

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: P638603

Luminaire Tested: **EPH-VN-07-E-935-U-33-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638603
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-935-U-33-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 3 distribution lens and Visor
Light Source: (112) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37276.9 lumens
Efficiency: N/A
Efficacy: 70.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

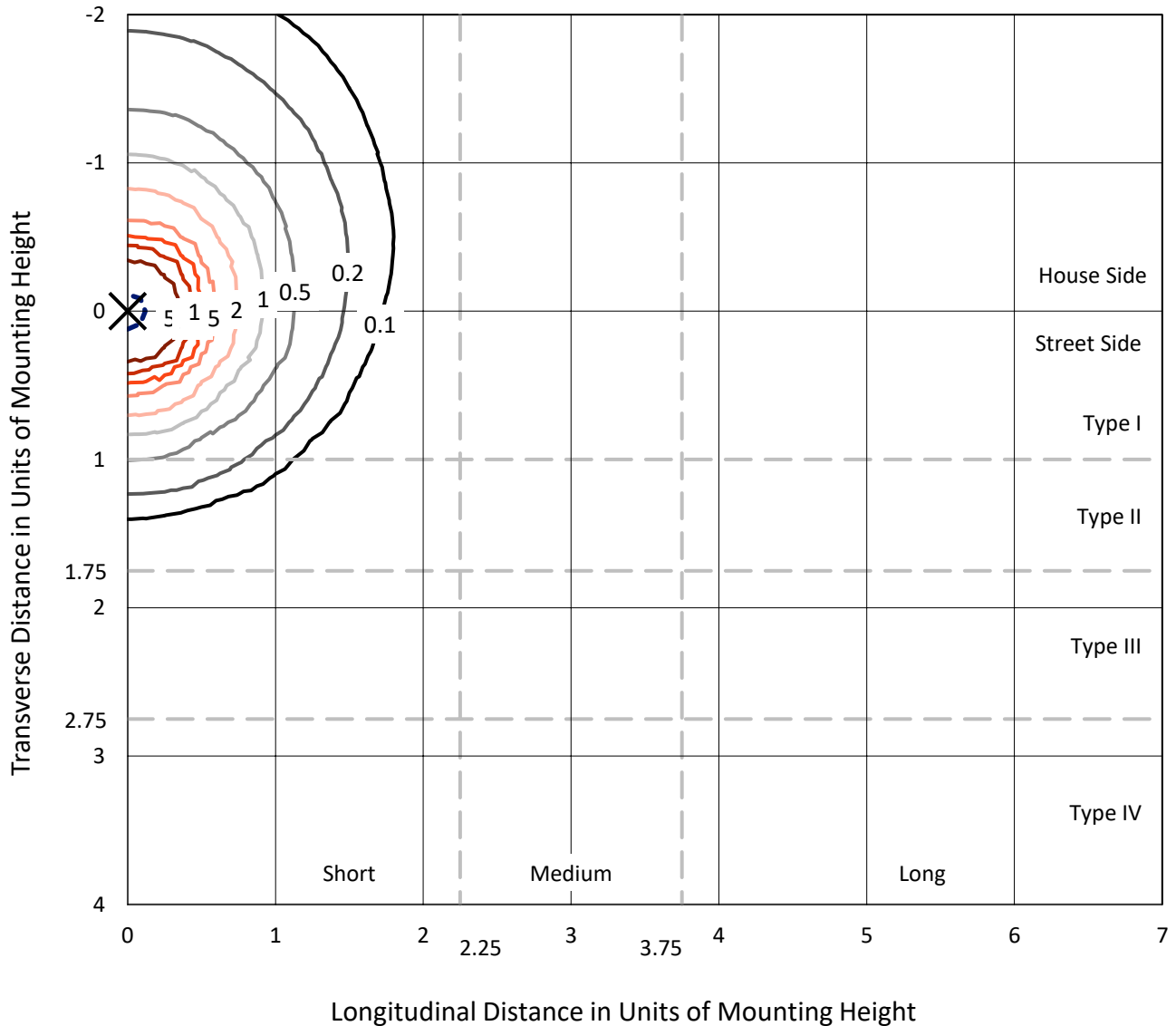
Input Watts (W): 532.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

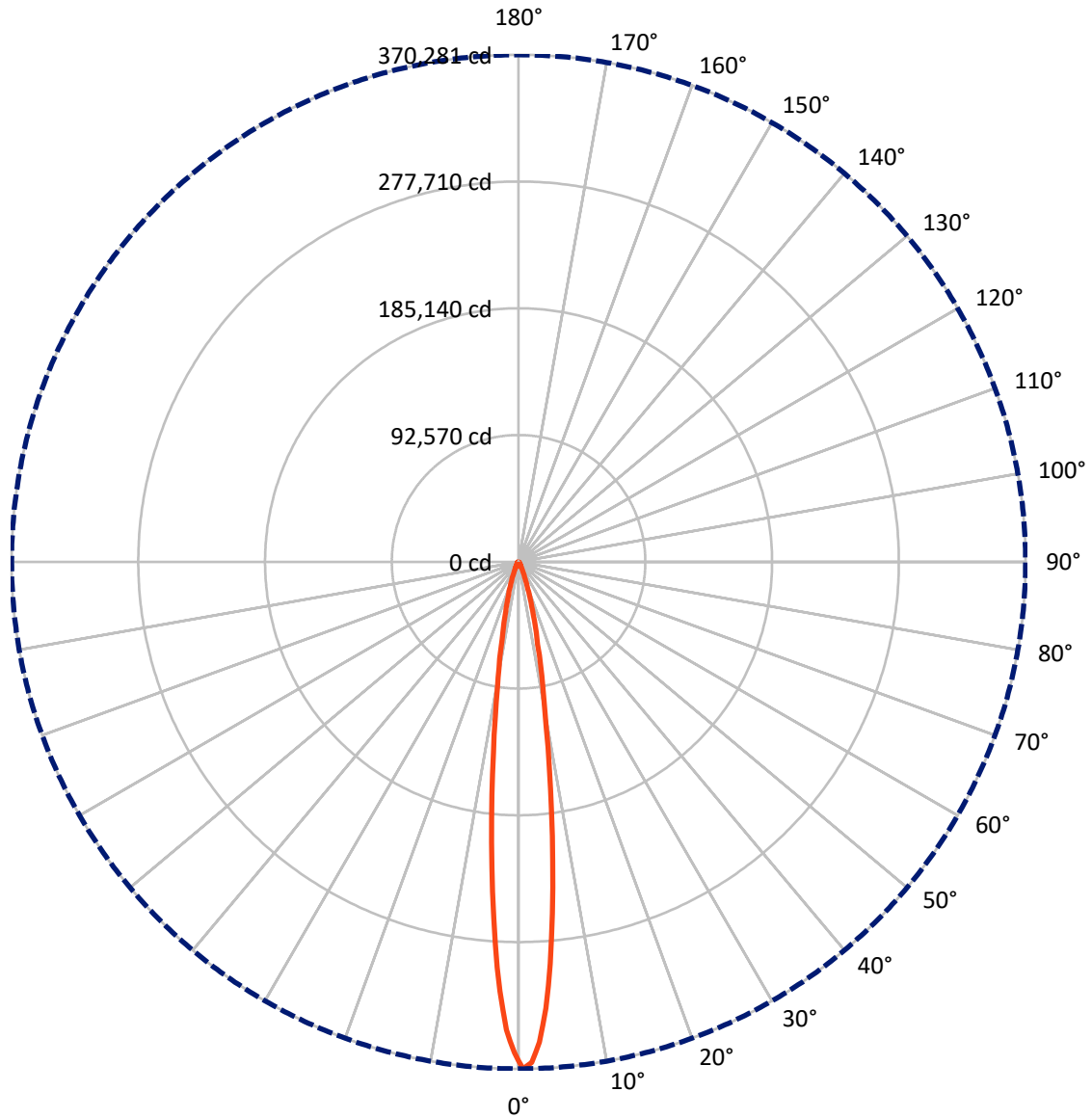
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 925.7 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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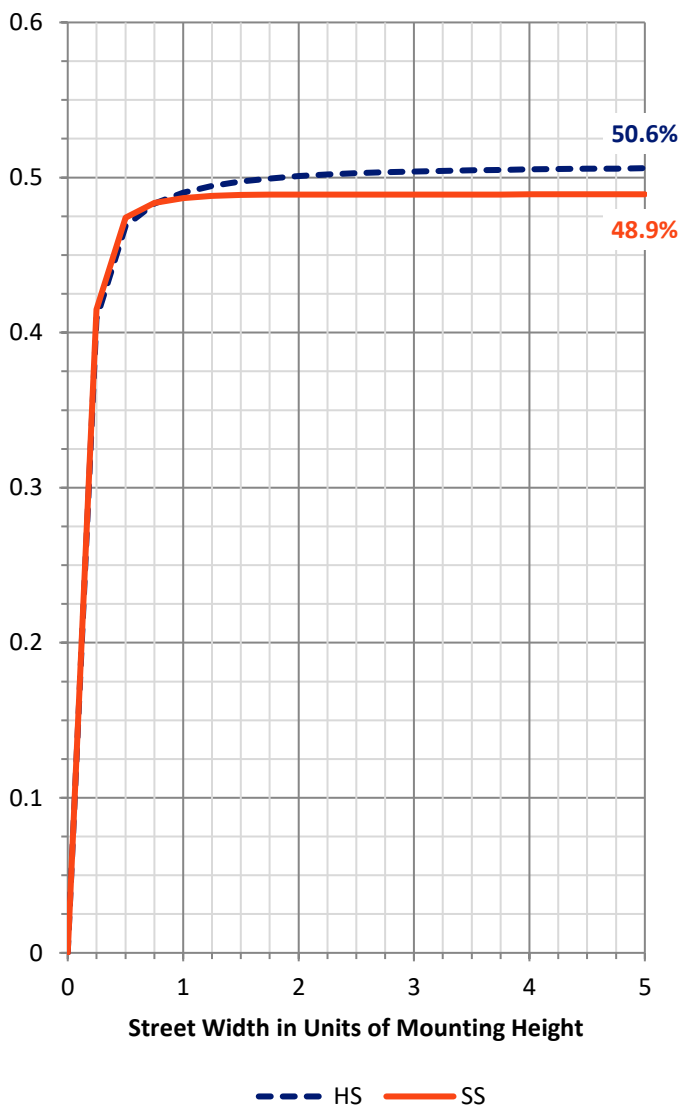
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19092.5	0.0	19092.5
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	18184.4	0.0	18184.4
	% Fixture	48.8	0.0	48.8
Total	Lumens	37276.9	0.0	37276.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18818.5	50.5
10°-20°	12047.5	32.3
20°-30°	3621.2	9.7
30°-40°	1179.1	3.2
40°-50°	686.0	1.8
50°-60°	455.7	1.2
60°-70°	274.3	0.7
70°-80°	141.0	0.4
80°-90°	53.6	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°	37276.9	100.0
0°-180°	37276.9	100.0

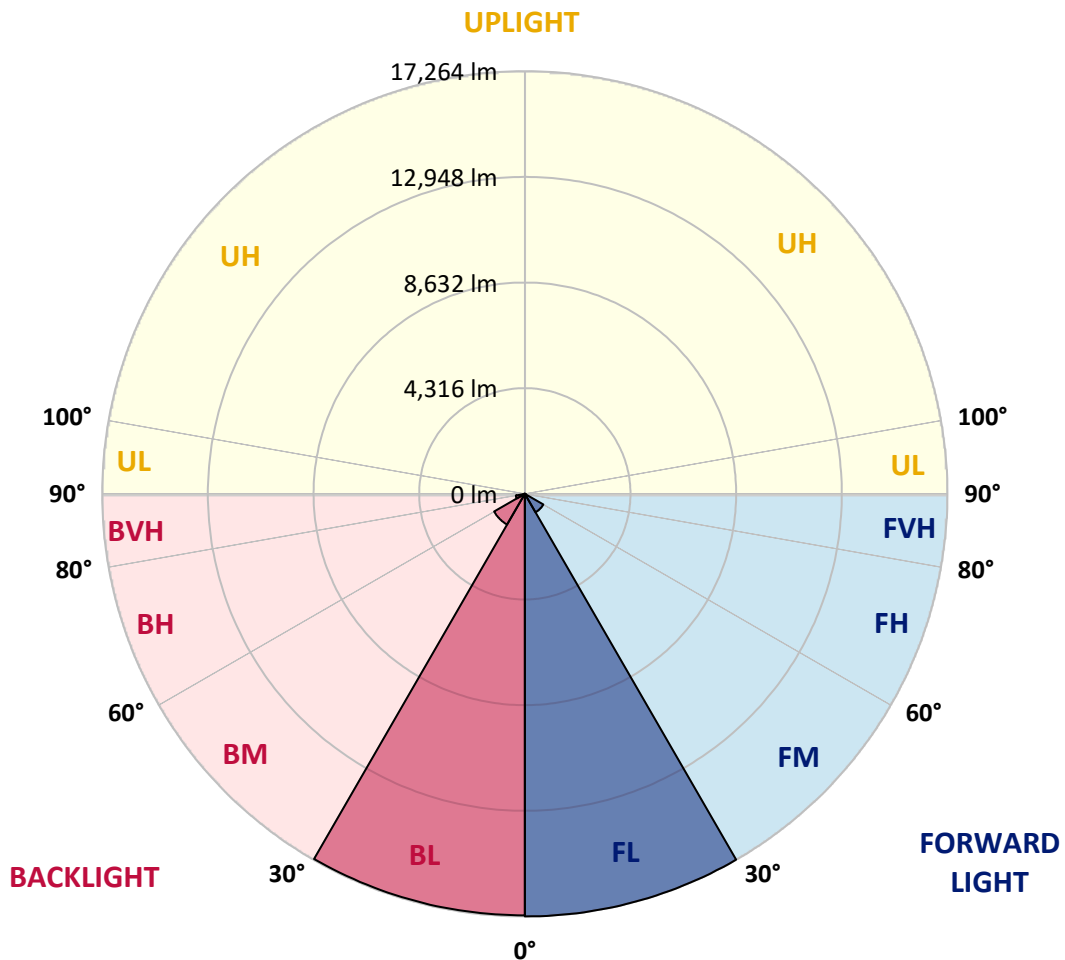


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	17264.1	46.3			
FM (30°-60°)	871.2	2.3			
FH (60°-80°)	41.0	0.1			G0/660
FVH (80°-90°)	8.1	0.0			G0/10
BL (0°-30°)	17223.2	46.2	B5		
BM (30°-60°)	1449.6	3.9	B2/2500		
BH (60°-80°)	374.3	1.0	B1/500		G0/660
BVH (80°-90°)	45.5	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°	370280.6	370280.6	370280.6	370280.6	370280.6	370280.6	370280.6	370280.6	370280.6	370280.6
1°	365847.0	364730.5	361847.9	363898.2	365700.8	365177.1	365140.6	364945.7	364673.7	366809.2
2°	351222.7	350500.0	346237.0	347995.0	350556.9	348689.2	349858.5	348831.3	348851.6	351401.3
3°	326570.1	326963.9	320163.3	323358.6	326919.2	322392.3	323797.1	326436.1	323671.2	322838.9
4°	294528.2	291109.6	287394.7	290642.7	291564.3	288929.4	291519.7	294751.5	290910.7	291081.2
5°	257947.1	255421.8	251024.7	253030.4	250744.6	251576.9	255458.3	256790.0	254110.4	250736.5
6°	220334.8	218540.3	213043.0	215933.7	215121.7	214650.8	219551.2	215491.2	216952.8	214910.6
7°	183274.7	179921.1	177221.2	179990.1	180168.8	178751.8	185113.9	184375.0	181715.6	181098.5
8°	151845.9	148500.4	146214.6	148277.1	149625.0	147400.1	150392.4	152357.4	150278.7	150465.4
9°	122471.4	121882.7	118703.7	121399.5	122865.2	120482.0	123795.0	124505.5	122560.7	123506.7
10°	100559.3	99873.2	97335.6	98427.8	100855.7	98013.7	101192.7	101424.1	99873.2	100315.7
12.5°	62143.1	61867.0	61798.0	61956.4	61923.9	62427.3	63239.3	62313.6	62191.8	60661.2
15°	40166.1	40576.1	40153.9	40965.9	41083.6	41558.7	41063.3	40316.3	38891.2	38184.8
17.5°	25066.7	25590.5	26313.2	27502.8	28692.4	28830.4	28172.7	27295.7	26605.5	25850.3
20°	14421.3	14677.1	14567.5	15992.5	19070.1	19906.4	19057.9	18136.2	17303.9	16540.6
22.5°	8960.5	8867.1	9037.7	9516.8	10519.6	13105.8	12411.6	11489.9	10885.0	10255.7
25°	5493.2	5594.7	5529.8	5793.7	6244.4	7340.6	7498.9	7101.0	6792.5	6467.7
27.5°	3536.3	3536.3	3564.7	3710.9	4019.4	3982.9	4827.4	4518.8	4352.4	4194.0
30°	2456.3	2464.5	2464.5	2549.7	2618.7	2496.9	2716.2	3114.1	3036.9	2915.1
32.5°	1823.0	1847.3	1867.6	1912.3	1855.4	1725.5	1778.3	2241.1	2196.5	2151.8
35°	1388.5	1408.8	1457.6	1481.9	1400.7	1319.5	1270.8	1648.4	1668.7	1656.5
37.5°	1011.0	1023.1	1112.5	1205.8	1112.5	1039.4	1011.0	1266.7	1364.2	1352.0
40°	775.5	779.5	795.8	901.3	901.3	844.5	852.6	946.0	1116.5	1116.5
42.5°	665.8	665.8	682.1	665.8	669.9	730.8	751.1	763.3	946.0	946.0
45°	576.5	576.5	584.6	544.0	503.4	629.3	645.5	649.6	795.8	816.1
47.5°	483.1	483.1	499.4	446.6	426.3	499.4	544.0	556.2	686.1	702.4
50°	357.3	361.3	410.1	365.4	377.6	385.7	471.0	479.1	580.6	617.1
52.5°	239.5	239.5	247.7	284.2	328.9	316.7	381.6	410.1	462.8	511.6
55°	194.9	194.9	190.8	182.7	243.6	263.9	280.1	341.0	377.6	438.5
57.5°	134.0	142.1	129.9	150.2	158.3	198.9	211.1	268.0	288.3	369.5
60°	16.2	20.3	28.4	109.6	105.6	134.0	158.3	211.1	235.5	284.2
62.5°	4.1	4.1	8.1	20.3	73.1	89.3	125.9	146.2	170.5	219.2
65°	0.0	0.0	4.1	8.1	16.2	48.7	65.0	85.3	121.8	154.3
67.5°	0.0	0.0	4.1	8.1	8.1	20.3	32.5	52.8	65.0	113.7
70°	0.0	0.0	4.1	8.1	8.1	16.2	20.3	24.4	44.7	60.9
72.5°	0.0	0.0	4.1	8.1	12.2	16.2	20.3	20.3	20.3	40.6
75°	0.0	0.0	4.1	8.1	12.2	16.2	20.3	20.3	16.2	16.2
77.5°	0.0	0.0	4.1	8.1	16.2	20.3	24.4	20.3	12.2	12.2
80°	0.0	0.0	4.1	12.2	20.3	28.4	32.5	24.4	12.2	8.1
82.5°	0.0	0.0	8.1	16.2	24.4	32.5	44.7	36.5	16.2	8.1
85°	0.0	0.0	4.1	12.2	24.4	32.5	65.0	44.7	20.3	4.1
87.5°	0.0	0.0	0.0	4.1	4.1	8.1	24.4	16.2	8.1	4.1
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°
370280.6	0°	370280.6	370280.6	370280.6	370280.6	370280.6	370280.6	370280.6	370280.6
364344.8	1°	366890.4	367146.2	366309.9	367605.0	367150.3	364486.9	363605.9	362562.4
349903.2	2°	348831.3	350134.6	350199.6	351636.8	351616.5	348510.6	347548.4	349322.6
324527.9	3°	323545.3	325063.8	323695.6	326249.3	325482.0	321714.3	320735.8	322749.6
292429.1	4°	291556.2	291268.0	290797.0	289343.5	291134.0	288564.0	286627.3	289359.7
255210.7	5°	254699.1	254057.6	253140.0	252709.7	254041.4	252397.0	248414.1	252405.2
218605.2	6°	218873.2	216112.4	215978.4	215738.9	215872.8	211268.7	211544.8	214516.8
178975.1	7°	180867.1	181374.6	180339.3	181999.8	180733.1	177615.0	176413.2	179543.5
151285.6	8°	150230.0	149588.5	148796.8	151277.4	149081.0	147034.7	145634.0	148106.5
123661.0	9°	123429.6	122321.2	121517.3	121391.4	121732.5	117891.7	118671.2	120542.9
100559.3	10°	100595.8	98776.9	99219.5	99337.2	98963.7	96446.5	96470.8	97116.4
61676.2	12.5°	61457.0	60563.8	60787.1	60908.9	61668.1	60783.0	59532.5	58631.2
38887.2	15°	38627.3	37985.8	39297.2	40178.3	39999.6	39212.0	38623.3	37807.2
25850.3	17.5°	25610.8	26451.2	26455.3	27259.2	27340.4	26552.7	26098.0	25363.1
16812.7	20°	16751.8	17100.9	17827.7	18396.1	18724.9	18124.1	17580.0	17076.6
10483.0	22.5°	10483.0	11092.1	11546.8	12285.7	12586.2	12147.7	11762.0	11351.9
6544.8	25°	6435.2	6869.6	7247.2	7888.7	8298.7	8087.6	7734.4	7446.1
4226.5	27.5°	4291.5	4474.2	4660.9	5103.5	5529.8	5412.0	5269.9	5095.4
2980.1	30°	3024.7	3041.0	3239.9	3487.6	3771.8	3844.9	3779.9	3690.6
2188.4	32.5°	2229.0	2293.9	2387.3	2541.6	2732.4	2907.0	2874.5	2833.9
1672.7	35°	1721.5	1818.9	1896.0	2013.8	2115.3	2281.7	2310.2	2298.0
1376.4	37.5°	1404.8	1490.0	1567.2	1636.2	1721.5	1835.1	1924.5	1928.5
1136.8	40°	1165.2	1242.4	1343.9	1396.7	1457.6	1542.8	1652.4	1660.6
962.2	42.5°	982.5	1055.6	1157.1	1222.1	1266.7	1347.9	1457.6	1473.8
824.2	45°	844.5	889.2	994.7	1071.9	1116.5	1169.3	1287.0	1303.3
710.5	47.5°	734.9	779.5	844.5	954.1	994.7	1043.4	1136.8	1165.2
629.3	50°	645.5	690.2	747.0	844.5	905.4	946.0	1023.1	1063.7
548.1	52.5°	572.5	617.1	678.0	755.2	824.2	860.7	933.8	986.6
446.6	55°	479.1	556.2	600.9	669.9	763.3	795.8	852.6	921.6
389.8	57.5°	418.2	483.1	548.1	604.9	698.3	738.9	795.8	860.7
308.6	60°	353.2	414.1	491.3	540.0	629.3	682.1	743.0	803.9
235.5	62.5°	280.1	361.3	414.1	483.1	568.4	637.4	686.1	747.0
182.7	65°	207.1	296.4	357.3	430.4	511.6	584.6	625.2	690.2
129.9	67.5°	150.2	231.4	304.5	373.5	450.7	523.7	564.3	621.2
81.2	70°	117.7	170.5	251.7	312.6	393.8	454.7	499.4	535.9
52.8	72.5°	69.0	129.9	203.0	272.0	345.1	385.7	418.2	450.7
24.4	75°	44.7	101.5	166.5	227.4	280.1	316.7	345.1	373.5
12.2	77.5°	28.4	73.1	134.0	190.8	215.2	259.8	284.2	300.4
8.1	80°	16.2	56.8	117.7	154.3	174.6	203.0	227.4	247.7
8.1	82.5°	12.2	48.7	97.4	129.9	129.9	162.4	174.6	174.6
4.1	85°	8.1	40.6	77.1	121.8	97.4	121.8	113.7	113.7
4.1	87.5°	8.1	28.4	36.5	52.8	44.7	52.8	52.8	60.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
370280.6
358429.3
341807.5
313805.3
279469.5
241889.6
205901.4
171029.6
141046.1
114696.4
92723.4
58083.1
37389.0
25180.4
16902.0
11132.7
7279.7
4993.9
3629.7
2801.4
2257.4
1900.1
1648.4
1461.6
1299.2
1169.3
1067.8
986.6
925.7
864.8
820.1
775.5
702.4
625.2
548.1
458.8
373.5
292.3
223.3
162.4
109.6
60.9
0.0

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