

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: P638582

Luminaire Tested: **EPH-VN-03-E-750-U-33-VI**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P638582  
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-750-U-33-VI  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 3 distribution lens and Visor  
Light Source: (48) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27438.8 lumens  
Efficiency: N/A  
Efficacy: 118.2 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

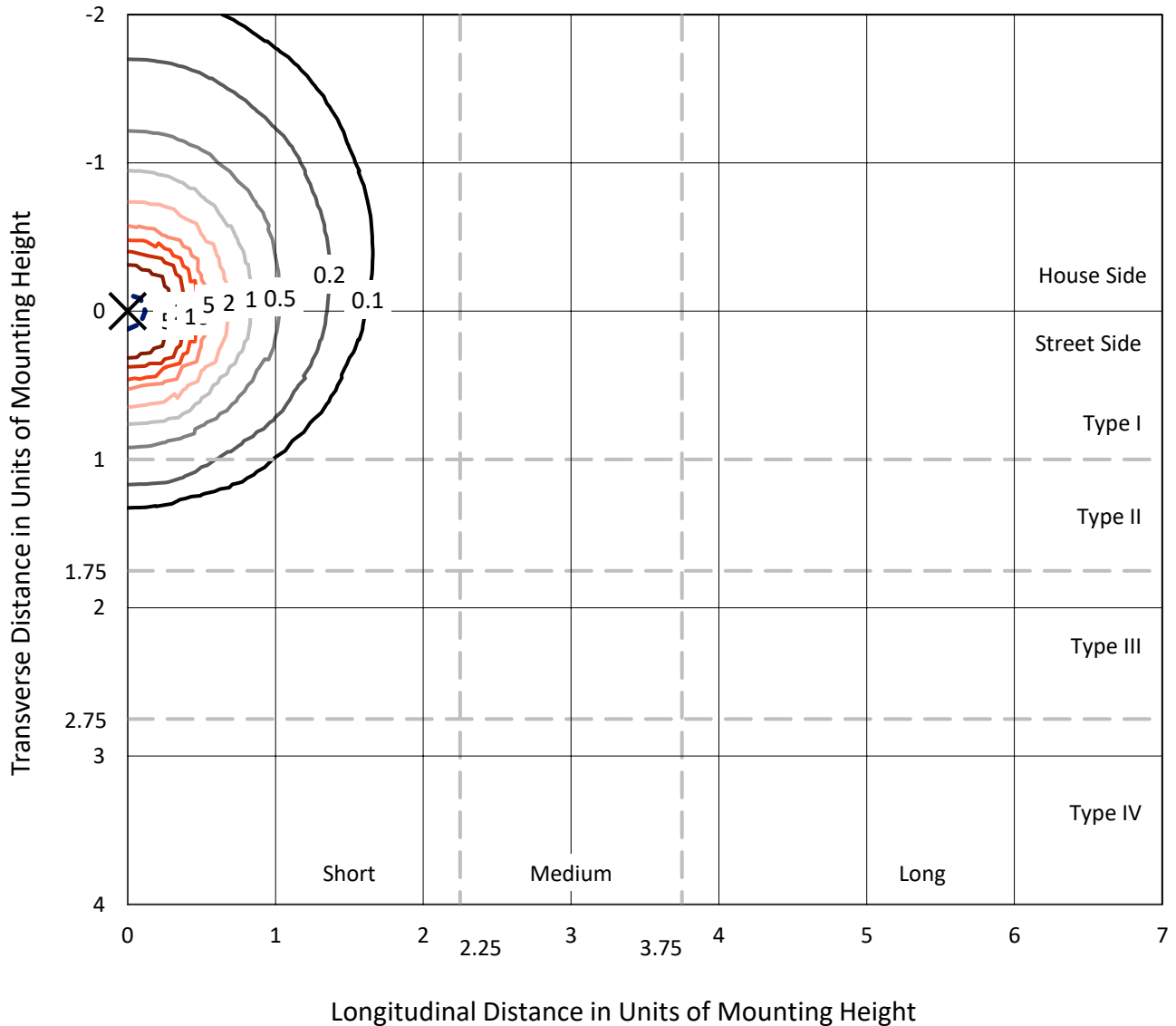
Input Watts (W): 232.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

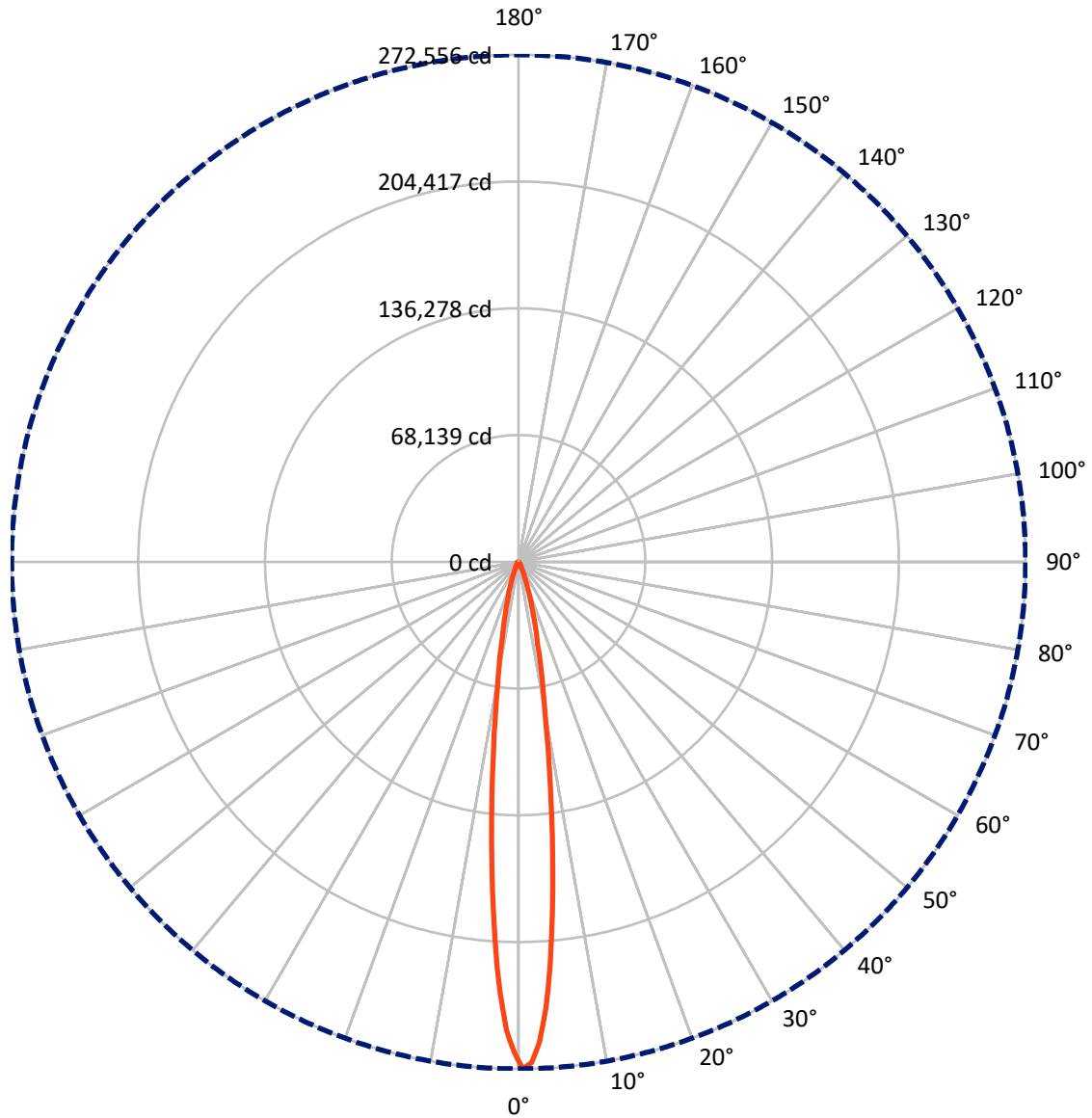
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 681.4 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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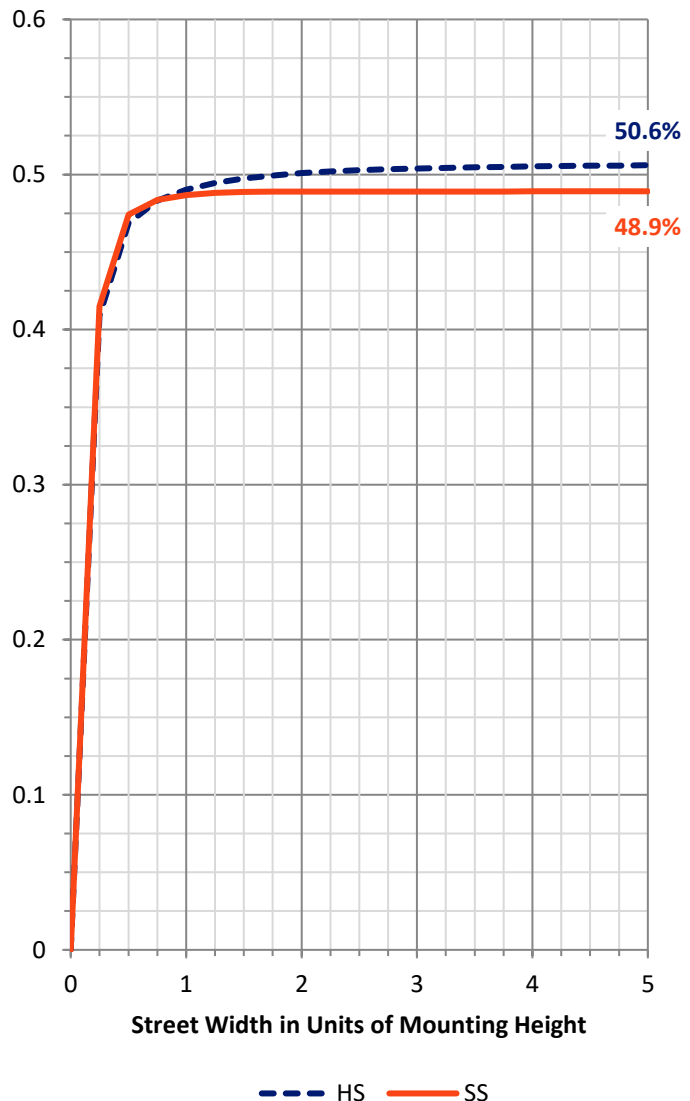
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14053.6	0.0	14053.6
	% Fixture	51.2	0.0	51.2
<b>Street Side</b>	Lumens	13385.1	0.0	13385.1
	% Fixture	48.8	0.0	48.8
<b>Total</b>	Lumens	27438.8	0.0	27438.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	13851.9	50.5
10°-20°	8867.9	32.3
20°-30°	2665.5	9.7
30°-40°	867.9	3.2
40°-50°	505.0	1.8
50°-60°	335.4	1.2
60°-70°	201.9	0.7
70°-80°	103.8	0.4
80°-90°	39.4	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°	27438.8	100.0
0°-180°	27438.8	100.0

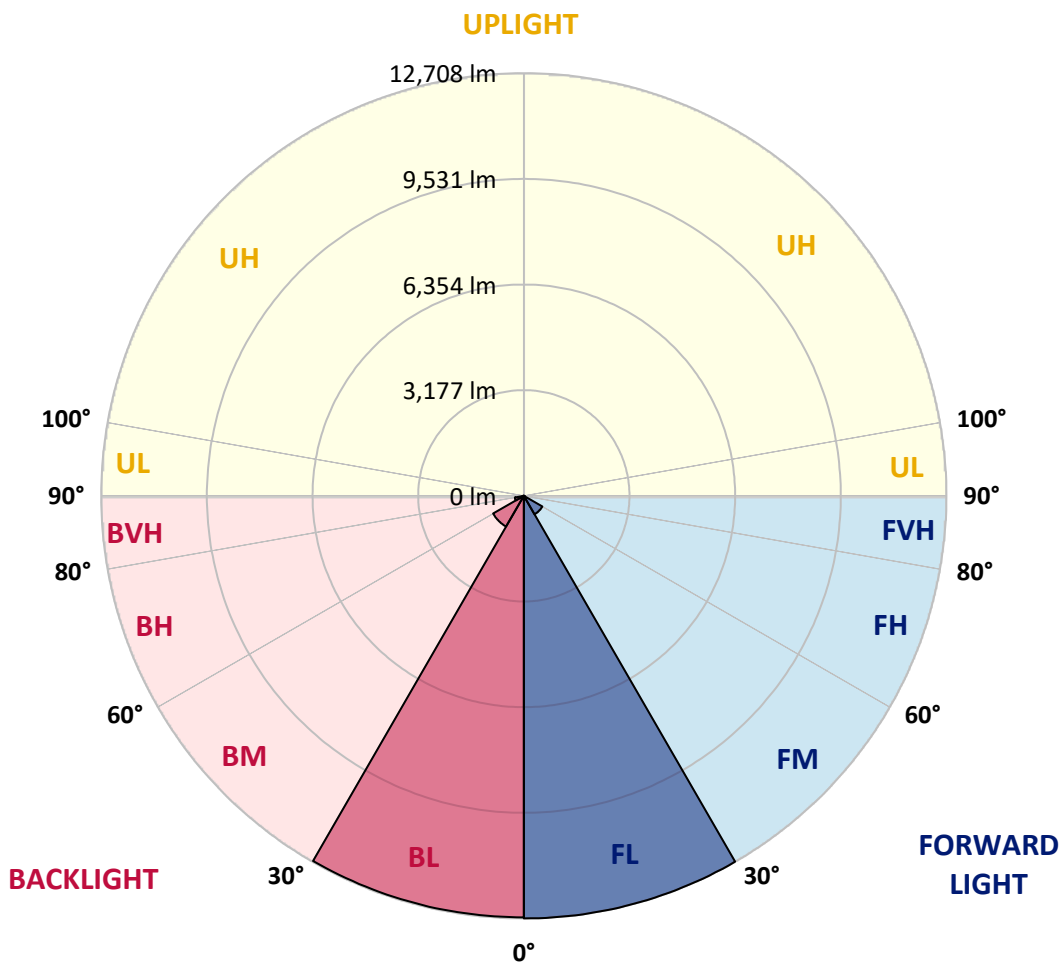


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	12707.7	46.3			
FM (30°-60°)	641.3	2.3			
FH (60°-80°)	30.2	0.1			G0/660
FVH (80°-90°)	6.0	0.0			G0/10
BL (0°-30°)	12677.6	46.2	B5		
BM (30°-60°)	1067.0	3.9	B2/2500		
BH (60°-80°)	275.5	1.0	B1/500		G0/660
BVH (80°-90°)	33.5	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°	272556.1	272556.1	272556.1	272556.1	272556.1	272556.1	272556.1	272556.1	272556.1	272556.1
1°	269292.6	268470.8	266348.9	267858.1	269185.0	268799.5	268772.6	268629.2	268428.9	270000.9
2°	258528.0	257996.0	254858.1	256152.1	258037.8	256663.1	257523.8	256767.7	256782.7	258659.4
3°	240381.7	240671.5	235665.8	238017.7	240638.7	237306.5	238340.5	240283.0	238247.9	237635.2
4°	216796.3	214279.9	211545.4	213936.2	214614.6	212675.1	214581.8	216960.6	214133.5	214259.0
5°	189869.7	188010.8	184774.3	186250.6	184568.0	185180.7	188037.7	189018.0	187045.5	184562.1
6°	162184.0	160863.1	156816.6	158944.5	158346.8	158000.1	161607.2	158618.7	159694.6	158191.4
7°	134904.8	132436.3	130448.9	132487.1	132618.6	131575.6	136258.6	135714.7	133757.2	133303.0
8°	111770.7	109308.1	107625.6	109143.8	110136.0	108498.2	110700.8	112147.2	110617.1	110754.6
9°	90148.7	89715.4	87375.4	89359.8	90438.6	88684.3	91123.0	91646.0	90214.5	90910.8
10°	74019.7	73514.6	71646.8	72450.7	74237.8	72145.9	74485.9	74656.2	73514.6	73840.4
12.5°	45742.3	45539.1	45488.3	45604.8	45580.9	45951.5	46549.2	45867.8	45778.2	44651.5
15°	29565.4	29867.3	29556.5	30154.2	30240.8	30590.5	30225.9	29676.0	28627.0	28107.0
17.5°	18451.1	18836.6	19368.6	20244.2	21119.9	21221.5	20737.3	20091.8	19583.8	19027.9
20°	10615.2	10803.5	10722.8	11771.8	14037.1	14652.7	14028.1	13349.7	12737.1	12175.2
22.5°	6595.7	6526.9	6652.4	7005.1	7743.3	9646.9	9135.9	8457.5	8012.2	7549.0
25°	4043.5	4118.2	4070.4	4264.6	4596.3	5403.2	5519.8	5226.9	4999.8	4760.7
27.5°	2603.0	2603.0	2623.9	2731.5	2958.6	2931.7	3553.4	3326.2	3203.7	3087.1
30°	1808.1	1814.0	1814.0	1876.8	1927.6	1837.9	1999.3	2292.2	2235.4	2145.8
32.5°	1341.8	1359.8	1374.7	1407.6	1365.8	1270.1	1309.0	1649.7	1616.8	1583.9
35°	1022.1	1037.0	1072.9	1090.8	1031.0	971.3	935.4	1213.3	1228.3	1219.3
37.5°	744.1	753.1	818.9	887.6	818.9	765.1	744.1	932.4	1004.1	995.2
40°	570.8	573.8	585.8	663.5	663.5	621.6	627.6	696.3	821.8	821.8
42.5°	490.1	490.1	502.1	490.1	493.1	537.9	552.9	561.8	696.3	696.3
45°	424.4	424.4	430.3	400.5	370.6	463.2	475.2	478.2	585.8	600.7
47.5°	355.6	355.6	367.6	328.7	313.8	367.6	400.5	409.4	505.1	517.0
50°	263.0	266.0	301.8	269.0	277.9	283.9	346.7	352.6	427.4	454.3
52.5°	176.3	176.3	182.3	209.2	242.1	233.1	280.9	301.8	340.7	376.6
55°	143.4	143.4	140.5	134.5	179.3	194.3	206.2	251.0	277.9	322.8
57.5°	98.6	104.6	95.6	110.6	116.6	146.4	155.4	197.2	212.2	272.0
60°	12.0	14.9	20.9	80.7	77.7	98.6	116.6	155.4	173.3	209.2
62.5°	3.0	3.0	6.0	14.9	53.8	65.7	92.6	107.6	125.5	161.4
65°	0.0	0.0	3.0	6.0	12.0	35.9	47.8	62.8	89.7	113.6
67.5°	0.0	0.0	3.0	6.0	6.0	14.9	23.9	38.9	47.8	83.7
70°	0.0	0.0	3.0	6.0	6.0	12.0	14.9	17.9	32.9	44.8
72.5°	0.0	0.0	3.0	6.0	9.0	12.0	14.9	14.9	14.9	29.9
75°	0.0	0.0	3.0	6.0	9.0	12.0	14.9	14.9	12.0	12.0
77.5°	0.0	0.0	3.0	6.0	12.0	14.9	17.9	14.9	9.0	9.0
80°	0.0	0.0	3.0	9.0	14.9	20.9	23.9	17.9	9.0	6.0
82.5°	0.0	0.0	6.0	12.0	17.9	23.9	32.9	26.9	12.0	6.0
85°	0.0	0.0	3.0	9.0	17.9	23.9	47.8	32.9	14.9	3.0
87.5°	0.0	0.0	0.0	3.0	3.0	6.0	17.9	12.0	6.0	3.0
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°
272556.1	0°	272556.1	272556.1	272556.1	272556.1	272556.1	272556.1	272556.1	272556.1
268186.9	1°	270060.7	270248.9	269633.3	270586.6	270251.9	268291.5	267642.9	266874.9
257556.7	2°	256767.7	257727.0	257774.8	258832.8	258817.8	256531.6	255823.3	257129.3
238878.4	3°	238155.2	239272.9	238265.8	240145.6	239580.7	236807.4	236087.2	237569.5
215251.2	4°	214608.7	214396.5	214049.8	212979.9	214297.8	212406.1	210980.6	212991.9
187855.4	5°	187478.9	187006.7	186331.3	186014.5	186994.7	185784.4	182852.6	185790.4
160910.9	6°	161108.2	159076.0	158977.3	158801.0	158899.6	155510.7	155713.9	157901.5
131740.0	7°	133132.6	133506.2	132744.1	133966.4	133034.0	130738.8	129854.2	132158.4
111358.3	8°	110581.2	110109.1	109526.3	111352.3	109735.5	108229.3	107198.2	109018.2
91024.4	9°	90854.0	90038.1	89446.4	89353.8	89604.8	86777.7	87351.5	88729.2
74019.7	10°	74046.6	72707.7	73033.5	73120.1	72845.2	70992.3	71010.2	71485.4
45398.6	12.5°	45237.2	44579.8	44744.1	44833.8	45392.6	44741.1	43820.7	43157.2
28624.1	15°	28432.8	27960.6	28925.9	29574.4	29442.9	28863.1	28429.8	27829.1
19027.9	17.5°	18851.6	19470.2	19473.2	20064.9	20124.7	19544.9	19210.2	18669.3
12375.5	20°	12330.6	12587.6	13122.6	13541.0	13783.1	13340.8	12940.3	12569.7
7716.4	22.5°	7716.4	8164.6	8499.4	9043.3	9264.4	8941.7	8657.7	8355.9
4817.5	25°	4736.8	5056.6	5334.5	5806.7	6108.5	5953.1	5693.1	5480.9
3111.0	27.5°	3158.9	3293.3	3430.8	3756.6	4070.4	3983.7	3879.1	3750.6
2193.6	30°	2226.4	2238.4	2384.8	2567.1	2776.3	2830.1	2782.3	2716.6
1610.8	32.5°	1640.7	1688.5	1757.3	1870.8	2011.3	2139.8	2115.9	2086.0
1231.3	35°	1267.1	1338.9	1395.6	1482.3	1557.0	1679.5	1700.5	1691.5
1013.1	37.5°	1034.0	1096.8	1153.6	1204.4	1267.1	1350.8	1416.6	1419.5
836.8	40°	857.7	914.5	989.2	1028.1	1072.9	1135.6	1216.3	1222.3
708.3	42.5°	723.2	777.0	851.7	899.5	932.4	992.2	1072.9	1084.8
606.7	45°	621.6	654.5	732.2	789.0	821.8	860.7	947.4	959.3
523.0	47.5°	540.9	573.8	621.6	702.3	732.2	768.0	836.8	857.7
463.2	50°	475.2	508.0	549.9	621.6	666.4	696.3	753.1	783.0
403.5	52.5°	421.4	454.3	499.1	555.9	606.7	633.6	687.4	726.2
328.7	55°	352.6	409.4	442.3	493.1	561.8	585.8	627.6	678.4
286.9	57.5°	307.8	355.6	403.5	445.3	514.0	543.9	585.8	633.6
227.1	60°	260.0	304.8	361.6	397.5	463.2	502.1	546.9	591.7
173.3	62.5°	206.2	266.0	304.8	355.6	418.4	469.2	505.1	549.9
134.5	65°	152.4	218.2	263.0	316.8	376.6	430.3	460.2	508.0
95.6	67.5°	110.6	170.3	224.1	274.9	331.7	385.5	415.4	457.2
59.8	70°	86.7	125.5	185.3	230.1	289.9	334.7	367.6	394.5
38.9	72.5°	50.8	95.6	149.4	200.2	254.0	283.9	307.8	331.7
17.9	75°	32.9	74.7	122.5	167.4	206.2	233.1	254.0	274.9
9.0	77.5°	20.9	53.8	98.6	140.5	158.4	191.3	209.2	221.2
6.0	80°	12.0	41.8	86.7	113.6	128.5	149.4	167.4	182.3
6.0	82.5°	9.0	35.9	71.7	95.6	95.6	119.5	128.5	128.5
3.0	85°	6.0	29.9	56.8	89.7	71.7	89.7	83.7	83.7
3.0	87.5°	6.0	20.9	26.9	38.9	32.9	38.9	38.9	44.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
272556.1  
263832.6  
251597.6  
230985.7  
205711.8  
178050.1  
151559.8  
125891.4  
103821.2  
84425.7  
68251.8  
42753.8  
27521.3  
18534.8  
12441.2  
8194.5  
5358.4  
3675.9  
2671.7  
2062.1  
1661.6  
1398.6  
1213.3  
1075.9  
956.3  
860.7  
786.0  
726.2  
681.4  
636.6  
603.7  
570.8  
517.0  
460.2  
403.5  
337.7  
274.9  
215.2  
164.4  
119.5  
80.7  
44.8  
0.0

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