

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: P638618

Luminaire Tested: **EPH-VN-03-E-730-U-44-VI**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P638618  
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-44-VI  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 4 distribution lens and Visor  
Light Source: (48) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23689.6 lumens  
Efficiency: N/A  
Efficacy: 102.1 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

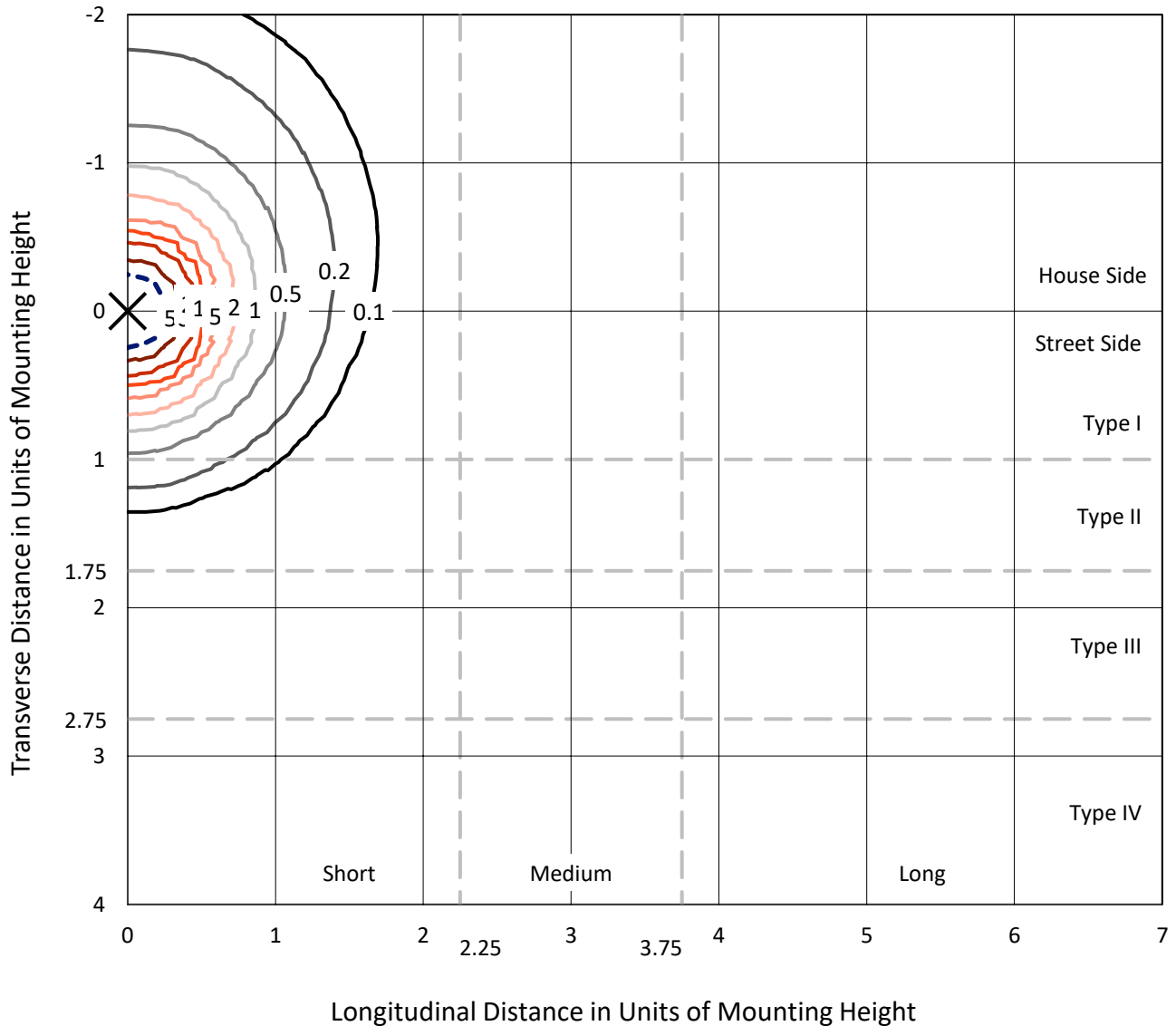
Input Watts (W): 232.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

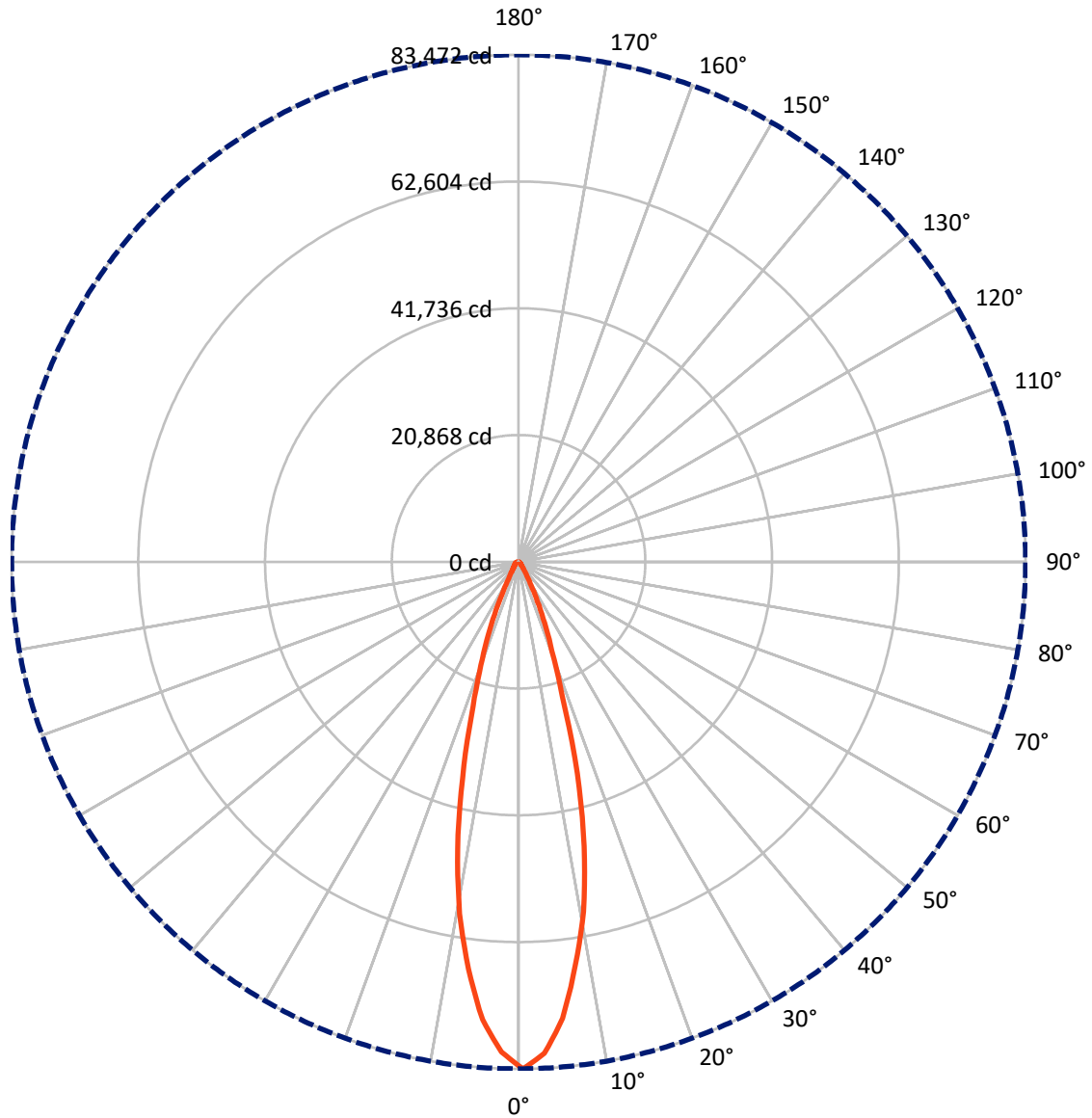
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 208.7 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
<b>House Side</b>	Lumens	12490.7	0.0	12490.7
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	11198.8	0.0	11198.8
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	23689.6	0.0	23689.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	6736.9	28.4
10°-20°	10203.0	43.1
20°-30°	4305.7	18.2
30°-40°	1123.0	4.7
40°-50°	568.0	2.4
50°-60°	371.3	1.6
60°-70°	222.4	0.9
70°-80°	117.0	0.5
80°-90°	42.3	0.2
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°	23689.6	100.0
0°-180°	23689.6	100.0

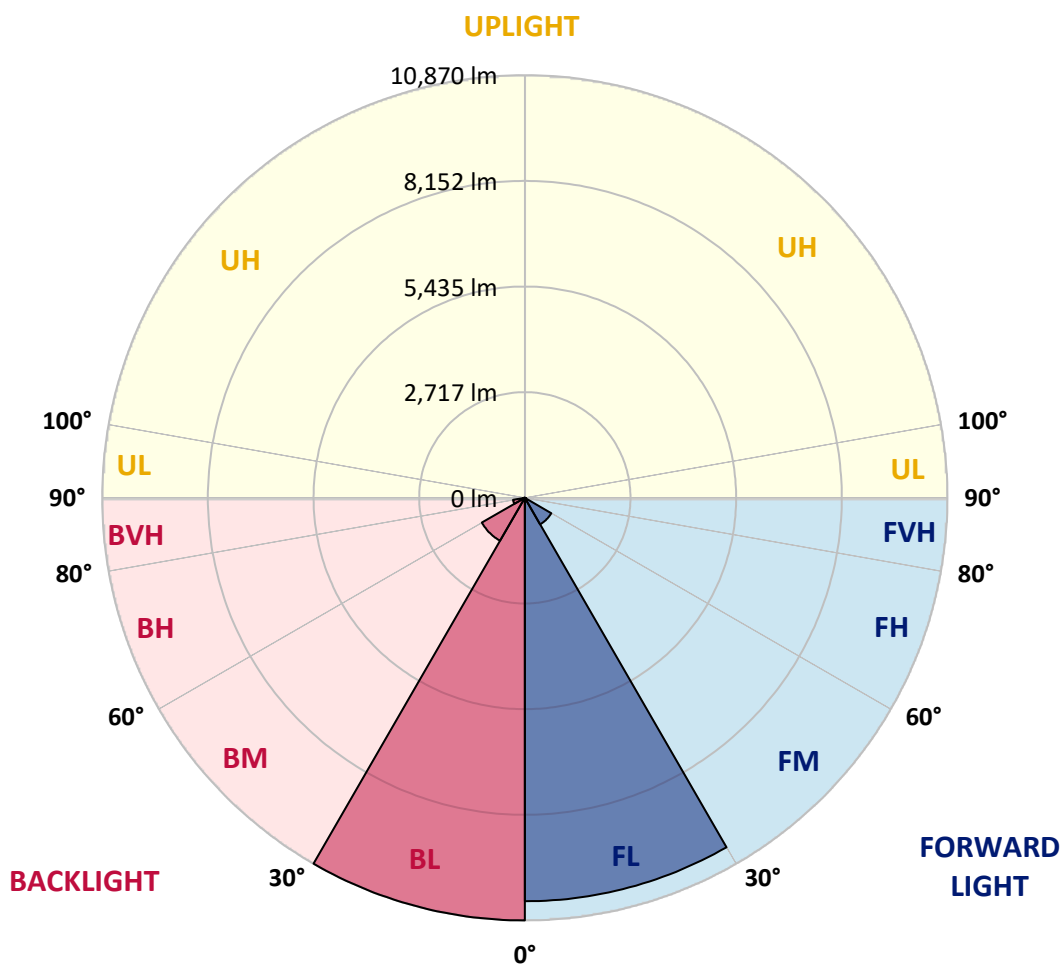


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	10375.9	43.8			
FM (30°-60°)	785.8	3.3			
FH (60°-80°)	32.0	0.1			G0/660
FVH (80°-90°)	5.1	0.0			G0/10
BL (0°-30°)	10869.8	45.9	B5		
BM (30°-60°)	1276.4	5.4	B2/2500		
BH (60°-80°)	307.4	1.3	B1/500		G0/660
BVH (80°-90°)	37.1	0.2			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°	83471.8	83471.8	83471.8	83471.8	83471.8	83471.8	83471.8	83471.8	83471.8	83471.8
2.5°	81040.2	81085.4	80917.8	81279.6	80997.6	81753.2	81378.1	81963.3	81766.5	82093.7
5°	75506.6	75432.1	75384.3	75945.6	75783.3	76594.7	76075.9	75905.7	76432.4	76336.7
7.5°	67150.4	67347.3	67235.5	67381.9	67464.3	68390.1	68682.8	68454.0	68462.0	68595.0
10°	58584.0	58294.0	57881.7	58155.7	58735.7	59140.0	58977.7	59313.0	59238.5	59555.0
12.5°	48043.6	48272.4	48041.0	47796.2	48809.8	48698.1	48980.1	49163.6	48703.4	49727.6
15°	36189.0	36308.7	36590.7	36572.1	37351.6	37508.6	37471.3	37665.5	37306.4	37476.6
17.5°	23249.0	23653.4	24411.6	25693.9	27135.8	27303.4	27260.8	27101.2	26928.3	26736.7
20°	15616.4	15573.8	15847.8	16222.9	19207.9	19998.0	19974.1	19473.9	18750.3	18612.0
22.5°	10939.4	11019.3	10982.0	11354.5	11971.7	14150.5	13881.8	13373.7	13136.9	12982.6
25°	7196.3	7167.0	7353.3	7465.0	7994.4	8260.4	9202.2	9013.3	8648.9	8688.8
27.5°	4387.0	4424.2	4493.4	4589.1	4964.3	4879.1	5416.5	5488.3	5371.3	5246.3
30°	2692.3	2718.9	2774.8	2843.9	2974.3	2881.2	3030.2	3288.2	3245.7	3157.9
32.5°	1827.7	1830.3	1870.2	1896.8	1880.9	1793.1	1841.0	2085.7	2091.1	2083.1
35°	1314.2	1314.2	1351.5	1372.8	1327.5	1255.7	1263.7	1415.3	1481.8	1495.1
37.5°	907.2	909.8	973.7	1037.5	987.0	968.4	936.5	1037.5	1144.0	1159.9
40°	689.0	686.4	718.3	766.2	771.5	736.9	747.6	811.4	920.5	933.8
42.5°	558.7	561.3	577.3	572.0	574.6	619.9	635.8	665.1	766.2	790.1
45°	470.9	473.5	481.5	454.9	444.3	513.5	534.7	550.7	635.8	665.1
47.5°	388.4	393.7	401.7	372.5	367.1	412.4	449.6	465.6	540.1	572.0
50°	279.3	284.7	313.9	298.0	313.9	324.6	375.1	399.1	449.6	492.2
52.5°	202.2	207.5	215.5	218.2	258.1	263.4	300.6	337.9	361.8	409.7
55°	159.6	164.9	159.6	154.3	188.9	218.2	231.5	271.4	290.0	345.8
57.5°	90.5	95.8	103.8	119.7	125.0	167.6	180.9	215.5	231.5	284.7
60°	16.0	18.6	29.3	71.8	87.8	106.4	135.7	164.9	186.2	223.5
62.5°	2.7	2.7	5.3	16.0	50.5	74.5	98.4	117.1	135.7	170.3
65°	0.0	0.0	2.7	5.3	13.3	42.6	53.2	69.2	93.1	122.4
67.5°	0.0	0.0	2.7	5.3	8.0	16.0	23.9	42.6	53.2	82.5
70°	0.0	0.0	2.7	5.3	8.0	10.6	13.3	18.6	31.9	50.5
72.5°	0.0	0.0	2.7	5.3	8.0	10.6	13.3	16.0	16.0	31.9
75°	0.0	0.0	2.7	5.3	8.0	13.3	16.0	16.0	13.3	13.3
77.5°	0.0	0.0	2.7	5.3	10.6	16.0	18.6	16.0	10.6	10.6
80°	0.0	0.0	5.3	8.0	13.3	18.6	23.9	18.6	10.6	5.3
82.5°	0.0	0.0	5.3	10.6	13.3	21.3	29.3	23.9	10.6	5.3
85°	0.0	0.0	2.7	8.0	16.0	21.3	29.3	21.3	10.6	2.7
87.5°	0.0	0.0	2.7	2.7	5.3	8.0	16.0	13.3	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°
83471.8	0°	83471.8	83471.8	83471.8	83471.8	83471.8	83471.8	83471.8	83471.8	83471.8
81473.8	2.5°	81942.1	82367.7	82455.5	82338.5	82508.7	82202.8	81968.7	81362.1	80997.6
76307.4	5°	76799.6	76735.7	77180.0	77326.3	77307.7	77073.6	76746.4	76379.2	76022.7
68336.9	7.5°	68762.6	68845.1	69249.4	69507.5	69377.1	69084.5	68858.4	68581.7	68342.3
59669.4	10°	60214.8	59648.2	60151.0	60151.0	60499.5	59672.1	59749.3	59052.2	59084.2
49709.0	12.5°	49879.3	50084.1	50166.6	50403.4	49996.3	49557.4	49020.0	48913.6	48581.0
37152.1	15°	37686.8	38272.1	37769.3	38628.6	38213.6	37756.0	37673.5	36848.8	37109.5
26946.9	17.5°	26813.9	27460.3	27662.5	28154.7	27776.9	27505.6	27162.4	26912.3	26893.7
18864.7	20°	19013.7	19662.8	19811.8	20402.4	20359.8	20274.7	19984.7	19668.1	19324.9
12841.6	22.5°	13035.8	13565.2	14060.1	14855.5	14842.2	14592.1	14562.9	14115.9	14123.9
8675.5	25°	8765.9	9151.7	9268.7	10082.8	10173.3	10146.7	9995.0	9580.0	9737.0
5299.5	27.5°	5304.8	5642.6	6039.0	6326.4	6597.7	6555.2	6403.5	6172.1	6071.0
3184.5	30°	3269.6	3421.2	3567.6	3913.4	4075.7	4160.8	4089.0	3873.5	3889.5
2096.4	32.5°	2141.6	2269.3	2375.7	2593.9	2679.0	2836.0	2806.7	2761.5	2708.3
1508.4	35°	1561.6	1654.8	1726.6	1827.7	1936.7	2069.8	2091.1	2072.4	2051.1
1165.2	37.5°	1191.8	1287.6	1370.1	1412.7	1497.8	1601.5	1660.1	1657.4	1641.4
949.8	40°	968.4	1040.2	1114.7	1170.6	1229.1	1306.2	1378.1	1386.1	1386.1
798.1	42.5°	808.8	869.9	944.4	1003.0	1045.5	1117.4	1191.8	1197.2	1191.8
675.7	45°	691.7	744.9	816.7	885.9	920.5	973.7	1045.5	1061.5	1050.8
580.0	47.5°	601.2	649.1	710.3	784.8	822.1	869.9	936.5	955.1	952.4
500.1	50°	516.1	572.0	633.2	694.4	742.2	787.5	851.3	872.6	864.6
425.7	52.5°	454.9	505.5	558.7	625.2	681.1	721.0	771.5	808.8	798.1
359.1	55°	380.4	441.6	497.5	553.4	622.5	665.1	713.0	758.2	747.6
303.3	57.5°	329.9	380.4	444.3	494.8	564.0	614.5	662.4	710.3	707.7
247.4	60°	276.7	329.9	391.1	444.3	508.1	564.0	611.9	665.1	670.4
186.2	62.5°	218.2	282.0	335.2	396.4	460.2	521.4	564.0	617.2	625.2
141.0	65°	164.9	231.5	290.0	348.5	412.4	478.9	516.1	561.3	569.3
103.8	67.5°	122.4	178.2	247.4	300.6	367.1	431.0	465.6	502.8	516.1
63.8	70°	93.1	135.7	207.5	258.1	327.2	377.8	415.0	446.9	457.6
42.6	72.5°	58.5	106.4	167.6	220.8	282.0	327.2	353.8	372.5	388.4
23.9	75°	39.9	82.5	135.7	188.9	234.1	268.7	292.6	308.6	321.9
10.6	77.5°	23.9	63.8	111.7	157.0	186.2	212.8	236.8	247.4	255.4
8.0	80°	13.3	47.9	93.1	127.7	146.3	164.9	183.6	196.9	202.2
5.3	82.5°	8.0	37.2	74.5	98.4	106.4	125.0	143.7	151.6	151.6
2.7	85°	5.3	26.6	50.5	71.8	77.2	90.5	95.8	101.1	106.4
2.7	87.5°	5.3	16.0	31.9	39.9	42.6	47.9	50.5	55.9	61.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
<u>83471.8</u>
80728.9
75623.7
67530.8
58772.9
48277.7
36848.8
26398.9
19175.9
13969.6
9489.5
5983.2
3820.3
2689.6
2043.2
1633.5
1370.1
1186.5
1050.8
947.1
859.3
795.5
752.9
710.3
673.1
630.5
577.3
521.4
462.9
385.8
319.2
252.7
196.9
149.0
103.8
58.5
0.0

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