

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: P638597

Luminaire Tested: **EPH-VN-07-E-930-U-33-VI**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P638597  
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-930-U-33-VI  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 3 distribution lens and Visor  
Light Source: (112) 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35929.5 lumens  
Efficiency: N/A  
Efficacy: 67.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

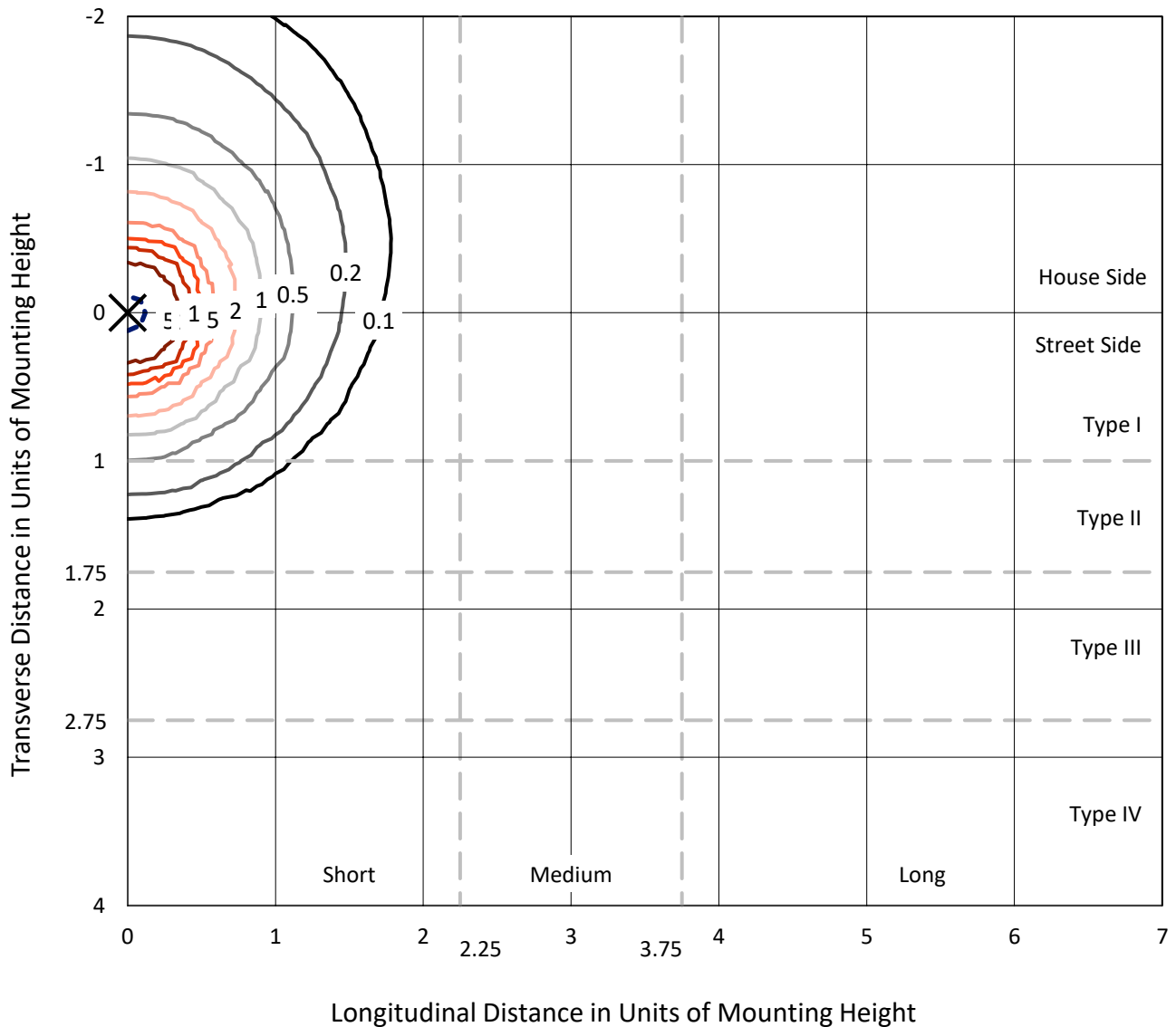
Input Watts (W): 532.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

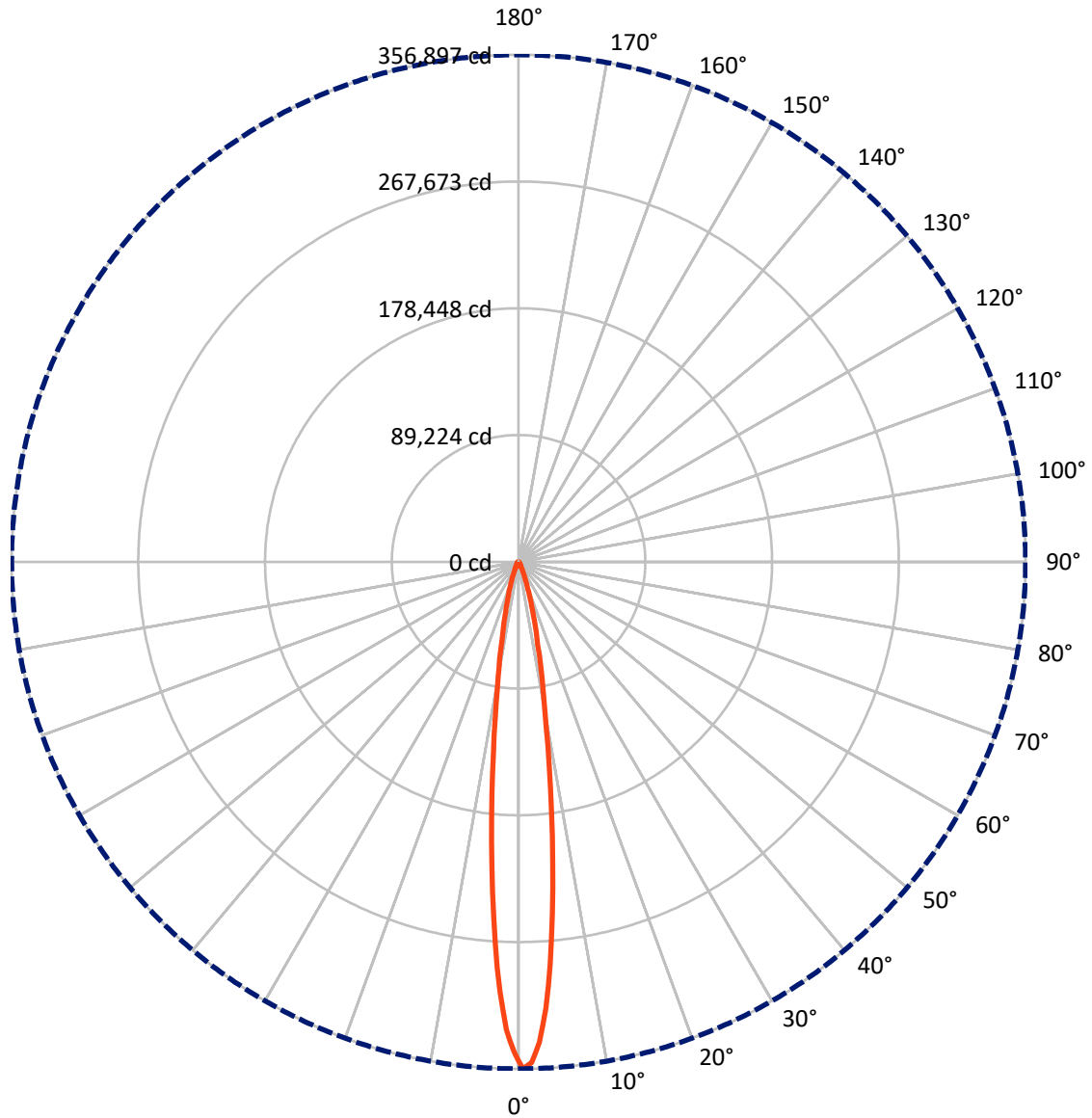
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 892.2 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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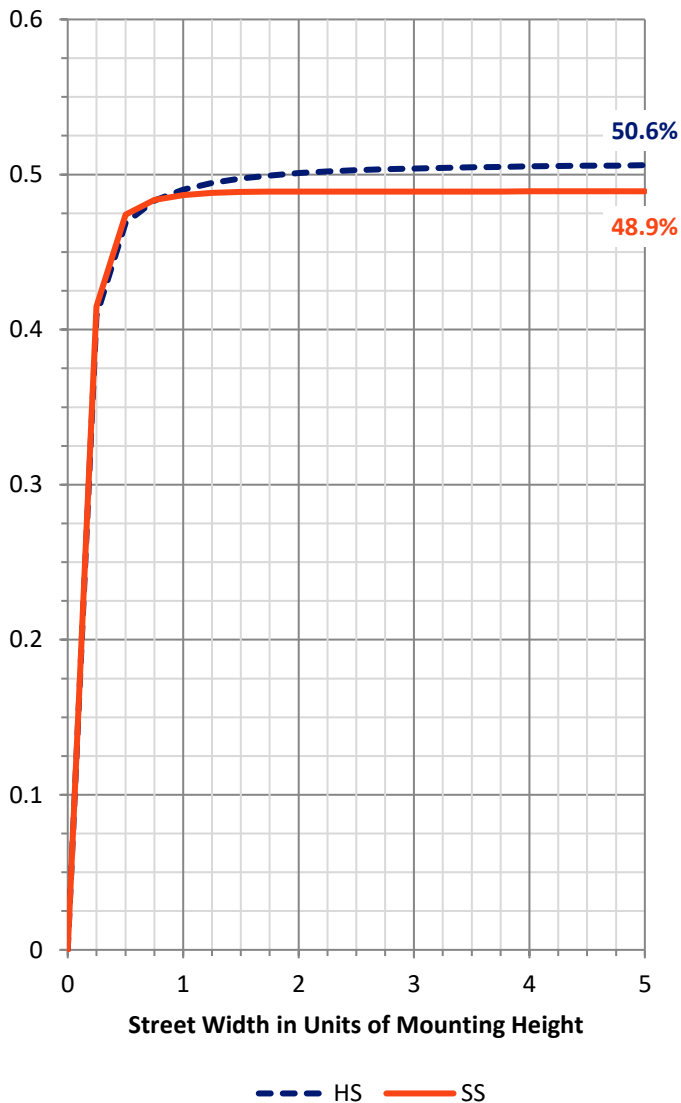
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18402.5	0.0	18402.5
	% Fixture	51.2	0.0	51.2
<b>Street Side</b>	Lumens	17527.1	0.0	17527.1
	% Fixture	48.8	0.0	48.8
<b>Total</b>	Lumens	35929.5	0.0	35929.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	18138.3	50.5
10°-20°	11612.1	32.3
20°-30°	3490.4	9.7
30°-40°	1136.5	3.2
40°-50°	661.2	1.8
50°-60°	439.2	1.2
60°-70°	264.4	0.7
70°-80°	135.9	0.4
80°-90°	51.6	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°	35929.5	100.0
0°-180°	35929.5	100.0



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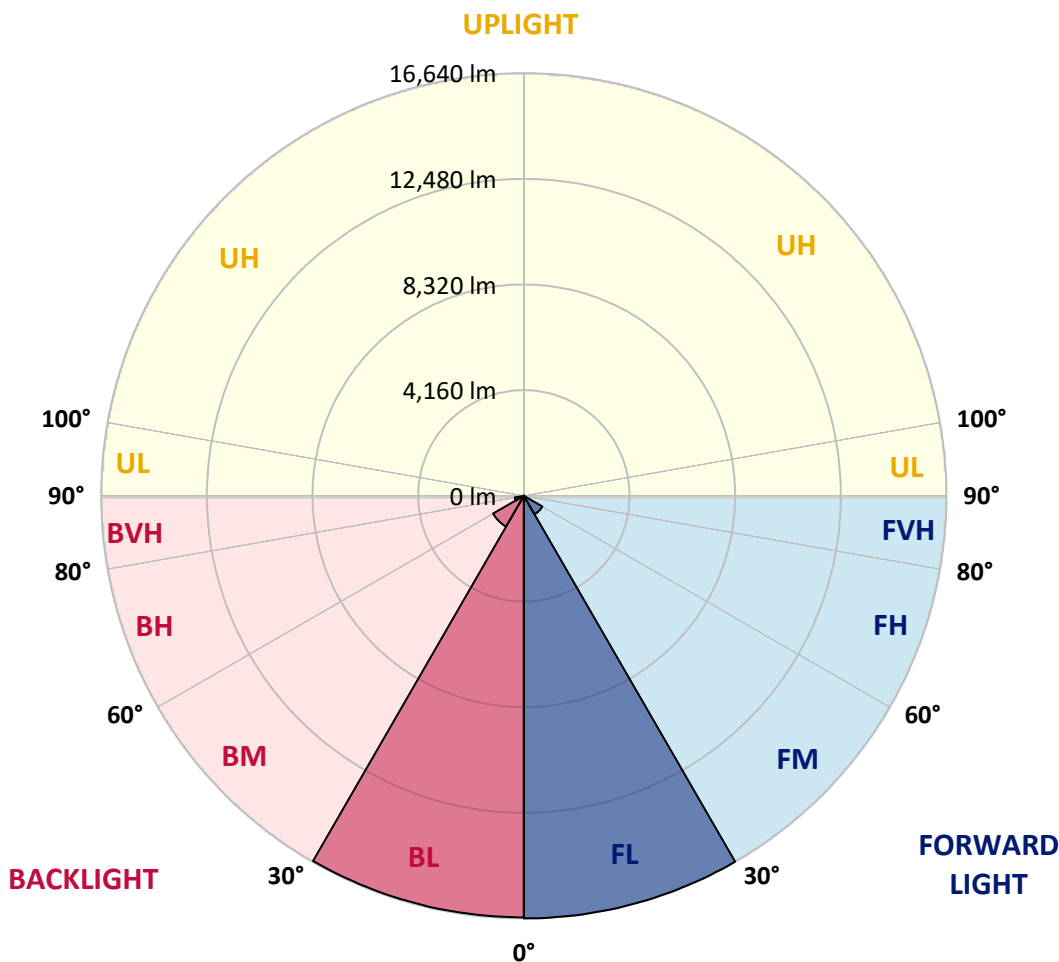
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	16640.1	46.3			
FM (30°-60°)	839.7	2.3			
FH (60°-80°)	39.5	0.1			G0/660
FVH (80°-90°)	7.8	0.0			G0/10
BL (0°-30°)	16600.7	46.2	B5		
BM (30°-60°)	1397.2	3.9	B2/2500		
BH (60°-80°)	360.7	1.0	B1/500		G0/660
BVH (80°-90°)	43.8	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°	356896.9	356896.9	356896.9	356896.9	356896.9	356896.9	356896.9	356896.9	356896.9	356896.9
1°	352623.6	351547.5	348769.0	350745.2	352482.7	351977.9	351942.7	351754.9	351492.7	353551.1
2°	338527.9	337831.3	333722.4	335416.8	337886.1	336086.0	337213.0	336223.0	336242.5	338700.1
3°	314766.3	315145.9	308591.2	311670.9	315102.9	310739.6	312093.6	314637.2	311972.3	311170.0
4°	283882.6	280587.6	277006.9	280137.5	281025.9	278486.1	280982.8	284097.8	280395.8	280560.2
5°	248623.7	246189.7	241951.6	243884.7	241681.5	242483.8	246224.9	247508.4	244925.7	241673.7
6°	212370.9	210641.2	205342.6	208128.9	207346.2	206892.3	211615.7	207702.4	209111.1	207142.7
7°	176650.3	173417.9	170815.6	173484.4	173656.6	172290.9	178423.0	177710.8	175147.6	174552.8
8°	146357.4	143132.9	140929.7	142917.7	144216.9	142072.4	144956.5	146850.5	144846.9	145026.9
9°	118044.7	117477.3	114413.2	117011.6	118424.3	116127.2	119320.5	120005.3	118130.8	119042.6
10°	96924.6	96263.3	93817.5	94870.2	97210.3	94471.0	97535.1	97758.2	96263.3	96689.8
12.5°	59897.0	59630.9	59564.4	59717.0	59685.7	60170.9	60953.6	60061.3	59943.9	58468.6
15°	38714.3	39109.5	38702.5	39485.2	39598.7	40056.5	39579.1	38859.1	37485.5	36804.6
17.5°	24160.7	24665.5	25362.1	26508.7	27655.3	27788.3	27154.4	26309.1	25643.9	24916.0
20°	13900.0	14146.6	14040.9	15414.5	18380.8	19186.9	18369.0	17480.7	16678.5	15942.8
22.5°	8636.7	8546.6	8711.0	9172.8	10139.4	12632.1	11963.0	11074.6	10491.6	9885.0
25°	5294.7	5392.5	5329.9	5584.3	6018.7	7075.2	7227.9	6844.4	6547.0	6233.9
27.5°	3408.5	3408.5	3435.9	3576.8	3874.2	3838.9	4652.9	4355.5	4195.1	4042.4
30°	2367.5	2375.4	2375.4	2457.6	2524.1	2406.7	2618.0	3001.5	2927.1	2809.7
32.5°	1757.1	1780.6	1800.1	1843.2	1788.4	1663.2	1714.0	2160.1	2117.1	2074.0
35°	1338.3	1357.9	1404.9	1428.4	1350.1	1271.8	1224.9	1588.8	1608.4	1596.6
37.5°	974.4	986.2	1072.2	1162.3	1072.2	1001.8	974.4	1220.9	1314.9	1303.1
40°	747.4	751.4	767.0	868.8	868.8	814.0	821.8	911.8	1076.2	1076.2
42.5°	641.8	641.8	657.4	641.8	645.7	704.4	724.0	735.7	911.8	911.8
45°	555.7	555.7	563.5	524.4	485.2	606.6	622.2	626.1	767.0	786.6
47.5°	465.7	465.7	481.3	430.5	410.9	481.3	524.4	536.1	661.3	677.0
50°	344.4	348.3	395.2	352.2	363.9	371.8	453.9	461.8	559.6	594.8
52.5°	230.9	230.9	238.7	273.9	317.0	305.2	367.9	395.2	446.1	493.1
55°	187.8	187.8	183.9	176.1	234.8	254.4	270.0	328.7	363.9	422.6
57.5°	129.1	137.0	125.2	144.8	152.6	191.8	203.5	258.3	277.8	356.1
60°	15.7	19.6	27.4	105.7	101.7	129.1	152.6	203.5	227.0	273.9
62.5°	3.9	3.9	7.8	19.6	70.4	86.1	121.3	140.9	164.4	211.3
65°	0.0	0.0	3.9	7.8	15.7	47.0	62.6	82.2	117.4	148.7
67.5°	0.0	0.0	3.9	7.8	7.8	19.6	31.3	50.9	62.6	109.6
70°	0.0	0.0	3.9	7.8	7.8	15.7	19.6	23.5	43.0	58.7
72.5°	0.0	0.0	3.9	7.8	11.7	15.7	19.6	19.6	19.6	39.1
75°	0.0	0.0	3.9	7.8	11.7	15.7	19.6	19.6	15.7	15.7
77.5°	0.0	0.0	3.9	7.8	15.7	19.6	23.5	19.6	11.7	11.7
80°	0.0	0.0	3.9	11.7	19.6	27.4	31.3	23.5	11.7	7.8
82.5°	0.0	0.0	7.8	15.7	23.5	31.3	43.0	35.2	15.7	7.8
85°	0.0	0.0	3.9	11.7	23.5	31.3	62.6	43.0	19.6	3.9
87.5°	0.0	0.0	0.0	3.9	3.9	7.8	23.5	15.7	7.8	3.9
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°
356896.9	0°	356896.9	356896.9	356896.9	356896.9	356896.9	356896.9	356896.9	356896.9
351175.7	1°	353629.3	353875.9	353069.7	354318.1	353879.8	351312.7	350463.5	349457.8
337256.1	2°	336223.0	337479.1	337541.8	338927.1	338907.5	335913.8	334986.4	336696.5
312798.0	3°	311850.9	313314.5	311995.7	314457.2	313717.6	310086.0	309142.9	311083.9
281859.4	4°	281018.0	280740.2	280286.3	278885.3	280611.1	278133.9	276267.3	278900.9
245986.2	5°	245493.1	244874.8	243990.4	243575.6	244859.1	243274.3	239435.3	243282.1
210703.9	6°	210962.1	208301.1	208171.9	207941.1	208070.2	203632.5	203898.6	206763.2
172506.1	7°	174329.7	174818.9	173821.0	175421.5	174200.6	171195.2	170036.8	173054.0
145817.4	8°	144800.0	144181.7	143418.6	145809.6	143692.5	141720.2	140370.1	142753.3
119191.3	9°	118968.3	117899.9	117125.1	117003.8	117332.5	113630.5	114381.9	116185.9
96924.6	10°	96959.9	95206.7	95633.2	95746.7	95386.7	92960.5	92983.9	93606.2
59447.0	12.5°	59235.6	58374.7	58589.9	58707.3	59439.1	58586.0	57380.7	56512.0
37481.6	15°	37231.1	36612.8	37876.8	38726.0	38553.8	37794.7	37227.2	36440.7
24916.0	17.5°	24685.1	25495.2	25499.1	26273.9	26352.2	25593.0	25154.7	24446.4
16205.0	20°	16146.3	16482.8	17183.3	17731.2	18048.1	17469.0	16944.6	16459.3
10104.1	22.5°	10104.1	10691.1	11129.4	11841.6	12131.2	11708.6	11336.8	10941.6
6308.2	25°	6202.6	6621.3	6985.2	7603.5	7998.8	7795.3	7454.8	7177.0
4073.7	27.5°	4136.4	4312.5	4492.5	4919.0	5329.9	5216.4	5079.5	4911.2
2872.4	30°	2915.4	2931.1	3122.8	3361.5	3635.5	3705.9	3643.3	3557.2
2109.3	32.5°	2148.4	2211.0	2301.0	2449.7	2633.7	2801.9	2770.6	2731.5
1612.3	35°	1659.2	1753.2	1827.5	1941.0	2038.8	2199.3	2226.7	2214.9
1326.6	37.5°	1354.0	1436.2	1510.5	1577.1	1659.2	1768.8	1854.9	1858.8
1095.7	40°	1123.1	1197.5	1295.3	1346.2	1404.9	1487.1	1592.7	1600.5
927.5	42.5°	947.0	1017.5	1115.3	1177.9	1220.9	1299.2	1404.9	1420.5
794.4	45°	814.0	857.0	958.8	1033.1	1076.2	1127.0	1240.5	1256.2
684.8	47.5°	708.3	751.4	814.0	919.6	958.8	1005.7	1095.7	1123.1
606.6	50°	622.2	665.3	720.0	814.0	872.7	911.8	986.2	1025.3
528.3	52.5°	551.8	594.8	653.5	727.9	794.4	829.6	900.1	950.9
430.5	55°	461.8	536.1	579.2	645.7	735.7	767.0	821.8	888.3
375.7	57.5°	403.1	465.7	528.3	583.1	673.1	712.2	767.0	829.6
297.4	60°	340.5	399.2	473.5	520.5	606.6	657.4	716.1	774.8
227.0	62.5°	270.0	348.3	399.2	465.7	547.9	614.4	661.3	720.0
176.1	65°	199.6	285.7	344.4	414.8	493.1	563.5	602.6	665.3
125.2	67.5°	144.8	223.1	293.5	360.0	434.4	504.8	543.9	598.7
78.3	70°	113.5	164.4	242.6	301.3	379.6	438.3	481.3	516.6
50.9	72.5°	66.5	125.2	195.7	262.2	332.6	371.8	403.1	434.4
23.5	75°	43.0	97.8	160.4	219.1	270.0	305.2	332.6	360.0
11.7	77.5°	27.4	70.4	129.1	183.9	207.4	250.5	273.9	289.6
7.8	80°	15.7	54.8	113.5	148.7	168.3	195.7	219.1	238.7
7.8	82.5°	11.7	47.0	93.9	125.2	125.2	156.5	168.3	168.3
3.9	85°	7.8	39.1	74.4	117.4	93.9	117.4	109.6	109.6
3.9	87.5°	7.8	27.4	35.2	50.9	43.0	50.9	50.9	58.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
356896.9  
345474.0  
329453.0  
302462.9  
269368.1  
233146.6  
198459.1  
164847.8  
135948.1  
110550.7  
89372.0  
55983.7  
36037.6  
24270.3  
16291.1  
10730.3  
7016.5  
4813.4  
3498.5  
2700.2  
2175.8  
1831.4  
1588.8  
1408.8  
1252.3  
1127.0  
1029.2  
950.9  
892.2  
833.5  
790.5  
747.4  
677.0  
602.6  
528.3  
442.2  
360.0  
281.8  
215.2  
156.5  
105.7  
58.7  
0.0

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