

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: P638608

Luminaire Tested: **EPH-VN-06-E-940-U-33-VI**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P638608  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 11/2/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-VN-06-E-940-U-33-VI  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 3 distribution lens and Visor  
Light Source: (96) 4000K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38023.9 lumens  
Efficiency: N/A  
Efficacy: 81.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

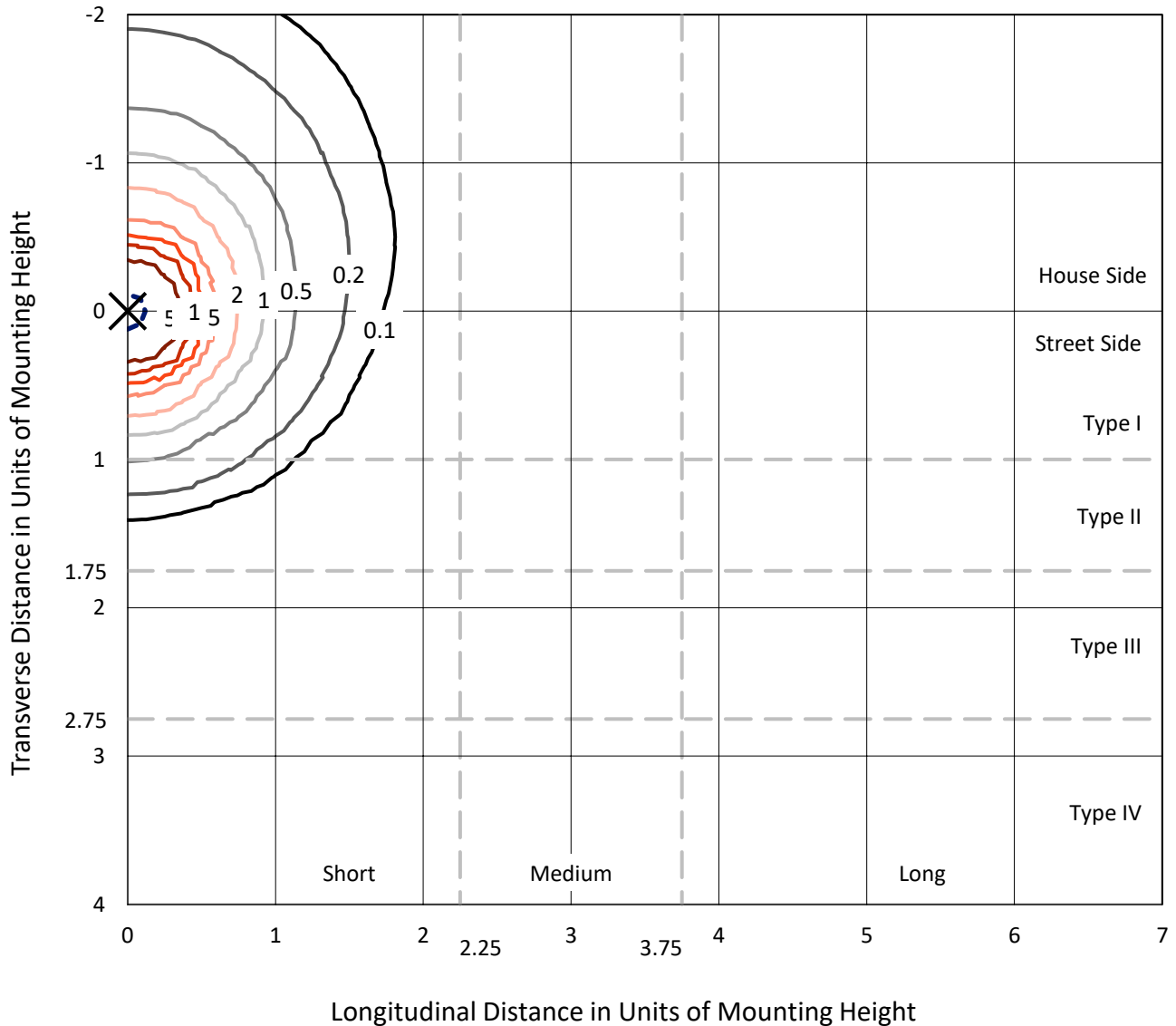
Input Watts (W): 464.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

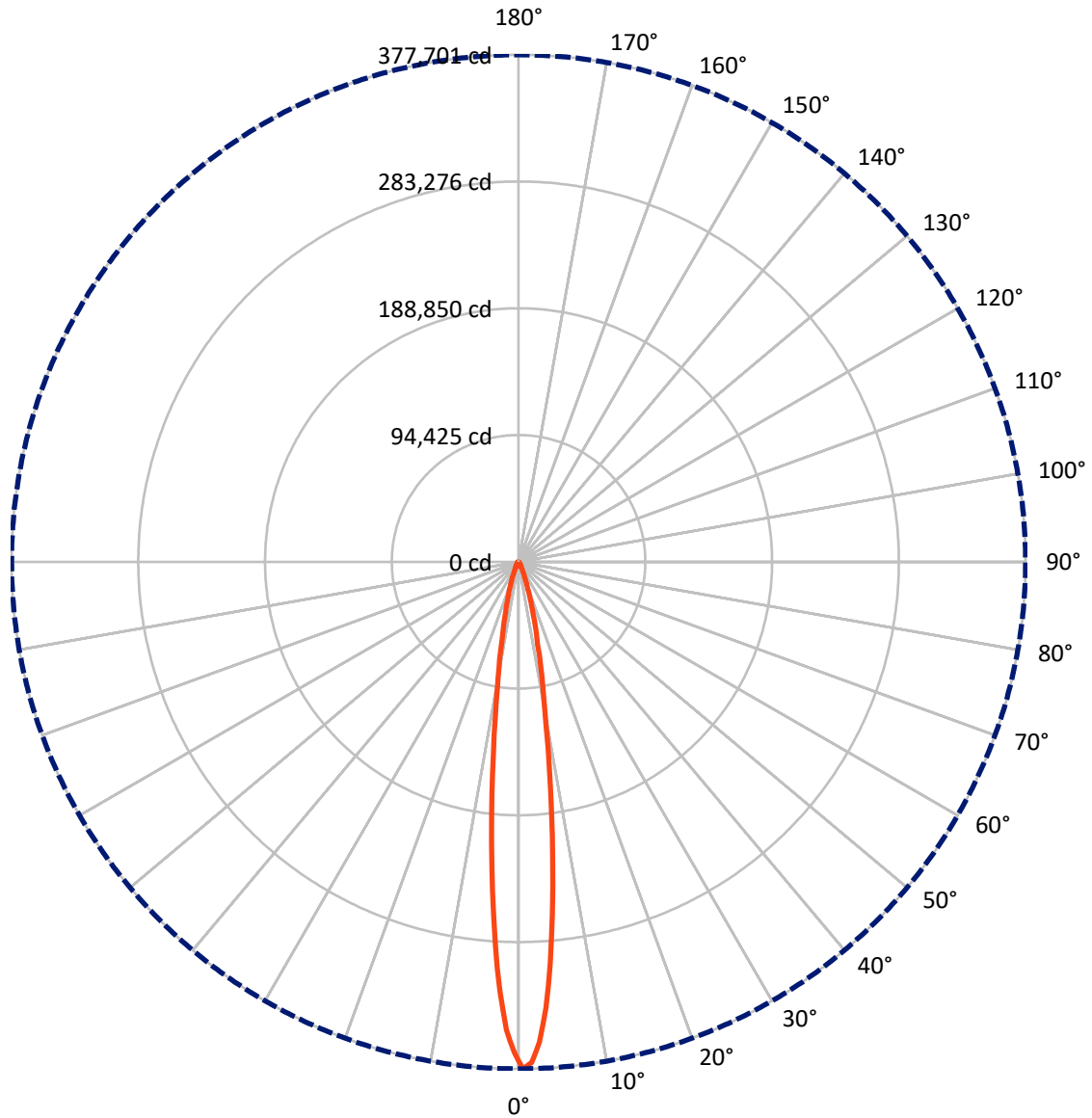
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 944.3 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	19475.2	0.0	19475.2
	% Fixture	51.2	0.0	51.2
<b>Street Side</b>	Lumens	18548.8	0.0	18548.8
	% Fixture	48.8	0.0	48.8
<b>Total</b>	Lumens	38023.9	0.0	38023.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	19195.6	50.5
10°-20°	12289.0	32.3
20°-30°	3693.8	9.7
30°-40°	1202.7	3.2
40°-50°	699.8	1.8
50°-60°	464.8	1.2
60°-70°	279.8	0.7
70°-80°	143.8	0.4
80°-90°	54.6	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°	38023.9	100.0
0°-180°	38023.9	100.0

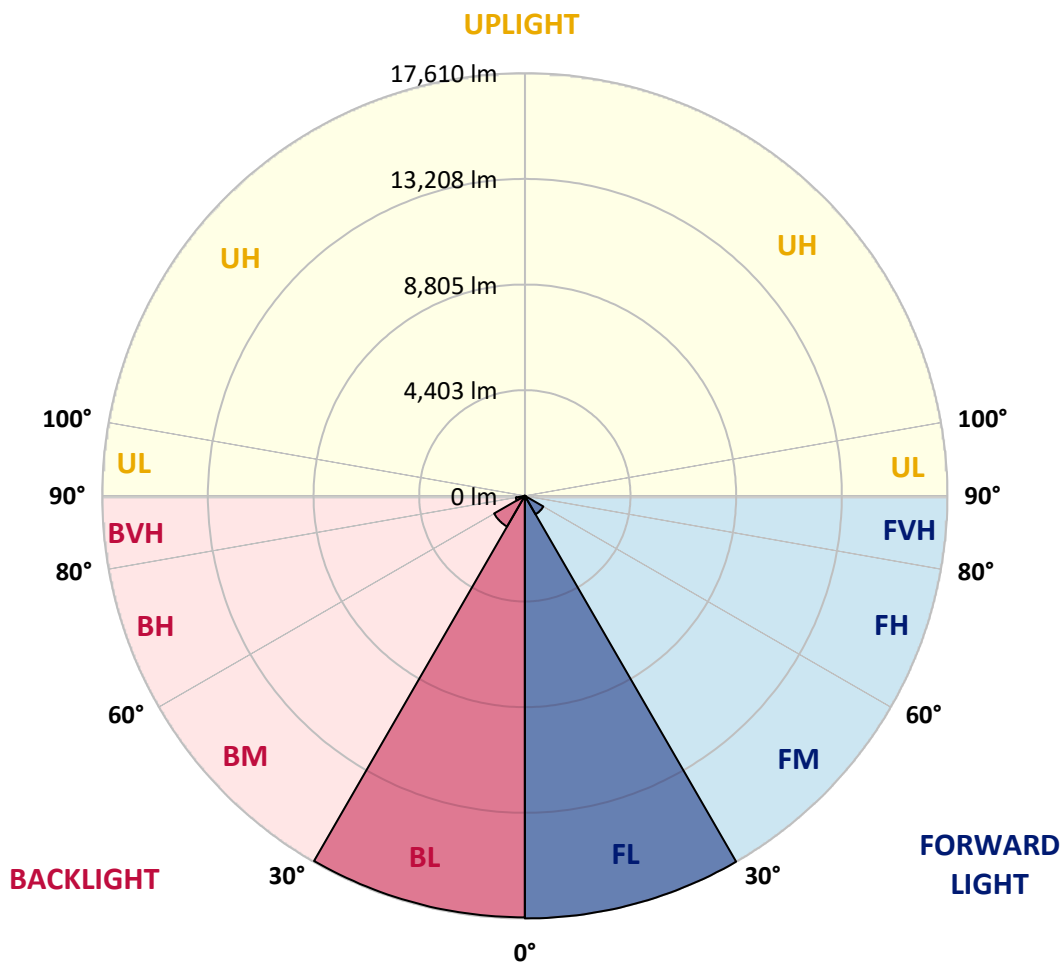


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	17610.1	46.3			
FM (30°-60°)	888.6	2.3			
FH (60°-80°)	41.8	0.1			G0/660
FVH (80°-90°)	8.2	0.0			G0/10
BL (0°-30°)	17568.3	46.2	B5		
BM (30°-60°)	1478.7	3.9	B2/2500		
BH (60°-80°)	381.8	1.0	B1/500		G0/660
BVH (80°-90°)	46.4	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°	377700.9	377700.9	377700.9	377700.9	377700.9	377700.9	377700.9	377700.9	377700.9	377700.9
1°	373178.4	372039.5	369099.1	371190.6	373029.3	372495.1	372457.8	372259.0	371981.6	374160.0
2°	358261.1	357523.9	353175.4	354968.7	357581.9	355676.8	356869.6	355821.8	355842.5	358443.3
3°	333114.4	333516.1	326579.3	329838.6	333470.6	328852.9	330285.8	332977.8	330157.5	329308.5
4°	300430.4	296943.3	293153.9	296467.1	297407.2	294719.4	297361.6	300658.2	296740.4	296914.3
5°	263116.3	260540.3	256055.2	258101.0	255769.4	256618.4	260577.6	261936.0	259202.7	255761.1
6°	224750.3	222919.8	217312.3	220261.0	219432.7	218952.3	223951.0	219809.6	221300.5	219217.3
7°	186947.5	183526.6	180772.6	183597.0	183779.3	182333.9	188823.5	188069.8	185357.1	184727.7
8°	154888.8	151476.3	149144.6	151248.5	152623.4	150353.9	153406.2	155410.6	153290.2	153480.7
9°	124925.7	124325.2	121082.4	123832.3	125327.4	122896.4	126275.8	127000.5	125016.8	125981.7
10°	102574.5	101874.6	99286.2	100400.2	102876.8	99977.8	103220.5	103456.6	101874.6	102326.0
12.5°	63388.4	63106.8	63036.4	63197.9	63164.8	63678.3	64506.6	63562.4	63438.1	61876.8
15°	40971.0	41389.3	40958.6	41786.8	41906.9	42391.5	41886.2	41124.2	39670.6	38950.0
17.5°	25569.1	26103.3	26840.5	28053.9	29267.4	29408.2	28737.3	27842.7	27138.7	26368.4
20°	14710.3	14971.2	14859.4	16313.0	19452.2	20305.3	19439.8	18499.7	17650.7	16872.1
22.5°	9140.1	9044.8	9218.8	9707.5	10730.4	13368.5	12660.3	11720.2	11103.1	10461.2
25°	5603.3	5706.9	5640.6	5909.8	6369.5	7487.7	7649.2	7243.3	6928.6	6597.3
27.5°	3607.2	3607.2	3636.2	3785.2	4100.0	4062.7	4924.1	4609.4	4439.6	4278.1
30°	2505.6	2513.8	2513.8	2600.8	2671.2	2547.0	2770.6	3176.5	3097.8	2973.5
32.5°	1859.5	1884.3	1905.0	1950.6	1892.6	1760.1	1813.9	2286.1	2240.5	2194.9
35°	1416.4	1437.1	1486.8	1511.6	1428.8	1346.0	1296.3	1681.4	1702.1	1689.7
37.5°	1031.2	1043.6	1134.7	1230.0	1134.7	1060.2	1031.2	1292.1	1391.5	1379.1
40°	791.0	795.2	811.7	919.4	919.4	861.4	869.7	964.9	1138.9	1138.9
42.5°	679.2	679.2	695.8	679.2	683.3	745.5	766.2	778.6	964.9	964.9
45°	588.1	588.1	596.4	554.9	513.5	641.9	658.5	662.6	811.7	832.4
47.5°	492.8	492.8	509.4	455.6	434.8	509.4	554.9	567.4	699.9	716.5
50°	364.4	368.6	418.3	372.7	385.2	393.4	480.4	488.7	592.2	629.5
52.5°	244.3	244.3	252.6	289.9	335.5	323.0	389.3	418.3	472.1	521.8
55°	198.8	198.8	194.6	186.4	248.5	269.2	285.8	347.9	385.2	447.3
57.5°	136.7	144.9	132.5	153.2	161.5	202.9	215.4	273.3	294.0	376.9
60°	16.6	20.7	29.0	111.8	107.7	136.7	161.5	215.4	240.2	289.9
62.5°	4.1	4.1	8.3	20.7	74.5	91.1	128.4	149.1	173.9	223.6
65°	0.0	0.0	4.1	8.3	16.6	49.7	66.3	87.0	124.2	157.4
67.5°	0.0	0.0	4.1	8.3	8.3	20.7	33.1	53.8	66.3	116.0
70°	0.0	0.0	4.1	8.3	8.3	16.6	20.7	24.8	45.6	62.1
72.5°	0.0	0.0	4.1	8.3	12.4	16.6	20.7	20.7	20.7	41.4
75°	0.0	0.0	4.1	8.3	12.4	16.6	20.7	20.7	16.6	16.6
77.5°	0.0	0.0	4.1	8.3	16.6	20.7	24.8	20.7	12.4	12.4
80°	0.0	0.0	4.1	12.4	20.7	29.0	33.1	24.8	12.4	8.3
82.5°	0.0	0.0	8.3	16.6	24.8	33.1	45.6	37.3	16.6	8.3
85°	0.0	0.0	4.1	12.4	24.8	33.1	66.3	45.6	20.7	4.1
87.5°	0.0	0.0	0.0	4.1	4.1	8.3	24.8	16.6	8.3	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°
377700.9	0°	377700.9	377700.9	377700.9	377700.9	377700.9	377700.9	377700.9	377700.9
371646.1	1°	374242.8	374503.7	373650.6	374971.7	374507.8	371791.1	370892.4	368295.7
356915.1	2°	355821.8	357151.2	357217.4	358683.5	358662.8	355494.6	354513.1	356322.9
331031.3	3°	330029.1	331578.0	330182.3	332787.3	332004.5	328161.3	327163.2	329217.4
298289.3	4°	297398.9	297104.9	296624.4	295141.8	296968.2	294346.7	292371.2	295158.4
260325.0	5°	259803.2	259148.8	258212.9	257773.9	259132.3	257455.0	253392.3	257463.3
222986.0	6°	223259.3	220443.2	220306.5	220062.2	220198.8	215502.5	215784.1	218815.6
182561.7	7°	184491.6	185009.3	183953.2	185647.0	184354.9	181174.3	179948.5	183141.5
154317.3	8°	153240.5	152586.2	151778.6	154309.0	152068.5	149981.2	148552.4	151074.5
126139.1	9°	125903.0	124772.4	123952.4	123824.1	124171.9	120254.2	121049.3	122958.5
102574.5	10°	102611.7	100756.4	101207.8	101327.9	100946.9	98379.2	98404.1	99062.6
62912.2	12.5°	62688.5	61777.4	62005.2	62129.5	62903.9	62001.1	60725.5	59806.1
39666.4	15°	39401.4	38747.0	40084.7	40983.4	40801.2	39997.8	39397.2	38564.8
26368.4	17.5°	26124.0	26981.3	26985.4	27805.4	27888.3	27084.8	26621.0	25871.4
17149.6	20°	17087.5	17443.6	18184.9	18764.7	19100.2	18487.3	17932.3	17418.8
10693.1	22.5°	10693.1	11314.3	11778.2	12531.9	12838.4	12391.1	11997.7	11579.4
6676.0	25°	6564.1	7007.3	7392.4	8046.8	8465.0	8249.7	7889.4	7595.3
4311.2	27.5°	4377.5	4563.8	4754.3	5205.8	5640.6	5520.5	5375.6	5197.5
3039.8	30°	3085.4	3101.9	3304.8	3557.5	3847.4	3921.9	3855.7	3764.5
2232.2	32.5°	2273.6	2339.9	2435.1	2592.5	2787.2	2965.3	2932.1	2890.7
1706.3	35°	1756.0	1855.4	1934.0	2054.1	2157.7	2327.5	2356.5	2344.0
1403.9	37.5°	1432.9	1519.9	1598.6	1669.0	1756.0	1871.9	1963.0	1967.2
1159.6	40°	1188.6	1267.3	1370.8	1424.6	1486.8	1573.7	1685.6	1693.8
981.5	42.5°	1002.2	1076.8	1180.3	1246.6	1292.1	1374.9	1486.8	1503.3
840.7	45°	861.4	907.0	1014.6	1093.3	1138.9	1192.7	1312.8	1329.4
724.7	47.5°	749.6	795.2	861.4	973.2	1014.6	1064.3	1159.6	1188.6
641.9	50°	658.5	704.0	762.0	861.4	923.5	964.9	1043.6	1085.0
559.1	52.5°	583.9	629.5	691.6	770.3	840.7	878.0	952.5	1006.4
455.6	55°	488.7	567.4	612.9	683.3	778.6	811.7	869.7	940.1
397.6	57.5°	426.6	492.8	559.1	617.1	712.3	753.7	811.7	878.0
314.7	60°	360.3	422.4	501.1	550.8	641.9	695.8	757.9	820.0
240.2	62.5°	285.8	368.6	422.4	492.8	579.8	650.2	699.9	762.0
186.4	65°	211.2	302.3	364.4	439.0	521.8	596.4	637.8	704.0
132.5	67.5°	153.2	236.1	310.6	381.0	459.7	534.2	575.7	633.6
82.8	70°	120.1	173.9	256.8	318.9	401.7	463.8	509.4	546.7
53.8	72.5°	70.4	132.5	207.1	277.5	352.0	393.4	426.6	459.7
24.8	75°	45.6	103.5	169.8	231.9	285.8	323.0	352.0	381.0
12.4	77.5°	29.0	74.5	136.7	194.6	219.5	265.1	289.9	306.5
8.3	80°	16.6	58.0	120.1	157.4	178.1	207.1	231.9	252.6
8.3	82.5°	12.4	49.7	99.4	132.5	132.5	165.7	178.1	178.1
4.1	85°	8.3	41.4	78.7	124.2	99.4	124.2	116.0	116.0
4.1	87.5°	8.3	29.0	37.3	53.8	45.6	53.8	53.8	62.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
377700.9  
365612.1  
348657.1  
320093.8  
285069.9  
246737.0  
210027.5  
174457.0  
143872.6  
116994.9  
94581.6  
59247.0  
38138.3  
25685.0  
17240.7  
11355.7  
7425.6  
5093.9  
3702.4  
2857.6  
2302.6  
1938.2  
1681.4  
1490.9  
1325.3  
1192.7  
1089.2  
1006.4  
944.2  
882.1  
836.6  
791.0  
716.5  
637.8  
559.1  
468.0  
381.0  
298.2  
227.8  
165.7  
111.8  
62.1  
0.0

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