-80°	67.4	0.4
80°-90°	25.6	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°	17811.5	100.0
0°-180°	17811.5	100.0

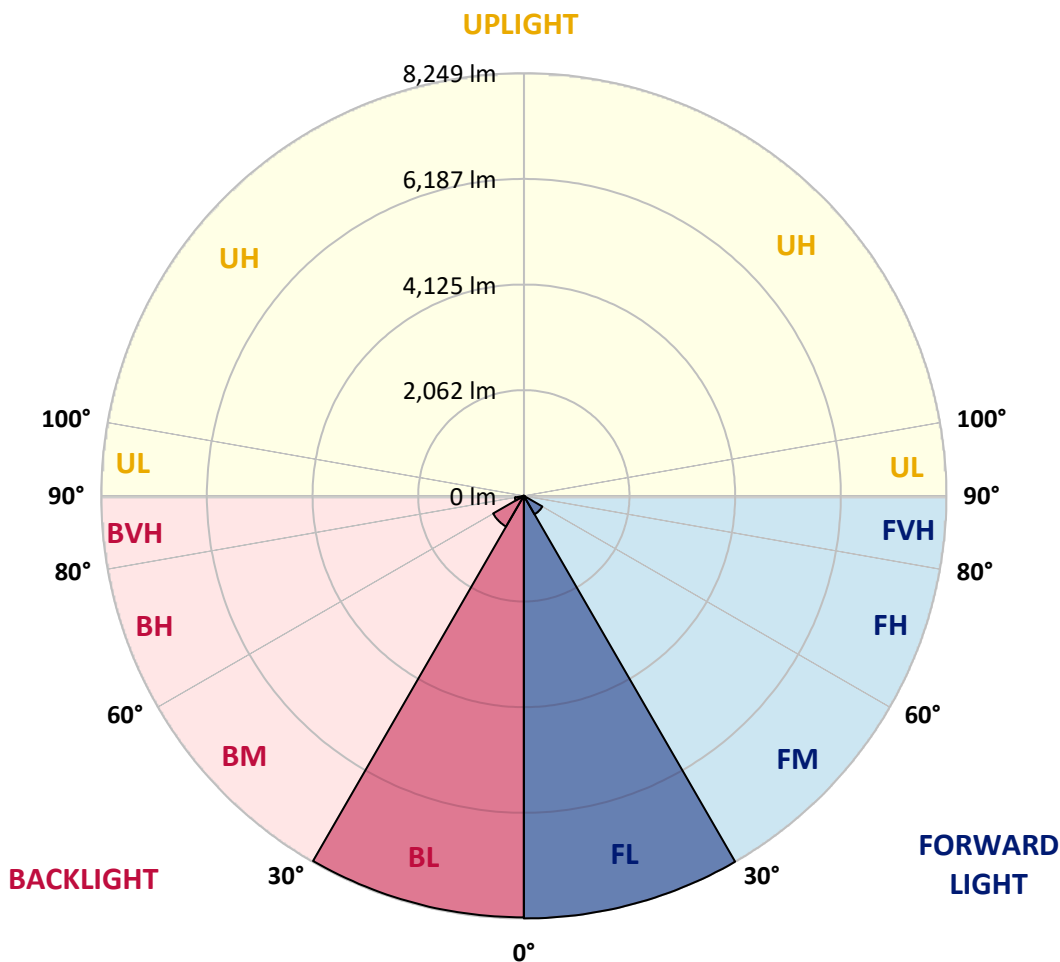


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8249.0	46.3			
FM (30°-60°)	416.3	2.3			
FH (60°-80°)	19.6	0.1			G0/660
FVH (80°-90°)	3.9	0.0			G0/10
BL (0°-30°)	8229.5	46.2	B5		
BM (30°-60°)	692.7	3.9	B1/1000		
BH (60°-80°)	178.8	1.0	B1/500		G0/660
BVH (80°-90°)	21.7	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°	176925.6	176925.6	176925.6	176925.6	176925.6	176925.6	176925.6	176925.6	176925.6	176925.6
1°	174807.2	174273.7	172896.4	173876.0	174737.4	174487.1	174469.7	174376.5	174246.6	175267.0
2°	167819.5	167474.2	165437.2	166277.2	167501.3	166609.0	167167.7	166676.9	166686.6	167904.9
3°	156040.1	156228.3	152978.9	154505.6	156206.9	154043.9	154715.1	155976.1	154655.0	154257.3
4°	140730.0	139096.6	137321.5	138873.5	139313.8	138054.8	139292.5	140836.7	139001.5	139083.0
5°	123251.0	122044.4	119943.4	120901.7	119809.5	120207.2	122061.8	122698.1	121417.8	119805.7
6°	105279.3	104421.8	101795.1	103176.4	102788.4	102563.4	104904.9	102964.9	103663.3	102687.5
7°	87571.4	85969.0	84678.9	86002.0	86087.3	85410.3	88450.2	88097.1	86826.5	86531.6
8°	72554.2	70955.7	69863.5	70849.0	71493.1	70430.0	71859.7	72798.7	71805.4	71894.6
9°	58518.7	58237.4	56718.4	58006.5	58706.9	57568.1	59151.1	59490.6	58561.4	59013.4
10°	48048.8	47720.9	46508.4	47030.3	48190.4	46832.4	48351.4	48462.0	47720.9	47932.4
12.5°	29692.9	29561.0	29528.0	29603.7	29588.2	29828.7	30216.7	29774.4	29716.2	28984.8
15°	19192.0	19387.9	19186.1	19574.1	19630.4	19857.4	19620.7	19263.7	18582.8	18245.3
17.5°	11977.3	12227.5	12572.8	13141.2	13709.6	13775.6	13461.3	13042.3	12712.5	12351.7
20°	6890.7	7012.9	6960.6	7641.5	9112.0	9511.6	9106.1	8665.8	8268.1	7903.4
22.5°	4281.5	4236.9	4318.3	4547.2	5026.4	6262.2	5930.4	5490.1	5201.0	4900.3
25°	2624.8	2673.3	2642.2	2768.3	2983.6	3507.4	3583.1	3393.0	3245.5	3090.3
27.5°	1689.7	1689.7	1703.3	1773.1	1920.6	1903.1	2306.6	2159.2	2079.6	2004.0
30°	1173.7	1177.6	1177.6	1218.3	1251.3	1193.1	1297.8	1487.9	1451.1	1392.9
32.5°	871.0	882.7	892.4	913.7	886.6	824.5	849.7	1070.9	1049.5	1028.2
35°	663.5	673.2	696.4	708.1	669.3	630.5	607.2	787.6	797.3	791.5
37.5°	483.0	488.9	531.5	576.2	531.5	496.6	483.0	605.3	651.8	646.0
40°	370.5	372.5	380.2	430.7	430.7	403.5	407.4	452.0	533.5	533.5
42.5°	318.2	318.2	325.9	318.2	320.1	349.2	358.9	364.7	452.0	452.0
45°	275.5	275.5	279.4	260.0	240.6	300.7	308.5	310.4	380.2	389.9
47.5°	230.9	230.9	238.6	213.4	203.7	238.6	260.0	265.8	327.9	335.6
50°	170.7	172.7	195.9	174.6	180.4	184.3	225.0	228.9	277.4	294.9
52.5°	114.5	114.5	118.3	135.8	157.1	151.3	182.4	195.9	221.2	244.4
55°	93.1	93.1	91.2	87.3	116.4	126.1	133.9	163.0	180.4	209.5
57.5°	64.0	67.9	62.1	71.8	75.7	95.1	100.9	128.0	137.7	176.5
60°	7.8	9.7	13.6	52.4	50.4	64.0	75.7	100.9	112.5	135.8
62.5°	1.9	1.9	3.9	9.7	34.9	42.7	60.1	69.8	81.5	104.8
65°	0.0	0.0	1.9	3.9	7.8	23.3	31.0	40.7	58.2	73.7
67.5°	0.0	0.0	1.9	3.9	3.9	9.7	15.5	25.2	31.0	54.3
70°	0.0	0.0	1.9	3.9	3.9	7.8	9.7	11.6	21.3	29.1
72.5°	0.0	0.0	1.9	3.9	5.8	7.8	9.7	9.7	9.7	19.4
75°	0.0	0.0	1.9	3.9	5.8	7.8	9.7	9.7	7.8	7.8
77.5°	0.0	0.0	1.9	3.9	7.8	9.7	11.6	9.7	5.8	5.8
80°	0.0	0.0	1.9	5.8	9.7	13.6	15.5	11.6	5.8	3.9
82.5°	0.0	0.0	3.9	7.8	11.6	15.5	21.3	17.5	7.8	3.9
85°	0.0	0.0	1.9	5.8	11.6	15.5	31.0	21.3	9.7	1.9
87.5°	0.0	0.0	0.0	1.9	1.9	3.9	11.6	7.8	3.9	1.9
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°
176925.6	0°	176925.6	176925.6	176925.6	176925.6	176925.6	176925.6	176925.6	176925.6	176925.6
174089.4	1°	175305.8	175428.0	175028.4	175647.2	175429.9	174157.3	173736.4	173237.8	172520.0
167189.0	2°	166676.9	167299.6	167330.6	168017.4	168007.7	166523.6	166063.8	166911.6	165256.8
155064.3	3°	154594.8	155320.4	154666.6	155886.8	155520.2	153719.9	153252.4	154214.6	153011.8
139727.0	4°	139309.9	139172.2	138947.2	138252.7	139108.2	137880.2	136954.8	138260.4	135688.1
121943.5	5°	121699.1	121392.5	120954.1	120748.5	121384.8	120599.1	118696.0	120603.0	116015.0
104452.9	6°	104580.9	103261.7	103197.7	103083.3	103147.3	100947.4	101079.3	102499.3	98681.5
85517.0	7°	86421.0	86663.5	86168.8	86962.3	86357.0	84867.1	84292.9	85788.6	83090.1
72286.5	8°	71782.1	71475.6	71097.3	72282.6	71233.1	70255.4	69586.1	70767.5	68763.6
59087.1	9°	58976.5	58446.9	58062.8	58002.6	58165.6	56330.4	56702.9	57597.2	56390.5
48048.8	10°	48066.2	47197.1	47408.6	47464.8	47286.3	46083.6	46095.2	46403.7	44952.6
29469.8	12.5°	29365.1	28938.3	29045.0	29103.2	29465.9	29043.0	28445.5	28014.9	27797.6
18580.9	15°	18456.7	18150.2	18776.8	19197.8	19112.4	18736.1	18454.8	18064.8	17750.6
12351.7	17.5°	12237.2	12638.8	12640.7	13024.8	13063.6	12687.3	12470.0	12118.9	12134.4
8033.3	20°	8004.2	8171.1	8518.3	8789.9	8947.1	8659.9	8400.0	8159.4	8058.6
5009.0	22.5°	5009.0	5300.0	5517.2	5870.3	6013.9	5804.3	5620.0	5424.1	5303.8
3127.2	25°	3074.8	3282.4	3462.8	3769.3	3965.3	3864.4	3695.6	3557.9	3493.9
2019.5	27.5°	2050.5	2137.8	2227.1	2438.5	2642.2	2586.0	2518.1	2434.6	2405.5
1423.9	30°	1445.3	1453.0	1548.1	1666.4	1802.2	1837.1	1806.1	1763.4	1730.4
1045.6	32.5°	1065.0	1096.1	1140.7	1214.4	1305.6	1389.0	1373.5	1354.1	1338.6
799.3	35°	822.5	869.1	906.0	962.2	1010.7	1090.3	1103.8	1098.0	1086.4
657.6	37.5°	671.2	712.0	748.8	781.8	822.5	876.9	919.5	921.5	909.8
543.2	40°	556.8	593.6	642.1	667.3	696.4	737.2	789.6	793.4	789.6
459.8	42.5°	469.5	504.4	552.9	583.9	605.3	644.1	696.4	704.2	696.4
393.8	45°	403.5	424.8	475.3	512.1	533.5	558.7	615.0	622.7	620.8
339.5	47.5°	351.1	372.5	403.5	455.9	475.3	498.6	543.2	556.8	556.8
300.7	50°	308.5	329.8	357.0	403.5	432.6	452.0	488.9	508.3	508.3
261.9	52.5°	273.5	294.9	324.0	360.8	393.8	411.3	446.2	471.4	471.4
213.4	55°	228.9	265.8	287.1	320.1	364.7	380.2	407.4	440.4	440.4
186.2	57.5°	199.8	230.9	261.9	289.1	333.7	353.1	380.2	411.3	415.1
147.4	60°	168.8	197.9	234.7	258.0	300.7	325.9	355.0	384.1	391.9
112.5	62.5°	133.9	172.7	197.9	230.9	271.6	304.6	327.9	357.0	368.6
87.3	65°	98.9	141.6	170.7	205.6	244.4	279.4	298.8	329.8	337.6
62.1	67.5°	71.8	110.6	145.5	178.5	215.3	250.3	269.7	296.8	302.6
38.8	70°	56.3	81.5	120.3	149.4	188.2	217.3	238.6	256.1	261.9
25.2	72.5°	33.0	62.1	97.0	130.0	164.9	184.3	199.8	215.3	219.2
11.6	75°	21.3	48.5	79.5	108.6	133.9	151.3	164.9	178.5	180.4
5.8	77.5°	13.6	34.9	64.0	91.2	102.8	124.2	135.8	143.6	139.7
3.9	80°	7.8	27.2	56.3	73.7	83.4	97.0	108.6	118.3	108.6
3.9	82.5°	5.8	23.3	46.6	62.1	62.1	77.6	83.4	83.4	79.5
1.9	85°	3.9	19.4	36.9	58.2	46.6	58.2	54.3	54.3	54.3
1.9	87.5°	3.9	13.6	17.5	25.2	21.3	25.2	25.2	29.1	29.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
176925.6
171262.9
163320.7
149940.9
133534.7
115578.5
98382.8
81720.5
67394.0
54803.7
44304.6
27753.0
17865.0
12031.6
8076.0
5319.4
3478.3
2386.1
1734.3
1338.6
1078.6
907.9
787.6
698.4
620.8
558.7
510.2
471.4
442.3
413.2
391.9
370.5
335.6
298.8
261.9
219.2
178.5
139.7
106.7
77.6
52.4
29.1
0.0

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