

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: P638564

Luminaire Tested: **EPH-VN-03-E-730-U-33-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638564
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-730-U-33-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 3 distribution lens and Visor
Light Source: (48) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24426.4 lumens
Efficiency: N/A
Efficacy: 105.2 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

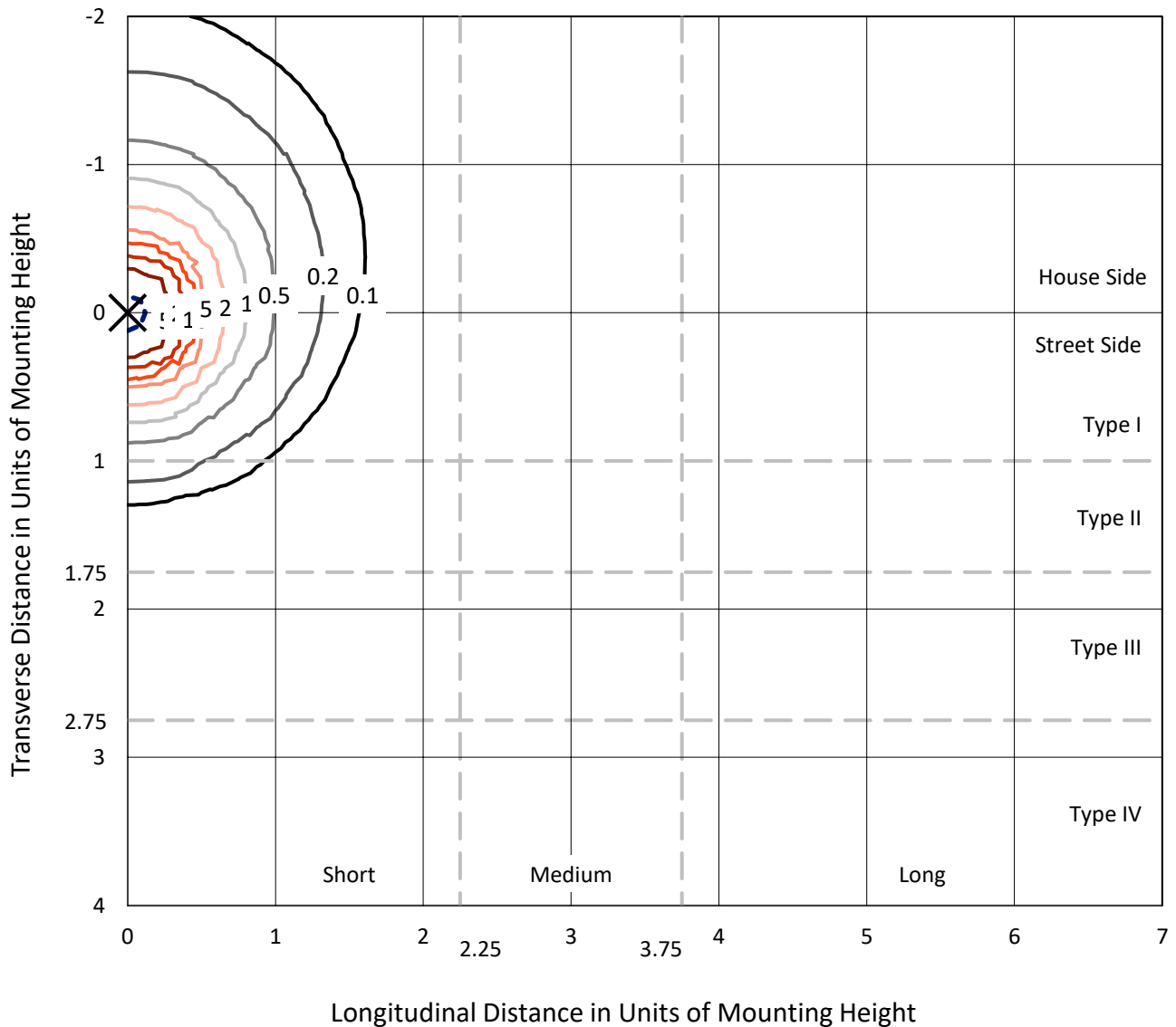
Input Watts (W): 232.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

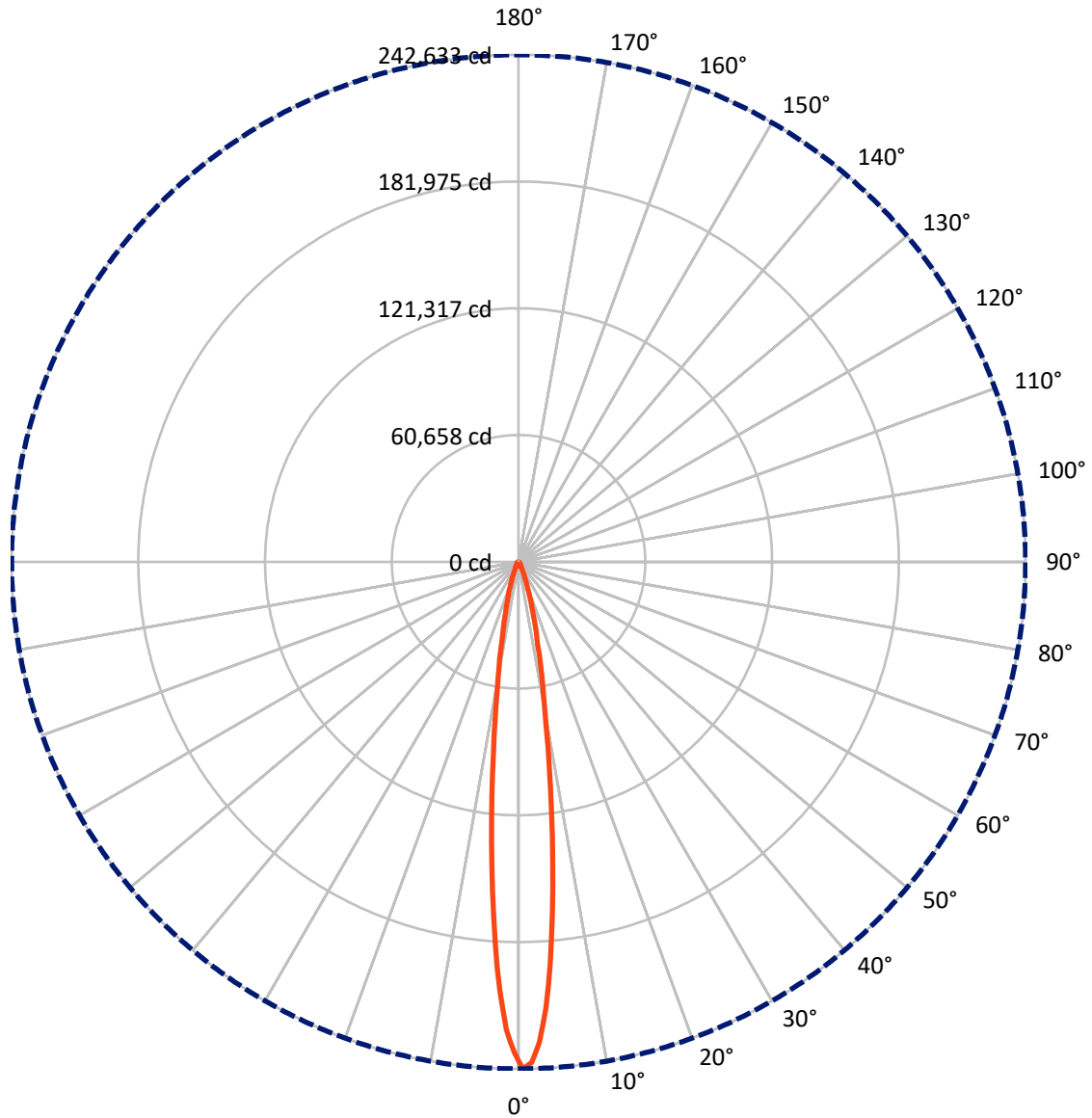
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 606.6 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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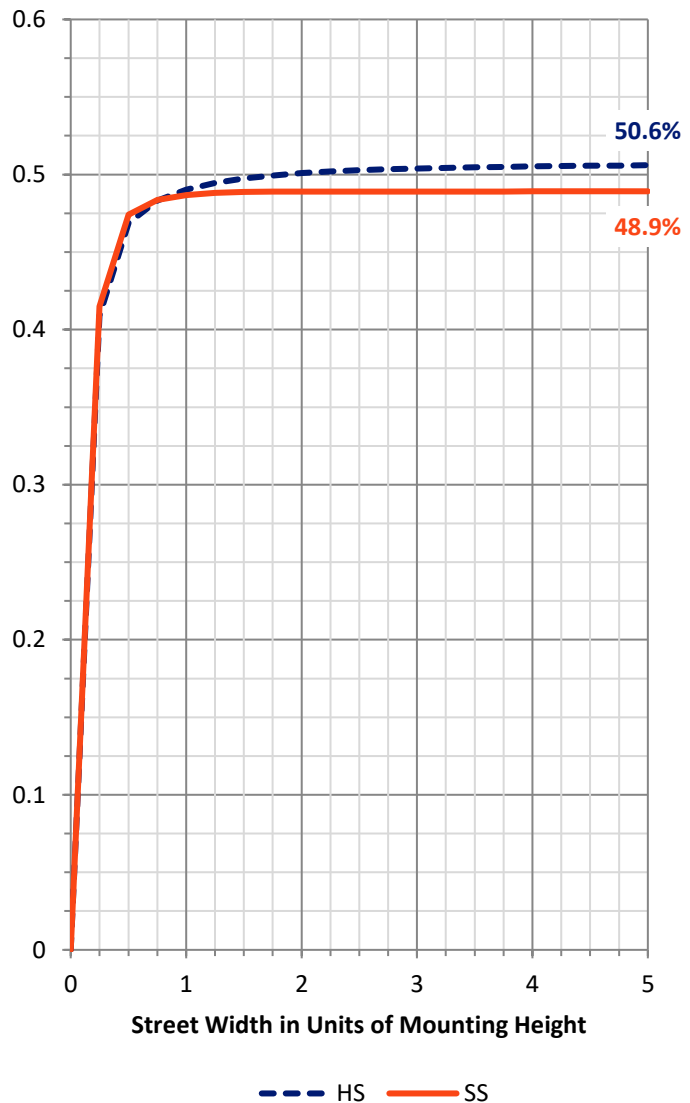
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12510.7	0.0	12510.7
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	11915.6	0.0	11915.6
	% Fixture	48.8	0.0	48.8
Total	Lumens	24426.4	0.0	24426.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12331.2	50.5
10°-20°	7894.4	32.3
20°-30°	2372.9	9.7
30°-40°	772.6	3.2
40°-50°	449.5	1.8
50°-60°	298.6	1.2
60°-70°	179.7	0.7
70°-80°	92.4	0.4
80°-90°	35.1	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°	24426.4	100.0
0°-180°	24426.4	100.0

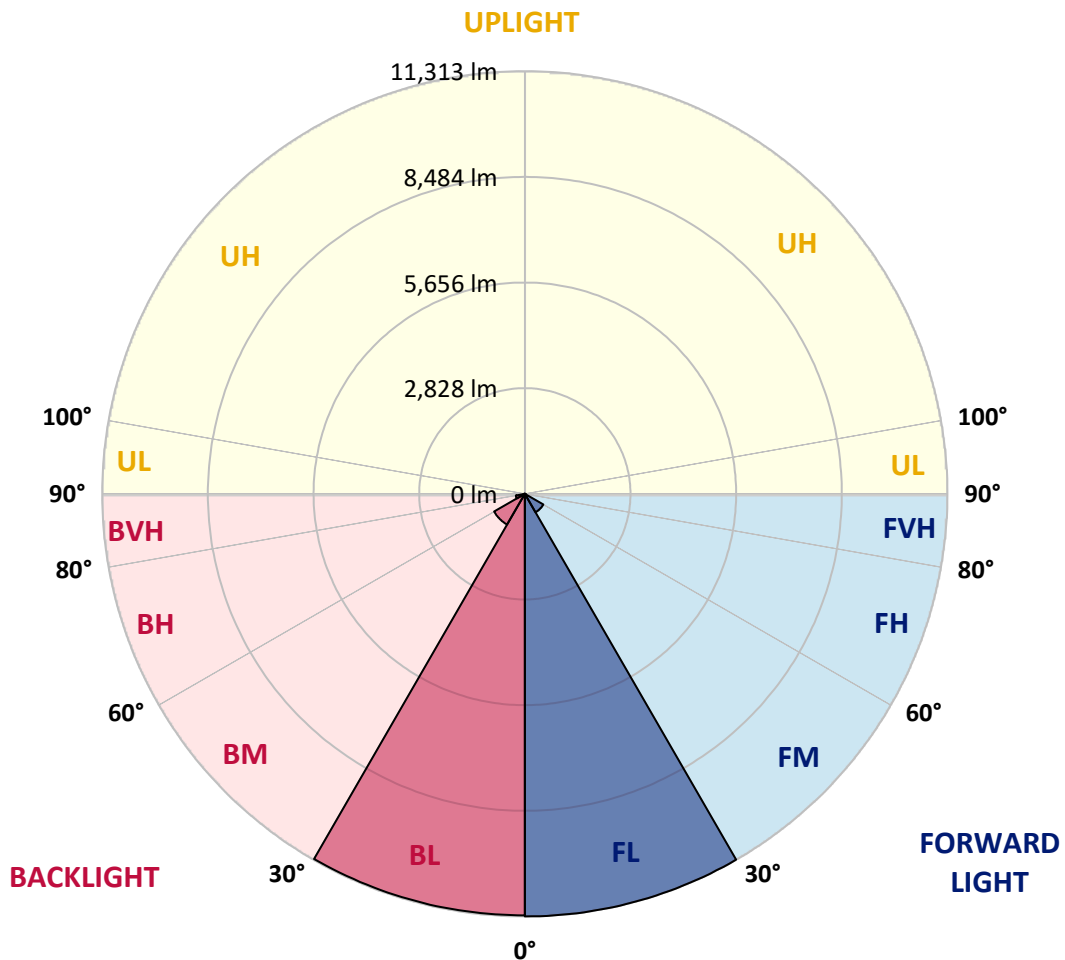


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	11312.6	46.3			
FM (30°-60°)	570.9	2.3			
FH (60°-80°)	26.9	0.1			G0/660
FVH (80°-90°)	5.3	0.0			G0/10
BL (0°-30°)	11285.8	46.2	B5		
BM (30°-60°)	949.9	3.9	B1/1000		
BH (60°-80°)	245.2	1.0	B1/500		G0/660
BVH (80°-90°)	29.8	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°	242633.3	242633.3	242633.3	242633.3	242633.3	242633.3	242633.3	242633.3	242633.3	242633.3
1°	239728.1	238996.5	237107.6	238451.1	239632.3	239289.1	239265.2	239137.5	238959.2	240358.6
2°	230145.2	229671.7	226878.2	228030.2	229708.9	228485.1	229251.3	228578.2	228591.5	230262.3
3°	213991.1	214249.2	209793.0	211886.7	214219.9	211253.6	212174.1	213903.3	212091.6	211546.2
4°	192995.1	190755.0	188320.7	190449.1	191053.0	189326.4	191023.7	193141.4	190624.6	190736.4
5°	169024.7	167369.9	164488.6	165802.9	164305.1	164850.5	167393.8	168266.4	166510.6	164299.8
6°	144378.5	143202.6	139600.4	141494.6	140962.5	140653.9	143865.0	141204.6	142162.4	140824.2
7°	120094.2	117896.7	116127.5	117941.9	118058.9	117130.5	121299.3	120815.1	119072.6	118668.2
8°	99499.8	97307.6	95809.8	97161.3	98044.6	96586.7	98547.4	99835.0	98472.9	98595.3
9°	80251.7	79865.9	77782.8	79549.3	80509.7	78948.1	81119.0	81584.5	80310.2	80930.1
10°	65893.4	65443.8	63781.0	64496.6	66087.6	64225.3	66308.4	66460.0	65443.8	65733.7
12.5°	40720.4	40539.5	40494.3	40598.1	40576.8	40906.7	41438.8	40832.2	40752.4	39749.4
15°	26319.6	26588.3	26311.6	26843.7	26920.8	27232.1	26907.5	26418.0	25484.2	25021.3
17.5°	16425.5	16768.6	17242.2	18021.7	18801.2	18891.7	18460.7	17886.0	17433.8	16938.9
20°	9449.8	9617.4	9545.6	10479.4	12496.0	13044.1	12488.0	11884.1	11338.7	10838.6
22.5°	5871.6	5810.4	5922.1	6236.0	6893.2	8587.8	8132.9	7529.0	7132.6	6720.2
25°	3599.6	3666.1	3623.5	3796.4	4091.7	4810.0	4913.8	4653.1	4450.9	4238.1
27.5°	2317.2	2317.2	2335.9	2431.6	2633.8	2609.9	3163.2	2961.1	2852.0	2748.2
30°	1609.6	1614.9	1614.9	1670.7	1716.0	1636.2	1779.8	2040.5	1990.0	1910.2
32.5°	1194.5	1210.5	1223.8	1253.1	1215.8	1130.7	1165.3	1468.6	1439.3	1410.0
35°	909.9	923.2	955.1	971.1	917.8	864.6	832.7	1080.1	1093.4	1085.5
37.5°	662.4	670.4	729.0	790.1	729.0	681.1	662.4	830.1	893.9	885.9
40°	508.1	510.8	521.4	590.6	590.6	553.4	558.7	619.9	731.6	731.6
42.5°	436.3	436.3	447.0	436.3	439.0	478.9	492.2	500.2	619.9	619.9
45°	377.8	377.8	383.1	356.5	329.9	412.4	423.0	425.7	521.4	534.7
47.5°	316.6	316.6	327.2	292.6	279.3	327.2	356.5	364.5	449.6	460.3
50°	234.1	236.8	268.7	239.4	247.4	252.7	308.6	313.9	380.4	404.4
52.5°	157.0	157.0	162.3	186.2	215.5	207.5	250.1	268.7	303.3	335.2
55°	127.7	127.7	125.0	119.7	159.6	172.9	183.6	223.5	247.4	287.3
57.5°	87.8	93.1	85.1	98.4	103.8	130.4	138.3	175.6	188.9	242.1
60°	10.6	13.3	18.6	71.8	69.2	87.8	103.8	138.3	154.3	186.2
62.5°	2.7	2.7	5.3	13.3	47.9	58.5	82.5	95.8	111.7	143.7
65°	0.0	0.0	2.7	5.3	10.6	31.9	42.6	55.9	79.8	101.1
67.5°	0.0	0.0	2.7	5.3	5.3	13.3	21.3	34.6	42.6	74.5
70°	0.0	0.0	2.7	5.3	5.3	10.6	13.3	16.0	29.3	39.9
72.5°	0.0	0.0	2.7	5.3	8.0	10.6	13.3	13.3	13.3	26.6
75°	0.0	0.0	2.7	5.3	8.0	10.6	13.3	13.3	10.6	10.6
77.5°	0.0	0.0	2.7	5.3	10.6	13.3	16.0	13.3	8.0	8.0
80°	0.0	0.0	2.7	8.0	13.3	18.6	21.3	16.0	8.0	5.3
82.5°	0.0	0.0	5.3	10.6	16.0	21.3	29.3	23.9	10.6	5.3
85°	0.0	0.0	2.7	8.0	16.0	21.3	42.6	29.3	13.3	2.7
87.5°	0.0	0.0	0.0	2.7	2.7	5.3	16.0	10.6	5.3	2.7
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°
242633.3	0°	242633.3	242633.3	242633.3	242633.3	242633.3	242633.3	242633.3	242633.3
238743.7	1°	240411.8	240579.4	240031.4	240880.0	240582.1	238836.8	238259.5	237575.8
229280.6	2°	228578.2	229432.2	229474.8	230416.6	230403.3	228368.1	227737.5	228900.2
212652.9	3°	212009.1	213004.1	212107.6	213781.0	213278.1	210809.3	210168.1	211487.7
191619.6	4°	191047.6	190858.8	190550.2	189597.7	190771.0	189086.9	187817.9	189608.4
167231.5	5°	166896.3	166476.0	165874.7	165592.7	166465.3	165387.9	162778.0	165393.2
143245.2	6°	143420.8	141611.7	141523.9	141366.9	141454.7	138437.8	138618.7	140566.1
117276.8	7°	118516.5	118849.1	118170.7	119258.8	118428.7	116385.5	115598.0	117649.2
99132.7	8°	98441.0	98020.6	97501.8	99127.4	97688.1	96347.2	95429.4	97049.6
81031.2	9°	80879.5	80153.2	79626.5	79544.0	79767.5	77250.7	77761.5	78988.0
65893.4	10°	65917.3	64725.4	65015.4	65092.6	64847.8	63198.4	63214.3	63637.3
40414.5	12.5°	40270.8	39685.5	39831.9	39911.7	40409.2	39829.2	39009.8	38419.2
25481.5	15°	25311.3	24890.9	25750.2	26327.5	26210.5	25694.4	25308.6	24773.9
16938.9	17.5°	16781.9	17332.7	17335.3	17862.1	17915.3	17399.2	17101.2	16619.7
11016.8	20°	10976.9	11205.7	11681.9	12054.4	12269.9	11876.1	11519.6	11189.7
6869.2	22.5°	6869.2	7268.3	7566.2	8050.4	8247.3	7960.0	7707.2	7438.5
4288.6	25°	4216.8	4501.4	4748.9	5169.2	5437.9	5299.6	5068.1	4879.2
2769.5	27.5°	2812.1	2931.8	3054.2	3344.2	3623.5	3546.3	3453.2	3338.8
1952.8	30°	1982.0	1992.7	2123.0	2285.3	2471.5	2519.4	2476.9	2418.3
1434.0	32.5°	1460.6	1503.1	1564.3	1665.4	1790.5	1904.9	1883.6	1857.0
1096.1	35°	1128.0	1191.9	1242.4	1319.6	1386.1	1495.2	1513.8	1505.8
901.9	37.5°	920.5	976.4	1026.9	1072.2	1128.0	1202.5	1261.0	1263.7
744.9	40°	763.5	814.1	880.6	915.2	955.1	1011.0	1082.8	1088.1
630.5	42.5°	643.8	691.7	758.2	800.8	830.1	883.3	955.1	965.7
540.1	45°	553.4	582.6	651.8	702.4	731.6	766.2	843.4	854.0
465.6	47.5°	481.5	510.8	553.4	625.2	651.8	683.7	744.9	763.5
412.4	50°	423.0	452.3	489.5	553.4	593.3	619.9	670.4	697.0
359.2	52.5°	375.1	404.4	444.3	494.8	540.1	564.0	611.9	646.5
292.6	55°	313.9	364.5	393.7	439.0	500.2	521.4	558.7	603.9
255.4	57.5°	274.0	316.6	359.2	396.4	457.6	484.2	521.4	564.0
202.2	60°	231.5	271.4	321.9	353.8	412.4	447.0	486.9	526.8
154.3	62.5°	183.6	236.8	271.4	316.6	372.5	417.7	449.6	489.5
119.7	65°	135.7	194.2	234.1	282.0	335.2	383.1	409.7	452.3
85.1	67.5°	98.4	151.6	199.5	244.8	295.3	343.2	369.8	407.0
53.2	70°	77.2	111.7	164.9	204.9	258.1	298.0	327.2	351.2
34.6	72.5°	45.2	85.1	133.0	178.2	226.1	252.7	274.0	295.3
16.0	75°	29.3	66.5	109.1	149.0	183.6	207.5	226.1	244.8
8.0	77.5°	18.6	47.9	87.8	125.0	141.0	170.3	186.2	196.9
5.3	80°	10.6	37.2	77.2	101.1	114.4	133.0	149.0	162.3
5.3	82.5°	8.0	31.9	63.9	85.1	85.1	106.4	114.4	114.4
2.7	85°	5.3	26.6	50.5	79.8	63.9	79.8	74.5	74.5
2.7	87.5°	5.3	18.6	23.9	34.6	29.3	34.6	34.6	39.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
242633.3
234867.5
223975.7
205626.8
183127.6
158502.7
134920.7
112070.3
92423.1
75157.0
60758.7
38060.0
24499.8
16499.9
11075.3
7294.9
4770.1
3272.3
2378.4
1835.7
1479.2
1245.1
1080.1
957.8
851.3
766.2
699.7
646.5
606.6
566.7
537.4
508.1
460.3
409.7
359.2
300.6
244.8
191.6
146.3
106.4
71.8
39.9
0.0

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