

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: P638611

Luminaire Tested: **EPH-VN-08-E-940-U-33-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638611
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-08-E-940-U-33-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 3 distribution lens and Visor
Light Source: (128) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49200.3 lumens
Efficiency: N/A
Efficacy: 78.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

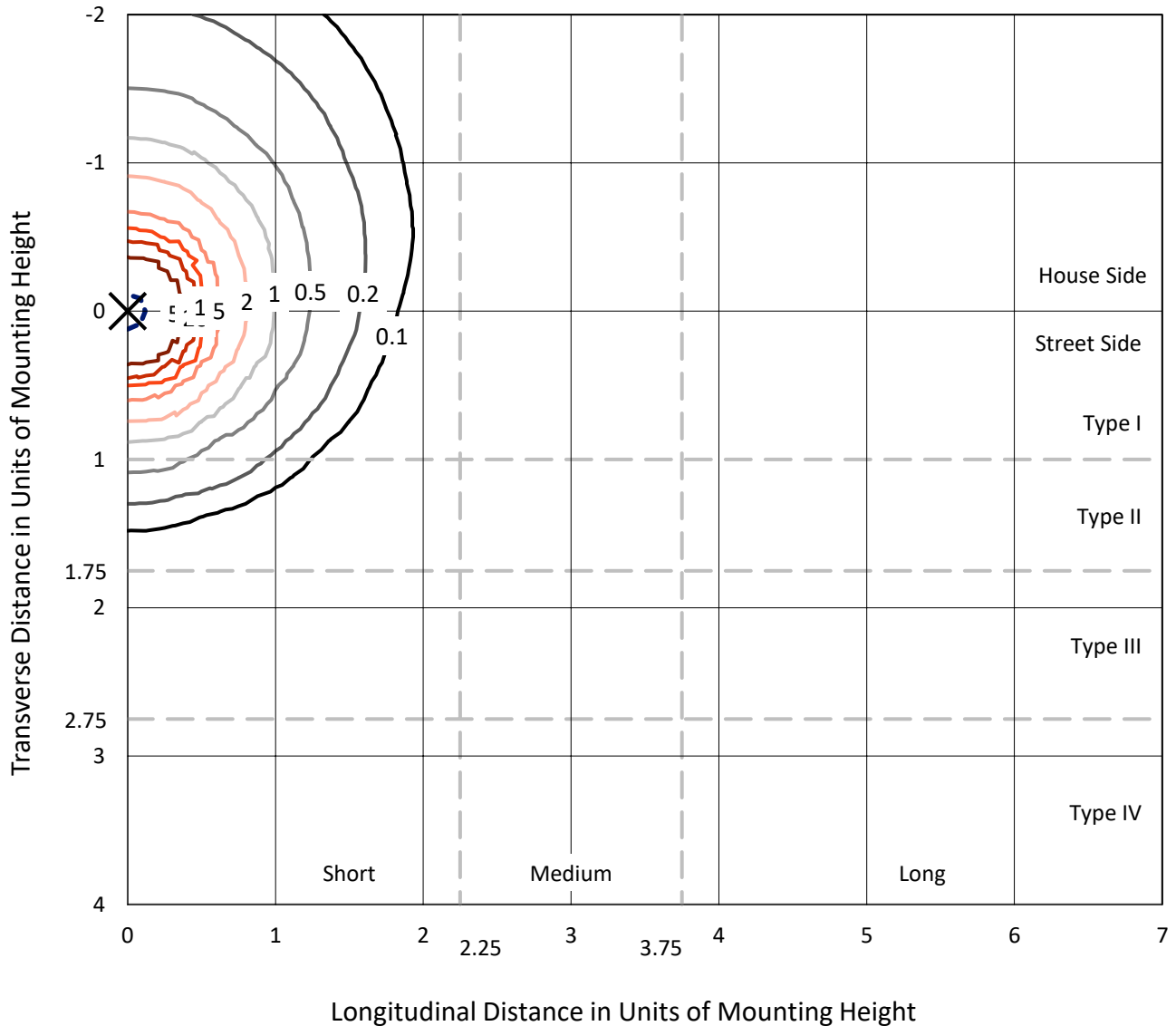
Input Watts (W): 626.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

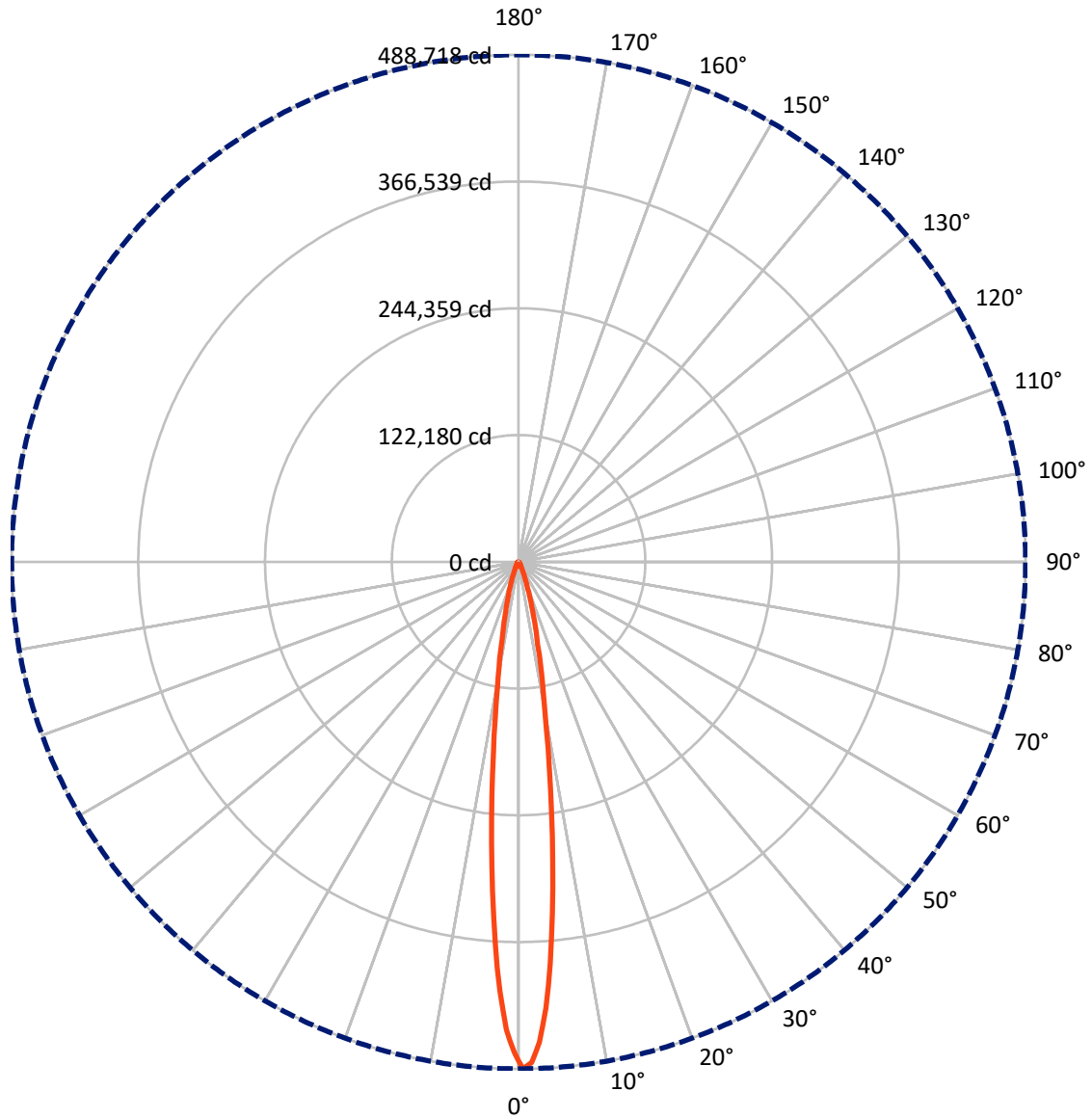
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1221.8 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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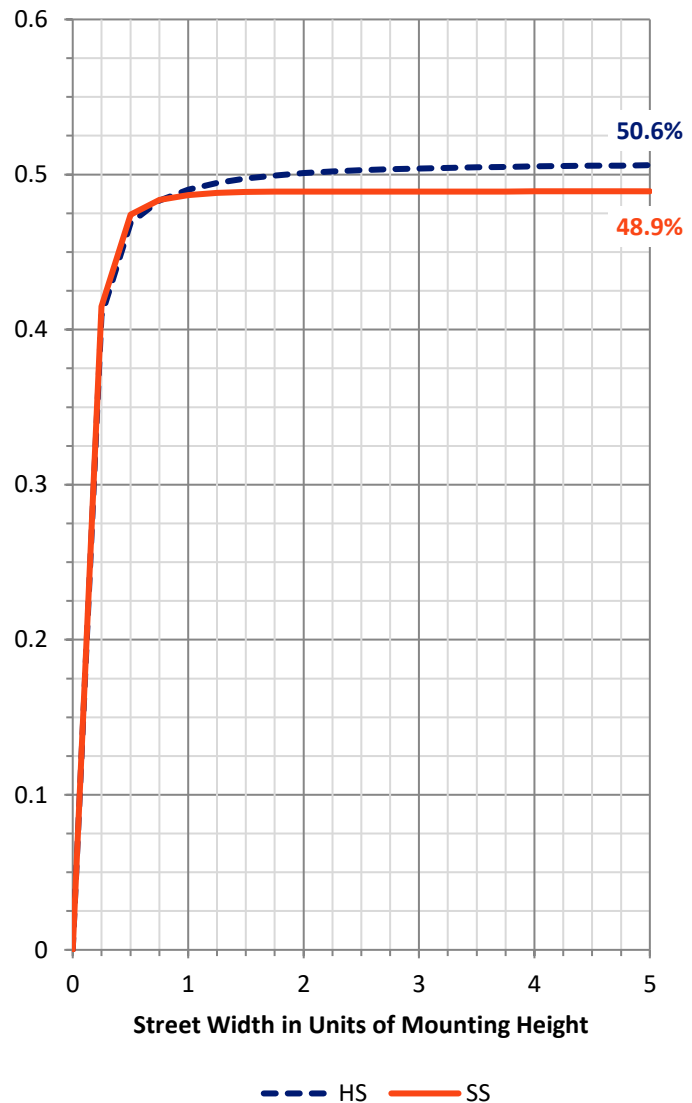
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25199.5	0.0	25199.5
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	24000.8	0.0	24000.8
	% Fixture	48.8	0.0	48.8
Total	Lumens	49200.3	0.0	49200.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24837.8	50.5
10°-20°	15901.0	32.3
20°-30°	4779.5	9.7
30°-40°	1556.2	3.2
40°-50°	905.5	1.8
50°-60°	601.4	1.2
60°-70°	362.0	0.7
70°-80°	186.1	0.4
80°-90°	70.7	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°	49200.3	100.0
0°-180°	49200.3	100.0



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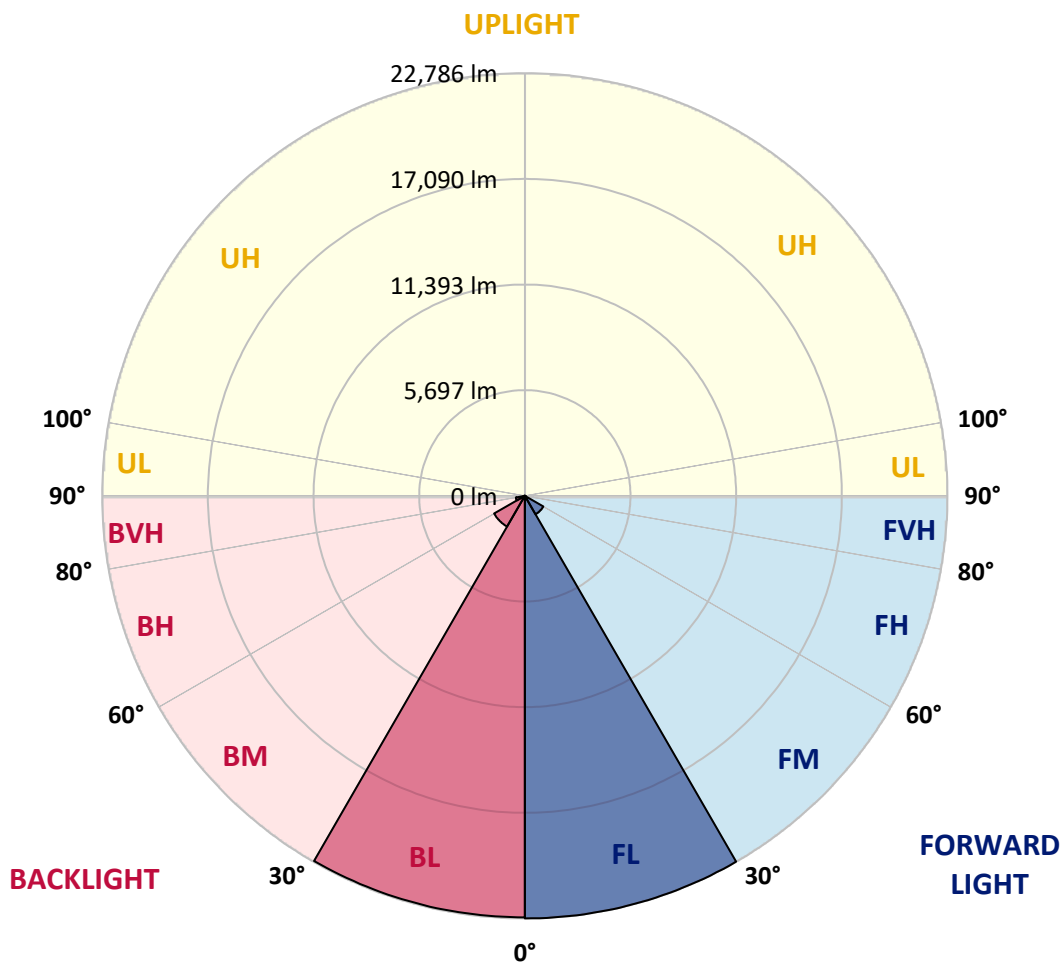
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	22786.2	46.3			
FM (30°-60°)	1149.8	2.3			
FH (60°-80°)	54.1	0.1			G0/660
FVH (80°-90°)	10.7	0.0			G1/100
BL (0°-30°)	22732.2	46.2	B5		
BM (30°-60°)	1913.3	3.9	B2/2500		
BH (60°-80°)	494.0	1.0	B1/500		G0/660
BVH (80°-90°)	60.0	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°	488718.0	488718.0	488718.0	488718.0	488718.0	488718.0	488718.0	488718.0	488718.0	488718.0
1°	482866.3	481392.7	477588.0	480294.2	482673.4	481982.2	481933.9	481676.7	481317.7	484136.3
2°	463564.3	462610.5	456983.9	459304.2	462685.5	460220.5	461763.8	460408.1	460434.9	463800.1
3°	431026.4	431546.1	422570.3	426787.6	431487.2	425512.3	427366.4	430849.5	427200.3	426101.7
4°	388735.6	384223.5	379320.3	383607.3	384823.7	381345.9	384764.8	389030.3	383961.0	384186.0
5°	340453.8	337120.6	331317.2	333964.4	330947.4	332046.0	337168.9	338926.5	335389.8	330936.7
6°	290810.8	288442.3	281186.6	285002.0	283930.3	283308.7	289776.6	284417.9	286347.0	283651.6
7°	241896.7	237470.4	233906.9	237561.5	237797.3	235927.1	244324.2	243348.9	239839.0	239024.4
8°	200415.1	195999.5	192982.6	195704.8	197483.9	194547.3	198496.7	201090.3	198346.6	198593.1
9°	161644.9	160867.9	156672.1	160230.2	162164.7	159019.2	163391.9	164329.6	161762.8	163011.4
10°	132724.1	131818.5	128469.3	129910.8	133115.3	129364.2	133560.0	133865.5	131818.5	132402.6
12.5°	82020.1	81655.7	81564.6	81773.6	81730.8	82395.2	83467.0	82245.2	82084.4	80064.2
15°	53013.5	53554.8	52997.5	54069.2	54224.6	54851.6	54197.8	53211.8	51330.9	50398.5
17.5°	33084.6	33775.8	34729.7	36299.8	37869.9	38052.1	37184.0	36026.5	35115.5	34118.8
20°	19034.1	19371.7	19227.0	21107.9	25169.8	26273.7	25153.7	23937.3	22838.7	21831.3
22.5°	11826.6	11703.4	11928.4	12560.8	13884.4	17297.9	16381.5	15165.1	14366.7	13536.1
25°	7250.3	7384.3	7298.5	7646.9	8241.7	9688.5	9897.5	9372.4	8965.1	8536.4
27.5°	4667.4	4667.4	4704.9	4897.8	5305.1	5256.9	6371.5	5964.2	5744.5	5535.5
30°	3242.0	3252.7	3252.7	3365.3	3456.4	3295.6	3585.0	4110.1	4008.3	3847.5
32.5°	2406.1	2438.2	2465.0	2523.9	2448.9	2277.4	2347.1	2958.0	2899.1	2840.1
35°	1832.7	1859.5	1923.8	1955.9	1848.7	1741.6	1677.3	2175.6	2202.4	2186.3
37.5°	1334.3	1350.4	1468.3	1591.5	1468.3	1371.8	1334.3	1671.9	1800.5	1784.4
40°	1023.5	1028.9	1050.3	1189.6	1189.6	1114.6	1125.3	1248.6	1473.6	1473.6
42.5°	878.8	878.8	900.3	878.8	884.2	964.6	991.4	1007.4	1248.6	1248.6
45°	760.9	760.9	771.7	718.1	664.5	830.6	852.0	857.4	1050.3	1077.1
47.5°	637.7	637.7	659.1	589.5	562.7	659.1	718.1	734.1	905.6	927.1
50°	471.6	476.9	541.2	482.3	498.4	509.1	621.6	632.3	766.3	814.5
52.5°	316.2	316.2	326.9	375.1	434.1	418.0	503.7	541.2	610.9	675.2
55°	257.2	257.2	251.9	241.1	321.5	348.3	369.7	450.1	498.4	578.7
57.5°	176.8	187.6	171.5	198.3	209.0	262.6	278.7	353.7	380.5	487.6
60°	21.4	26.8	37.5	144.7	139.3	176.8	209.0	278.7	310.8	375.1
62.5°	5.4	5.4	10.7	26.8	96.5	117.9	166.1	192.9	225.1	289.4
65°	0.0	0.0	5.4	10.7	21.4	64.3	85.7	112.5	160.8	203.6
67.5°	0.0	0.0	5.4	10.7	10.7	26.8	42.9	69.7	85.7	150.0
70°	0.0	0.0	5.4	10.7	10.7	21.4	26.8	32.2	58.9	80.4
72.5°	0.0	0.0	5.4	10.7	16.1	21.4	26.8	26.8	26.8	53.6
75°	0.0	0.0	5.4	10.7	16.1	21.4	26.8	26.8	21.4	21.4
77.5°	0.0	0.0	5.4	10.7	21.4	26.8	32.2	26.8	16.1	16.1
80°	0.0	0.0	5.4	16.1	26.8	37.5	42.9	32.2	16.1	10.7
82.5°	0.0	0.0	10.7	21.4	32.2	42.9	58.9	48.2	21.4	10.7
85°	0.0	0.0	5.4	16.1	32.2	42.9	85.7	58.9	26.8	5.4
87.5°	0.0	0.0	0.0	5.4	5.4	10.7	32.2	21.4	10.7	5.4
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°
488718.0	0°	488718.0	488718.0	488718.0	488718.0	488718.0	488718.0	488718.0	488718.0
480883.6	1°	484243.5	484581.1	483477.2	485186.7	484586.5	481071.2	479908.3	478531.2
461822.8	2°	460408.1	462128.2	462213.9	464110.9	464084.1	459984.7	458714.7	461056.5
428330.9	3°	427034.1	429038.3	427232.4	430603.0	429590.2	424617.4	423325.9	425983.8
385965.1	4°	384813.0	384432.5	383810.9	381892.5	384255.7	380863.6	378307.5	381913.9
336842.0	5°	336166.8	335320.1	334109.1	333541.0	335298.7	333128.4	327871.5	333139.1
288528.0	6°	288881.7	285237.8	285061.0	284744.8	284921.6	278844.9	279209.3	283131.8
236221.8	7°	238719.0	239388.8	238022.4	240214.1	238542.2	234426.7	232840.5	236972.1
199675.6	8°	198282.3	197435.6	196390.7	199664.8	196765.8	194065.0	192216.3	195479.7
163215.0	9°	162909.6	161446.7	160385.6	160219.5	160669.6	155600.3	156629.2	159099.6
132724.1	10°	132772.3	130371.6	130955.7	131111.1	130618.1	127295.7	127327.9	128179.9
81403.9	12.5°	81114.5	79935.6	80230.3	80391.1	81393.2	80225.0	78574.5	77384.9
51325.5	15°	50982.6	50135.9	51866.8	53029.6	52793.8	51754.2	50977.2	49900.1
34118.8	17.5°	33802.6	34911.9	34917.2	35978.3	36085.4	35045.8	34445.7	33475.7
22190.3	20°	22110.0	22570.8	23530.0	24280.2	24714.3	23921.2	23203.1	22538.7
13836.1	22.5°	13836.1	14639.9	15240.1	16215.4	16611.9	16033.2	15524.1	14982.9
8638.2	25°	8493.5	9066.9	9565.3	10411.9	10953.2	10674.5	10208.3	9827.8
5578.4	27.5°	5664.1	5905.3	6151.8	6735.9	7298.5	7143.1	6955.6	6725.2
3933.3	30°	3992.2	4013.7	4276.2	4603.1	4978.2	5074.7	4988.9	4871.1
2888.3	32.5°	2941.9	3027.7	3150.9	3354.5	3606.4	3836.8	3794.0	3740.4
2207.8	35°	2272.1	2400.7	2502.5	2657.9	2791.9	3011.6	3049.1	3033.0
1816.6	37.5°	1854.1	1966.6	2068.5	2159.6	2272.1	2422.1	2540.0	2545.4
1500.4	40°	1537.9	1639.8	1773.7	1843.4	1923.8	2036.3	2181.0	2191.7
1270.0	42.5°	1296.8	1393.3	1527.2	1613.0	1671.9	1779.1	1923.8	1945.2
1087.8	45°	1114.6	1173.6	1312.9	1414.7	1473.6	1543.3	1698.7	1720.1
937.8	47.5°	969.9	1028.9	1114.6	1259.3	1312.9	1377.2	1500.4	1537.9
830.6	50°	852.0	911.0	986.0	1114.6	1195.0	1248.6	1350.4	1404.0
723.4	52.5°	755.6	814.5	894.9	996.7	1087.8	1136.0	1232.5	1302.2
589.5	55°	632.3	734.1	793.1	884.2	1007.4	1050.3	1125.3	1216.4
514.4	57.5°	551.9	637.7	723.4	798.4	921.7	975.3	1050.3	1136.0
407.3	60°	466.2	546.6	648.4	712.7	830.6	900.3	980.6	1061.0
310.8	62.5°	369.7	476.9	546.6	637.7	750.2	841.3	905.6	986.0
241.1	65°	273.3	391.2	471.6	568.0	675.2	771.7	825.2	911.0
171.5	67.5°	198.3	305.4	401.9	493.0	594.8	691.3	744.9	819.9
107.2	70°	155.4	225.1	332.2	412.6	519.8	600.2	659.1	707.3
69.7	72.5°	91.1	171.5	267.9	359.0	455.5	509.1	551.9	594.8
32.2	75°	58.9	134.0	219.7	300.1	369.7	418.0	455.5	493.0
16.1	77.5°	37.5	96.5	176.8	251.9	284.0	343.0	375.1	396.5
10.7	80°	21.4	75.0	155.4	203.6	230.4	267.9	300.1	326.9
10.7	82.5°	16.1	64.3	128.6	171.5	171.5	214.3	230.4	230.4
5.4	85°	10.7	53.6	101.8	160.8	128.6	160.8	150.0	150.0
5.4	87.5°	10.7	37.5	48.2	69.7	58.9	69.7	69.7	80.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
488718.0
473076.0
451137.5
414178.6
368860.2
319260.1
271760.7
225734.9
186160.9
151383.0
122381.8
76661.4
49348.2
33234.6
22308.2
14693.5
9608.1
6591.2
4790.7
3697.5
2979.4
2507.9
2175.6
1929.1
1714.8
1543.3
1409.3
1302.2
1221.8
1141.4
1082.5
1023.5
927.1
825.2
723.4
605.5
493.0
385.8
294.7
214.3
144.7
80.4
0.0

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